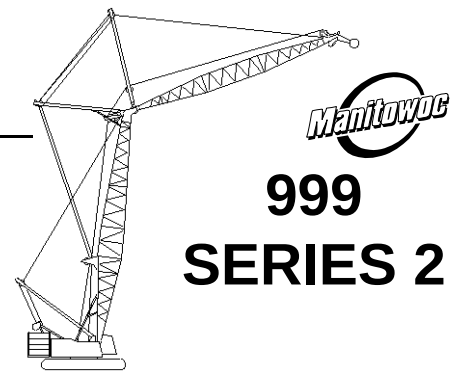




# Liftcrane Boom Capacities With Luffing Jib Attached

**New York City Code**  
**Boom No. 82**  
**Luffing Jib No. 149**  
**184,600 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 for boom and luffing jib length combinations thru 250 Ft. and New York City criteria of 1.4 factor applied to total machine moment for boom and luffing jib length combinations 260 Ft. and up. Capacities based on structural competence are denoted by an asterisk (\*).

Consult Luffing Jib Raising Procedure chart **No. 8422-A** for Maximum Number of Lower Boom Point Sheaves (Layout Jack-Knife Method table, column A).

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom point sheaves, is considered part of main boom load. Weight of luffing jib and 3,900 Lbs. suspended beneath luffing jib point sheaves have been included in capacity determination. Boom is not to be lowered beyond radii where combined weights are greater than rated capacity. Where no capacity is shown, operation is not intended or approved.

**OPERATING CONDITIONS:** Machine to operate in a level position on a firm uniformly supporting surface with gantry up. During operation, luffing jib must be maintained at proper boom to luffing jib angle shown in table. Refer to luffing jib assembly **No. A01031**, Wire Rope Specification chart **No. 8393-A** and Luffing Jib Raising Procedure chart **No. 8422-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 with boom and luffing jib within angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 8360-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.

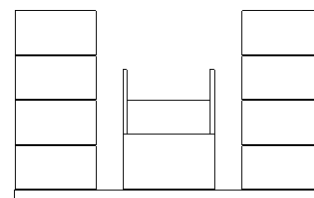
**BOOM POINT ELEVATION:** Boom point elevation is vertical distance from ground level to centerline of boom point shaft.

**MACHINE EQUIPMENT:** Machine equipped with 28 Ft. 2 in. crawlers, 48 in. treads, 10 Ft. 3 in. retractable gantry, 30 Ft. live mast, 20 part boom hoist reeving, boom support straps, 9 part luffing jib hoist reeving, luffing jib straps, two 1-1/2 in. luffing jib backstay pendants, 184,600 Lb. crane counterweight and two 22,000 Lb. carbody counterweights.

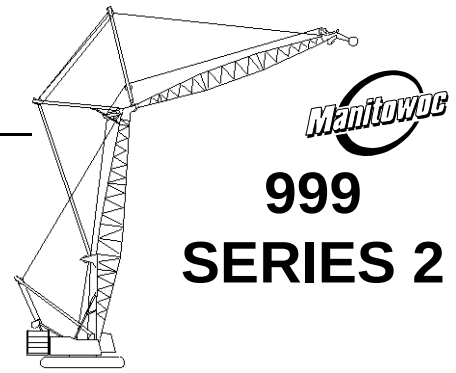
Consult chart **No. 8417-A** for main luffing jib capacities. Consult chart **No. 8346-A** for intermediate fall capacities.

Fixed jib No. 134 must be removed before use of this chart.

| Luffing Jib<br>Position During Operation |                           |
|------------------------------------------|---------------------------|
| Luffing Jib Length - Feet                | Boom To Luffing Jib Angle |
| 70                                       | 140 Degrees               |
| 80 - 90                                  | 150 Degrees               |
| 100 - 120                                | 160 Degrees               |
| 130 - 240                                | 168 Degrees               |



184,600 Lb. Crane Counterweight  
8 Side Boxes - 1 Center Box



# Liftcrane Boom Capacities With Luffing Jib Attached

**999  
SERIES 2**

New York City Code  
Boom No. 82  
Luffing Jib No. 149  
184,600 Lb. Crane Counterweight  
44,000 Lb. Carbody Counterweight  
360 Degree Rating

Meets  
ANSI B30.5  
Requirements

## 70 Ft. Luffing Jib, Attached At 140 Degree Boom To Luffing Jib Angle

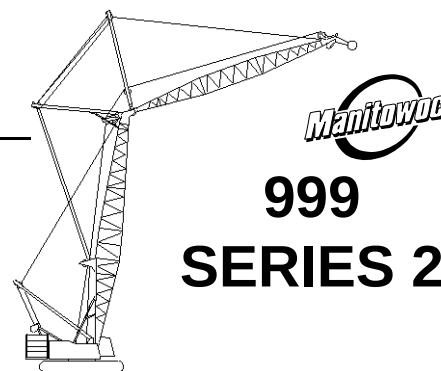
| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>80 Ft. BOOM</b>    |                      |                                |                            |
| 17                    | 83.0                 | 87.3                           | 401,300 *                  |
| 18                    | 82.3                 | 87.1                           | 379,000 *                  |
| 19                    | 81.5                 | 87.0                           | 358,900 *                  |
| 20                    | 80.8                 | 86.8                           | 340,600 *                  |
| 22                    | 79.3                 | 86.4                           | 308,600 *                  |
| 24                    | 77.9                 | 85.9                           | 281,500 *                  |
| 26                    | 76.4                 | 85.4                           | 258,300 *                  |
| 28                    | 74.9                 | 84.8                           | 229,500                    |
| 30                    | 73.4                 | 84.2                           | 202,300                    |
| 32                    | 71.9                 | 83.5                           | 180,000                    |
| 34                    | 70.4                 | 82.7                           | 161,400                    |
| <b>90 Ft. BOOM</b>    |                      |                                |                            |
| 19                    | 82.5                 | 97.1                           | 358,800 *                  |
| 20                    | 81.8                 | 96.9                           | 340,500 *                  |
| 22                    | 80.5                 | 96.6                           | 308,500 *                  |
| 24                    | 79.2                 | 96.2                           | 281,400 *                  |
| 26                    | 77.9                 | 95.7                           | 258,200 *                  |
| 28                    | 76.6                 | 95.2                           | 230,700                    |
| 30                    | 75.3                 | 94.6                           | 203,400                    |
| 32                    | 74.0                 | 94.0                           | 181,000                    |
| 34                    | 72.6                 | 93.4                           | 162,300                    |
| 36                    | 71.3                 | 92.7                           | 146,600                    |
| <b>100 Ft. BOOM</b>   |                      |                                |                            |
| 20                    | 82.7                 | 107.0                          | 333,100 *                  |
| 22                    | 81.5                 | 106.7                          | 308,800 *                  |
| 24                    | 80.3                 | 106.4                          | 281,800 *                  |
| 26                    | 79.2                 | 105.9                          | 258,600 *                  |
| 28                    | 78.0                 | 105.5                          | 231,800                    |
| 30                    | 76.8                 | 105.0                          | 204,400                    |
| 32                    | 75.6                 | 104.5                          | 182,000                    |
| 34                    | 74.4                 | 103.9                          | 163,300                    |
| 36                    | 73.2                 | 103.3                          | 147,500                    |
| 38                    | 72.0                 | 102.6                          | 133,900                    |
| 40                    | 70.8                 | 101.9                          | 122,200                    |

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>110 Ft. BOOM</b>   |                      |                                |                            |
| 22                    | 82.3                 | 116.9                          | 302,000 *                  |
| 24                    | 81.2                 | 116.5                          | 281,400 *                  |
| 26                    | 80.2                 | 116.2                          | 258,200 *                  |
| 28                    | 79.1                 | 115.7                          | 232,500                    |
| 30                    | 78.0                 | 115.3                          | 205,000                    |
| 32                    | 77.0                 | 114.8                          | 182,500                    |
| 34                    | 75.9                 | 114.3                          | 163,700                    |
| 36                    | 74.8                 | 113.7                          | 147,900                    |
| 38                    | 73.7                 | 113.1                          | 134,300                    |
| 40                    | 72.6                 | 112.5                          | 122,500                    |
| 42                    | 71.5                 | 111.8                          | 112,200                    |
| 44                    | 70.4                 | 111.0                          | 103,100                    |
| <b>120 Ft. BOOM</b>   |                      |                                |                            |
| 22                    | 82.9                 | 127.0                          | 292,500 *                  |
| 24                    | 82.0                 | 126.7                          | 281,500 *                  |
| 26                    | 81.0                 | 126.3                          | 258,300 *                  |
| 28                    | 80.0                 | 125.9                          | 233,200                    |
| 30                    | 79.1                 | 125.5                          | 205,700                    |
| 32                    | 78.1                 | 125.1                          | 183,100                    |
| 34                    | 77.1                 | 124.6                          | 164,300                    |
| 36                    | 76.1                 | 124.1                          | 148,400                    |
| 38                    | 75.1                 | 123.5                          | 134,800                    |
| 40                    | 74.1                 | 123.0                          | 122,900                    |
| 42                    | 73.1                 | 122.3                          | 112,600                    |
| 44                    | 72.1                 | 121.7                          | 103,500                    |
| 46                    | 71.1                 | 121.0                          | 95,400                     |
| 48                    | 70.1                 | 120.2                          | 88,100                     |
| <b>130 Ft. BOOM</b>   |                      |                                |                            |
| 24                    | 82.6                 | 136.8                          | 265,500 *                  |
| 26                    | 81.7                 | 136.5                          | 257,900 *                  |
| 28                    | 80.8                 | 136.1                          | 233,800                    |
| 30                    | 79.9                 | 135.7                          | 206,200                    |
| 32                    | 79.0                 | 135.3                          | 183,600                    |
| 34                    | 78.1                 | 134.9                          | 164,700                    |
| 36                    | 77.2                 | 134.4                          | 148,800                    |
| 38                    | 76.3                 | 133.9                          | 135,100                    |
| 40                    | 75.4                 | 133.4                          | 123,300                    |
| 42                    | 74.5                 | 132.8                          | 112,900                    |
| 44                    | 73.5                 | 132.2                          | 103,800                    |
| 46                    | 72.6                 | 131.5                          | 95,600                     |
| 48                    | 71.7                 | 130.9                          | 88,400                     |
| 50                    | 70.7                 | 130.1                          | 81,800                     |

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>140 Ft. BOOM</b>   |                      |                                |                            |
| 26                    | 82.3                 | 146.6                          | 251,200 *                  |
| 28                    | 81.5                 | 146.3                          | 234,400                    |
| 30                    | 80.6                 | 145.9                          | 206,700                    |
| 32                    | 79.8                 | 145.5                          | 184,000                    |
| 34                    | 79.0                 | 145.1                          | 165,100                    |
| 36                    | 78.1                 | 144.7                          | 149,100                    |
| 38                    | 77.3                 | 144.2                          | 135,400                    |
| 40                    | 76.4                 | 143.7                          | 123,600                    |
| 42                    | 75.6                 | 143.2                          | 113,200                    |
| 44                    | 74.7                 | 142.6                          | 104,000                    |
| 46                    | 73.9                 | 142.0                          | 95,900                     |
| 48                    | 73.0                 | 141.4                          | 88,600                     |
| 50                    | 72.2                 | 140.7                          | 82,100                     |
| <b>150 Ft. BOOM</b>   |                      |                                |                            |
| 26                    | 82.8                 | 156.7                          | 224,700 *                  |
| 28                    | 82.0                 | 156.4                          | 218,900 *                  |
| 30                    | 81.3                 | 156.1                          | 206,900                    |
| 32                    | 80.5                 | 155.7                          | 184,200                    |
| 34                    | 79.7                 | 155.3                          | 165,300                    |
| 36                    | 78.9                 | 154.9                          | 149,200                    |
| 38                    | 78.2                 | 154.5                          | 135,500                    |
| 40                    | 77.4                 | 154.0                          | 123,600                    |
| 42                    | 76.6                 | 153.5                          | 113,200                    |
| 44                    | 75.8                 | 153.0                          | 104,000                    |
| 46                    | 75.0                 | 152.5                          | 95,800                     |
| 48                    | 74.2                 | 151.9                          | 88,500                     |
| 50                    | 73.4                 | 151.3                          | 81,900                     |
| 55                    | 71.4                 | 149.6                          | 68,100                     |
| <b>160 Ft. BOOM</b>   |                      |                                |                            |
| 28                    | 82.5                 | 166.5                          | 211,600 *                  |
| 30                    | 81.8                 | 166.2                          | 206,100 *                  |
| 32                    | 81.1                 | 165.9                          | 184,400                    |
| 34                    | 80.4                 | 165.5                          | 165,400                    |
| 36                    | 79.6                 | 165.1                          | 149,400                    |
| 38                    | 78.9                 | 164.7                          | 135,600                    |
| 40                    | 78.2                 | 164.3                          | 123,700                    |
| 42                    | 77.4                 | 163.8                          | 113,300                    |
| 44                    | 76.7                 | 163.3                          | 104,100                    |
| 46                    | 76.0                 | 162.8                          | 95,900                     |
| 48                    | 75.2                 | 162.3                          | 88,600                     |
| 50                    | 74.5                 | 161.7                          | 82,000                     |
| 55                    | 72.6                 | 160.2                          | 68,100                     |
| 60                    | 70.7                 | 158.4                          | 56,900                     |

# Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code

Boom No. 82

Luffing Jib No. 149

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

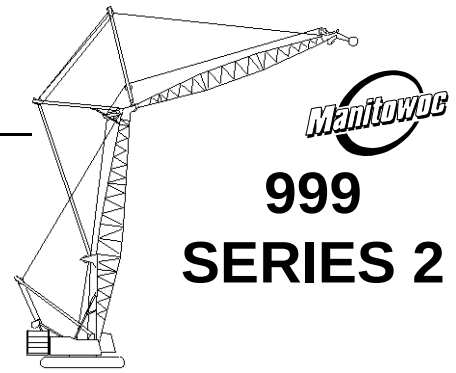
360 Degree Rating

Meets  
ANSI B30.5  
Requirements

### 70 Ft. Luffing Jib, Attached At 140 Degree Boom To Luffing Jib Angle

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| 170 Ft. BOOM          |                      |                                |                            |
| 28                    | 83.0                 | 176.6                          | 194,400 *                  |
| 30                    | 82.3                 | 176.3                          | 189,900 *                  |
| 32                    | 81.6                 | 176.0                          | 184,600                    |
| 34                    | 80.9                 | 175.7                          | 165,600                    |
| 36                    | 80.3                 | 175.3                          | 149,500                    |
| 38                    | 79.6                 | 174.9                          | 135,700                    |
| 40                    | 78.9                 | 174.5                          | 123,800                    |
| 42                    | 78.2                 | 174.1                          | 113,300                    |
| 44                    | 77.5                 | 173.6                          | 104,100                    |
| 46                    | 76.8                 | 173.1                          | 95,900                     |
| 48                    | 76.1                 | 172.6                          | 88,600                     |
| 50                    | 75.4                 | 172.1                          | 82,000                     |
| 55                    | 73.7                 | 170.6                          | 68,000                     |
| 60                    | 71.9                 | 169.0                          | 56,900                     |
| 65                    | 70.1                 | 167.2                          | 47,700                     |

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| 180 Ft. BOOM          |                      |                                |                            |
| 30                    | 82.7                 | 186.4                          | 182,200 *                  |
| 32                    | 82.1                 | 186.1                          | 178,000 *                  |
| 34                    | 81.4                 | 185.8                          | 165,700                    |
| 36                    | 80.8                 | 185.5                          | 149,600                    |
| 38                    | 80.2                 | 185.1                          | 135,800                    |
| 40                    | 79.5                 | 184.7                          | 123,800                    |
| 42                    | 78.9                 | 184.3                          | 113,300                    |
| 44                    | 78.2                 | 183.9                          | 104,100                    |
| 46                    | 77.6                 | 183.4                          | 95,900                     |
| 48                    | 76.9                 | 183.0                          | 88,500                     |
| 50                    | 76.2                 | 182.5                          | 81,900                     |
| 55                    | 74.6                 | 181.1                          | 67,900                     |
| 60                    | 72.9                 | 179.6                          | 56,800                     |
| 65                    | 71.2                 | 177.9                          | 47,600                     |



# Liftcrane Boom Capacities With Luffing Jib Attached

**999  
SERIES 2**

New York City Code  
Boom No. 82  
Luffing Jib No. 149  
184,600 Lb. Crane Counterweight  
44,000 Lb. Carbody Counterweight  
360 Degree Rating

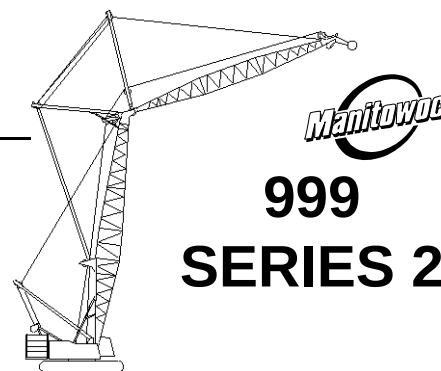
Meets  
ANSI B30.5  
Requirements

## 80 Ft. Luffing Jib, Attached At 150 Degree Boom To Luffing Jib Angle

| 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>    |                      |                                |                            |
| 17                    | 83.0                 | 87.3                           | 401,600 *                  |
| 18                    | 82.3                 | 87.1                           | 379,200 *                  |
| 19                    | 81.5                 | 87.0                           | 358,900 *                  |
| 20                    | 80.8                 | 86.8                           | 340,400 *                  |
| 22                    | 79.3                 | 86.4                           | 308,200 *                  |
| 24                    | 77.9                 | 85.9                           | 280,900 *                  |
| 26                    | 76.4                 | 85.4                           | 257,500 *                  |
| 28                    | 74.9                 | 84.8                           | 228,500                    |
| 30                    | 73.4                 | 84.2                           | 201,000                    |
| 32                    | 71.9                 | 83.5                           | 178,500                    |
| 34                    | 70.4                 | 82.7                           | 159,800                    |
| 36                    | 68.8                 | 81.9                           | 144,000                    |
| 38                    | 67.3                 | 81.1                           | 130,400                    |
| 40                    | 65.7                 | 80.1                           | 118,600                    |
| <b>90 Ft. BOOM</b>    |                      |                                |                            |
| 19                    | 82.5                 | 97.1                           | 358,900 *                  |
| 20                    | 81.8                 | 96.9                           | 340,500 *                  |
| 22                    | 80.5                 | 96.6                           | 308,200 *                  |
| 24                    | 79.2                 | 96.2                           | 281,000 *                  |
| 26                    | 77.9                 | 95.7                           | 257,600 *                  |
| 28                    | 76.6                 | 95.2                           | 230,000                    |
| 30                    | 75.3                 | 94.6                           | 202,400                    |
| 32                    | 74.0                 | 94.0                           | 179,800                    |
| 34                    | 72.6                 | 93.4                           | 161,000                    |
| 36                    | 71.3                 | 92.7                           | 145,100                    |
| 38                    | 69.9                 | 91.9                           | 131,500                    |
| 40                    | 68.6                 | 91.1                           | 119,600                    |
| 42                    | 67.2                 | 90.2                           | 109,300                    |
| 44                    | 65.8                 | 89.3                           | 100,200                    |
| <b>100 Ft. BOOM</b>   |                      |                                |                            |
| 20                    | 82.7                 | 107.0                          | 329,700 *                  |
| 22                    | 81.5                 | 106.7                          | 308,700 *                  |
| 24                    | 80.3                 | 106.4                          | 281,400 *                  |
| 26                    | 79.2                 | 105.9                          | 258,100 *                  |
| 28                    | 78.0                 | 105.5                          | 231,400                    |
| 30                    | 76.8                 | 105.0                          | 203,700                    |
| 32                    | 75.6                 | 104.5                          | 181,100                    |
| 34                    | 74.4                 | 103.9                          | 162,200                    |
| 36                    | 73.2                 | 103.3                          | 146,200                    |
| 38                    | 72.0                 | 102.6                          | 132,600                    |
| 40                    | 70.8                 | 101.9                          | 120,700                    |
| 42                    | 69.6                 | 101.1                          | 110,400                    |
| 44                    | 68.3                 | 100.3                          | 101,200                    |
| 46                    | 67.1                 | 99.4                           | 93,100                     |
| 48                    | 65.8                 | 98.5                           | 85,800                     |

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>110 Ft. BOOM</b>   |                      |                                |                            |
| 22                    | 82.3                 | 116.9                          | 298,800 *                  |
| 24                    | 81.2                 | 116.5                          | 281,200 *                  |
| 26                    | 80.2                 | 116.2                          | 257,800 *                  |
| 28                    | 79.1                 | 115.7                          | 232,300                    |
| 30                    | 78.0                 | 115.3                          | 204,500                    |
| 32                    | 77.0                 | 114.8                          | 181,800                    |
| 34                    | 75.9                 | 114.3                          | 162,900                    |
| 36                    | 74.8                 | 113.7                          | 146,800                    |
| 38                    | 73.7                 | 113.1                          | 133,100                    |
| 40                    | 72.6                 | 112.5                          | 121,200                    |
| 42                    | 71.5                 | 111.8                          | 110,800                    |
| 44                    | 70.4                 | 111.0                          | 101,600                    |
| 46                    | 69.3                 | 110.3                          | 93,500                     |
| 48                    | 68.2                 | 109.4                          | 86,200                     |
| 50                    | 67.0                 | 108.6                          | 79,600                     |
| <b>120 Ft. BOOM</b>   |                      |                                |                            |
| 22                    | 82.9                 | 127.0                          | 289,600 *                  |
| 24                    | 82.0                 | 126.7                          | 281,300 *                  |
| 26                    | 81.0                 | 126.3                          | 258,000 *                  |
| 28                    | 80.0                 | 125.9                          | 233,100                    |
| 30                    | 79.1                 | 125.5                          | 205,300                    |
| 32                    | 78.1                 | 125.1                          | 182,500                    |
| 34                    | 77.1                 | 124.6                          | 163,600                    |
| 36                    | 76.1                 | 124.1                          | 147,500                    |
| 38                    | 75.1                 | 123.5                          | 133,800                    |
| 40                    | 74.1                 | 123.0                          | 121,900                    |
| 42                    | 73.1                 | 122.3                          | 111,400                    |
| 44                    | 72.1                 | 121.7                          | 102,200                    |
| 46                    | 71.1                 | 121.0                          | 94,000                     |
| 48                    | 70.1                 | 120.2                          | 86,700                     |
| 50                    | 69.1                 | 119.4                          | 80,100                     |
| 55                    | 66.5                 | 117.3                          | 66,200                     |
| <b>130 Ft. BOOM</b>   |                      |                                |                            |
| 24                    | 82.6                 | 136.8                          | 263,700 *                  |
| 26                    | 81.7                 | 136.5                          | 256,000 *                  |
| 28                    | 80.8                 | 136.1                          | 233,800                    |
| 30                    | 79.9                 | 135.7                          | 206,000                    |
| 32                    | 79.0                 | 135.3                          | 183,100                    |
| 34                    | 78.1                 | 134.9                          | 164,100                    |
| 36                    | 77.2                 | 134.4                          | 148,100                    |
| 38                    | 76.3                 | 133.9                          | 134,300                    |
| 40                    | 75.4                 | 133.4                          | 122,300                    |

| 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>   |                      |                                |                            |
| 42                    | 74.5                 | 132.8                          | 111,900                    |
| 44                    | 73.5                 | 132.2                          | 102,600                    |
| 46                    | 72.6                 | 131.5                          | 94,400                     |
| 48                    | 71.7                 | 130.9                          | 87,100                     |
| 50                    | 70.7                 | 130.1                          | 80,500                     |
| 55                    | 68.4                 | 128.2                          | 66,600                     |
| 60                    | 66.0                 | 126.0                          | 55,400                     |
| <b>140 Ft. BOOM</b>   |                      |                                |                            |
| 26                    | 82.3                 | 146.6                          | 249,200 *                  |
| 28                    | 81.5                 | 146.3                          | 234,500                    |
| 30                    | 80.6                 | 145.9                          | 206,500                    |
| 32                    | 79.8                 | 145.5                          | 183,700                    |
| 34                    | 79.0                 | 145.1                          | 164,600                    |
| 36                    | 78.1                 | 144.7                          | 148,500                    |
| 38                    | 77.3                 | 144.2                          | 134,700                    |
| 40                    | 76.4                 | 143.7                          | 122,700                    |
| 42                    | 75.6                 | 143.2                          | 112,300                    |
| 44                    | 74.7                 | 142.6                          | 103,000                    |
| 46                    | 73.9                 | 142.0                          | 94,800                     |
| 48                    | 73.0                 | 141.4                          | 87,500                     |
| 50                    | 72.2                 | 140.7                          | 80,800                     |
| 55                    | 70.0                 | 138.9                          | 66,900                     |
| 60                    | 67.8                 | 136.9                          | 55,700                     |
| 65                    | 65.5                 | 134.7                          | 46,600                     |
| <b>150 Ft. BOOM</b>   |                      |                                |                            |
| 26                    | 82.8                 | 156.7                          | 222,800 *                  |
| 28                    | 82.0                 | 156.4                          | 216,900 *                  |
| 30                    | 81.3                 | 156.1                          | 206,900                    |
| 32                    | 80.5                 | 155.7                          | 184,000                    |
| 34                    | 79.7                 | 155.3                          | 164,900                    |
| 36                    | 78.9                 | 154.9                          | 148,700                    |
| 38                    | 78.2                 | 154.5                          | 134,900                    |
| 40                    | 77.4                 | 154.0                          | 122,900                    |
| 42                    | 76.6                 | 153.5                          | 112,400                    |
| 44                    | 75.8                 | 153.0                          | 103,100                    |
| 46                    | 75.0                 | 152.5                          | 94,800                     |
| 48                    | 74.2                 | 151.9                          | 87,500                     |
| 50                    | 73.4                 | 151.3                          | 80,800                     |
| 55                    | 71.4                 | 149.6                          | 66,800                     |
| 60                    | 69.4                 | 147.7                          | 55,600                     |
| 65                    | 67.3                 | 145.6                          | 46,400                     |
| 70                    | 65.2                 | 143.4                          | 38,800                     |



**999**

**SERIES 2**

# Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code

Boom No. 82

Luffing Jib No. 149

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

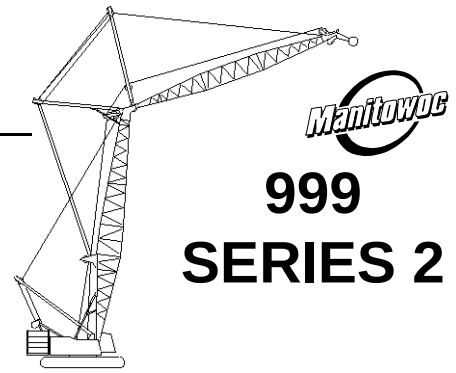
Meets  
ANSI B30.5  
Requirements

## 80 Ft. Luffing Jib, Attached At 150 Degree Boom To Luffing Jib Angle

| 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                    | 82.5                 | 166.5                          | 209,700 *                  |
| 30                    | 81.8                 | 166.2                          | 204,100 *                  |
| 32                    | 81.1                 | 165.9                          | 184,300                    |
| 34                    | 80.4                 | 165.5                          | 165,200                    |
| 36                    | 79.6                 | 165.1                          | 149,000                    |
| 38                    | 78.9                 | 164.7                          | 135,100                    |
| 40                    | 78.2                 | 164.3                          | 123,100                    |
| 42                    | 77.4                 | 163.8                          | 112,500                    |
| 44                    | 76.7                 | 163.3                          | 103,200                    |
| 46                    | 76.0                 | 162.8                          | 95,000                     |
| 48                    | 75.2                 | 162.3                          | 87,600                     |
| 50                    | 74.5                 | 161.7                          | 80,900                     |
| 55                    | 72.6                 | 160.2                          | 66,900                     |
| 60                    | 70.7                 | 158.4                          | 55,700                     |
| 65                    | 68.8                 | 156.5                          | 46,500                     |
| 70                    | 66.8                 | 154.4                          | 38,900                     |

| 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                    | 83.0                 | 176.6                          | 192,500 *                  |
| 30                    | 82.3                 | 176.3                          | 188,000 *                  |
| 32                    | 81.6                 | 176.0                          | 183,600 *                  |
| 34                    | 80.9                 | 175.7                          | 165,400                    |
| 36                    | 80.3                 | 175.3                          | 149,200                    |
| 38                    | 79.6                 | 174.9                          | 135,200                    |
| 40                    | 78.9                 | 174.5                          | 123,200                    |
| 42                    | 78.2                 | 174.1                          | 112,600                    |
| 44                    | 77.5                 | 173.6                          | 103,300                    |
| 46                    | 76.8                 | 173.1                          | 95,100                     |
| 48                    | 76.1                 | 172.6                          | 87,700                     |
| 50                    | 75.4                 | 172.1                          | 81,000                     |
| 55                    | 73.7                 | 170.6                          | 66,900                     |
| 60                    | 71.9                 | 169.0                          | 55,700                     |
| 65                    | 70.1                 | 167.2                          | 46,500                     |
| 70                    | 68.3                 | 165.3                          | 38,800                     |
| 75                    | 66.4                 | 163.1                          | 32,300                     |

| 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                    | 82.7                 | 186.4                          | 177,700                    |
| 32                    | 82.1                 | 186.1                          | 156,000                    |
| 34                    | 81.4                 | 185.8                          | 137,900                    |
| 36                    | 80.8                 | 185.5                          | 122,600                    |
| 38                    | 80.2                 | 185.1                          | 109,500                    |
| 40                    | 79.5                 | 184.7                          | 98,100                     |
| 42                    | 78.9                 | 184.3                          | 88,100                     |
| 44                    | 78.2                 | 183.9                          | 79,400                     |
| 46                    | 77.6                 | 183.4                          | 71,600                     |
| 48                    | 76.9                 | 183.0                          | 64,600                     |
| 50                    | 76.2                 | 182.5                          | 58,300                     |
| 55                    | 74.6                 | 181.1                          | 45,100                     |
| 60                    | 72.9                 | 179.6                          | 34,500                     |
| 65                    | 71.2                 | 177.9                          | 25,800                     |
| 70                    | 69.5                 | 176.0                          | 18,600                     |
| 75                    | 67.8                 | 174.0                          | 12,500                     |
| 80                    | 66.1                 | 171.8                          | 7,200                      |



# Liftcrane Boom Capacities With Luffing Jib Attached

**999  
SERIES 2**

New York City Code  
Boom No. 82  
Luffing Jib No. 149  
184,600 Lb. Crane Counterweight  
44,000 Lb. Carbody Counterweight  
360 Degree Rating

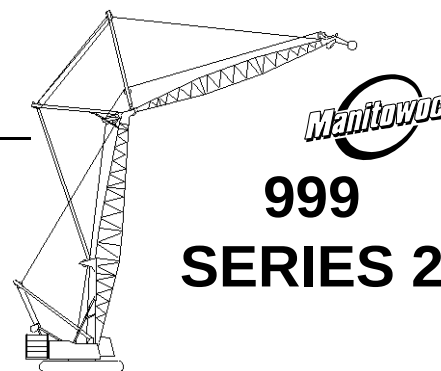
Meets  
ANSI B30.5  
Requirements

## 90 Ft. Luffing Jib, Attached At 150 Degree Boom To Luffing Jib Angle

| 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>    |                      |                                |                            |
| 17                    | 83.0                 | 87.3                           | 397,100 *                  |
| 18                    | 82.3                 | 87.1                           | 374,800 *                  |
| 19                    | 81.5                 | 87.0                           | 354,700 *                  |
| 20                    | 80.8                 | 86.8                           | 336,300 *                  |
| 22                    | 79.3                 | 86.4                           | 304,300 *                  |
| 24                    | 77.9                 | 85.9                           | 277,100 *                  |
| 26                    | 76.4                 | 85.4                           | 253,900 *                  |
| 28                    | 74.9                 | 84.8                           | 223,100                    |
| 30                    | 73.4                 | 84.2                           | 196,000                    |
| 32                    | 71.9                 | 83.5                           | 173,800                    |
| 34                    | 70.4                 | 82.7                           | 155,300                    |
| 36                    | 68.8                 | 81.9                           | 139,700                    |
| 38                    | 67.3                 | 81.1                           | 126,300                    |
| 40                    | 65.7                 | 80.1                           | 114,700                    |
| <b>90 Ft. BOOM</b>    |                      |                                |                            |
| 19                    | 82.5                 | 97.1                           | 354,700 *                  |
| 20                    | 81.8                 | 96.9                           | 336,400 *                  |
| 22                    | 80.5                 | 96.6                           | 304,400 *                  |
| 24                    | 79.2                 | 96.2                           | 277,300 *                  |
| 26                    | 77.9                 | 95.7                           | 254,100 *                  |
| 28                    | 76.6                 | 95.2                           | 224,800                    |
| 30                    | 75.3                 | 94.6                           | 197,500                    |
| 32                    | 74.0                 | 94.0                           | 175,200                    |
| 34                    | 72.6                 | 93.4                           | 156,700                    |
| 36                    | 71.3                 | 92.7                           | 141,000                    |
| 38                    | 69.9                 | 91.9                           | 127,500                    |
| 40                    | 68.6                 | 91.1                           | 115,800                    |
| 42                    | 67.2                 | 90.2                           | 105,600                    |
| 44                    | 65.8                 | 89.3                           | 96,600                     |
| <b>100 Ft. BOOM</b>   |                      |                                |                            |
| 20                    | 82.7                 | 107.0                          | 327,200 *                  |
| 22                    | 81.5                 | 106.7                          | 304,900 *                  |
| 24                    | 80.3                 | 106.4                          | 277,800 *                  |
| 26                    | 79.2                 | 105.9                          | 254,600 *                  |
| 28                    | 78.0                 | 105.5                          | 226,200                    |
| 30                    | 76.8                 | 105.0                          | 198,900                    |
| 32                    | 75.6                 | 104.5                          | 176,600                    |
| 34                    | 74.4                 | 103.9                          | 158,000                    |
| 36                    | 73.2                 | 103.3                          | 142,200                    |
| 38                    | 72.0                 | 102.6                          | 128,700                    |
| 40                    | 70.8                 | 101.9                          | 117,000                    |
| 42                    | 69.6                 | 101.1                          | 106,800                    |
| 44                    | 68.3                 | 100.3                          | 97,800                     |
| 46                    | 67.1                 | 99.4                           | 89,700                     |
| 48                    | 65.8                 | 98.5                           | 82,600                     |

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>110 Ft. BOOM</b>   |                      |                                |                            |
| 22                    | 82.3                 | 116.9                          | 296,500 *                  |
| 24                    | 81.2                 | 116.5                          | 277,600 *                  |
| 26                    | 80.2                 | 116.2                          | 254,400 *                  |
| 28                    | 79.1                 | 115.7                          | 227,200                    |
| 30                    | 78.0                 | 115.3                          | 199,800                    |
| 32                    | 77.0                 | 114.8                          | 177,400                    |
| 34                    | 75.9                 | 114.3                          | 158,700                    |
| 36                    | 74.8                 | 113.7                          | 142,900                    |
| 38                    | 73.7                 | 113.1                          | 129,400                    |
| 40                    | 72.6                 | 112.5                          | 117,600                    |
| 42                    | 71.5                 | 111.8                          | 107,300                    |
| 44                    | 70.4                 | 111.0                          | 98,300                     |
| 46                    | 69.3                 | 110.3                          | 90,200                     |
| 48                    | 68.2                 | 109.4                          | 83,000                     |
| 50                    | 67.0                 | 108.6                          | 76,500                     |
| <b>120 Ft. BOOM</b>   |                      |                                |                            |
| 22                    | 82.9                 | 127.0                          | 287,500 *                  |
| 24                    | 82.0                 | 126.7                          | 277,800 *                  |
| 26                    | 81.0                 | 126.3                          | 254,700 *                  |
| 28                    | 80.0                 | 125.9                          | 228,200                    |
| 30                    | 79.1                 | 125.5                          | 200,700                    |
| 32                    | 78.1                 | 125.1                          | 178,200                    |
| 34                    | 77.1                 | 124.6                          | 159,500                    |
| 36                    | 76.1                 | 124.1                          | 143,700                    |
| 38                    | 75.1                 | 123.5                          | 130,100                    |
| 40                    | 74.1                 | 123.0                          | 118,300                    |
| 42                    | 73.1                 | 122.3                          | 108,000                    |
| 44                    | 72.1                 | 121.7                          | 98,900                     |
| 46                    | 71.1                 | 121.0                          | 90,900                     |
| 48                    | 70.1                 | 120.2                          | 83,600                     |
| 50                    | 69.1                 | 119.4                          | 77,100                     |
| 55                    | 66.5                 | 117.3                          | 63,400                     |
| <b>130 Ft. BOOM</b>   |                      |                                |                            |
| 24                    | 82.6                 | 136.8                          | 262,500 *                  |
| 26                    | 81.7                 | 136.5                          | 254,600 *                  |
| 28                    | 80.8                 | 136.1                          | 229,000                    |
| 30                    | 79.9                 | 135.7                          | 201,400                    |
| 32                    | 79.0                 | 135.3                          | 178,900                    |
| 34                    | 78.1                 | 134.9                          | 160,100                    |
| 36                    | 77.2                 | 134.4                          | 144,300                    |
| 38                    | 76.3                 | 133.9                          | 130,600                    |
| 40                    | 75.4                 | 133.4                          | 118,800                    |

| 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>   |                      |                                |                            |
| 42                    | 74.5                 | 132.8                          | 108,500                    |
| 44                    | 73.5                 | 132.2                          | 99,400                     |
| 46                    | 72.6                 | 131.5                          | 91,300                     |
| 48                    | 71.7                 | 130.9                          | 84,100                     |
| 50                    | 70.7                 | 130.1                          | 77,600                     |
| 55                    | 68.4                 | 128.2                          | 63,800                     |
| 60                    | 66.0                 | 126.0                          | 52,800                     |
| <b>140 Ft. BOOM</b>   |                      |                                |                            |
| 26                    | 82.3                 | 146.6                          | 247,900 *                  |
| 28                    | 81.5                 | 146.3                          | 229,700                    |
| 30                    | 80.6                 | 145.9                          | 202,100                    |
| 32                    | 79.8                 | 145.5                          | 179,500                    |
| 34                    | 79.0                 | 145.1                          | 160,700                    |
| 36                    | 78.1                 | 144.7                          | 144,800                    |
| 38                    | 77.3                 | 144.2                          | 131,100                    |
| 40                    | 76.4                 | 143.7                          | 119,300                    |
| 42                    | 75.6                 | 143.2                          | 109,000                    |
| 44                    | 74.7                 | 142.6                          | 99,900                     |
| 46                    | 73.9                 | 142.0                          | 91,700                     |
| 48                    | 73.0                 | 141.4                          | 84,500                     |
| 50                    | 72.2                 | 140.7                          | 78,000                     |
| 55                    | 70.0                 | 138.9                          | 64,200                     |
| 60                    | 67.8                 | 136.9                          | 53,100                     |
| 65                    | 65.5                 | 134.7                          | 44,100                     |
| <b>150 Ft. BOOM</b>   |                      |                                |                            |
| 26                    | 82.8                 | 156.7                          | 221,500 *                  |
| 28                    | 82.0                 | 156.4                          | 215,700 *                  |
| 30                    | 81.3                 | 156.1                          | 202,500                    |
| 32                    | 80.5                 | 155.7                          | 179,900                    |
| 34                    | 79.7                 | 155.3                          | 161,000                    |
| 36                    | 78.9                 | 154.9                          | 145,000                    |
| 38                    | 78.2                 | 154.5                          | 131,300                    |
| 40                    | 77.4                 | 154.0                          | 119,500                    |
| 42                    | 76.6                 | 153.5                          | 109,100                    |
| 44                    | 75.8                 | 153.0                          | 100,000                    |
| 46                    | 75.0                 | 152.5                          | 91,800                     |
| 48                    | 74.2                 | 151.9                          | 84,500                     |
| 50                    | 73.4                 | 151.3                          | 78,000                     |
| 55                    | 71.4                 | 149.6                          | 64,200                     |
| 60                    | 69.4                 | 147.7                          | 53,100                     |
| 65                    | 67.3                 | 145.6                          | 44,000                     |
| 70                    | 65.2                 | 143.4                          | 36,500                     |



**999**

**SERIES 2**

# Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code

Boom No. 82

Luffing Jib No. 149

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

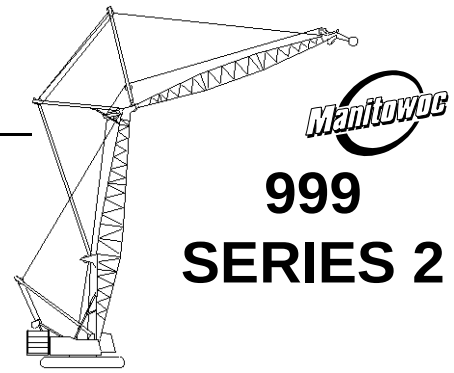
Meets  
ANSI B30.5  
Requirements

## 90 Ft. Luffing Jib, Attached At 150 Degree Boom To Luffing Jib Angle

| 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                    | 82.5                 | 166.5                          | 208,400 *                  |
| 30                    | 81.8                 | 166.2                          | 202,800 *                  |
| 32                    | 81.1                 | 165.9                          | 180,200                    |
| 34                    | 80.4                 | 165.5                          | 161,300                    |
| 36                    | 79.6                 | 165.1                          | 145,300                    |
| 38                    | 78.9                 | 164.7                          | 131,600                    |
| 40                    | 78.2                 | 164.3                          | 119,700                    |
| 42                    | 77.4                 | 163.8                          | 109,300                    |
| 44                    | 76.7                 | 163.3                          | 100,200                    |
| 46                    | 76.0                 | 162.8                          | 92,000                     |
| 48                    | 75.2                 | 162.3                          | 84,700                     |
| 50                    | 74.5                 | 161.7                          | 78,100                     |
| 55                    | 72.6                 | 160.2                          | 64,300                     |
| 60                    | 70.7                 | 158.4                          | 53,200                     |
| 65                    | 68.8                 | 156.5                          | 44,100                     |
| 70                    | 66.8                 | 154.4                          | 36,600                     |

| 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                    | 83.0                 | 176.6                          | 191,300 *                  |
| 30                    | 82.3                 | 176.3                          | 172,100                    |
| 32                    | 81.6                 | 176.0                          | 150,700                    |
| 34                    | 80.9                 | 175.7                          | 132,900                    |
| 36                    | 80.3                 | 175.3                          | 117,900                    |
| 38                    | 79.6                 | 174.9                          | 105,000                    |
| 40                    | 78.9                 | 174.5                          | 93,800                     |
| 42                    | 78.2                 | 174.1                          | 84,000                     |
| 44                    | 77.5                 | 173.6                          | 75,400                     |
| 46                    | 76.8                 | 173.1                          | 67,800                     |
| 48                    | 76.1                 | 172.6                          | 60,900                     |
| 50                    | 75.4                 | 172.1                          | 54,700                     |
| 55                    | 73.7                 | 170.6                          | 41,700                     |
| 60                    | 71.9                 | 169.0                          | 31,300                     |
| 65                    | 70.1                 | 167.2                          | 22,800                     |
| 70                    | 68.3                 | 165.3                          | 15,800                     |
| 75                    | 66.4                 | 163.1                          | 9,800                      |

| 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                    | 82.7                 | 186.4                          | 172,300                    |
| 32                    | 82.1                 | 186.1                          | 150,900                    |
| 34                    | 81.4                 | 185.8                          | 133,100                    |
| 36                    | 80.8                 | 185.5                          | 118,000                    |
| 38                    | 80.2                 | 185.1                          | 105,100                    |
| 40                    | 79.5                 | 184.7                          | 93,900                     |
| 42                    | 78.9                 | 184.3                          | 84,100                     |
| 44                    | 78.2                 | 183.9                          | 75,500                     |
| 46                    | 77.6                 | 183.4                          | 67,800                     |
| 48                    | 76.9                 | 183.0                          | 60,900                     |
| 50                    | 76.2                 | 182.5                          | 54,700                     |
| 55                    | 74.6                 | 181.1                          | 41,700                     |
| 60                    | 72.9                 | 179.6                          | 31,300                     |
| 65                    | 71.2                 | 177.9                          | 22,800                     |
| 70                    | 69.5                 | 176.0                          | 15,700                     |
| 75                    | 67.8                 | 174.0                          | 9,700                      |
| 80                    | 66.1                 | 171.8                          | 4,500                      |



# Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code  
Boom No. 82  
Luffing Jib No. 149  
184,600 Lb. Crane Counterweight  
44,000 Lb. Carbody Counterweight  
360 Degree Rating

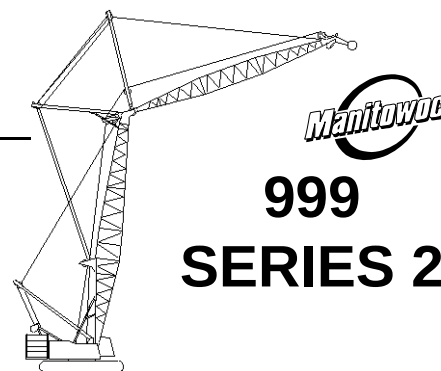
Meets  
ANSI B30.5  
Requirements

## 100 Ft. Luffing Jib, Attached At 160 Degree Boom To Luffing Jib Angle

| Oper. Rad. Feet     | Boom Ang. Deg. | Boom Point Elev. Feet | Boom Capacity Pounds |
|---------------------|----------------|-----------------------|----------------------|
| <b>80 Ft. BOOM</b>  |                |                       |                      |
| 17                  | 83.0           | 87.3                  | 397,500 *            |
| 18                  | 82.3           | 87.1                  | 377,800 *            |
| 19                  | 81.5           | 87.0                  | 357,300 *            |
| 20                  | 80.8           | 86.8                  | 338,700 *            |
| 22                  | 79.3           | 86.4                  | 306,100 *            |
| 24                  | 77.9           | 85.9                  | 278,500 *            |
| 26                  | 76.4           | 85.4                  | 254,900 *            |
| 28                  | 74.9           | 84.8                  | 224,900              |
| 30                  | 73.4           | 84.2                  | 197,200              |
| 32                  | 71.9           | 83.5                  | 174,500              |
| 34                  | 70.4           | 82.7                  | 155,700              |
| 36                  | 68.8           | 81.9                  | 139,700              |
| 38                  | 67.3           | 81.1                  | 126,000              |
| 40                  | 65.7           | 80.1                  | 114,100              |
| <b>90 Ft. BOOM</b>  |                |                       |                      |
| 19                  | 82.5           | 97.1                  | 357,600 *            |
| 20                  | 81.8           | 96.9                  | 339,000 *            |
| 22                  | 80.5           | 96.6                  | 306,400 *            |
| 24                  | 79.2           | 96.2                  | 278,900 *            |
| 26                  | 77.9           | 95.7                  | 255,300 *            |
| 28                  | 76.6           | 95.2                  | 226,900              |
| 30                  | 75.3           | 94.6                  | 199,100              |
| 32                  | 74.0           | 94.0                  | 176,400              |
| 34                  | 72.6           | 93.4                  | 157,400              |
| 36                  | 71.3           | 92.7                  | 141,300              |
| 38                  | 69.9           | 91.9                  | 127,600              |
| 40                  | 68.6           | 91.1                  | 115,700              |
| 42                  | 67.2           | 90.2                  | 105,200              |
| 44                  | 65.8           | 89.3                  | 96,000               |
| <b>100 Ft. BOOM</b> |                |                       |                      |
| 20                  | 82.7           | 107.0                 | 323,200 *            |
| 22                  | 81.5           | 106.7                 | 307,100 *            |
| 24                  | 80.3           | 106.4                 | 279,600 *            |
| 26                  | 79.2           | 105.9                 | 256,000 *            |
| 28                  | 78.0           | 105.5                 | 228,700              |
| 30                  | 76.8           | 105.0                 | 200,800              |
| 32                  | 75.6           | 104.5                 | 178,000              |
| 34                  | 74.4           | 103.9                 | 159,000              |
| 36                  | 73.2           | 103.3                 | 142,900              |
| 38                  | 72.0           | 102.6                 | 129,100              |
| 40                  | 70.8           | 101.9                 | 117,200              |
| 42                  | 69.6           | 101.1                 | 106,700              |
| 44                  | 68.3           | 100.3                 | 97,500               |
| 46                  | 67.1           | 99.4                  | 89,300               |
| 48                  | 65.8           | 98.5                  | 81,900               |

| Oper. Rad. Feet     | Boom Ang. Deg. | Boom Point Elev. Feet | Boom Capacity Pounds |
|---------------------|----------------|-----------------------|----------------------|
| <b>110 Ft. BOOM</b> |                |                       |                      |
| 22                  | 82.3           | 116.9                 | 292,800 *            |
| 24                  | 81.2           | 116.5                 | 279,500 *            |
| 26                  | 80.2           | 116.2                 | 256,000 *            |
| 28                  | 79.1           | 115.7                 | 229,900              |
| 30                  | 78.0           | 115.3                 | 202,000              |
| 32                  | 77.0           | 114.8                 | 179,100              |
| 34                  | 75.9           | 114.3                 | 160,000              |
| 36                  | 74.8           | 113.7                 | 143,800              |
| 38                  | 73.7           | 113.1                 | 130,000              |
| 40                  | 72.6           | 112.5                 | 118,000              |
| 42                  | 71.5           | 111.8                 | 107,500              |
| 44                  | 70.4           | 111.0                 | 98,200               |
| 46                  | 69.3           | 110.3                 | 90,000               |
| 48                  | 68.2           | 109.4                 | 82,600               |
| 50                  | 67.0           | 108.6                 | 76,000               |
| <b>120 Ft. BOOM</b> |                |                       |                      |
| 22                  | 82.9           | 127.0                 | 284,100 *            |
| 24                  | 82.0           | 126.7                 | 278,000 *            |
| 26                  | 81.0           | 126.3                 | 256,300 *            |
| 28                  | 80.0           | 125.9                 | 231,100              |
| 30                  | 79.1           | 125.5                 | 203,000              |
| 32                  | 78.1           | 125.1                 | 180,100              |
| 34                  | 77.1           | 124.6                 | 161,000              |
| 36                  | 76.1           | 124.1                 | 144,800              |
| 38                  | 75.1           | 123.5                 | 130,900              |
| 40                  | 74.1           | 123.0                 | 118,900              |
| 42                  | 73.1           | 122.3                 | 108,400              |
| 44                  | 72.1           | 121.7                 | 99,100               |
| 46                  | 71.1           | 121.0                 | 90,800               |
| 48                  | 70.1           | 120.2                 | 83,500               |
| 50                  | 69.1           | 119.4                 | 76,800               |
| 55                  | 66.5           | 117.3                 | 62,800               |
| <b>130 Ft. BOOM</b> |                |                       |                      |
| 24                  | 82.6           | 136.8                 | 260,200 *            |
| 26                  | 81.7           | 136.5                 | 252,500 *            |
| 28                  | 80.8           | 136.1                 | 232,000              |
| 30                  | 79.9           | 135.7                 | 203,900              |
| 32                  | 79.0           | 135.3                 | 180,900              |
| 34                  | 78.1           | 134.9                 | 161,800              |
| 36                  | 77.2           | 134.4                 | 145,500              |
| 38                  | 76.3           | 133.9                 | 131,600              |
| 40                  | 75.4           | 133.4                 | 119,600              |

| Oper. Rad. Feet     | Boom Ang. Deg. | Boom Point Elev. Feet | Boom Capacity Pounds |
|---------------------|----------------|-----------------------|----------------------|
| <b>130 Ft. BOOM</b> |                |                       |                      |
| 42                  | 74.5           | 132.8                 | 109,000              |
| 44                  | 73.5           | 132.2                 | 99,700               |
| 46                  | 72.6           | 131.5                 | 91,500               |
| 48                  | 71.7           | 130.9                 | 84,100               |
| 50                  | 70.7           | 130.1                 | 77,400               |
| 55                  | 68.4           | 128.2                 | 63,400               |
| 60                  | 66.0           | 126.0                 | 52,100               |
| <b>140 Ft. BOOM</b> |                |                       |                      |
| 26                  | 82.3           | 146.6                 | 245,600 *            |
| 28                  | 81.5           | 146.3                 | 232,900              |
| 30                  | 80.6           | 145.9                 | 204,700              |
| 32                  | 79.8           | 145.5                 | 181,700              |
| 34                  | 79.0           | 145.1                 | 162,500              |
| 36                  | 78.1           | 144.7                 | 146,200              |
| 38                  | 77.3           | 144.2                 | 132,300              |
| 40                  | 76.4           | 143.7                 | 120,200              |
| 42                  | 75.6           | 143.2                 | 109,600              |
| 44                  | 74.7           | 142.6                 | 100,300              |
| 46                  | 73.9           | 142.0                 | 92,000               |
| 48                  | 73.0           | 141.4                 | 84,600               |
| 50                  | 72.2           | 140.7                 | 77,900               |
| 55                  | 70.0           | 138.9                 | 63,900               |
| 60                  | 67.8           | 136.9                 | 52,600               |
| 65                  | 65.5           | 134.7                 | 43,400               |
| <b>150 Ft. BOOM</b> |                |                       |                      |
| 26                  | 82.8           | 156.7                 | 219,300 *            |
| 28                  | 82.0           | 156.4                 | 213,400 *            |
| 30                  | 81.3           | 156.1                 | 205,300              |
| 32                  | 80.5           | 155.7                 | 182,200              |
| 34                  | 79.7           | 155.3                 | 162,900              |
| 36                  | 78.9           | 154.9                 | 146,600              |
| 38                  | 78.2           | 154.5                 | 132,600              |
| 40                  | 77.4           | 154.0                 | 120,500              |
| 42                  | 76.6           | 153.5                 | 109,900              |
| 44                  | 75.8           | 153.0                 | 100,500              |
| 46                  | 75.0           | 152.5                 | 92,200               |
| 48                  | 74.2           | 151.9                 | 84,800               |
| 50                  | 73.4           | 151.3                 | 78,100               |
| 55                  | 71.4           | 149.6                 | 64,000               |
| 60                  | 69.4           | 147.7                 | 52,700               |
| 65                  | 67.3           | 145.6                 | 43,400               |
| 70                  | 65.2           | 143.4                 | 35,700               |



**999**

**SERIES 2**

# Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code

Boom No. 82

Luffing Jib No. 149

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

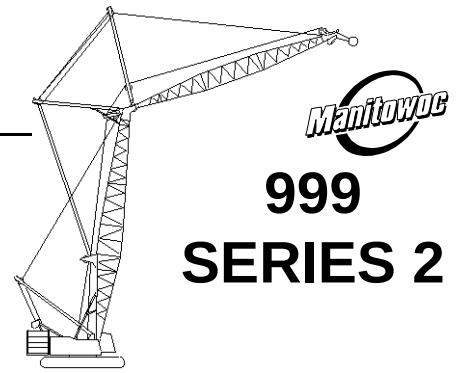
Meets  
ANSI B30.5  
Requirements

## 100 Ft. Luffing Jib, Attached At 160 Degree Boom To Luffing Jib Angle

| 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                    | 82.5                 | 166.5                          | 202,100                    |
| 30                    | 81.8                 | 166.2                          | 175,300                    |
| 32                    | 81.1                 | 165.9                          | 153,400                    |
| 34                    | 80.4                 | 165.5                          | 135,200                    |
| 36                    | 79.6                 | 165.1                          | 119,700                    |
| 38                    | 78.9                 | 164.7                          | 106,500                    |
| 40                    | 78.2                 | 164.3                          | 95,100                     |
| 42                    | 77.4                 | 163.8                          | 85,000                     |
| 44                    | 76.7                 | 163.3                          | 76,200                     |
| 46                    | 76.0                 | 162.8                          | 68,300                     |
| 48                    | 75.2                 | 162.3                          | 61,300                     |
| 50                    | 74.5                 | 161.7                          | 55,000                     |
| 55                    | 72.6                 | 160.2                          | 41,600                     |
| 60                    | 70.7                 | 158.4                          | 30,900                     |
| 65                    | 68.8                 | 156.5                          | 22,200                     |
| 70                    | 66.8                 | 154.4                          | 14,900                     |

| 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                    | 83.0                 | 176.6                          | 189,100 *                  |
| 30                    | 82.3                 | 176.3                          | 175,700                    |
| 32                    | 81.6                 | 176.0                          | 153,800                    |
| 34                    | 80.9                 | 175.7                          | 135,500                    |
| 36                    | 80.3                 | 175.3                          | 120,000                    |
| 38                    | 79.6                 | 174.9                          | 106,800                    |
| 40                    | 78.9                 | 174.5                          | 95,300                     |
| 42                    | 78.2                 | 174.1                          | 85,300                     |
| 44                    | 77.5                 | 173.6                          | 76,400                     |
| 46                    | 76.8                 | 173.1                          | 68,500                     |
| 48                    | 76.1                 | 172.6                          | 61,500                     |
| 50                    | 75.4                 | 172.1                          | 55,100                     |
| 55                    | 73.7                 | 170.6                          | 41,700                     |
| 60                    | 71.9                 | 169.0                          | 31,000                     |
| 65                    | 70.1                 | 167.2                          | 22,300                     |
| 70                    | 68.3                 | 165.3                          | 15,000                     |
| 75                    | 66.4                 | 163.1                          | 8,800                      |

| 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                    | 82.7                 | 186.4                          | 176,100                    |
| 32                    | 82.1                 | 186.1                          | 154,100                    |
| 34                    | 81.4                 | 185.8                          | 135,800                    |
| 36                    | 80.8                 | 185.5                          | 120,300                    |
| 38                    | 80.2                 | 185.1                          | 107,000                    |
| 40                    | 79.5                 | 184.7                          | 95,500                     |
| 42                    | 78.9                 | 184.3                          | 85,400                     |
| 44                    | 78.2                 | 183.9                          | 76,500                     |
| 46                    | 77.6                 | 183.4                          | 68,600                     |
| 48                    | 76.9                 | 183.0                          | 61,600                     |
| 50                    | 76.2                 | 182.5                          | 55,200                     |
| 55                    | 74.6                 | 181.1                          | 41,800                     |
| 60                    | 72.9                 | 179.6                          | 31,100                     |
| 65                    | 71.2                 | 177.9                          | 22,300                     |
| 70                    | 69.5                 | 176.0                          | 15,000                     |
| 75                    | 67.8                 | 174.0                          | 8,800                      |



# Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code  
Boom No. 82  
Luffing Jib No. 149  
184,600 Lb. Crane Counterweight  
44,000 Lb. Carbody Counterweight  
360 Degree Rating

Meets  
ANSI B30.5  
Requirements

## 110 Ft. Luffing Jib, Attached At 160 Degree Boom To Luffing Jib Angle

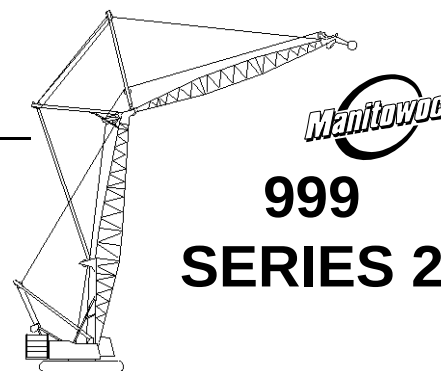
| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>80 Ft. BOOM</b>    |                      |                                |                            |
| 17                    | 83.0                 | 87.3                           | 394,000 *                  |
| 18                    | 82.3                 | 87.1                           | 374,900 *                  |
| 19                    | 81.5                 | 87.0                           | 354,500 *                  |
| 20                    | 80.8                 | 86.8                           | 335,900 *                  |
| 22                    | 79.3                 | 86.4                           | 303,400 *                  |
| 24                    | 77.9                 | 85.9                           | 275,900 *                  |
| 26                    | 76.4                 | 85.4                           | 252,300 *                  |
| 28                    | 74.9                 | 84.8                           | 221,000                    |
| 30                    | 73.4                 | 84.2                           | 193,600                    |
| 32                    | 71.9                 | 83.5                           | 171,100                    |
| 34                    | 70.4                 | 82.7                           | 152,400                    |
| 36                    | 68.8                 | 81.9                           | 136,500                    |
| 38                    | 67.3                 | 81.1                           | 122,900                    |
| 40                    | 65.7                 | 80.1                           | 111,200                    |
| <b>90 Ft. BOOM</b>    |                      |                                |                            |
| 19                    | 82.5                 | 97.1                           | 354,800 *                  |
| 20                    | 81.8                 | 96.9                           | 336,200 *                  |
| 22                    | 80.5                 | 96.6                           | 303,800 *                  |
| 24                    | 79.2                 | 96.2                           | 276,400 *                  |
| 26                    | 77.9                 | 95.7                           | 252,800 *                  |
| 28                    | 76.6                 | 95.2                           | 223,200                    |
| 30                    | 75.3                 | 94.6                           | 195,600                    |
| 32                    | 74.0                 | 94.0                           | 173,000                    |
| 34                    | 72.6                 | 93.4                           | 154,200                    |
| 36                    | 71.3                 | 92.7                           | 138,300                    |
| 38                    | 69.9                 | 91.9                           | 124,700                    |
| 40                    | 68.6                 | 91.1                           | 112,900                    |
| 42                    | 67.2                 | 90.2                           | 102,500                    |
| 44                    | 65.8                 | 89.3                           | 93,400                     |
| <b>100 Ft. BOOM</b>   |                      |                                |                            |
| 20                    | 82.7                 | 107.0                          | 320,100 *                  |
| 22                    | 81.5                 | 106.7                          | 304,500 *                  |
| 24                    | 80.3                 | 106.4                          | 277,100 *                  |
| 26                    | 79.2                 | 105.9                          | 253,600 *                  |
| 28                    | 78.0                 | 105.5                          | 225,100                    |
| 30                    | 76.8                 | 105.0                          | 197,400                    |
| 32                    | 75.6                 | 104.5                          | 174,800                    |
| 34                    | 74.4                 | 103.9                          | 155,900                    |
| 36                    | 73.2                 | 103.3                          | 140,000                    |
| 38                    | 72.0                 | 102.6                          | 126,300                    |
| 40                    | 70.8                 | 101.9                          | 114,500                    |
| 42                    | 69.6                 | 101.1                          | 104,100                    |
| 44                    | 68.3                 | 100.3                          | 94,900                     |
| 46                    | 67.1                 | 99.4                           | 86,800                     |
| 48                    | 65.8                 | 98.5                           | 79,500                     |

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>110 Ft. BOOM</b>   |                      |                                |                            |
| 22                    | 82.3                 | 116.9                          | 289,900 *                  |
| 24                    | 81.2                 | 116.5                          | 277,100 *                  |
| 26                    | 80.2                 | 116.2                          | 253,600 *                  |
| 28                    | 79.1                 | 115.7                          | 226,400                    |
| 30                    | 78.0                 | 115.3                          | 198,700                    |
| 32                    | 77.0                 | 114.8                          | 176,000                    |
| 34                    | 75.9                 | 114.3                          | 157,000                    |
| 36                    | 74.8                 | 113.7                          | 141,000                    |
| 38                    | 73.7                 | 113.1                          | 127,300                    |
| 40                    | 72.6                 | 112.5                          | 115,400                    |
| 42                    | 71.5                 | 111.8                          | 105,000                    |
| 44                    | 70.4                 | 111.0                          | 95,800                     |
| 46                    | 69.3                 | 110.3                          | 87,600                     |
| 48                    | 68.2                 | 109.4                          | 80,300                     |
| 50                    | 67.0                 | 108.6                          | 73,800                     |
| <b>120 Ft. BOOM</b>   |                      |                                |                            |
| 22                    | 82.9                 | 127.0                          | 281,500 *                  |
| 24                    | 82.0                 | 126.7                          | 275,400 *                  |
| 26                    | 81.0                 | 126.3                          | 254,100 *                  |
| 28                    | 80.0                 | 125.9                          | 227,700                    |
| 30                    | 79.1                 | 125.5                          | 199,800                    |
| 32                    | 78.1                 | 125.1                          | 177,100                    |
| 34                    | 77.1                 | 124.6                          | 158,100                    |
| 36                    | 76.1                 | 124.1                          | 142,100                    |
| 38                    | 75.1                 | 123.5                          | 128,300                    |
| 40                    | 74.1                 | 123.0                          | 116,400                    |
| 42                    | 73.1                 | 122.3                          | 105,900                    |
| 44                    | 72.1                 | 121.7                          | 96,700                     |
| 46                    | 71.1                 | 121.0                          | 88,600                     |
| 48                    | 70.1                 | 120.2                          | 81,200                     |
| 50                    | 69.1                 | 119.4                          | 74,600                     |
| 55                    | 66.5                 | 117.3                          | 60,700                     |
| <b>130 Ft. BOOM</b>   |                      |                                |                            |
| 24                    | 82.6                 | 136.8                          | 258,600 *                  |
| 26                    | 81.7                 | 136.5                          | 250,800 *                  |
| 28                    | 80.8                 | 136.1                          | 228,700                    |
| 30                    | 79.9                 | 135.7                          | 200,800                    |
| 32                    | 79.0                 | 135.3                          | 178,000                    |
| 34                    | 78.1                 | 134.9                          | 159,000                    |
| 36                    | 77.2                 | 134.4                          | 142,900                    |
| 38                    | 76.3                 | 133.9                          | 129,100                    |
| 40                    | 75.4                 | 133.4                          | 117,100                    |

| 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>   |                      |                                |                            |
| 42                    | 74.5                 | 132.8                          | 106,700                    |
| 44                    | 73.5                 | 132.2                          | 97,500                     |
| 46                    | 72.6                 | 131.5                          | 89,300                     |
| 48                    | 71.7                 | 130.9                          | 81,900                     |
| 50                    | 70.7                 | 130.1                          | 75,300                     |
| 55                    | 68.4                 | 128.2                          | 61,400                     |
| 60                    | 66.0                 | 126.0                          | 50,200                     |
| <b>140 Ft. BOOM</b>   |                      |                                |                            |
| 26                    | 82.3                 | 146.6                          | 243,800 *                  |
| 28                    | 81.5                 | 146.3                          | 229,600                    |
| 30                    | 80.6                 | 145.9                          | 201,700                    |
| 32                    | 79.8                 | 145.5                          | 178,800                    |
| 34                    | 79.0                 | 145.1                          | 159,700                    |
| 36                    | 78.1                 | 144.7                          | 143,600                    |
| 38                    | 77.3                 | 144.2                          | 129,800                    |
| 40                    | 76.4                 | 143.7                          | 117,800                    |
| 42                    | 75.6                 | 143.2                          | 107,300                    |
| 44                    | 74.7                 | 142.6                          | 98,100                     |
| 46                    | 73.9                 | 142.0                          | 89,900                     |
| 48                    | 73.0                 | 141.4                          | 82,500                     |
| 50                    | 72.2                 | 140.7                          | 75,900                     |
| 55                    | 70.0                 | 138.9                          | 61,900                     |
| 60                    | 67.8                 | 136.9                          | 50,700                     |
| 65                    | 65.5                 | 134.7                          | 41,600                     |
| <b>150 Ft. BOOM</b>   |                      |                                |                            |
| 26                    | 82.8                 | 156.7                          | 217,600 *                  |
| 28                    | 82.0                 | 156.4                          | 197,500                    |
| 30                    | 81.3                 | 156.1                          | 171,000                    |
| 32                    | 80.5                 | 155.7                          | 149,400                    |
| 34                    | 79.7                 | 155.3                          | 131,300                    |
| 36                    | 78.9                 | 154.9                          | 116,100                    |
| 38                    | 78.2                 | 154.5                          | 103,000                    |
| 40                    | 77.4                 | 154.0                          | 91,700                     |
| 42                    | 76.6                 | 153.5                          | 81,800                     |
| 44                    | 75.8                 | 153.0                          | 73,100                     |
| 46                    | 75.0                 | 152.5                          | 65,300                     |
| 48                    | 74.2                 | 151.9                          | 58,300                     |
| 50                    | 73.4                 | 151.3                          | 52,100                     |
| 55                    | 71.4                 | 149.6                          | 38,900                     |
| 60                    | 69.4                 | 147.7                          | 28,400                     |
| 65                    | 67.3                 | 145.6                          | 19,700                     |
| 70                    | 65.2                 | 143.4                          | 12,500                     |

# Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.



**999**

**SERIES 2**

## Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code

Boom No. 82

Luffing Jib No. 149

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

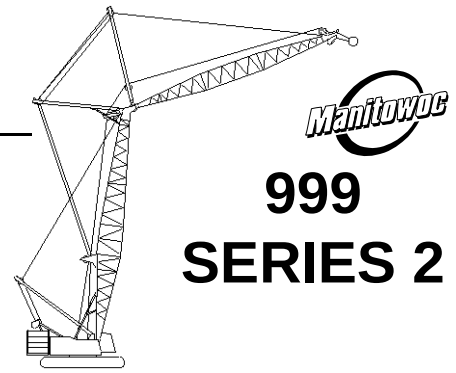
Meets  
ANSI B30.5  
Requirements

### 110 Ft. Luffing Jib, Attached At 160 Degree Boom To Luffing Jib Angle

| 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                    | 82.5                 | 166.5                          | 198,100                    |
| 30                    | 81.8                 | 166.2                          | 171,600                    |
| 32                    | 81.1                 | 165.9                          | 149,900                    |
| 34                    | 80.4                 | 165.5                          | 131,800                    |
| 36                    | 79.6                 | 165.1                          | 116,500                    |
| 38                    | 78.9                 | 164.7                          | 103,400                    |
| 40                    | 78.2                 | 164.3                          | 92,100                     |
| 42                    | 77.4                 | 163.8                          | 82,200                     |
| 44                    | 76.7                 | 163.3                          | 73,400                     |
| 46                    | 76.0                 | 162.8                          | 65,600                     |
| 48                    | 75.2                 | 162.3                          | 58,700                     |
| 50                    | 74.5                 | 161.7                          | 52,400                     |
| 55                    | 72.6                 | 160.2                          | 39,200                     |
| 60                    | 70.7                 | 158.4                          | 28,600                     |
| 65                    | 68.8                 | 156.5                          | 20,000                     |
| 70                    | 66.8                 | 154.4                          | 12,800                     |

| 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                    | 83.0                 | 176.6                          | 187,400 *                  |
| 30                    | 82.3                 | 176.3                          | 172,000                    |
| 32                    | 81.6                 | 176.0                          | 150,300                    |
| 34                    | 80.9                 | 175.7                          | 132,200                    |
| 36                    | 80.3                 | 175.3                          | 116,900                    |
| 38                    | 79.6                 | 174.9                          | 103,800                    |
| 40                    | 78.9                 | 174.5                          | 92,400                     |
| 42                    | 78.2                 | 174.1                          | 82,400                     |
| 44                    | 77.5                 | 173.6                          | 73,700                     |
| 46                    | 76.8                 | 173.1                          | 65,900                     |
| 48                    | 76.1                 | 172.6                          | 58,900                     |
| 50                    | 75.4                 | 172.1                          | 52,600                     |
| 55                    | 73.7                 | 170.6                          | 39,400                     |
| 60                    | 71.9                 | 169.0                          | 28,800                     |
| 65                    | 70.1                 | 167.2                          | 20,100                     |
| 70                    | 68.3                 | 165.3                          | 12,900                     |
| 75                    | 66.4                 | 163.1                          | 6,800                      |

| 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                    | 82.7                 | 186.4                          | 172,400                    |
| 32                    | 82.1                 | 186.1                          | 150,600                    |
| 34                    | 81.4                 | 185.8                          | 132,500                    |
| 36                    | 80.8                 | 185.5                          | 117,200                    |
| 38                    | 80.2                 | 185.1                          | 104,000                    |
| 40                    | 79.5                 | 184.7                          | 92,600                     |
| 42                    | 78.9                 | 184.3                          | 82,700                     |
| 44                    | 78.2                 | 183.9                          | 73,900                     |
| 46                    | 77.6                 | 183.4                          | 66,000                     |
| 48                    | 76.9                 | 183.0                          | 59,100                     |
| 50                    | 76.2                 | 182.5                          | 52,800                     |
| 55                    | 74.6                 | 181.1                          | 39,500                     |
| 60                    | 72.9                 | 179.6                          | 28,900                     |
| 65                    | 71.2                 | 177.9                          | 20,200                     |
| 70                    | 69.5                 | 176.0                          | 13,000                     |
| 75                    | 67.8                 | 174.0                          | 6,800                      |



# Liftcrane Boom Capacities With Luffing Jib Attached

**999  
SERIES 2**

New York City Code  
Boom No. 82  
Luffing Jib No. 149  
184,600 Lb. Crane Counterweight  
44,000 Lb. Carbody Counterweight  
360 Degree Rating

Meets  
ANSI B30.5  
Requirements

## 120 Ft. Luffing Jib, Attached At 160 Degree Boom To Luffing Jib Angle

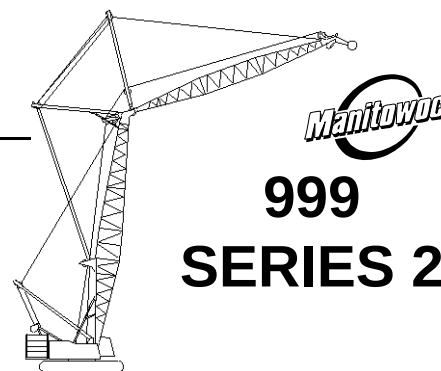
| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>80 Ft. BOOM</b>    |                      |                                |                            |
| 17                    | 83.0                 | 87.3                           | 388,500 *                  |
| 18                    | 82.3                 | 87.1                           | 369,900 *                  |
| 19                    | 81.5                 | 87.0                           | 349,600 *                  |
| 20                    | 80.8                 | 86.8                           | 331,100 *                  |
| 22                    | 79.3                 | 86.4                           | 298,800 *                  |
| 24                    | 77.9                 | 85.9                           | 271,400 *                  |
| 26                    | 76.4                 | 85.4                           | 248,000 *                  |
| 28                    | 74.9                 | 84.8                           | 214,600                    |
| 30                    | 73.4                 | 84.2                           | 187,500                    |
| 32                    | 71.9                 | 83.5                           | 165,300                    |
| 34                    | 70.4                 | 82.7                           | 146,800                    |
| 36                    | 68.8                 | 81.9                           | 131,200                    |
| 38                    | 67.3                 | 81.1                           | 117,800                    |
| 40                    | 65.7                 | 80.1                           | 106,200                    |
| <b>90 Ft. BOOM</b>    |                      |                                |                            |
| 19                    | 82.5                 | 97.1                           | 350,100 *                  |
| 20                    | 81.8                 | 96.9                           | 331,600 *                  |
| 22                    | 80.5                 | 96.6                           | 299,300 *                  |
| 24                    | 79.2                 | 96.2                           | 272,000 *                  |
| 26                    | 77.9                 | 95.7                           | 248,600 *                  |
| 28                    | 76.6                 | 95.2                           | 217,000                    |
| 30                    | 75.3                 | 94.6                           | 189,800                    |
| 32                    | 74.0                 | 94.0                           | 167,500                    |
| 34                    | 72.6                 | 93.4                           | 148,900                    |
| 36                    | 71.3                 | 92.7                           | 133,200                    |
| 38                    | 69.9                 | 91.9                           | 119,700                    |
| 40                    | 68.6                 | 91.1                           | 108,100                    |
| 42                    | 67.2                 | 90.2                           | 97,900                     |
| 44                    | 65.8                 | 89.3                           | 88,900                     |
| <b>100 Ft. BOOM</b>   |                      |                                |                            |
| 20                    | 82.7                 | 107.0                          | 315,200 *                  |
| 22                    | 81.5                 | 106.7                          | 300,200 *                  |
| 24                    | 80.3                 | 106.4                          | 272,900 *                  |
| 26                    | 79.2                 | 105.9                          | 249,500 *                  |
| 28                    | 78.0                 | 105.5                          | 219,100                    |
| 30                    | 76.8                 | 105.0                          | 191,800                    |
| 32                    | 75.6                 | 104.5                          | 169,400                    |
| 34                    | 74.4                 | 103.9                          | 150,800                    |
| 36                    | 73.2                 | 103.3                          | 135,100                    |
| 38                    | 72.0                 | 102.6                          | 121,500                    |
| 40                    | 70.8                 | 101.9                          | 109,800                    |
| 42                    | 69.6                 | 101.1                          | 99,600                     |
| 44                    | 68.3                 | 100.3                          | 90,600                     |
| 46                    | 67.1                 | 99.4                           | 82,600                     |
| 48                    | 65.8                 | 98.5                           | 75,400                     |

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>110 Ft. BOOM</b>   |                      |                                |                            |
| 22                    | 82.3                 | 116.9                          | 285,300 *                  |
| 24                    | 81.2                 | 116.5                          | 273,000 *                  |
| 26                    | 80.2                 | 116.2                          | 249,600 *                  |
| 28                    | 79.1                 | 115.7                          | 220,600                    |
| 30                    | 78.0                 | 115.3                          | 193,200                    |
| 32                    | 77.0                 | 114.8                          | 170,700                    |
| 34                    | 75.9                 | 114.3                          | 152,000                    |
| 36                    | 74.8                 | 113.7                          | 136,200                    |
| 38                    | 73.7                 | 113.1                          | 122,700                    |
| 40                    | 72.6                 | 112.5                          | 110,900                    |
| 42                    | 71.5                 | 111.8                          | 100,600                    |
| 44                    | 70.4                 | 111.0                          | 91,600                     |
| 46                    | 69.3                 | 110.3                          | 83,500                     |
| 48                    | 68.2                 | 109.4                          | 76,300                     |
| 50                    | 67.0                 | 108.6                          | 69,800                     |
| <b>120 Ft. BOOM</b>   |                      |                                |                            |
| 22                    | 82.9                 | 127.0                          | 277,300 *                  |
| 24                    | 82.0                 | 126.7                          | 271,200 *                  |
| 26                    | 81.0                 | 126.3                          | 250,100 *                  |
| 28                    | 80.0                 | 125.9                          | 222,000                    |
| 30                    | 79.1                 | 125.5                          | 194,500                    |
| 32                    | 78.1                 | 125.1                          | 172,000                    |
| 34                    | 77.1                 | 124.6                          | 153,200                    |
| 36                    | 76.1                 | 124.1                          | 137,400                    |
| 38                    | 75.1                 | 123.5                          | 123,800                    |
| 40                    | 74.1                 | 123.0                          | 112,000                    |
| 42                    | 73.1                 | 122.3                          | 101,700                    |
| 44                    | 72.1                 | 121.7                          | 92,600                     |
| 46                    | 71.1                 | 121.0                          | 84,600                     |
| 48                    | 70.1                 | 120.2                          | 77,300                     |
| 50                    | 69.1                 | 119.4                          | 70,800                     |
| 55                    | 66.5                 | 117.3                          | 57,100                     |
| <b>130 Ft. BOOM</b>   |                      |                                |                            |
| 24                    | 82.6                 | 136.8                          | 254,900 *                  |
| 26                    | 81.7                 | 136.5                          | 248,000 *                  |
| 28                    | 80.8                 | 136.1                          | 223,100                    |
| 30                    | 79.9                 | 135.7                          | 195,600                    |
| 32                    | 79.0                 | 135.3                          | 173,000                    |
| 34                    | 78.1                 | 134.9                          | 154,200                    |
| 36                    | 77.2                 | 134.4                          | 138,300                    |
| 38                    | 76.3                 | 133.9                          | 124,700                    |
| 40                    | 75.4                 | 133.4                          | 112,900                    |

| 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>   |                      |                                |                            |
| 42                    | 74.5                 | 132.8                          | 102,600                    |
| 44                    | 73.5                 | 132.2                          | 93,500                     |
| 46                    | 72.6                 | 131.5                          | 85,400                     |
| 48                    | 71.7                 | 130.9                          | 78,100                     |
| 50                    | 70.7                 | 130.1                          | 71,600                     |
| 55                    | 68.4                 | 128.2                          | 57,800                     |
| 60                    | 66.0                 | 126.0                          | 46,800                     |
| <b>140 Ft. BOOM</b>   |                      |                                |                            |
| 26                    | 82.3                 | 146.6                          | 222,400                    |
| 28                    | 81.5                 | 146.3                          | 189,900                    |
| 30                    | 80.6                 | 145.9                          | 163,900                    |
| 32                    | 79.8                 | 145.5                          | 142,700                    |
| 34                    | 79.0                 | 145.1                          | 125,000                    |
| 36                    | 78.1                 | 144.7                          | 110,000                    |
| 38                    | 77.3                 | 144.2                          | 97,200                     |
| 40                    | 76.4                 | 143.7                          | 86,100                     |
| 42                    | 75.6                 | 143.2                          | 76,300                     |
| 44                    | 74.7                 | 142.6                          | 67,800                     |
| 46                    | 73.9                 | 142.0                          | 60,200                     |
| 48                    | 73.0                 | 141.4                          | 53,300                     |
| 50                    | 72.2                 | 140.7                          | 47,200                     |
| 55                    | 70.0                 | 138.9                          | 34,300                     |
| 60                    | 67.8                 | 136.9                          | 24,000                     |
| 65                    | 65.5                 | 134.7                          | 15,500                     |
| <b>150 Ft. BOOM</b>   |                      |                                |                            |
| 26                    | 82.8                 | 156.7                          | 214,900 *                  |
| 28                    | 82.0                 | 156.4                          | 190,600                    |
| 30                    | 81.3                 | 156.1                          | 164,600                    |
| 32                    | 80.5                 | 155.7                          | 143,200                    |
| 34                    | 79.7                 | 155.3                          | 125,500                    |
| 36                    | 78.9                 | 154.9                          | 110,400                    |
| 38                    | 78.2                 | 154.5                          | 97,600                     |
| 40                    | 77.4                 | 154.0                          | 86,400                     |
| 42                    | 76.6                 | 153.5                          | 76,700                     |
| 44                    | 75.8                 | 153.0                          | 68,100                     |
| 46                    | 75.0                 | 152.5                          | 60,400                     |
| 48                    | 74.2                 | 151.9                          | 53,600                     |
| 50                    | 73.4                 | 151.3                          | 47,400                     |
| 55                    | 71.4                 | 149.6                          | 34,500                     |
| 60                    | 69.4                 | 147.7                          | 24,100                     |
| 65                    | 67.3                 | 145.6                          | 15,600                     |
| 70                    | 65.2                 | 143.4                          | 8,500                      |

# Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.



**999**

**SERIES 2**

## Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code

Boom No. 82

Luffing Jib No. 149

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

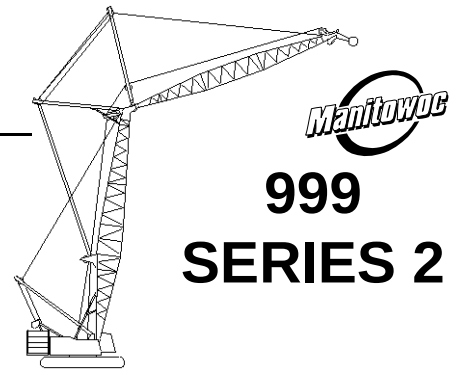
Meets  
ANSI B30.5  
Requirements

### 120 Ft. Luffing Jib, Attached At 160 Degree Boom To Luffing Jib Angle

| 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                    | 82.5                 | 166.5                          | 191,300                    |
| 30                    | 81.8                 | 166.2                          | 165,200                    |
| 32                    | 81.1                 | 165.9                          | 143,800                    |
| 34                    | 80.4                 | 165.5                          | 126,000                    |
| 36                    | 79.6                 | 165.1                          | 111,000                    |
| 38                    | 78.9                 | 164.7                          | 98,100                     |
| 40                    | 78.2                 | 164.3                          | 86,900                     |
| 42                    | 77.4                 | 163.8                          | 77,200                     |
| 44                    | 76.7                 | 163.3                          | 68,500                     |
| 46                    | 76.0                 | 162.8                          | 60,900                     |
| 48                    | 75.2                 | 162.3                          | 54,000                     |
| 50                    | 74.5                 | 161.7                          | 47,900                     |
| 55                    | 72.6                 | 160.2                          | 34,800                     |
| 60                    | 70.7                 | 158.4                          | 24,500                     |
| 65                    | 68.8                 | 156.5                          | 15,900                     |
| 70                    | 66.8                 | 154.4                          | 8,900                      |

| 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                    | 83.0                 | 176.6                          | 184,700 *                  |
| 30                    | 82.3                 | 176.3                          | 165,800                    |
| 32                    | 81.6                 | 176.0                          | 144,300                    |
| 34                    | 80.9                 | 175.7                          | 126,500                    |
| 36                    | 80.3                 | 175.3                          | 111,400                    |
| 38                    | 79.6                 | 174.9                          | 98,500                     |
| 40                    | 78.9                 | 174.5                          | 87,300                     |
| 42                    | 78.2                 | 174.1                          | 77,500                     |
| 44                    | 77.5                 | 173.6                          | 68,900                     |
| 46                    | 76.8                 | 173.1                          | 61,200                     |
| 48                    | 76.1                 | 172.6                          | 54,300                     |
| 50                    | 75.4                 | 172.1                          | 48,100                     |
| 55                    | 73.7                 | 170.6                          | 35,100                     |
| 60                    | 71.9                 | 169.0                          | 24,700                     |
| 65                    | 70.1                 | 167.2                          | 16,100                     |
| 70                    | 68.3                 | 165.3                          | 9,000                      |

| 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                    | 82.7                 | 186.4                          | 166,200                    |
| 32                    | 82.1                 | 186.1                          | 144,800                    |
| 34                    | 81.4                 | 185.8                          | 126,900                    |
| 36                    | 80.8                 | 185.5                          | 111,800                    |
| 38                    | 80.2                 | 185.1                          | 98,800                     |
| 40                    | 79.5                 | 184.7                          | 87,600                     |
| 42                    | 78.9                 | 184.3                          | 77,800                     |
| 44                    | 78.2                 | 183.9                          | 69,100                     |
| 46                    | 77.6                 | 183.4                          | 61,400                     |
| 48                    | 76.9                 | 183.0                          | 54,500                     |
| 50                    | 76.2                 | 182.5                          | 48,300                     |
| 55                    | 74.6                 | 181.1                          | 35,300                     |
| 60                    | 72.9                 | 179.6                          | 24,800                     |
| 65                    | 71.2                 | 177.9                          | 16,300                     |
| 70                    | 69.5                 | 176.0                          | 9,200                      |



# Liftcrane Boom Capacities With Luffing Jib Attached

**999  
SERIES 2**

New York City Code  
Boom No. 82  
Luffing Jib No. 149  
184,600 Lb. Crane Counterweight  
44,000 Lb. Carbody Counterweight  
360 Degree Rating

Meets  
ANSI B30.5  
Requirements

## 130 Ft. Luffing Jib, Attached At 168 Degree Boom To Luffing Jib Angle

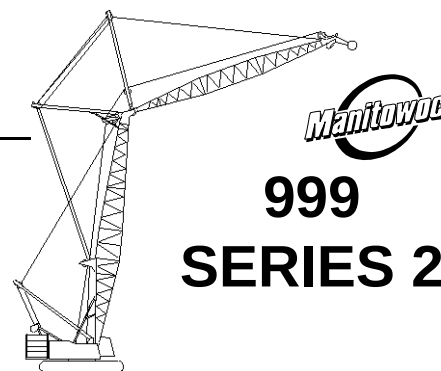
| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>80 Ft. BOOM</b>    |                      |                                |                            |
| 17                    | 83.0                 | 87.3                           | 385,200 *                  |
| 18                    | 82.3                 | 87.1                           | 375,800 *                  |
| 19                    | 81.5                 | 87.0                           | 355,000 *                  |
| 20                    | 80.8                 | 86.8                           | 336,100 *                  |
| 22                    | 79.3                 | 86.4                           | 303,100 *                  |
| 24                    | 77.9                 | 85.9                           | 275,100 *                  |
| 26                    | 76.4                 | 85.4                           | 251,100 *                  |
| 28                    | 74.9                 | 84.8                           | 219,500                    |
| 30                    | 73.4                 | 84.2                           | 191,500                    |
| 32                    | 71.9                 | 83.5                           | 168,600                    |
| 34                    | 70.4                 | 82.7                           | 149,500                    |
| 36                    | 68.8                 | 81.9                           | 133,400                    |
| 38                    | 67.3                 | 81.1                           | 119,500                    |
| 40                    | 65.7                 | 80.1                           | 107,500                    |
| <b>90 Ft. BOOM</b>    |                      |                                |                            |
| 19                    | 82.5                 | 97.1                           | 355,700 *                  |
| 20                    | 81.8                 | 96.9                           | 336,800 *                  |
| 22                    | 80.5                 | 96.6                           | 303,800 *                  |
| 24                    | 79.2                 | 96.2                           | 275,900 *                  |
| 26                    | 77.9                 | 95.7                           | 252,000 *                  |
| 28                    | 76.6                 | 95.2                           | 222,300                    |
| 30                    | 75.3                 | 94.6                           | 194,200                    |
| 32                    | 74.0                 | 94.0                           | 171,200                    |
| 34                    | 72.6                 | 93.4                           | 152,000                    |
| 36                    | 71.3                 | 92.7                           | 135,800                    |
| 38                    | 69.9                 | 91.9                           | 121,900                    |
| 40                    | 68.6                 | 91.1                           | 109,900                    |
| 42                    | 67.2                 | 90.2                           | 99,300                     |
| 44                    | 65.8                 | 89.3                           | 90,000                     |
| <b>100 Ft. BOOM</b>   |                      |                                |                            |
| 20                    | 82.7                 | 107.0                          | 312,400 *                  |
| 22                    | 81.5                 | 106.7                          | 304,100 *                  |
| 24                    | 80.3                 | 106.4                          | 277,000 *                  |
| 26                    | 79.2                 | 105.9                          | 253,100 *                  |
| 28                    | 78.0                 | 105.5                          | 224,700                    |
| 30                    | 76.8                 | 105.0                          | 196,500                    |
| 32                    | 75.6                 | 104.5                          | 173,500                    |
| 34                    | 74.4                 | 103.9                          | 154,300                    |
| 36                    | 73.2                 | 103.3                          | 138,000                    |
| 38                    | 72.0                 | 102.6                          | 124,100                    |
| 40                    | 70.8                 | 101.9                          | 112,000                    |
| 42                    | 69.6                 | 101.1                          | 101,400                    |
| 44                    | 68.3                 | 100.3                          | 92,100                     |
| 46                    | 67.1                 | 99.4                           | 83,800                     |
| 48                    | 65.8                 | 98.5                           | 76,300                     |

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>110 Ft. BOOM</b>   |                      |                                |                            |
| 22                    | 82.3                 | 116.9                          | 282,800 *                  |
| 24                    | 81.2                 | 116.5                          | 275,900 *                  |
| 26                    | 80.2                 | 116.2                          | 253,300 *                  |
| 28                    | 79.1                 | 115.7                          | 226,500                    |
| 30                    | 78.0                 | 115.3                          | 198,200                    |
| 32                    | 77.0                 | 114.8                          | 175,000                    |
| 34                    | 75.9                 | 114.3                          | 155,700                    |
| 36                    | 74.8                 | 113.7                          | 139,400                    |
| 38                    | 73.7                 | 113.1                          | 125,400                    |
| 40                    | 72.6                 | 112.5                          | 113,300                    |
| 42                    | 71.5                 | 111.8                          | 102,700                    |
| 44                    | 70.4                 | 111.0                          | 93,300                     |
| 46                    | 69.3                 | 110.3                          | 85,000                     |
| 48                    | 68.2                 | 109.4                          | 77,600                     |
| 50                    | 67.0                 | 108.6                          | 70,800                     |
| <b>120 Ft. BOOM</b>   |                      |                                |                            |
| 22                    | 82.9                 | 127.0                          | 275,100 *                  |
| 24                    | 82.0                 | 126.7                          | 268,800 *                  |
| 26                    | 81.0                 | 126.3                          | 254,000 *                  |
| 28                    | 80.0                 | 125.9                          | 228,100                    |
| 30                    | 79.1                 | 125.5                          | 199,700                    |
| 32                    | 78.1                 | 125.1                          | 176,500                    |
| 34                    | 77.1                 | 124.6                          | 157,200                    |
| 36                    | 76.1                 | 124.1                          | 140,800                    |
| 38                    | 75.1                 | 123.5                          | 126,800                    |
| 40                    | 74.1                 | 123.0                          | 114,600                    |
| 42                    | 73.1                 | 122.3                          | 104,000                    |
| 44                    | 72.1                 | 121.7                          | 94,600                     |
| 46                    | 71.1                 | 121.0                          | 86,300                     |
| 48                    | 70.1                 | 120.2                          | 78,800                     |
| 50                    | 69.1                 | 119.4                          | 72,100                     |
| 55                    | 66.5                 | 117.3                          | 57,900                     |
| <b>130 Ft. BOOM</b>   |                      |                                |                            |
| 24                    | 82.6                 | 136.8                          | 252,900 *                  |
| 26                    | 81.7                 | 136.5                          | 230,200                    |
| 28                    | 80.8                 | 136.1                          | 196,500                    |
| 30                    | 79.9                 | 135.7                          | 169,600                    |
| 32                    | 79.0                 | 135.3                          | 147,500                    |
| 34                    | 78.1                 | 134.9                          | 129,100                    |
| 36                    | 77.2                 | 134.4                          | 113,600                    |
| 38                    | 76.3                 | 133.9                          | 100,200                    |
| 40                    | 75.4                 | 133.4                          | 88,700                     |

| 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>   |                      |                                |                            |
| 42                    | 74.5                 | 132.8                          | 78,600                     |
| 44                    | 73.5                 | 132.2                          | 69,700                     |
| 46                    | 72.6                 | 131.5                          | 61,700                     |
| 48                    | 71.7                 | 130.9                          | 54,600                     |
| 50                    | 70.7                 | 130.1                          | 48,300                     |
| 55                    | 68.4                 | 128.2                          | 34,800                     |
| 60                    | 66.0                 | 126.0                          | 24,000                     |
| <b>140 Ft. BOOM</b>   |                      |                                |                            |
| 26                    | 82.3                 | 146.6                          | 231,700                    |
| 28                    | 81.5                 | 146.3                          | 197,900                    |
| 30                    | 80.6                 | 145.9                          | 170,800                    |
| 32                    | 79.8                 | 145.5                          | 148,700                    |
| 34                    | 79.0                 | 145.1                          | 130,300                    |
| 36                    | 78.1                 | 144.7                          | 114,700                    |
| 38                    | 77.3                 | 144.2                          | 101,300                    |
| 40                    | 76.4                 | 143.7                          | 89,800                     |
| 42                    | 75.6                 | 143.2                          | 79,600                     |
| 44                    | 74.7                 | 142.6                          | 70,700                     |
| 46                    | 73.9                 | 142.0                          | 62,800                     |
| 48                    | 73.0                 | 141.4                          | 55,600                     |
| 50                    | 72.2                 | 140.7                          | 49,200                     |
| 55                    | 70.0                 | 138.9                          | 35,700                     |
| 60                    | 67.8                 | 136.9                          | 24,900                     |
| 65                    | 65.5                 | 134.7                          | 16,100                     |
| <b>150 Ft. BOOM</b>   |                      |                                |                            |
| 26                    | 82.8                 | 156.7                          | 213,600 *                  |
| 28                    | 82.0                 | 156.4                          | 198,800                    |
| 30                    | 81.3                 | 156.1                          | 171,600                    |
| 32                    | 80.5                 | 155.7                          | 149,500                    |
| 34                    | 79.7                 | 155.3                          | 131,000                    |
| 36                    | 78.9                 | 154.9                          | 115,300                    |
| 38                    | 78.2                 | 154.5                          | 101,900                    |
| 40                    | 77.4                 | 154.0                          | 90,300                     |
| 42                    | 76.6                 | 153.5                          | 80,100                     |
| 44                    | 75.8                 | 153.0                          | 71,200                     |
| 46                    | 75.0                 | 152.5                          | 63,200                     |
| 48                    | 74.2                 | 151.9                          | 56,100                     |
| 50                    | 73.4                 | 151.3                          | 49,600                     |
| 55                    | 71.4                 | 149.6                          | 36,100                     |
| 60                    | 69.4                 | 147.7                          | 25,300                     |
| 65                    | 67.3                 | 145.6                          | 16,400                     |
| 70                    | 65.2                 | 143.4                          | 9,000                      |

# Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.



**999**

**SERIES 2**

## Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code

Boom No. 82

Luffing Jib No. 149

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

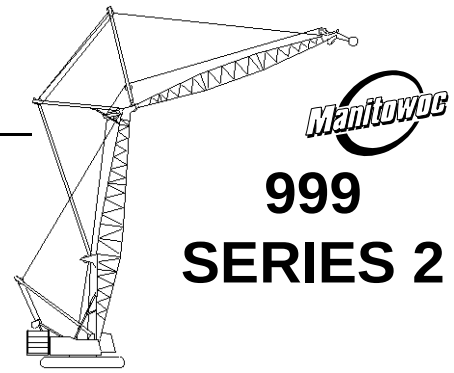
Meets  
ANSI B30.5  
Requirements

### 130 Ft. Luffing Jib, Attached At 168 Degree Boom To Luffing Jib Angle

| 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                    | 82.5                 | 166.5                          | 199,600                    |
| 30                    | 81.8                 | 166.2                          | 172,400                    |
| 32                    | 81.1                 | 165.9                          | 150,200                    |
| 34                    | 80.4                 | 165.5                          | 131,700                    |
| 36                    | 79.6                 | 165.1                          | 116,000                    |
| 38                    | 78.9                 | 164.7                          | 102,600                    |
| 40                    | 78.2                 | 164.3                          | 90,900                     |
| 42                    | 77.4                 | 163.8                          | 80,800                     |
| 44                    | 76.7                 | 163.3                          | 71,800                     |
| 46                    | 76.0                 | 162.8                          | 63,800                     |
| 48                    | 75.2                 | 162.3                          | 56,600                     |
| 50                    | 74.5                 | 161.7                          | 50,200                     |
| 55                    | 72.6                 | 160.2                          | 36,600                     |
| 60                    | 70.7                 | 158.4                          | 25,800                     |
| 65                    | 68.8                 | 156.5                          | 16,900                     |
| 70                    | 66.8                 | 154.4                          | 9,500                      |

| 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                    | 83.0                 | 176.6                          | 183,400 *                  |
| 30                    | 82.3                 | 176.3                          | 173,100                    |
| 32                    | 81.6                 | 176.0                          | 150,800                    |
| 34                    | 80.9                 | 175.7                          | 132,300                    |
| 36                    | 80.3                 | 175.3                          | 116,600                    |
| 38                    | 79.6                 | 174.9                          | 103,100                    |
| 40                    | 78.9                 | 174.5                          | 91,400                     |
| 42                    | 78.2                 | 174.1                          | 81,200                     |
| 44                    | 77.5                 | 173.6                          | 72,200                     |
| 46                    | 76.8                 | 173.1                          | 64,200                     |
| 48                    | 76.1                 | 172.6                          | 57,100                     |
| 50                    | 75.4                 | 172.1                          | 50,600                     |
| 55                    | 73.7                 | 170.6                          | 37,000                     |
| 60                    | 71.9                 | 169.0                          | 26,100                     |
| 65                    | 70.1                 | 167.2                          | 17,200                     |
| 70                    | 68.3                 | 165.3                          | 9,800                      |

| 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                    | 82.7                 | 186.4                          | 171,200 *                  |
| 32                    | 82.1                 | 186.1                          | 151,400                    |
| 34                    | 81.4                 | 185.8                          | 132,800                    |
| 36                    | 80.8                 | 185.5                          | 117,000                    |
| 38                    | 80.2                 | 185.1                          | 103,500                    |
| 40                    | 79.5                 | 184.7                          | 91,800                     |
| 42                    | 78.9                 | 184.3                          | 81,600                     |
| 44                    | 78.2                 | 183.9                          | 72,600                     |
| 46                    | 77.6                 | 183.4                          | 64,600                     |
| 48                    | 76.9                 | 183.0                          | 57,400                     |
| 50                    | 76.2                 | 182.5                          | 50,900                     |
| 55                    | 74.6                 | 181.1                          | 37,300                     |
| 60                    | 72.9                 | 179.6                          | 26,400                     |
| 65                    | 71.2                 | 177.9                          | 17,500                     |
| 70                    | 69.5                 | 176.0                          | 10,000                     |



# Liftcrane Boom Capacities With Luffing Jib Attached

**999  
SERIES 2**

New York City Code  
Boom No. 82  
Luffing Jib No. 149  
184,600 Lb. Crane Counterweight  
44,000 Lb. Carbody Counterweight  
360 Degree Rating

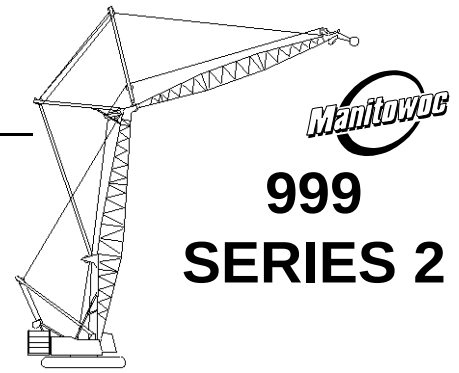
Meets  
ANSI B30.5  
Requirements

## 140 Ft. Luffing Jib, Attached At 168 Degree Boom To Luffing Jib Angle

| 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>    |                      |                                |                            |
| 17                    | 83.0                 | 87.3                           | 379,900 *                  |
| 18                    | 82.3                 | 87.1                           | 371,700 *                  |
| 19                    | 81.5                 | 87.0                           | 350,900 *                  |
| 20                    | 80.8                 | 86.8                           | 332,100 *                  |
| 22                    | 79.3                 | 86.4                           | 299,100 *                  |
| 24                    | 77.9                 | 85.9                           | 271,200 *                  |
| 26                    | 76.4                 | 85.4                           | 247,200 *                  |
| 28                    | 74.9                 | 84.8                           | 213,800                    |
| 30                    | 73.4                 | 84.2                           | 186,000                    |
| 32                    | 71.9                 | 83.5                           | 163,300                    |
| 34                    | 70.4                 | 82.7                           | 144,400                    |
| 36                    | 68.8                 | 81.9                           | 128,400                    |
| 38                    | 67.3                 | 81.1                           | 114,700                    |
| 40                    | 65.7                 | 80.1                           | 102,800                    |
| <b>90 Ft. BOOM</b>    |                      |                                |                            |
| 19                    | 82.5                 | 97.1                           | 351,700 *                  |
| 20                    | 81.8                 | 96.9                           | 332,900 *                  |
| 22                    | 80.5                 | 96.6                           | 300,000 *                  |
| 24                    | 79.2                 | 96.2                           | 272,100 *                  |
| 26                    | 77.9                 | 95.7                           | 248,300 *                  |
| 28                    | 76.6                 | 95.2                           | 216,900                    |
| 30                    | 75.3                 | 94.6                           | 189,000                    |
| 32                    | 74.0                 | 94.0                           | 166,200                    |
| 34                    | 72.6                 | 93.4                           | 147,200                    |
| 36                    | 71.3                 | 92.7                           | 131,100                    |
| 38                    | 69.9                 | 91.9                           | 117,300                    |
| 40                    | 68.6                 | 91.1                           | 105,400                    |
| 42                    | 67.2                 | 90.2                           | 94,900                     |
| 44                    | 65.8                 | 89.3                           | 85,700                     |
| <b>100 Ft. BOOM</b>   |                      |                                |                            |
| 20                    | 82.7                 | 107.0                          | 307,800 *                  |
| 22                    | 81.5                 | 106.7                          | 299,300 *                  |
| 24                    | 80.3                 | 106.4                          | 273,300 *                  |
| 26                    | 79.2                 | 105.9                          | 249,500 *                  |
| 28                    | 78.0                 | 105.5                          | 219,500                    |
| 30                    | 76.8                 | 105.0                          | 191,600                    |
| 32                    | 75.6                 | 104.5                          | 168,700                    |
| 34                    | 74.4                 | 103.9                          | 149,600                    |
| 36                    | 73.2                 | 103.3                          | 133,500                    |
| 38                    | 72.0                 | 102.6                          | 119,700                    |
| 40                    | 70.8                 | 101.9                          | 107,700                    |
| 42                    | 69.6                 | 101.1                          | 97,200                     |
| 44                    | 68.3                 | 100.3                          | 88,000                     |
| 46                    | 67.1                 | 99.4                           | 79,800                     |
| 48                    | 65.8                 | 98.5                           | 72,400                     |

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>110 Ft. BOOM</b>   |                      |                                |                            |
| 22                    | 82.3                 | 116.9                          | 278,500 *                  |
| 24                    | 81.2                 | 116.5                          | 271,400 *                  |
| 26                    | 80.2                 | 116.2                          | 249,900 *                  |
| 28                    | 79.1                 | 115.7                          | 221,500                    |
| 30                    | 78.0                 | 115.3                          | 193,400                    |
| 32                    | 77.0                 | 114.8                          | 170,400                    |
| 34                    | 75.9                 | 114.3                          | 151,300                    |
| 36                    | 74.8                 | 113.7                          | 135,100                    |
| 38                    | 73.7                 | 113.1                          | 121,300                    |
| 40                    | 72.6                 | 112.5                          | 109,200                    |
| 42                    | 71.5                 | 111.8                          | 98,700                     |
| 44                    | 70.4                 | 111.0                          | 89,400                     |
| 46                    | 69.3                 | 110.3                          | 81,200                     |
| 48                    | 68.2                 | 109.4                          | 73,800                     |
| 50                    | 67.0                 | 108.6                          | 67,100                     |
| <b>120 Ft. BOOM</b>   |                      |                                |                            |
| 22                    | 82.9                 | 127.0                          | 271,100 *                  |
| 24                    | 82.0                 | 126.7                          | 264,800 *                  |
| 26                    | 81.0                 | 126.3                          | 222,200                    |
| 28                    | 80.0                 | 125.9                          | 188,900                    |
| 30                    | 79.1                 | 125.5                          | 162,200                    |
| 32                    | 78.1                 | 125.1                          | 140,500                    |
| 34                    | 77.1                 | 124.6                          | 122,300                    |
| 36                    | 76.1                 | 124.1                          | 106,900                    |
| 38                    | 75.1                 | 123.5                          | 93,800                     |
| 40                    | 74.1                 | 123.0                          | 82,400                     |
| 42                    | 73.1                 | 122.3                          | 72,400                     |
| 44                    | 72.1                 | 121.7                          | 63,600                     |
| 46                    | 71.1                 | 121.0                          | 55,800                     |
| 48                    | 70.1                 | 120.2                          | 48,800                     |
| 50                    | 69.1                 | 119.4                          | 42,500                     |
| 55                    | 66.5                 | 117.3                          | 29,200                     |
| <b>130 Ft. BOOM</b>   |                      |                                |                            |
| 24                    | 82.6                 | 136.8                          | 249,200 *                  |
| 26                    | 81.7                 | 136.5                          | 223,900                    |
| 28                    | 80.8                 | 136.1                          | 190,500                    |
| 30                    | 79.9                 | 135.7                          | 163,800                    |
| 32                    | 79.0                 | 135.3                          | 142,000                    |
| 34                    | 78.1                 | 134.9                          | 123,800                    |
| 36                    | 77.2                 | 134.4                          | 108,400                    |
| 38                    | 76.3                 | 133.9                          | 95,200                     |
| 40                    | 75.4                 | 133.4                          | 83,800                     |

| 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>   |                      |                                |                            |
| 42                    | 74.5                 | 132.8                          | 73,800                     |
| 44                    | 73.5                 | 132.2                          | 64,900                     |
| 46                    | 72.6                 | 131.5                          | 57,100                     |
| 48                    | 71.7                 | 130.9                          | 50,100                     |
| 50                    | 70.7                 | 130.1                          | 43,800                     |
| 55                    | 68.4                 | 128.2                          | 30,400                     |
| 60                    | 66.0                 | 126.0                          | 19,800                     |
| <b>140 Ft. BOOM</b>   |                      |                                |                            |
| 26                    | 82.3                 | 146.6                          | 225,500                    |
| 28                    | 81.5                 | 146.3                          | 192,000                    |
| 30                    | 80.6                 | 145.9                          | 165,200                    |
| 32                    | 79.8                 | 145.5                          | 143,300                    |
| 34                    | 79.0                 | 145.1                          | 125,100                    |
| 36                    | 78.1                 | 144.7                          | 109,700                    |
| 38                    | 77.3                 | 144.2                          | 96,400                     |
| 40                    | 76.4                 | 143.7                          | 85,000                     |
| 42                    | 75.6                 | 143.2                          | 75,000                     |
| 44                    | 74.7                 | 142.6                          | 66,100                     |
| 46                    | 73.9                 | 142.0                          | 58,200                     |
| 48                    | 73.0                 | 141.4                          | 51,200                     |
| 50                    | 72.2                 | 140.7                          | 44,900                     |
| 55                    | 70.0                 | 138.9                          | 31,500                     |
| 60                    | 67.8                 | 136.9                          | 20,800                     |
| 65                    | 65.5                 | 134.7                          | 12,100                     |
| <b>150 Ft. BOOM</b>   |                      |                                |                            |
| 26                    | 82.8                 | 156.7                          | 211,000 *                  |
| 28                    | 82.0                 | 156.4                          | 193,000                    |
| 30                    | 81.3                 | 156.1                          | 166,200                    |
| 32                    | 80.5                 | 155.7                          | 144,200                    |
| 34                    | 79.7                 | 155.3                          | 125,900                    |
| 36                    | 78.9                 | 154.9                          | 110,400                    |
| 38                    | 78.2                 | 154.5                          | 97,100                     |
| 40                    | 77.4                 | 154.0                          | 85,600                     |
| 42                    | 76.6                 | 153.5                          | 75,600                     |
| 44                    | 75.8                 | 153.0                          | 66,700                     |
| 46                    | 75.0                 | 152.5                          | 58,800                     |
| 48                    | 74.2                 | 151.9                          | 51,700                     |
| 50                    | 73.4                 | 151.3                          | 45,400                     |
| 55                    | 71.4                 | 149.6                          | 32,000                     |
| 60                    | 69.4                 | 147.7                          | 21,300                     |
| 65                    | 67.3                 | 145.6                          | 12,500                     |
| 70                    | 65.2                 | 143.4                          | 5,200                      |



# Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code  
Boom No. 82  
Luffing Jib No. 149  
184,600 Lb. Crane Counterweight  
44,000 Lb. Carbody Counterweight  
360 Degree Rating

Meets  
ANSI B30.5  
Requirements

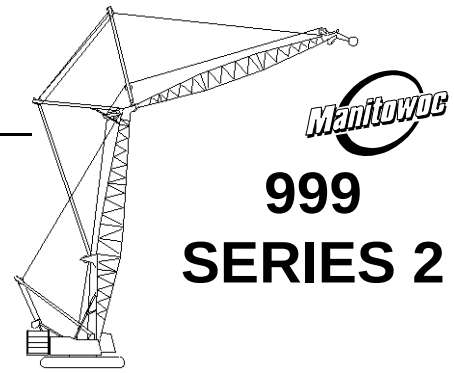
**999  
SERIES 2**

## 140 Ft. Luffing Jib, Attached At 168 Degree Boom To Luffing Jib Angle

| 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                    | 82.5                 | 166.5                          | 194,000                    |
| 30                    | 81.8                 | 166.2                          | 167,100                    |
| 32                    | 81.1                 | 165.9                          | 145,100                    |
| 34                    | 80.4                 | 165.5                          | 126,700                    |
| 36                    | 79.6                 | 165.1                          | 111,200                    |
| 38                    | 78.9                 | 164.7                          | 97,900                     |
| 40                    | 78.2                 | 164.3                          | 86,400                     |
| 42                    | 77.4                 | 163.8                          | 76,300                     |
| 44                    | 76.7                 | 163.3                          | 67,400                     |
| 46                    | 76.0                 | 162.8                          | 59,500                     |
| 48                    | 75.2                 | 162.3                          | 52,400                     |
| 50                    | 74.5                 | 161.7                          | 46,000                     |
| 55                    | 72.6                 | 160.2                          | 32,600                     |
| 60                    | 70.7                 | 158.4                          | 21,900                     |
| 65                    | 68.8                 | 156.5                          | 13,100                     |
| 70                    | 66.8                 | 154.4                          | 5,700                      |

| 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                    | 83.0                 | 176.6                          | 180,900 *                  |
| 30                    | 82.3                 | 176.3                          | 167,900                    |
| 32                    | 81.6                 | 176.0                          | 145,800                    |
| 34                    | 80.9                 | 175.7                          | 127,400                    |
| 36                    | 80.3                 | 175.3                          | 111,800                    |
| 38                    | 79.6                 | 174.9                          | 98,500                     |
| 40                    | 78.9                 | 174.5                          | 87,000                     |
| 42                    | 78.2                 | 174.1                          | 76,900                     |
| 44                    | 77.5                 | 173.6                          | 67,900                     |
| 46                    | 76.8                 | 173.1                          | 60,000                     |
| 48                    | 76.1                 | 172.6                          | 52,900                     |
| 50                    | 75.4                 | 172.1                          | 46,500                     |
| 55                    | 73.7                 | 170.6                          | 33,100                     |
| 60                    | 71.9                 | 169.0                          | 22,300                     |
| 65                    | 70.1                 | 167.2                          | 13,500                     |
| 70                    | 68.3                 | 165.3                          | 6,100                      |

| 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                    | 82.7                 | 186.4                          | 168,500                    |
| 32                    | 82.1                 | 186.1                          | 146,400                    |
| 34                    | 81.4                 | 185.8                          | 128,000                    |
| 36                    | 80.8                 | 185.5                          | 112,400                    |
| 38                    | 80.2                 | 185.1                          | 99,000                     |
| 40                    | 79.5                 | 184.7                          | 87,500                     |
| 42                    | 78.9                 | 184.3                          | 77,300                     |
| 44                    | 78.2                 | 183.9                          | 68,400                     |
| 46                    | 77.6                 | 183.4                          | 60,500                     |
| 48                    | 76.9                 | 183.0                          | 53,300                     |
| 50                    | 76.2                 | 182.5                          | 47,000                     |
| 55                    | 74.6                 | 181.1                          | 33,500                     |
| 60                    | 72.9                 | 179.6                          | 22,700                     |
| 65                    | 71.2                 | 177.9                          | 13,800                     |
| 70                    | 69.5                 | 176.0                          | 6,500                      |



# Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code  
Boom No. 82  
Luffing Jib No. 149  
184,600 Lb. Crane Counterweight  
44,000 Lb. Carbody Counterweight  
360 Degree Rating

Meets  
ANSI B30.5  
Requirements

## 150 Ft. Luffing Jib, Attached At 168 Degree Boom To Luffing Jib Angle

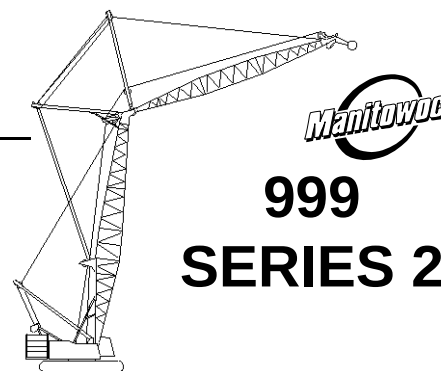
| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>80 Ft. BOOM</b>    |                      |                                |                            |
| 17                    | 83.0                 | 87.3                           | 375,100 *                  |
| 18                    | 82.3                 | 87.1                           | 368,500 *                  |
| 19                    | 81.5                 | 87.0                           | 347,800 *                  |
| 20                    | 80.8                 | 86.8                           | 329,000 *                  |
| 22                    | 79.3                 | 86.4                           | 296,100 *                  |
| 24                    | 77.9                 | 85.9                           | 268,200 *                  |
| 26                    | 76.4                 | 85.4                           | 243,600                    |
| 28                    | 74.9                 | 84.8                           | 209,200                    |
| 30                    | 73.4                 | 84.2                           | 181,700                    |
| 32                    | 71.9                 | 83.5                           | 159,200                    |
| 34                    | 70.4                 | 82.7                           | 140,400                    |
| 36                    | 68.8                 | 81.9                           | 124,500                    |
| 38                    | 67.3                 | 81.1                           | 110,900                    |
| 40                    | 65.7                 | 80.1                           | 99,200                     |
| <b>90 Ft. BOOM</b>    |                      |                                |                            |
| 19                    | 82.5                 | 97.1                           | 348,700 *                  |
| 20                    | 81.8                 | 96.9                           | 330,000 *                  |
| 22                    | 80.5                 | 96.6                           | 297,100 *                  |
| 24                    | 79.2                 | 96.2                           | 269,300 *                  |
| 26                    | 77.9                 | 95.7                           | 245,500 *                  |
| 28                    | 76.6                 | 95.2                           | 212,600                    |
| 30                    | 75.3                 | 94.6                           | 184,900                    |
| 32                    | 74.0                 | 94.0                           | 162,300                    |
| 34                    | 72.6                 | 93.4                           | 143,500                    |
| 36                    | 71.3                 | 92.7                           | 127,500                    |
| 38                    | 69.9                 | 91.9                           | 113,800                    |
| 40                    | 68.6                 | 91.1                           | 102,000                    |
| 42                    | 67.2                 | 90.2                           | 91,600                     |
| 44                    | 65.8                 | 89.3                           | 82,500                     |
| <b>100 Ft. BOOM</b>   |                      |                                |                            |
| 20                    | 82.7                 | 107.0                          | 303,600 *                  |
| 22                    | 81.5                 | 106.7                          | 295,300 *                  |
| 24                    | 80.3                 | 106.4                          | 270,600 *                  |
| 26                    | 79.2                 | 105.9                          | 246,900 *                  |
| 28                    | 78.0                 | 105.5                          | 215,400                    |
| 30                    | 76.8                 | 105.0                          | 187,700                    |
| 32                    | 75.6                 | 104.5                          | 165,000                    |
| 34                    | 74.4                 | 103.9                          | 146,100                    |
| 36                    | 73.2                 | 103.3                          | 130,100                    |
| 38                    | 72.0                 | 102.6                          | 116,400                    |
| 40                    | 70.8                 | 101.9                          | 104,500                    |
| 42                    | 69.6                 | 101.1                          | 94,100                     |
| 44                    | 68.3                 | 100.3                          | 84,900                     |
| 46                    | 67.1                 | 99.4                           | 76,800                     |
| 48                    | 65.8                 | 98.5                           | 69,500                     |

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>110 Ft. BOOM</b>   |                      |                                |                            |
| 22                    | 82.3                 | 116.9                          | 274,700 *                  |
| 24                    | 81.2                 | 116.5                          | 257,100                    |
| 26                    | 80.2                 | 116.2                          | 214,800                    |
| 28                    | 79.1                 | 115.7                          | 181,900                    |
| 30                    | 78.0                 | 115.3                          | 155,600                    |
| 32                    | 77.0                 | 114.8                          | 134,100                    |
| 34                    | 75.9                 | 114.3                          | 116,100                    |
| 36                    | 74.8                 | 113.7                          | 101,000                    |
| 38                    | 73.7                 | 113.1                          | 88,000                     |
| 40                    | 72.6                 | 112.5                          | 76,700                     |
| 42                    | 71.5                 | 111.8                          | 66,800                     |
| 44                    | 70.4                 | 111.0                          | 58,100                     |
| 46                    | 69.3                 | 110.3                          | 50,400                     |
| 48                    | 68.2                 | 109.4                          | 43,500                     |
| 50                    | 67.0                 | 108.6                          | 37,300                     |
| <b>120 Ft. BOOM</b>   |                      |                                |                            |
| 22                    | 82.9                 | 127.0                          | 267,600 *                  |
| 24                    | 82.0                 | 126.7                          | 259,500                    |
| 26                    | 81.0                 | 126.3                          | 217,100                    |
| 28                    | 80.0                 | 125.9                          | 184,100                    |
| 30                    | 79.1                 | 125.5                          | 157,700                    |
| 32                    | 78.1                 | 125.1                          | 136,100                    |
| 34                    | 77.1                 | 124.6                          | 118,200                    |
| 36                    | 76.1                 | 124.1                          | 102,900                    |
| 38                    | 75.1                 | 123.5                          | 89,900                     |
| 40                    | 74.1                 | 123.0                          | 78,600                     |
| 42                    | 73.1                 | 122.3                          | 68,700                     |
| 44                    | 72.1                 | 121.7                          | 60,000                     |
| 46                    | 71.1                 | 121.0                          | 52,300                     |
| 48                    | 70.1                 | 120.2                          | 45,400                     |
| 50                    | 69.1                 | 119.4                          | 39,100                     |
| 55                    | 66.5                 | 117.3                          | 26,000                     |
| <b>130 Ft. BOOM</b>   |                      |                                |                            |
| 24                    | 82.6                 | 136.8                          | 246,000 *                  |
| 26                    | 81.7                 | 136.5                          | 219,000                    |
| 28                    | 80.8                 | 136.1                          | 185,900                    |
| 30                    | 79.9                 | 135.7                          | 159,400                    |
| 32                    | 79.0                 | 135.3                          | 137,800                    |
| 34                    | 78.1                 | 134.9                          | 119,800                    |
| 36                    | 77.2                 | 134.4                          | 104,500                    |
| 38                    | 76.3                 | 133.9                          | 91,500                     |
| 40                    | 75.4                 | 133.4                          | 80,100                     |

| 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>   |                      |                                |                            |
| 42                    | 74.5                 | 132.8                          | 70,200                     |
| 44                    | 73.5                 | 132.2                          | 61,500                     |
| 46                    | 72.6                 | 131.5                          | 53,700                     |
| 48                    | 71.7                 | 130.9                          | 46,800                     |
| 50                    | 70.7                 | 130.1                          | 40,500                     |
| 55                    | 68.4                 | 128.2                          | 27,300                     |
| 60                    | 66.0                 | 126.0                          | 16,800                     |
| <b>140 Ft. BOOM</b>   |                      |                                |                            |
| 26                    | 82.3                 | 146.6                          | 220,700                    |
| 28                    | 81.5                 | 146.3                          | 187,500                    |
| 30                    | 80.6                 | 145.9                          | 161,000                    |
| 32                    | 79.8                 | 145.5                          | 139,300                    |
| 34                    | 79.0                 | 145.1                          | 121,200                    |
| 36                    | 78.1                 | 144.7                          | 105,900                    |
| 38                    | 77.3                 | 144.2                          | 92,800                     |
| 40                    | 76.4                 | 143.7                          | 81,500                     |
| 42                    | 75.6                 | 143.2                          | 71,600                     |
| 44                    | 74.7                 | 142.6                          | 62,800                     |
| 46                    | 73.9                 | 142.0                          | 55,000                     |
| 48                    | 73.0                 | 141.4                          | 48,000                     |
| 50                    | 72.2                 | 140.7                          | 41,800                     |
| 55                    | 70.0                 | 138.9                          | 28,500                     |
| 60                    | 67.8                 | 136.9                          | 18,000                     |
| 65                    | 65.5                 | 134.7                          | 9,300                      |
| <b>150 Ft. BOOM</b>   |                      |                                |                            |
| 26                    | 82.8                 | 156.7                          | 208,900 *                  |
| 28                    | 82.0                 | 156.4                          | 188,600                    |
| 30                    | 81.3                 | 156.1                          | 162,000                    |
| 32                    | 80.5                 | 155.7                          | 140,300                    |
| 34                    | 79.7                 | 155.3                          | 122,100                    |
| 36                    | 78.9                 | 154.9                          | 106,800                    |
| 38                    | 78.2                 | 154.5                          | 93,600                     |
| 40                    | 77.4                 | 154.0                          | 82,200                     |
| 42                    | 76.6                 | 153.5                          | 72,300                     |
| 44                    | 75.8                 | 153.0                          | 63,500                     |
| 46                    | 75.0                 | 152.5                          | 55,700                     |
| 48                    | 74.2                 | 151.9                          | 48,700                     |
| 50                    | 73.4                 | 151.3                          | 42,400                     |
| 55                    | 71.4                 | 149.6                          | 29,100                     |
| 60                    | 69.4                 | 147.7                          | 18,500                     |
| 65                    | 67.3                 | 145.6                          | 9,800                      |

# Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code

Boom No. 82

Luffing Jib No. 149

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

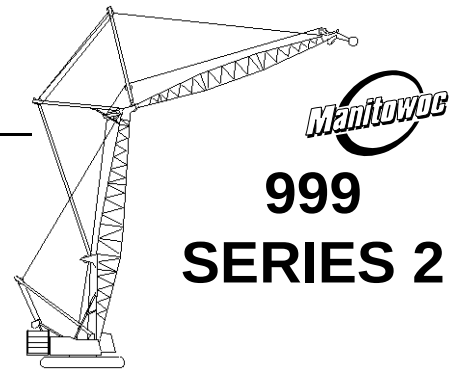
Meets  
ANSI B30.5  
Requirements

### 150 Ft. Luffing Jib, Attached At 168 Degree Boom To Luffing Jib Angle

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| 160 Ft. BOOM          |                      |                                |                            |
| 28                    | 82.5                 | 166.5                          | 189,700                    |
| 30                    | 81.8                 | 166.2                          | 163,000                    |
| 32                    | 81.1                 | 165.9                          | 141,200                    |
| 34                    | 80.4                 | 165.5                          | 123,000                    |
| 36                    | 79.6                 | 165.1                          | 107,700                    |
| 38                    | 78.9                 | 164.7                          | 94,500                     |
| 40                    | 78.2                 | 164.3                          | 83,100                     |
| 42                    | 77.4                 | 163.8                          | 73,100                     |
| 44                    | 76.7                 | 163.3                          | 64,300                     |
| 46                    | 76.0                 | 162.8                          | 56,500                     |
| 48                    | 75.2                 | 162.3                          | 49,500                     |
| 50                    | 74.5                 | 161.7                          | 43,100                     |
| 55                    | 72.6                 | 160.2                          | 29,800                     |
| 60                    | 70.7                 | 158.4                          | 19,200                     |
| 65                    | 68.8                 | 156.5                          | 10,500                     |

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| 170 Ft. BOOM          |                      |                                |                            |
| 28                    | 83.0                 | 176.6                          | 178,800 *                  |
| 30                    | 82.3                 | 176.3                          | 163,900                    |
| 32                    | 81.6                 | 176.0                          | 142,000                    |
| 34                    | 80.9                 | 175.7                          | 123,800                    |
| 36                    | 80.3                 | 175.3                          | 108,400                    |
| 38                    | 79.6                 | 174.9                          | 95,200                     |
| 40                    | 78.9                 | 174.5                          | 83,800                     |
| 42                    | 78.2                 | 174.1                          | 73,700                     |
| 44                    | 77.5                 | 173.6                          | 64,900                     |
| 46                    | 76.8                 | 173.1                          | 57,100                     |
| 48                    | 76.1                 | 172.6                          | 50,000                     |
| 50                    | 75.4                 | 172.1                          | 43,700                     |
| 55                    | 73.7                 | 170.6                          | 30,400                     |
| 60                    | 71.9                 | 169.0                          | 19,700                     |
| 65                    | 70.1                 | 167.2                          | 11,000                     |

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| 180 Ft. BOOM          |                      |                                |                            |
| 30                    | 82.7                 | 186.4                          | 164,600                    |
| 32                    | 82.1                 | 186.1                          | 142,700                    |
| 34                    | 81.4                 | 185.8                          | 124,500                    |
| 36                    | 80.8                 | 185.5                          | 109,000                    |
| 38                    | 80.2                 | 185.1                          | 95,800                     |
| 40                    | 79.5                 | 184.7                          | 84,300                     |
| 42                    | 78.9                 | 184.3                          | 74,300                     |
| 44                    | 78.2                 | 183.9                          | 65,400                     |
| 46                    | 77.6                 | 183.4                          | 57,600                     |
| 48                    | 76.9                 | 183.0                          | 50,500                     |
| 50                    | 76.2                 | 182.5                          | 44,200                     |
| 55                    | 74.6                 | 181.1                          | 30,800                     |
| 60                    | 72.9                 | 179.6                          | 20,200                     |
| 65                    | 71.2                 | 177.9                          | 11,400                     |



# Liftcrane Boom Capacities With Luffing Jib Attached

**999  
SERIES 2**

New York City Code  
Boom No. 82  
Luffing Jib No. 149  
184,600 Lb. Crane Counterweight  
44,000 Lb. Carbody Counterweight  
360 Degree Rating

Meets  
ANSI B30.5  
Requirements

## 160 Ft. Luffing Jib, Attached At 168 Degree Boom To Luffing Jib Angle

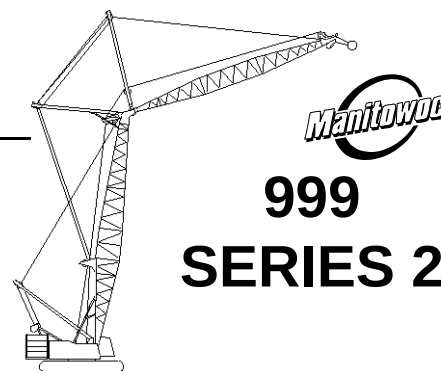
| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>80 Ft. BOOM</b>    |                      |                                |                            |
| 17                    | 83.0                 | 87.3                           | 369,400 *                  |
| 18                    | 82.3                 | 87.1                           | 364,200 *                  |
| 19                    | 81.5                 | 87.0                           | 343,500 *                  |
| 20                    | 80.8                 | 86.8                           | 324,700 *                  |
| 22                    | 79.3                 | 86.4                           | 291,900 *                  |
| 24                    | 77.9                 | 85.9                           | 264,100 *                  |
| 26                    | 76.4                 | 85.4                           | 237,200                    |
| 28                    | 74.9                 | 84.8                           | 203,100                    |
| 30                    | 73.4                 | 84.2                           | 175,900                    |
| 32                    | 71.9                 | 83.5                           | 153,600                    |
| 34                    | 70.4                 | 82.7                           | 135,000                    |
| 36                    | 68.8                 | 81.9                           | 119,300                    |
| 38                    | 67.3                 | 81.1                           | 105,800                    |
| 40                    | 65.7                 | 80.1                           | 94,100                     |
| <b>90 Ft. BOOM</b>    |                      |                                |                            |
| 19                    | 82.5                 | 97.1                           | 344,600 *                  |
| 20                    | 81.8                 | 96.9                           | 325,800 *                  |
| 22                    | 80.5                 | 96.6                           | 293,100 *                  |
| 24                    | 79.2                 | 96.2                           | 265,400 *                  |
| 26                    | 77.9                 | 95.7                           | 241,000                    |
| 28                    | 76.6                 | 95.2                           | 206,800                    |
| 30                    | 75.3                 | 94.6                           | 179,400                    |
| 32                    | 74.0                 | 94.0                           | 157,000                    |
| 34                    | 72.6                 | 93.4                           | 138,300                    |
| 36                    | 71.3                 | 92.7                           | 122,500                    |
| 38                    | 69.9                 | 91.9                           | 109,000                    |
| 40                    | 68.6                 | 91.1                           | 97,300                     |
| 42                    | 67.2                 | 90.2                           | 87,000                     |
| 44                    | 65.8                 | 89.3                           | 78,000                     |
| <b>100 Ft. BOOM</b>   |                      |                                |                            |
| 20                    | 82.7                 | 107.0                          | 298,500 *                  |
| 22                    | 81.5                 | 106.7                          | 290,200 *                  |
| 24                    | 80.3                 | 106.4                          | 246,600                    |
| 26                    | 79.2                 | 105.9                          | 204,900                    |
| 28                    | 78.0                 | 105.5                          | 172,500                    |
| 30                    | 76.8                 | 105.0                          | 146,600                    |
| 32                    | 75.6                 | 104.5                          | 125,400                    |
| 34                    | 74.4                 | 103.9                          | 107,700                    |
| 36                    | 73.2                 | 103.3                          | 92,800                     |
| 38                    | 72.0                 | 102.6                          | 80,000                     |
| 40                    | 70.8                 | 101.9                          | 68,900                     |
| 42                    | 69.6                 | 101.1                          | 59,200                     |
| 44                    | 68.3                 | 100.3                          | 50,700                     |
| 46                    | 67.1                 | 99.4                           | 43,100                     |
| 48                    | 65.8                 | 98.5                           | 36,300                     |

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>110 Ft. BOOM</b>   |                      |                                |                            |
| 22                    | 82.3                 | 116.9                          | 270,000 *                  |
| 24                    | 81.2                 | 116.5                          | 249,600                    |
| 26                    | 80.2                 | 116.2                          | 207,700                    |
| 28                    | 79.1                 | 115.7                          | 175,100                    |
| 30                    | 78.0                 | 115.3                          | 149,100                    |
| 32                    | 77.0                 | 114.8                          | 127,800                    |
| 34                    | 75.9                 | 114.3                          | 110,100                    |
| 36                    | 74.8                 | 113.7                          | 95,100                     |
| 38                    | 73.7                 | 113.1                          | 82,300                     |
| 40                    | 72.6                 | 112.5                          | 71,100                     |
| 42                    | 71.5                 | 111.8                          | 61,400                     |
| 44                    | 70.4                 | 111.0                          | 52,800                     |
| 46                    | 69.3                 | 110.3                          | 45,200                     |
| 48                    | 68.2                 | 109.4                          | 38,300                     |
| 50                    | 67.0                 | 108.6                          | 32,200                     |
| <b>120 Ft. BOOM</b>   |                      |                                |                            |
| 22                    | 82.9                 | 127.0                          | 263,300 *                  |
| 24                    | 82.0                 | 126.7                          | 252,200                    |
| 26                    | 81.0                 | 126.3                          | 210,200                    |
| 28                    | 80.0                 | 125.9                          | 177,600                    |
| 30                    | 79.1                 | 125.5                          | 151,500                    |
| 32                    | 78.1                 | 125.1                          | 130,100                    |
| 34                    | 77.1                 | 124.6                          | 112,300                    |
| 36                    | 76.1                 | 124.1                          | 97,300                     |
| 38                    | 75.1                 | 123.5                          | 84,400                     |
| 40                    | 74.1                 | 123.0                          | 73,300                     |
| 42                    | 73.1                 | 122.3                          | 63,500                     |
| 44                    | 72.1                 | 121.7                          | 54,900                     |
| 46                    | 71.1                 | 121.0                          | 47,200                     |
| 48                    | 70.1                 | 120.2                          | 40,400                     |
| 50                    | 69.1                 | 119.4                          | 34,200                     |
| 55                    | 66.5                 | 117.3                          | 21,200                     |
| <b>130 Ft. BOOM</b>   |                      |                                |                            |
| 24                    | 82.6                 | 136.8                          | 242,100 *                  |
| 26                    | 81.7                 | 136.5                          | 212,300                    |
| 28                    | 80.8                 | 136.1                          | 179,600                    |
| 30                    | 79.9                 | 135.7                          | 153,400                    |
| 32                    | 79.0                 | 135.3                          | 132,000                    |
| 34                    | 78.1                 | 134.9                          | 114,200                    |
| 36                    | 77.2                 | 134.4                          | 99,100                     |
| 38                    | 76.3                 | 133.9                          | 86,200                     |
| 40                    | 75.4                 | 133.4                          | 75,000                     |

| 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>   |                      |                                |                            |
| 42                    | 74.5                 | 132.8                          | 65,200                     |
| 44                    | 73.5                 | 132.2                          | 56,500                     |
| 46                    | 72.6                 | 131.5                          | 48,800                     |
| 48                    | 71.7                 | 130.9                          | 42,000                     |
| 50                    | 70.7                 | 130.1                          | 35,800                     |
| 55                    | 68.4                 | 128.2                          | 22,800                     |
| 60                    | 66.0                 | 126.0                          | 12,300                     |
| <b>140 Ft. BOOM</b>   |                      |                                |                            |
| 26                    | 82.3                 | 146.6                          | 214,100                    |
| 28                    | 81.5                 | 146.3                          | 181,300                    |
| 30                    | 80.6                 | 145.9                          | 155,100                    |
| 32                    | 79.8                 | 145.5                          | 133,600                    |
| 34                    | 79.0                 | 145.1                          | 115,700                    |
| 36                    | 78.1                 | 144.7                          | 100,600                    |
| 38                    | 77.3                 | 144.2                          | 87,700                     |
| 40                    | 76.4                 | 143.7                          | 76,400                     |
| 42                    | 75.6                 | 143.2                          | 66,600                     |
| 44                    | 74.7                 | 142.6                          | 58,000                     |
| 46                    | 73.9                 | 142.0                          | 50,300                     |
| 48                    | 73.0                 | 141.4                          | 43,400                     |
| 50                    | 72.2                 | 140.7                          | 37,200                     |
| 55                    | 70.0                 | 138.9                          | 24,100                     |
| 60                    | 67.8                 | 136.9                          | 13,700                     |
| 65                    | 65.5                 | 134.7                          | 5,100                      |
| <b>150 Ft. BOOM</b>   |                      |                                |                            |
| 26                    | 82.8                 | 156.7                          | 206,200 *                  |
| 28                    | 82.0                 | 156.4                          | 182,600                    |
| 30                    | 81.3                 | 156.1                          | 156,300                    |
| 32                    | 80.5                 | 155.7                          | 134,700                    |
| 34                    | 79.7                 | 155.3                          | 116,800                    |
| 36                    | 78.9                 | 154.9                          | 101,600                    |
| 38                    | 78.2                 | 154.5                          | 88,600                     |
| 40                    | 77.4                 | 154.0                          | 77,300                     |
| 42                    | 76.6                 | 153.5                          | 67,500                     |
| 44                    | 75.8                 | 153.0                          | 58,800                     |
| 46                    | 75.0                 | 152.5                          | 51,100                     |
| 48                    | 74.2                 | 151.9                          | 44,100                     |
| 50                    | 73.4                 | 151.3                          | 37,900                     |
| 55                    | 71.4                 | 149.6                          | 24,800                     |
| 60                    | 69.4                 | 147.7                          | 14,300                     |
| 65                    | 67.3                 | 145.6                          | 5,700                      |

# Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code

Boom No. 82

Luffing Jib No. 149

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

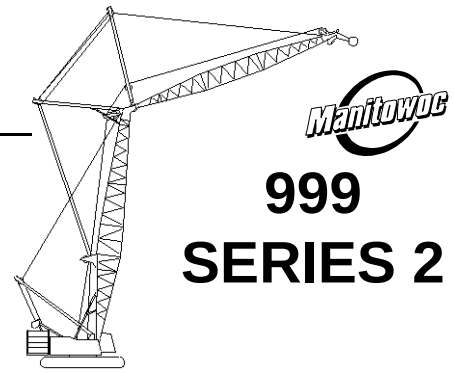
Meets  
ANSI B30.5  
Requirements

### 160 Ft. Luffing Jib, Attached At 168 Degree Boom To Luffing Jib Angle

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| 160 Ft. BOOM          |                      |                                |                            |
| 28                    | 82.5                 | 166.5                          | 183,800                    |
| 30                    | 81.8                 | 166.2                          | 157,400                    |
| 32                    | 81.1                 | 165.9                          | 135,800                    |
| 34                    | 80.4                 | 165.5                          | 117,800                    |
| 36                    | 79.6                 | 165.1                          | 102,600                    |
| 38                    | 78.9                 | 164.7                          | 89,600                     |
| 40                    | 78.2                 | 164.3                          | 78,300                     |
| 42                    | 77.4                 | 163.8                          | 68,400                     |
| 44                    | 76.7                 | 163.3                          | 59,700                     |
| 46                    | 76.0                 | 162.8                          | 51,900                     |
| 48                    | 75.2                 | 162.3                          | 45,000                     |
| 50                    | 74.5                 | 161.7                          | 38,800                     |
| 55                    | 72.6                 | 160.2                          | 25,600                     |
| 60                    | 70.7                 | 158.4                          | 15,100                     |
| 65                    | 68.8                 | 156.5                          | 6,500                      |

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| 170 Ft. BOOM          |                      |                                |                            |
| 28                    | 83.0                 | 176.6                          | 176,100 *                  |
| 30                    | 82.3                 | 176.3                          | 158,300                    |
| 32                    | 81.6                 | 176.0                          | 136,700                    |
| 34                    | 80.9                 | 175.7                          | 118,700                    |
| 36                    | 80.3                 | 175.3                          | 103,400                    |
| 38                    | 79.6                 | 174.9                          | 90,400                     |
| 40                    | 78.9                 | 174.5                          | 79,000                     |
| 42                    | 78.2                 | 174.1                          | 69,100                     |
| 44                    | 77.5                 | 173.6                          | 60,400                     |
| 46                    | 76.8                 | 173.1                          | 52,700                     |
| 48                    | 76.1                 | 172.6                          | 45,700                     |
| 50                    | 75.4                 | 172.1                          | 39,500                     |
| 55                    | 73.7                 | 170.6                          | 26,300                     |
| 60                    | 71.9                 | 169.0                          | 15,700                     |
| 65                    | 70.1                 | 167.2                          | 7,100                      |

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| 180 Ft. BOOM          |                      |                                |                            |
| 30                    | 82.7                 | 186.4                          | 118,000 *                  |
| 32                    | 82.1                 | 186.1                          | 118,000 *                  |
| 34                    | 81.4                 | 185.8                          | 118,000 *                  |
| 36                    | 80.8                 | 185.5                          | 104,100                    |
| 38                    | 80.2                 | 185.1                          | 91,000                     |
| 40                    | 79.5                 | 184.7                          | 79,700                     |
| 42                    | 78.9                 | 184.3                          | 69,800                     |
| 44                    | 78.2                 | 183.9                          | 61,000                     |
| 46                    | 77.6                 | 183.4                          | 53,200                     |
| 48                    | 76.9                 | 183.0                          | 46,300                     |
| 50                    | 76.2                 | 182.5                          | 40,000                     |
| 55                    | 74.6                 | 181.1                          | 26,800                     |
| 60                    | 72.9                 | 179.6                          | 16,200                     |
| 65                    | 71.2                 | 177.9                          | 7,600                      |



# Liftcrane Boom Capacities With Luffing Jib Attached

**999  
SERIES 2**

New York City Code  
Boom No. 82  
Luffing Jib No. 149  
184,600 Lb. Crane Counterweight  
44,000 Lb. Carbody Counterweight  
360 Degree Rating

Meets  
ANSI B30.5  
Requirements

## 170 Ft. Luffing Jib, Attached At 168 Degree Boom To Luffing Jib Angle

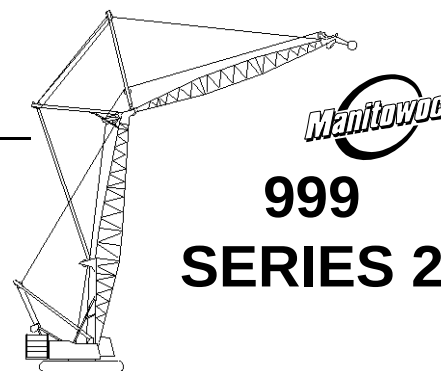
| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>80 Ft. BOOM</b>    |                      |                                |                            |
| 17                    | 83.0                 | 87.3                           | 365,500 *                  |
| 18                    | 82.3                 | 87.1                           | 360,300 *                  |
| 19                    | 81.5                 | 87.0                           | 339,800 *                  |
| 20                    | 80.8                 | 86.8                           | 321,100 *                  |
| 22                    | 79.3                 | 86.4                           | 288,300 *                  |
| 24                    | 77.9                 | 85.9                           | 260,500 *                  |
| 26                    | 76.4                 | 85.4                           | 231,600                    |
| 28                    | 74.9                 | 84.8                           | 197,800                    |
| 30                    | 73.4                 | 84.2                           | 170,800                    |
| 32                    | 71.9                 | 83.5                           | 148,800                    |
| 34                    | 70.4                 | 82.7                           | 130,400                    |
| 36                    | 68.8                 | 81.9                           | 114,800                    |
| 38                    | 67.3                 | 81.1                           | 101,400                    |
| 40                    | 65.7                 | 80.1                           | 89,900                     |
| <b>90 Ft. BOOM</b>    |                      |                                |                            |
| 19                    | 82.5                 | 97.1                           | 341,000 *                  |
| 20                    | 81.8                 | 96.9                           | 322,300 *                  |
| 22                    | 80.5                 | 96.6                           | 289,600 *                  |
| 24                    | 79.2                 | 96.2                           | 235,600                    |
| 26                    | 77.9                 | 95.7                           | 194,500                    |
| 28                    | 76.6                 | 95.2                           | 162,500                    |
| 30                    | 75.3                 | 94.6                           | 137,000                    |
| 32                    | 74.0                 | 94.0                           | 116,100                    |
| 34                    | 72.6                 | 93.4                           | 98,700                     |
| 36                    | 71.3                 | 92.7                           | 83,900                     |
| 38                    | 69.9                 | 91.9                           | 71,300                     |
| 40                    | 68.6                 | 91.1                           | 60,400                     |
| 42                    | 67.2                 | 90.2                           | 50,800                     |
| 44                    | 65.8                 | 89.3                           | 42,400                     |
| <b>100 Ft. BOOM</b>   |                      |                                |                            |
| 20                    | 82.7                 | 107.0                          | 295,200 *                  |
| 22                    | 81.5                 | 106.7                          | 286,700 *                  |
| 24                    | 80.3                 | 106.4                          | 239,800                    |
| 26                    | 79.2                 | 105.9                          | 198,600                    |
| 28                    | 78.0                 | 105.5                          | 166,500                    |
| 30                    | 76.8                 | 105.0                          | 140,900                    |
| 32                    | 75.6                 | 104.5                          | 119,900                    |
| 34                    | 74.4                 | 103.9                          | 102,400                    |
| 36                    | 73.2                 | 103.3                          | 87,600                     |
| 38                    | 72.0                 | 102.6                          | 75,000                     |
| 40                    | 70.8                 | 101.9                          | 64,000                     |
| 42                    | 69.6                 | 101.1                          | 54,400                     |
| 44                    | 68.3                 | 100.3                          | 46,000                     |
| 46                    | 67.1                 | 99.4                           | 38,500                     |
| 48                    | 65.8                 | 98.5                           | 31,800                     |

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>110 Ft. BOOM</b>   |                      |                                |                            |
| 22                    | 82.3                 | 116.9                          | 266,900 *                  |
| 24                    | 81.2                 | 116.5                          | 243,000                    |
| 26                    | 80.2                 | 116.2                          | 201,600                    |
| 28                    | 79.1                 | 115.7                          | 169,400                    |
| 30                    | 78.0                 | 115.3                          | 143,600                    |
| 32                    | 77.0                 | 114.8                          | 122,500                    |
| 34                    | 75.9                 | 114.3                          | 105,000                    |
| 36                    | 74.8                 | 113.7                          | 90,200                     |
| 38                    | 73.7                 | 113.1                          | 77,400                     |
| 40                    | 72.6                 | 112.5                          | 66,400                     |
| 42                    | 71.5                 | 111.8                          | 56,800                     |
| 44                    | 70.4                 | 111.0                          | 48,300                     |
| 46                    | 69.3                 | 110.3                          | 40,800                     |
| 48                    | 68.2                 | 109.4                          | 34,000                     |
| 50                    | 67.0                 | 108.6                          | 27,900                     |
| <b>120 Ft. BOOM</b>   |                      |                                |                            |
| 22                    | 82.9                 | 127.0                          | 260,600 *                  |
| 24                    | 82.0                 | 126.7                          | 245,800                    |
| 26                    | 81.0                 | 126.3                          | 204,300                    |
| 28                    | 80.0                 | 125.9                          | 172,000                    |
| 30                    | 79.1                 | 125.5                          | 146,100                    |
| 32                    | 78.1                 | 125.1                          | 125,000                    |
| 34                    | 77.1                 | 124.6                          | 107,400                    |
| 36                    | 76.1                 | 124.1                          | 92,500                     |
| 38                    | 75.1                 | 123.5                          | 79,800                     |
| 40                    | 74.1                 | 123.0                          | 68,800                     |
| 42                    | 73.1                 | 122.3                          | 59,100                     |
| 44                    | 72.1                 | 121.7                          | 50,600                     |
| 46                    | 71.1                 | 121.0                          | 43,000                     |
| 48                    | 70.1                 | 120.2                          | 36,200                     |
| 50                    | 69.1                 | 119.4                          | 30,100                     |
| 55                    | 66.5                 | 117.3                          | 17,300                     |
| <b>130 Ft. BOOM</b>   |                      |                                |                            |
| 24                    | 82.6                 | 136.8                          | 239,600 *                  |
| 26                    | 81.7                 | 136.5                          | 206,500                    |
| 28                    | 80.8                 | 136.1                          | 174,100                    |
| 30                    | 79.9                 | 135.7                          | 148,200                    |
| 32                    | 79.0                 | 135.3                          | 127,000                    |
| 34                    | 78.1                 | 134.9                          | 109,400                    |
| 36                    | 77.2                 | 134.4                          | 94,500                     |
| 38                    | 76.3                 | 133.9                          | 81,700                     |
| 40                    | 75.4                 | 133.4                          | 70,600                     |

| 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>   |                      |                                |                            |
| 42                    | 74.5                 | 132.8                          | 60,900                     |
| 44                    | 73.5                 | 132.2                          | 52,400                     |
| 46                    | 72.6                 | 131.5                          | 44,800                     |
| 48                    | 71.7                 | 130.9                          | 38,000                     |
| 50                    | 70.7                 | 130.1                          | 31,900                     |
| 55                    | 68.4                 | 128.2                          | 19,000                     |
| 60                    | 66.0                 | 126.0                          | 8,700                      |
| <b>140 Ft. BOOM</b>   |                      |                                |                            |
| 26                    | 82.3                 | 146.6                          | 208,500                    |
| 28                    | 81.5                 | 146.3                          | 176,000                    |
| 30                    | 80.6                 | 145.9                          | 150,000                    |
| 32                    | 79.8                 | 145.5                          | 128,800                    |
| 34                    | 79.0                 | 145.1                          | 111,100                    |
| 36                    | 78.1                 | 144.7                          | 96,100                     |
| 38                    | 77.3                 | 144.2                          | 83,300                     |
| 40                    | 76.4                 | 143.7                          | 72,200                     |
| 42                    | 75.6                 | 143.2                          | 62,500                     |
| 44                    | 74.7                 | 142.6                          | 53,900                     |
| 46                    | 73.9                 | 142.0                          | 46,300                     |
| 48                    | 73.0                 | 141.4                          | 39,500                     |
| 50                    | 72.2                 | 140.7                          | 33,400                     |
| 55                    | 70.0                 | 138.9                          | 20,400                     |
| 60                    | 67.8                 | 136.9                          | 10,100                     |
| <b>150 Ft. BOOM</b>   |                      |                                |                            |
| 26                    | 82.8                 | 156.7                          | 204,500 *                  |
| 28                    | 82.0                 | 156.4                          | 177,400                    |
| 30                    | 81.3                 | 156.1                          | 151,300                    |
| 32                    | 80.5                 | 155.7                          | 130,000                    |
| 34                    | 79.7                 | 155.3                          | 112,300                    |
| 36                    | 78.9                 | 154.9                          | 97,200                     |
| 38                    | 78.2                 | 154.5                          | 84,400                     |
| 40                    | 77.4                 | 154.0                          | 73,200                     |
| 42                    | 76.6                 | 153.5                          | 63,500                     |
| 44                    | 75.8                 | 153.0                          | 54,900                     |
| 46                    | 75.0                 | 152.5                          | 47,200                     |
| 48                    | 74.2                 | 151.9                          | 40,400                     |
| 50                    | 73.4                 | 151.3                          | 34,200                     |
| 55                    | 71.4                 | 149.6                          | 21,200                     |
| 60                    | 69.4                 | 147.7                          | 10,900                     |

# Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code

Boom No. 82

Luffing Jib No. 149

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

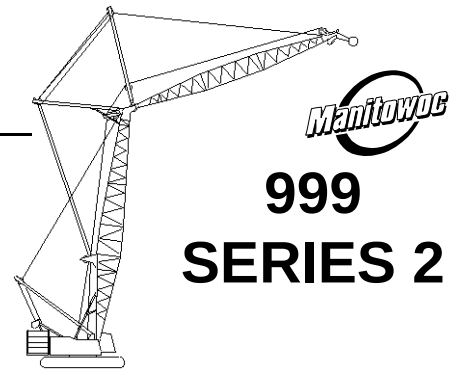
Meets  
ANSI B30.5  
Requirements

### 170 Ft. Luffing Jib, Attached At 168 Degree Boom To Luffing Jib Angle

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| 160 Ft. BOOM          |                      |                                |                            |
| 28                    | 82.5                 | 166.5                          | 178,700                    |
| 30                    | 81.8                 | 166.2                          | 152,600                    |
| 32                    | 81.1                 | 165.9                          | 131,200                    |
| 34                    | 80.4                 | 165.5                          | 113,400                    |
| 36                    | 79.6                 | 165.1                          | 98,300                     |
| 38                    | 78.9                 | 164.7                          | 85,400                     |
| 40                    | 78.2                 | 164.3                          | 74,300                     |
| 42                    | 77.4                 | 163.8                          | 64,500                     |
| 44                    | 76.7                 | 163.3                          | 55,900                     |
| 46                    | 76.0                 | 162.8                          | 48,200                     |
| 48                    | 75.2                 | 162.3                          | 41,400                     |
| 50                    | 74.5                 | 161.7                          | 35,200                     |
| 55                    | 72.6                 | 160.2                          | 22,200                     |
| 60                    | 70.7                 | 158.4                          | 11,800                     |

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| 170 Ft. BOOM          |                      |                                |                            |
| 28                    | 83.0                 | 176.6                          | 174,500 *                  |
| 30                    | 82.3                 | 176.3                          | 153,600                    |
| 32                    | 81.6                 | 176.0                          | 132,200                    |
| 34                    | 80.9                 | 175.7                          | 114,300                    |
| 36                    | 80.3                 | 175.3                          | 99,300                     |
| 38                    | 79.6                 | 174.9                          | 86,300                     |
| 40                    | 78.9                 | 174.5                          | 75,100                     |
| 42                    | 78.2                 | 174.1                          | 65,300                     |
| 44                    | 77.5                 | 173.6                          | 56,700                     |
| 46                    | 76.8                 | 173.1                          | 49,000                     |
| 48                    | 76.1                 | 172.6                          | 42,100                     |
| 50                    | 75.4                 | 172.1                          | 35,900                     |
| 55                    | 73.7                 | 170.6                          | 22,900                     |
| 60                    | 71.9                 | 169.0                          | 12,500                     |

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| 180 Ft. BOOM          |                      |                                |                            |
| 30                    | 82.7                 | 186.4                          | 118,000 *                  |
| 32                    | 82.1                 | 186.1                          | 118,000 *                  |
| 34                    | 81.4                 | 185.8                          | 115,200                    |
| 36                    | 80.8                 | 185.5                          | 100,000                    |
| 38                    | 80.2                 | 185.1                          | 87,100                     |
| 40                    | 79.5                 | 184.7                          | 75,900                     |
| 42                    | 78.9                 | 184.3                          | 66,000                     |
| 44                    | 78.2                 | 183.9                          | 57,400                     |
| 46                    | 77.6                 | 183.4                          | 49,700                     |
| 48                    | 76.9                 | 183.0                          | 42,800                     |
| 50                    | 76.2                 | 182.5                          | 36,600                     |



# Liftcrane Boom Capacities With Luffing Jib Attached

**999  
SERIES 2**

New York City Code  
Boom No. 82  
Luffing Jib No. 149  
184,600 Lb. Crane Counterweight  
44,000 Lb. Carbody Counterweight  
360 Degree Rating

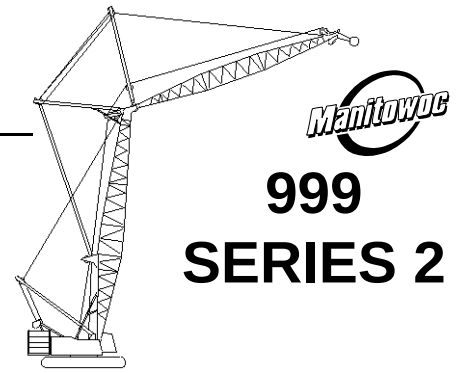
Meets  
ANSI B30.5  
Requirements

## 180 Ft. Luffing Jib, Attached At 168 Degree Boom To Luffing Jib Angle

| 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>    |                      |                                |                            |
| 17                    | 83.0                 | 87.3                           | 359,400 *                  |
| 18                    | 82.3                 | 87.1                           | 354,000 *                  |
| 19                    | 81.5                 | 87.0                           | 335,200 *                  |
| 20                    | 80.8                 | 86.8                           | 316,500 *                  |
| 22                    | 79.3                 | 86.4                           | 275,400                    |
| 24                    | 77.9                 | 85.9                           | 221,400                    |
| 26                    | 76.4                 | 85.4                           | 181,000                    |
| 28                    | 74.9                 | 84.8                           | 149,600                    |
| 30                    | 73.4                 | 84.2                           | 124,500                    |
| 32                    | 71.9                 | 83.5                           | 104,000                    |
| 34                    | 70.4                 | 82.7                           | 86,900                     |
| 36                    | 68.8                 | 81.9                           | 72,500                     |
| 38                    | 67.3                 | 81.1                           | 60,100                     |
| 40                    | 65.7                 | 80.1                           | 49,400                     |
| <b>90 Ft. BOOM</b>    |                      |                                |                            |
| 19                    | 82.5                 | 97.1                           | 336,600 *                  |
| 20                    | 81.8                 | 96.9                           | 317,900 *                  |
| 22                    | 80.5                 | 96.6                           | 281,100                    |
| 24                    | 79.2                 | 96.2                           | 226,900                    |
| 26                    | 77.9                 | 95.7                           | 186,300                    |
| 28                    | 76.6                 | 95.2                           | 154,700                    |
| 30                    | 75.3                 | 94.6                           | 129,500                    |
| 32                    | 74.0                 | 94.0                           | 108,800                    |
| 34                    | 72.6                 | 93.4                           | 91,600                     |
| 36                    | 71.3                 | 92.7                           | 77,100                     |
| 38                    | 69.9                 | 91.9                           | 64,700                     |
| 40                    | 68.6                 | 91.1                           | 53,900                     |
| 42                    | 67.2                 | 90.2                           | 44,500                     |
| 44                    | 65.8                 | 89.3                           | 36,200                     |

| 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>   |                      |                                |                            |
| 20                    | 82.7                 | 107.0                          | 289,800 *                  |
| 22                    | 81.5                 | 106.7                          | 281,200 *                  |
| 24                    | 80.3                 | 106.4                          | 231,500                    |
| 26                    | 79.2                 | 105.9                          | 190,700                    |
| 28                    | 78.0                 | 105.5                          | 159,000                    |
| 30                    | 76.8                 | 105.0                          | 133,700                    |
| 32                    | 75.6                 | 104.5                          | 113,000                    |
| 34                    | 74.4                 | 103.9                          | 95,700                     |
| 36                    | 73.2                 | 103.3                          | 81,200                     |
| 38                    | 72.0                 | 102.6                          | 68,700                     |
| 40                    | 70.8                 | 101.9                          | 57,800                     |
| 42                    | 69.6                 | 101.1                          | 48,400                     |
| 44                    | 68.3                 | 100.3                          | 40,000                     |
| 46                    | 67.1                 | 99.4                           | 32,600                     |
| 48                    | 65.8                 | 98.5                           | 26,000                     |
| <b>110 Ft. BOOM</b>   |                      |                                |                            |
| 22                    | 82.3                 | 116.9                          | 261,900 *                  |
| 24                    | 81.2                 | 116.5                          | 234,900                    |
| 26                    | 80.2                 | 116.2                          | 194,000                    |
| 28                    | 79.1                 | 115.7                          | 162,100                    |
| 30                    | 78.0                 | 115.3                          | 136,700                    |
| 32                    | 77.0                 | 114.8                          | 115,900                    |
| 34                    | 75.9                 | 114.3                          | 98,600                     |
| 36                    | 74.8                 | 113.7                          | 83,900                     |
| 38                    | 73.7                 | 113.1                          | 71,400                     |
| 40                    | 72.6                 | 112.5                          | 60,500                     |
| 42                    | 71.5                 | 111.8                          | 51,000                     |
| 44                    | 70.4                 | 111.0                          | 42,600                     |
| 46                    | 69.3                 | 110.3                          | 35,200                     |
| 48                    | 68.2                 | 109.4                          | 28,500                     |
| 50                    | 67.0                 | 108.6                          | 22,500                     |

| 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                    | 82.9                 | 127.0                          | 256,000 *                  |
| 24                    | 82.0                 | 126.7                          | 238,000                    |
| 26                    | 81.0                 | 126.3                          | 196,900                    |
| 28                    | 80.0                 | 125.9                          | 165,000                    |
| 30                    | 79.1                 | 125.5                          | 139,500                    |
| 32                    | 78.1                 | 125.1                          | 118,600                    |
| 34                    | 77.1                 | 124.6                          | 101,200                    |
| 36                    | 76.1                 | 124.1                          | 86,500                     |
| 38                    | 75.1                 | 123.5                          | 73,900                     |
| 40                    | 74.1                 | 123.0                          | 63,000                     |
| 42                    | 73.1                 | 122.3                          | 53,500                     |
| 44                    | 72.1                 | 121.7                          | 45,100                     |
| 46                    | 71.1                 | 121.0                          | 37,600                     |
| 48                    | 70.1                 | 120.2                          | 30,900                     |
| 50                    | 69.1                 | 119.4                          | 24,900                     |
| 55                    | 66.5                 | 117.3                          | 12,300                     |
| <b>130 Ft. BOOM</b>   |                      |                                |                            |
| 24                    | 82.6                 | 136.8                          | 235,400 *                  |
| 26                    | 81.7                 | 136.5                          | 199,300                    |
| 28                    | 80.8                 | 136.1                          | 167,300                    |
| 30                    | 79.9                 | 135.7                          | 141,700                    |
| 32                    | 79.0                 | 135.3                          | 120,800                    |
| 34                    | 78.1                 | 134.9                          | 103,400                    |
| 36                    | 77.2                 | 134.4                          | 88,600                     |
| 38                    | 76.3                 | 133.9                          | 76,000                     |
| 40                    | 75.4                 | 133.4                          | 65,100                     |
| 42                    | 74.5                 | 132.8                          | 55,500                     |
| 44                    | 73.5                 | 132.2                          | 47,100                     |
| 46                    | 72.6                 | 131.5                          | 39,600                     |
| 48                    | 71.7                 | 130.9                          | 32,900                     |
| 50                    | 70.7                 | 130.1                          | 26,800                     |
| 55                    | 68.4                 | 128.2                          | 14,100                     |
| 60                    | 66.0                 | 126.0                          | 4,000                      |



# Liftcrane Boom Capacities With Luffing Jib Attached

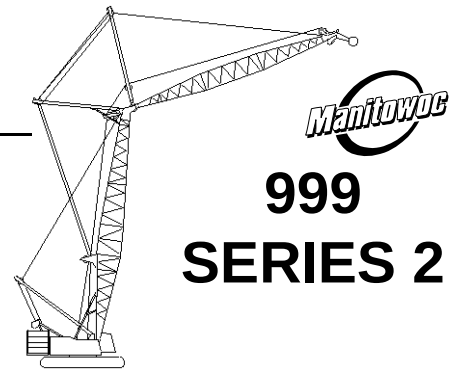
New York City Code  
Boom No. 82  
Luffing Jib No. 149  
184,600 Lb. Crane Counterweight  
44,000 Lb. Carbody Counterweight  
360 Degree Rating

Meets  
ANSI B30.5  
Requirements

## 180 Ft. Luffing Jib, Attached At 168 Degree Boom To Luffing Jib Angle

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>140 Ft. BOOM</b>   |                      |                                |                            |
| 26                    | 82.3                 | 146.6                          | 201,500                    |
| 28                    | 81.5                 | 146.3                          | 169,400                    |
| 30                    | 80.6                 | 145.9                          | 143,700                    |
| 32                    | 79.8                 | 145.5                          | 122,700                    |
| 34                    | 79.0                 | 145.1                          | 105,300                    |
| 36                    | 78.1                 | 144.7                          | 90,500                     |
| 38                    | 77.3                 | 144.2                          | 77,800                     |
| 40                    | 76.4                 | 143.7                          | 66,900                     |
| 42                    | 75.6                 | 143.2                          | 57,300                     |
| 44                    | 74.7                 | 142.6                          | 48,800                     |
| 46                    | 73.9                 | 142.0                          | 41,300                     |
| 48                    | 73.0                 | 141.4                          | 34,600                     |
| 50                    | 72.2                 | 140.7                          | 28,500                     |
| 55                    | 70.0                 | 138.9                          | 15,700                     |
| 60                    | 67.8                 | 136.9                          | 5,500                      |
| <b>150 Ft. BOOM</b>   |                      |                                |                            |
| 26                    | 82.8                 | 156.7                          | 201,600 *                  |
| 28                    | 82.0                 | 156.4                          | 170,900                    |
| 30                    | 81.3                 | 156.1                          | 145,200                    |
| 32                    | 80.5                 | 155.7                          | 124,100                    |
| 34                    | 79.7                 | 155.3                          | 106,600                    |
| 36                    | 78.9                 | 154.9                          | 91,700                     |
| 38                    | 78.2                 | 154.5                          | 79,000                     |
| 40                    | 77.4                 | 154.0                          | 68,000                     |
| 42                    | 76.6                 | 153.5                          | 58,400                     |
| 44                    | 75.8                 | 153.0                          | 49,900                     |
| 46                    | 75.0                 | 152.5                          | 42,300                     |
| 48                    | 74.2                 | 151.9                          | 35,600                     |
| 50                    | 73.4                 | 151.3                          | 29,500                     |
| 55                    | 71.4                 | 149.6                          | 16,700                     |

| 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                    | 82.5                 | 166.5                          | 172,300                    |
| 30                    | 81.8                 | 166.2                          | 146,500                    |
| 32                    | 81.1                 | 165.9                          | 125,400                    |
| 34                    | 80.4                 | 165.5                          | 107,800                    |
| 36                    | 79.6                 | 165.1                          | 92,900                     |
| 38                    | 78.9                 | 164.7                          | 80,200                     |
| 40                    | 78.2                 | 164.3                          | 69,200                     |
| 42                    | 77.4                 | 163.8                          | 59,500                     |
| 44                    | 76.7                 | 163.3                          | 51,000                     |
| 46                    | 76.0                 | 162.8                          | 43,400                     |
| 48                    | 75.2                 | 162.3                          | 36,700                     |
| 50                    | 74.5                 | 161.7                          | 30,600                     |
| 55                    | 72.6                 | 160.2                          | 17,700                     |
| 60                    | 70.7                 | 158.4                          | 7,500                      |
| <b>170 Ft. BOOM</b>   |                      |                                |                            |
| 28                    | 83.0                 | 176.6                          | 171,600 *                  |
| 30                    | 82.3                 | 176.3                          | 147,700                    |
| 32                    | 81.6                 | 176.0                          | 126,500                    |
| 34                    | 80.9                 | 175.7                          | 108,900                    |
| 36                    | 80.3                 | 175.3                          | 94,000                     |
| 38                    | 79.6                 | 174.9                          | 81,200                     |
| 40                    | 78.9                 | 174.5                          | 70,100                     |
| 42                    | 78.2                 | 174.1                          | 60,400                     |
| 44                    | 77.5                 | 173.6                          | 51,900                     |
| 46                    | 76.8                 | 173.1                          | 44,300                     |
| 48                    | 76.1                 | 172.6                          | 37,500                     |
| 50                    | 75.4                 | 172.1                          | 31,400                     |



# Liftcrane Boom Capacities With Luffing Jib Attached

**999  
SERIES 2**

New York City Code  
Boom No. 82  
Luffing Jib No. 149  
184,600 Lb. Crane Counterweight  
44,000 Lb. Carbody Counterweight  
360 Degree Rating

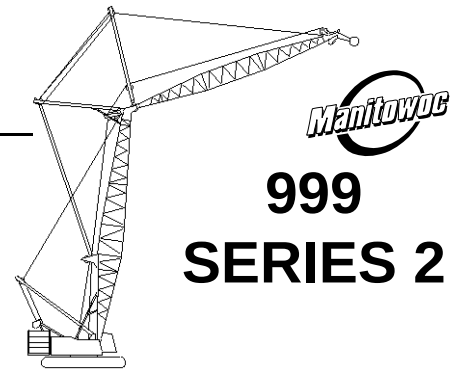
Meets  
ANSI B30.5  
Requirements

## 190 Ft. Luffing Jib, Attached At 168 Degree Boom To Luffing Jib Angle

| 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>    |                      |                                |                            |
| 17                    | 83.0                 | 87.3                           | 354,500 *                  |
| 18                    | 82.3                 | 87.1                           | 349,000 *                  |
| 19                    | 81.5                 | 87.0                           | 332,300 *                  |
| 20                    | 80.8                 | 86.8                           | 313,600 *                  |
| 22                    | 79.3                 | 86.4                           | 268,800                    |
| 24                    | 77.9                 | 85.9                           | 215,300                    |
| 26                    | 76.4                 | 85.4                           | 175,300                    |
| 28                    | 74.9                 | 84.8                           | 144,200                    |
| 30                    | 73.4                 | 84.2                           | 119,400                    |
| 32                    | 71.9                 | 83.5                           | 99,100                     |
| 34                    | 70.4                 | 82.7                           | 82,200                     |
| 36                    | 68.8                 | 81.9                           | 67,900                     |
| 38                    | 67.3                 | 81.1                           | 55,600                     |
| 40                    | 65.7                 | 80.1                           | 45,000                     |
| <b>90 Ft. BOOM</b>    |                      |                                |                            |
| 19                    | 82.5                 | 97.1                           | 333,800 *                  |
| 20                    | 81.8                 | 96.9                           | 315,200 *                  |
| 22                    | 80.5                 | 96.6                           | 274,900                    |
| 24                    | 79.2                 | 96.2                           | 221,100                    |
| 26                    | 77.9                 | 95.7                           | 180,900                    |
| 28                    | 76.6                 | 95.2                           | 149,600                    |
| 30                    | 75.3                 | 94.6                           | 124,600                    |
| 32                    | 74.0                 | 94.0                           | 104,200                    |
| 34                    | 72.6                 | 93.4                           | 87,200                     |
| 36                    | 71.3                 | 92.7                           | 72,800                     |
| 38                    | 69.9                 | 91.9                           | 60,500                     |
| 40                    | 68.6                 | 91.1                           | 49,800                     |
| 42                    | 67.2                 | 90.2                           | 40,500                     |
| 44                    | 65.8                 | 89.3                           | 32,200                     |

| 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>   |                      |                                |                            |
| 20                    | 82.7                 | 107.0                          | 285,500 *                  |
| 22                    | 81.5                 | 106.7                          | 276,700 *                  |
| 24                    | 80.3                 | 106.4                          | 226,000                    |
| 26                    | 79.2                 | 105.9                          | 185,600                    |
| 28                    | 78.0                 | 105.5                          | 154,200                    |
| 30                    | 76.8                 | 105.0                          | 129,100                    |
| 32                    | 75.6                 | 104.5                          | 108,600                    |
| 34                    | 74.4                 | 103.9                          | 91,500                     |
| 36                    | 73.2                 | 103.3                          | 77,000                     |
| 38                    | 72.0                 | 102.6                          | 64,700                     |
| 40                    | 70.8                 | 101.9                          | 54,000                     |
| 42                    | 69.6                 | 101.1                          | 44,600                     |
| 44                    | 68.3                 | 100.3                          | 36,300                     |
| 46                    | 67.1                 | 99.4                           | 29,000                     |
| 48                    | 65.8                 | 98.5                           | 22,500                     |
| <b>110 Ft. BOOM</b>   |                      |                                |                            |
| 22                    | 82.3                 | 116.9                          | 257,900 *                  |
| 24                    | 81.2                 | 116.5                          | 229,600                    |
| 26                    | 80.2                 | 116.2                          | 189,000                    |
| 28                    | 79.1                 | 115.7                          | 157,500                    |
| 30                    | 78.0                 | 115.3                          | 132,300                    |
| 32                    | 77.0                 | 114.8                          | 111,700                    |
| 34                    | 75.9                 | 114.3                          | 94,500                     |
| 36                    | 74.8                 | 113.7                          | 80,000                     |
| 38                    | 73.7                 | 113.1                          | 67,600                     |
| 40                    | 72.6                 | 112.5                          | 56,800                     |
| 42                    | 71.5                 | 111.8                          | 47,400                     |
| 44                    | 70.4                 | 111.0                          | 39,100                     |
| 46                    | 69.3                 | 110.3                          | 31,700                     |
| 48                    | 68.2                 | 109.4                          | 25,100                     |
| 50                    | 67.0                 | 108.6                          | 19,200                     |

| 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                    | 82.9                 | 127.0                          | 252,400 *                  |
| 24                    | 82.0                 | 126.7                          | 232,800                    |
| 26                    | 81.0                 | 126.3                          | 192,100                    |
| 28                    | 80.0                 | 125.9                          | 160,500                    |
| 30                    | 79.1                 | 125.5                          | 135,200                    |
| 32                    | 78.1                 | 125.1                          | 114,500                    |
| 34                    | 77.1                 | 124.6                          | 97,300                     |
| 36                    | 76.1                 | 124.1                          | 82,800                     |
| 38                    | 75.1                 | 123.5                          | 70,300                     |
| 40                    | 74.1                 | 123.0                          | 59,500                     |
| 42                    | 73.1                 | 122.3                          | 50,100                     |
| 44                    | 72.1                 | 121.7                          | 41,700                     |
| 46                    | 71.1                 | 121.0                          | 34,300                     |
| 48                    | 70.1                 | 120.2                          | 27,700                     |
| 50                    | 69.1                 | 119.4                          | 21,800                     |
| 55                    | 66.5                 | 117.3                          | 9,200                      |
| <b>130 Ft. BOOM</b>   |                      |                                |                            |
| 24                    | 82.6                 | 136.8                          | 232,000 *                  |
| 26                    | 81.7                 | 136.5                          | 194,700                    |
| 28                    | 80.8                 | 136.1                          | 163,000                    |
| 30                    | 79.9                 | 135.7                          | 137,600                    |
| 32                    | 79.0                 | 135.3                          | 116,900                    |
| 34                    | 78.1                 | 134.9                          | 99,600                     |
| 36                    | 77.2                 | 134.4                          | 85,000                     |
| 38                    | 76.3                 | 133.9                          | 72,500                     |
| 40                    | 75.4                 | 133.4                          | 61,700                     |
| 42                    | 74.5                 | 132.8                          | 52,200                     |
| 44                    | 73.5                 | 132.2                          | 43,800                     |
| 46                    | 72.6                 | 131.5                          | 36,400                     |
| 48                    | 71.7                 | 130.9                          | 29,800                     |
| 50                    | 70.7                 | 130.1                          | 23,800                     |
| 55                    | 68.4                 | 128.2                          | 11,200                     |



# Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code  
Boom No. 82  
Luffing Jib No. 149  
184,600 Lb. Crane Counterweight  
44,000 Lb. Carbody Counterweight  
360 Degree Rating

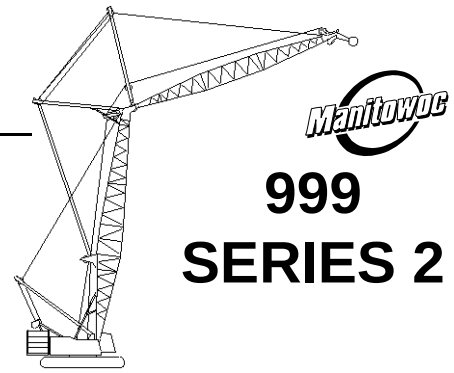
Meets  
ANSI B30.5  
Requirements

**999  
SERIES 2**

## 190 Ft. Luffing Jib, Attached At 168 Degree Boom To Luffing Jib Angle

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>140 Ft. BOOM</b>   |                      |                                |                            |
| 26                    | 82.3                 | 146.6                          | 197,000                    |
| 28                    | 81.5                 | 146.3                          | 165,200                    |
| 30                    | 80.6                 | 145.9                          | 139,700                    |
| 32                    | 79.8                 | 145.5                          | 118,900                    |
| 34                    | 79.0                 | 145.1                          | 101,600                    |
| 36                    | 78.1                 | 144.7                          | 87,000                     |
| 38                    | 77.3                 | 144.2                          | 74,400                     |
| 40                    | 76.4                 | 143.7                          | 63,600                     |
| 42                    | 75.6                 | 143.2                          | 54,100                     |
| 44                    | 74.7                 | 142.6                          | 45,700                     |
| 46                    | 73.9                 | 142.0                          | 38,200                     |
| 48                    | 73.0                 | 141.4                          | 31,600                     |
| 50                    | 72.2                 | 140.7                          | 25,600                     |
| 55                    | 70.0                 | 138.9                          | 13,000                     |
| <b>150 Ft. BOOM</b>   |                      |                                |                            |
| 26                    | 82.8                 | 156.7                          | 198,700                    |
| 28                    | 82.0                 | 156.4                          | 166,800                    |
| 30                    | 81.3                 | 156.1                          | 141,300                    |
| 32                    | 80.5                 | 155.7                          | 120,400                    |
| 34                    | 79.7                 | 155.3                          | 103,000                    |
| 36                    | 78.9                 | 154.9                          | 88,300                     |
| 38                    | 78.2                 | 154.5                          | 75,700                     |
| 40                    | 77.4                 | 154.0                          | 64,800                     |
| 42                    | 76.6                 | 153.5                          | 55,300                     |
| 44                    | 75.8                 | 153.0                          | 46,900                     |
| 46                    | 75.0                 | 152.5                          | 39,400                     |
| 48                    | 74.2                 | 151.9                          | 32,700                     |
| 50                    | 73.4                 | 151.3                          | 26,700                     |
| 55                    | 71.4                 | 149.6                          | 14,000                     |

| 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                    | 82.5                 | 166.5                          | 168,300                    |
| 30                    | 81.8                 | 166.2                          | 142,700                    |
| 32                    | 81.1                 | 165.9                          | 121,800                    |
| 34                    | 80.4                 | 165.5                          | 104,400                    |
| 36                    | 79.6                 | 165.1                          | 89,600                     |
| 38                    | 78.9                 | 164.7                          | 77,000                     |
| 40                    | 78.2                 | 164.3                          | 66,100                     |
| 42                    | 77.4                 | 163.8                          | 56,500                     |
| 44                    | 76.7                 | 163.3                          | 48,100                     |
| 46                    | 76.0                 | 162.8                          | 40,600                     |
| 48                    | 75.2                 | 162.3                          | 33,900                     |
| <b>170 Ft. BOOM</b>   |                      |                                |                            |
| 28                    | 83.0                 | 176.6                          | 169,300 *                  |
| 30                    | 82.3                 | 176.3                          | 144,000                    |
| 32                    | 81.6                 | 176.0                          | 123,000                    |
| 34                    | 80.9                 | 175.7                          | 105,500                    |
| 36                    | 80.3                 | 175.3                          | 90,700                     |
| 38                    | 79.6                 | 174.9                          | 78,100                     |
| 40                    | 78.9                 | 174.5                          | 67,100                     |
| 42                    | 78.2                 | 174.1                          | 57,500                     |
| 44                    | 77.5                 | 173.6                          | 49,100                     |
| 46                    | 76.8                 | 173.1                          | 41,500                     |
| 48                    | 76.1                 | 172.6                          | 34,800                     |
| 50                    | 75.4                 | 172.1                          | 28,800                     |



# Liftcrane Boom Capacities With Luffing Jib Attached

**999  
SERIES 2**

New York City Code  
Boom No. 82  
Luffing Jib No. 149  
184,600 Lb. Crane Counterweight  
44,000 Lb. Carbody Counterweight  
360 Degree Rating

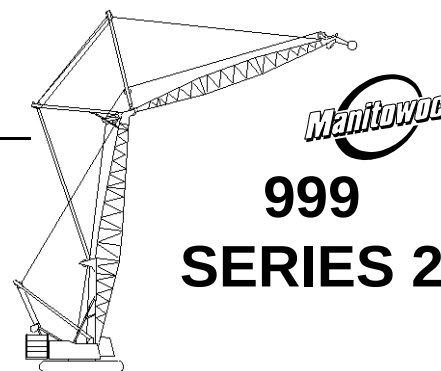
Meets  
ANSI B30.5  
Requirements

## 200 Ft. Luffing Jib, Attached At 168 Degree Boom To Luffing Jib Angle

| 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>    |                      |                                |                            |
| 17                    | 83.0                 | 87.3                           | 347,900 *                  |
| 18                    | 82.3                 | 87.1                           | 342,300 *                  |
| 19                    | 81.5                 | 87.0                           | 327,500 *                  |
| 20                    | 80.8                 | 86.8                           | 308,800 *                  |
| 22                    | 79.3                 | 86.4                           | 258,400                    |
| 24                    | 77.9                 | 85.9                           | 205,700                    |
| 26                    | 76.4                 | 85.4                           | 166,200                    |
| 28                    | 74.9                 | 84.8                           | 135,600                    |
| 30                    | 73.4                 | 84.2                           | 111,100                    |
| 32                    | 71.9                 | 83.5                           | 91,000                     |
| 34                    | 70.4                 | 82.7                           | 74,400                     |
| 36                    | 68.8                 | 81.9                           | 60,300                     |
| 38                    | 67.3                 | 81.1                           | 48,200                     |
| 40                    | 65.7                 | 80.1                           | 37,800                     |
| <b>90 Ft. BOOM</b>    |                      |                                |                            |
| 19                    | 82.5                 | 97.1                           | 329,100 *                  |
| 20                    | 81.8                 | 96.9                           | 310,600 *                  |
| 22                    | 80.5                 | 96.6                           | 265,000                    |
| 24                    | 79.2                 | 96.2                           | 212,000                    |
| 26                    | 77.9                 | 95.7                           | 172,200                    |
| 28                    | 76.6                 | 95.2                           | 141,400                    |
| 30                    | 75.3                 | 94.6                           | 116,700                    |
| 32                    | 74.0                 | 94.0                           | 96,600                     |
| 34                    | 72.6                 | 93.4                           | 79,800                     |
| 36                    | 71.3                 | 92.7                           | 65,600                     |
| 38                    | 69.9                 | 91.9                           | 53,500                     |
| 40                    | 68.6                 | 91.1                           | 43,000                     |
| 42                    | 67.2                 | 90.2                           | 33,800                     |
| 44                    | 65.8                 | 89.3                           | 25,700                     |

| 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>   |                      |                                |                            |
| 20                    | 82.7                 | 107.0                          | 279,700 *                  |
| 22                    | 81.5                 | 106.7                          | 270,400                    |
| 24                    | 80.3                 | 106.4                          | 217,100                    |
| 26                    | 79.2                 | 105.9                          | 177,300                    |
| 28                    | 78.0                 | 105.5                          | 146,300                    |
| 30                    | 76.8                 | 105.0                          | 121,500                    |
| 32                    | 75.6                 | 104.5                          | 101,300                    |
| 34                    | 74.4                 | 103.9                          | 84,500                     |
| 36                    | 73.2                 | 103.3                          | 70,200                     |
| 38                    | 72.0                 | 102.6                          | 58,000                     |
| 40                    | 70.8                 | 101.9                          | 47,500                     |
| 42                    | 69.6                 | 101.1                          | 38,300                     |
| 44                    | 68.3                 | 100.3                          | 30,100                     |
| 46                    | 67.1                 | 99.4                           | 22,900                     |
| 48                    | 65.8                 | 98.5                           | 16,400                     |
| <b>110 Ft. BOOM</b>   |                      |                                |                            |
| 22                    | 82.3                 | 116.9                          | 252,600 *                  |
| 24                    | 81.2                 | 116.5                          | 221,100                    |
| 26                    | 80.2                 | 116.2                          | 181,000                    |
| 28                    | 79.1                 | 115.7                          | 149,900                    |
| 30                    | 78.0                 | 115.3                          | 125,100                    |
| 32                    | 77.0                 | 114.8                          | 104,700                    |
| 34                    | 75.9                 | 114.3                          | 87,800                     |
| 36                    | 74.8                 | 113.7                          | 73,500                     |
| 38                    | 73.7                 | 113.1                          | 61,200                     |
| 40                    | 72.6                 | 112.5                          | 50,600                     |
| 42                    | 71.5                 | 111.8                          | 41,300                     |
| 44                    | 70.4                 | 111.0                          | 33,200                     |
| 46                    | 69.3                 | 110.3                          | 25,900                     |
| 48                    | 68.2                 | 109.4                          | 19,400                     |
| 50                    | 67.0                 | 108.6                          | 13,500                     |

| 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                    | 82.9                 | 127.0                          | 247,500 *                  |
| 24                    | 82.0                 | 126.7                          | 224,600                    |
| 26                    | 81.0                 | 126.3                          | 184,400                    |
| 28                    | 80.0                 | 125.9                          | 153,200                    |
| 30                    | 79.1                 | 125.5                          | 128,200                    |
| 32                    | 78.1                 | 125.1                          | 107,800                    |
| 34                    | 77.1                 | 124.6                          | 90,800                     |
| 36                    | 76.1                 | 124.1                          | 76,500                     |
| 38                    | 75.1                 | 123.5                          | 64,200                     |
| 40                    | 74.1                 | 123.0                          | 53,500                     |
| 42                    | 73.1                 | 122.3                          | 44,200                     |
| 44                    | 72.1                 | 121.7                          | 36,000                     |
| 46                    | 71.1                 | 121.0                          | 28,700                     |
| 48                    | 70.1                 | 120.2                          | 22,200                     |
| 50                    | 69.1                 | 119.4                          | 16,300                     |
| 55                    | 66.5                 | 117.3                          | 4,000                      |
| <b>130 Ft. BOOM</b>   |                      |                                |                            |
| 24                    | 82.6                 | 136.8                          | 227,500 *                  |
| 26                    | 81.7                 | 136.5                          | 187,200                    |
| 28                    | 80.8                 | 136.1                          | 155,900                    |
| 30                    | 79.9                 | 135.7                          | 130,800                    |
| 32                    | 79.0                 | 135.3                          | 110,400                    |
| 34                    | 78.1                 | 134.9                          | 93,300                     |
| 36                    | 77.2                 | 134.4                          | 78,900                     |
| 38                    | 76.3                 | 133.9                          | 66,600                     |
| 40                    | 75.4                 | 133.4                          | 55,900                     |
| 42                    | 74.5                 | 132.8                          | 46,600                     |
| 44                    | 73.5                 | 132.2                          | 38,300                     |
| 46                    | 72.6                 | 131.5                          | 31,000                     |
| 48                    | 71.7                 | 130.9                          | 24,400                     |
| 50                    | 70.7                 | 130.1                          | 18,600                     |
| 55                    | 68.4                 | 128.2                          | 6,100                      |



**999**

**SERIES 2**

# Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code

Boom No. 82

Luffing Jib No. 149

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

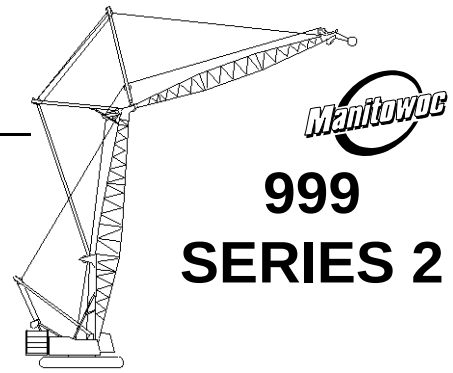
360 Degree Rating

Meets  
ANSI B30.5  
Requirements

## 200 Ft. Luffing Jib, Attached At 168 Degree Boom To Luffing Jib Angle

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>140 Ft. BOOM</b>   |                      |                                |                            |
| 26                    | 82.3                 | 146.6                          | 189,600                    |
| 28                    | 81.5                 | 146.3                          | 158,200                    |
| 30                    | 80.6                 | 145.9                          | 133,100                    |
| 32                    | 79.8                 | 145.5                          | 112,600                    |
| 34                    | 79.0                 | 145.1                          | 95,500                     |
| 36                    | 78.1                 | 144.7                          | 81,100                     |
| 38                    | 77.3                 | 144.2                          | 68,700                     |
| 40                    | 76.4                 | 143.7                          | 58,000                     |
| 42                    | 75.6                 | 143.2                          | 48,600                     |
| 44                    | 74.7                 | 142.6                          | 40,300                     |
| 46                    | 73.9                 | 142.0                          | 33,000                     |
| 48                    | 73.0                 | 141.4                          | 26,400                     |
| 50                    | 72.2                 | 140.7                          | 20,500                     |
| 55                    | 70.0                 | 138.9                          | 8,000                      |
| <b>150 Ft. BOOM</b>   |                      |                                |                            |
| 26                    | 82.8                 | 156.7                          | 191,500                    |
| 28                    | 82.0                 | 156.4                          | 160,000                    |
| 30                    | 81.3                 | 156.1                          | 134,800                    |
| 32                    | 80.5                 | 155.7                          | 114,200                    |
| 34                    | 79.7                 | 155.3                          | 97,000                     |
| 36                    | 78.9                 | 154.9                          | 82,500                     |
| 38                    | 78.2                 | 154.5                          | 70,100                     |
| 40                    | 77.4                 | 154.0                          | 59,300                     |
| 42                    | 76.6                 | 153.5                          | 49,900                     |
| 44                    | 75.8                 | 153.0                          | 41,600                     |
| 46                    | 75.0                 | 152.5                          | 34,300                     |

| 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                    | 82.5                 | 166.5                          | 161,600                    |
| 30                    | 81.8                 | 166.2                          | 136,400                    |
| 32                    | 81.1                 | 165.9                          | 115,700                    |
| 34                    | 80.4                 | 165.5                          | 98,500                     |
| 36                    | 79.6                 | 165.1                          | 84,000                     |
| 38                    | 78.9                 | 164.7                          | 71,500                     |
| 40                    | 78.2                 | 164.3                          | 60,700                     |
| 42                    | 77.4                 | 163.8                          | 51,300                     |
| 44                    | 76.7                 | 163.3                          | 43,000                     |
| 46                    | 76.0                 | 162.8                          | 35,600                     |
| 48                    | 75.2                 | 162.3                          | 29,000                     |
| <b>170 Ft. BOOM</b>   |                      |                                |                            |
| 28                    | 83.0                 | 176.6                          | 163,100                    |
| 30                    | 82.3                 | 176.3                          | 137,700                    |
| 32                    | 81.6                 | 176.0                          | 117,000                    |
| 34                    | 80.9                 | 175.7                          | 99,800                     |
| 36                    | 80.3                 | 175.3                          | 85,200                     |
| 38                    | 79.6                 | 174.9                          | 72,700                     |
| 40                    | 78.9                 | 174.5                          | 61,900                     |
| 42                    | 78.2                 | 174.1                          | 52,400                     |
| 44                    | 77.5                 | 173.6                          | 44,100                     |
| 46                    | 76.8                 | 173.1                          | 36,700                     |
| 48                    | 76.1                 | 172.6                          | 30,000                     |
| 50                    | 75.4                 | 172.1                          | 24,100                     |



# Liftcrane Boom Capacities With Luffing Jib Attached

**999  
SERIES 2**

New York City Code  
Boom No. 82  
Luffing Jib No. 149  
184,600 Lb. Crane Counterweight  
44,000 Lb. Carbody Counterweight  
360 Degree Rating

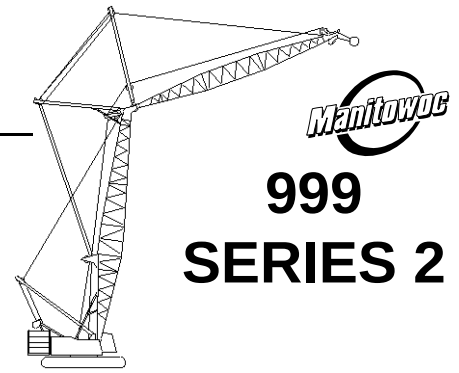
Meets  
ANSI B30.5  
Requirements

## 210 Ft. Luffing Jib, Attached At 168 Degree Boom To Luffing Jib Angle

| 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>    |                      |                                |                            |
| 17                    | 83.0                 | 87.3                           | 342,600 *                  |
| 18                    | 82.3                 | 87.1                           | 336,900 *                  |
| 19                    | 81.5                 | 87.0                           | 323,000 *                  |
| 20                    | 80.8                 | 86.8                           | 304,400 *                  |
| 22                    | 79.3                 | 86.4                           | 248,500                    |
| 24                    | 77.9                 | 85.9                           | 196,500                    |
| 26                    | 76.4                 | 85.4                           | 157,600                    |
| 28                    | 74.9                 | 84.8                           | 127,400                    |
| 30                    | 73.4                 | 84.2                           | 103,300                    |
| 32                    | 71.9                 | 83.5                           | 83,500                     |
| 34                    | 70.4                 | 82.7                           | 67,100                     |
| 36                    | 68.8                 | 81.9                           | 53,200                     |
| 38                    | 67.3                 | 81.1                           | 41,400                     |
| 40                    | 65.7                 | 80.1                           | 31,100                     |
| <b>90 Ft. BOOM</b>    |                      |                                |                            |
| 19                    | 82.5                 | 97.1                           | 324,800 *                  |
| 20                    | 81.8                 | 96.9                           | 306,300 *                  |
| 22                    | 80.5                 | 96.6                           | 255,500                    |
| 24                    | 79.2                 | 96.2                           | 203,200                    |
| 26                    | 77.9                 | 95.7                           | 164,100                    |
| 28                    | 76.6                 | 95.2                           | 133,700                    |
| 30                    | 75.3                 | 94.6                           | 109,400                    |
| 32                    | 74.0                 | 94.0                           | 89,500                     |
| 34                    | 72.6                 | 93.4                           | 73,000                     |
| 36                    | 71.3                 | 92.7                           | 59,000                     |
| 38                    | 69.9                 | 91.9                           | 47,000                     |
| 40                    | 68.6                 | 91.1                           | 36,700                     |
| 42                    | 67.2                 | 90.2                           | 27,600                     |
| 44                    | 65.8                 | 89.3                           | 19,700                     |

| 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>   |                      |                                |                            |
| 20                    | 82.7                 | 107.0                          | 275,100 *                  |
| 22                    | 81.5                 | 106.7                          | 261,300                    |
| 24                    | 80.3                 | 106.4                          | 208,800                    |
| 26                    | 79.2                 | 105.9                          | 169,500                    |
| 28                    | 78.0                 | 105.5                          | 138,900                    |
| 30                    | 76.8                 | 105.0                          | 114,500                    |
| 32                    | 75.6                 | 104.5                          | 94,600                     |
| 34                    | 74.4                 | 103.9                          | 78,000                     |
| 36                    | 73.2                 | 103.3                          | 63,900                     |
| 38                    | 72.0                 | 102.6                          | 51,900                     |
| 40                    | 70.8                 | 101.9                          | 41,500                     |
| 42                    | 69.6                 | 101.1                          | 32,400                     |
| 44                    | 68.3                 | 100.3                          | 24,400                     |
| 46                    | 67.1                 | 99.4                           | 17,300                     |
| 48                    | 65.8                 | 98.5                           | 10,900                     |
| <b>110 Ft. BOOM</b>   |                      |                                |                            |
| 22                    | 82.3                 | 116.9                          | 248,300 *                  |
| 24                    | 81.2                 | 116.5                          | 213,000                    |
| 26                    | 80.2                 | 116.2                          | 173,500                    |
| 28                    | 79.1                 | 115.7                          | 142,800                    |
| 30                    | 78.0                 | 115.3                          | 118,300                    |
| 32                    | 77.0                 | 114.8                          | 98,300                     |
| 34                    | 75.9                 | 114.3                          | 81,600                     |
| 36                    | 74.8                 | 113.7                          | 67,500                     |
| 38                    | 73.7                 | 113.1                          | 55,400                     |
| 40                    | 72.6                 | 112.5                          | 44,900                     |
| 42                    | 71.5                 | 111.8                          | 35,800                     |
| 44                    | 70.4                 | 111.0                          | 27,700                     |
| 46                    | 69.3                 | 110.3                          | 20,600                     |
| 48                    | 68.2                 | 109.4                          | 14,200                     |
| 50                    | 67.0                 | 108.6                          | 8,400                      |

| 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                    | 82.9                 | 127.0                          | 243,700 *                  |
| 24                    | 82.0                 | 126.7                          | 216,800                    |
| 26                    | 81.0                 | 126.3                          | 177,100                    |
| 28                    | 80.0                 | 125.9                          | 146,300                    |
| 30                    | 79.1                 | 125.5                          | 121,700                    |
| 32                    | 78.1                 | 125.1                          | 101,600                    |
| 34                    | 77.1                 | 124.6                          | 84,800                     |
| 36                    | 76.1                 | 124.1                          | 70,700                     |
| 38                    | 75.1                 | 123.5                          | 58,600                     |
| 40                    | 74.1                 | 123.0                          | 48,100                     |
| 42                    | 73.1                 | 122.3                          | 38,900                     |
| 44                    | 72.1                 | 121.7                          | 30,800                     |
| 46                    | 71.1                 | 121.0                          | 23,600                     |
| 48                    | 70.1                 | 120.2                          | 17,200                     |
| 50                    | 69.1                 | 119.4                          | 11,400                     |
| <b>130 Ft. BOOM</b>   |                      |                                |                            |
| 24                    | 82.6                 | 136.8                          | 219,900                    |
| 26                    | 81.7                 | 136.5                          | 180,100                    |
| 28                    | 80.8                 | 136.1                          | 149,200                    |
| 30                    | 79.9                 | 135.7                          | 124,500                    |
| 32                    | 79.0                 | 135.3                          | 104,300                    |
| 34                    | 78.1                 | 134.9                          | 87,500                     |
| 36                    | 77.2                 | 134.4                          | 73,300                     |
| 38                    | 76.3                 | 133.9                          | 61,200                     |
| 40                    | 75.4                 | 133.4                          | 50,600                     |
| 42                    | 74.5                 | 132.8                          | 41,400                     |
| 44                    | 73.5                 | 132.2                          | 33,300                     |
| 46                    | 72.6                 | 131.5                          | 26,100                     |
| 48                    | 71.7                 | 130.9                          | 19,600                     |
| 50                    | 70.7                 | 130.1                          | 13,800                     |



# Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code  
Boom No. 82  
Luffing Jib No. 149  
184,600 Lb. Crane Counterweight  
44,000 Lb. Carbody Counterweight  
360 Degree Rating

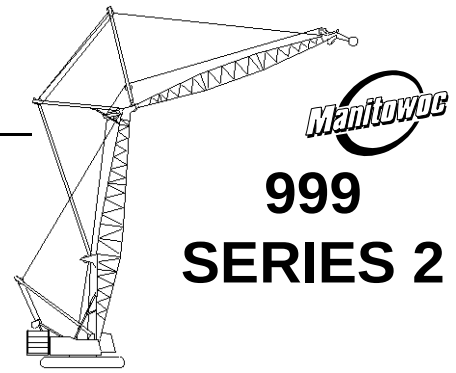
Meets  
ANSI B30.5  
Requirements

**999  
SERIES 2**

## 210 Ft. Luffing Jib, Attached At 168 Degree Boom To Luffing Jib Angle

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>140 Ft. BOOM</b>   |                      |                                |                            |
| 26                    | 82.3                 | 146.6                          | 182,700                    |
| 28                    | 81.5                 | 146.3                          | 151,700                    |
| 30                    | 80.6                 | 145.9                          | 127,000                    |
| 32                    | 79.8                 | 145.5                          | 106,700                    |
| 34                    | 79.0                 | 145.1                          | 89,900                     |
| 36                    | 78.1                 | 144.7                          | 75,600                     |
| 38                    | 77.3                 | 144.2                          | 63,400                     |
| 40                    | 76.4                 | 143.7                          | 52,800                     |
| 42                    | 75.6                 | 143.2                          | 43,600                     |
| <b>150 Ft. BOOM</b>   |                      |                                |                            |
| 26                    | 82.8                 | 156.7                          | 184,800                    |
| 28                    | 82.0                 | 156.4                          | 153,700                    |
| 30                    | 81.3                 | 156.1                          | 128,800                    |
| 32                    | 80.5                 | 155.7                          | 108,500                    |
| 34                    | 79.7                 | 155.3                          | 91,600                     |
| 36                    | 78.9                 | 154.9                          | 77,200                     |
| 38                    | 78.2                 | 154.5                          | 65,000                     |
| 40                    | 77.4                 | 154.0                          | 54,400                     |
| 42                    | 76.6                 | 153.5                          | 45,100                     |
| 44                    | 75.8                 | 153.0                          | 36,900                     |
| 46                    | 75.0                 | 152.5                          | 29,600                     |

| 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                    | 82.5                 | 166.5                          | 155,500                    |
| 30                    | 81.8                 | 166.2                          | 130,500                    |
| 32                    | 81.1                 | 165.9                          | 110,100                    |
| 34                    | 80.4                 | 165.5                          | 93,200                     |
| 36                    | 79.6                 | 165.1                          | 78,800                     |
| 38                    | 78.9                 | 164.7                          | 66,500                     |
| 40                    | 78.2                 | 164.3                          | 55,900                     |
| 42                    | 77.4                 | 163.8                          | 46,600                     |
| 44                    | 76.7                 | 163.3                          | 38,400                     |
| 46                    | 76.0                 | 162.8                          | 31,100                     |
| 48                    | 75.2                 | 162.3                          | 24,600                     |
| <b>170 Ft. BOOM</b>   |                      |                                |                            |
| 28                    | 83.0                 | 176.6                          | 157,000                    |
| 30                    | 82.3                 | 176.3                          | 132,000                    |
| 32                    | 81.6                 | 176.0                          | 111,600                    |
| 34                    | 80.9                 | 175.7                          | 94,500                     |
| 36                    | 80.3                 | 175.3                          | 80,200                     |



# Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code  
Boom No. 82  
Luffing Jib No. 149  
184,600 Lb. Crane Counterweight  
44,000 Lb. Carbody Counterweight  
360 Degree Rating

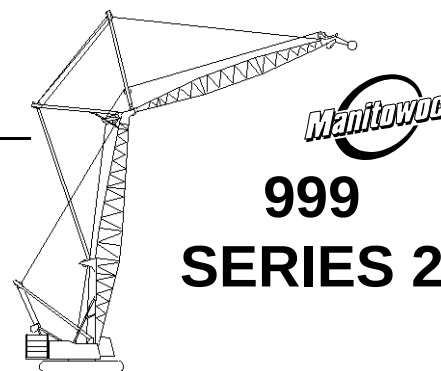
Meets  
ANSI B30.5  
Requirements

## 220 Ft. Luffing Jib, Attached At 168 Degree Boom To Luffing Jib Angle

| 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>    |                      |                                |                            |
| 17                    | 83.0                 | 87.3                           | 335,600 *                  |
| 18                    | 82.3                 | 87.1                           | 329,800 *                  |
| 19                    | 81.5                 | 87.0                           | 317,900 *                  |
| 20                    | 80.8                 | 86.8                           | 299,400 *                  |
| 22                    | 79.3                 | 86.4                           | 237,600                    |
| 24                    | 77.9                 | 85.9                           | 186,400                    |
| 26                    | 76.4                 | 85.4                           | 148,100                    |
| 28                    | 74.9                 | 84.8                           | 118,300                    |
| 30                    | 73.4                 | 84.2                           | 94,500                     |
| 32                    | 71.9                 | 83.5                           | 75,100                     |
| 34                    | 70.4                 | 82.7                           | 58,900                     |
| 36                    | 68.8                 | 81.9                           | 45,300                     |
| 38                    | 67.3                 | 81.1                           | 33,600                     |
| 40                    | 65.7                 | 80.1                           | 23,500                     |
| <b>90 Ft. BOOM</b>    |                      |                                |                            |
| 19                    | 82.5                 | 97.1                           | 319,900 *                  |
| 20                    | 81.8                 | 96.9                           | 301,500 *                  |
| 22                    | 80.5                 | 96.6                           | 245,200                    |
| 24                    | 79.2                 | 96.2                           | 193,600                    |
| 26                    | 77.9                 | 95.7                           | 155,000                    |
| 28                    | 76.6                 | 95.2                           | 125,000                    |
| 30                    | 75.3                 | 94.6                           | 101,100                    |
| 32                    | 74.0                 | 94.0                           | 81,500                     |
| 34                    | 72.6                 | 93.4                           | 65,200                     |
| 36                    | 71.3                 | 92.7                           | 51,500                     |
| 38                    | 69.9                 | 91.9                           | 39,700                     |
| 40                    | 68.6                 | 91.1                           | 29,500                     |
| 42                    | 67.2                 | 90.2                           | 20,600                     |
| 44                    | 65.8                 | 89.3                           | 12,800                     |
| <b>100 Ft. BOOM</b>   |                      |                                |                            |
| 20                    | 82.7                 | 107.0                          | 269,000 *                  |
| 22                    | 81.5                 | 106.7                          | 251,300                    |
| 24                    | 80.3                 | 106.4                          | 199,500                    |
| 26                    | 79.2                 | 105.9                          | 160,800                    |
| 28                    | 78.0                 | 105.5                          | 130,700                    |
| 30                    | 76.8                 | 105.0                          | 106,600                    |
| 32                    | 75.6                 | 104.5                          | 87,000                     |
| 34                    | 74.4                 | 103.9                          | 70,600                     |

| 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>   |                      |                                |                            |
| 36                    | 73.2                 | 103.3                          | 56,800                     |
| 38                    | 72.0                 | 102.6                          | 45,000                     |
| 40                    | 70.8                 | 101.9                          | 34,700                     |
| 42                    | 69.6                 | 101.1                          | 25,800                     |
| 44                    | 68.3                 | 100.3                          | 17,900                     |
| 46                    | 67.1                 | 99.4                           | 10,900                     |
| 48                    | 65.8                 | 98.5                           | 4,600                      |
| <b>110 Ft. BOOM</b>   |                      |                                |                            |
| 22                    | 82.3                 | 116.9                          | 242,700 *                  |
| 24                    | 81.2                 | 116.5                          | 204,100                    |
| 26                    | 80.2                 | 116.2                          | 165,100                    |
| 28                    | 79.1                 | 115.7                          | 134,900                    |
| 30                    | 78.0                 | 115.3                          | 110,700                    |
| 32                    | 77.0                 | 114.8                          | 91,000                     |
| 34                    | 75.9                 | 114.3                          | 74,500                     |
| 36                    | 74.8                 | 113.7                          | 60,600                     |
| 38                    | 73.7                 | 113.1                          | 48,700                     |
| 40                    | 72.6                 | 112.5                          | 38,400                     |
| 42                    | 71.5                 | 111.8                          | 29,400                     |
| 44                    | 70.4                 | 111.0                          | 21,500                     |
| 46                    | 69.3                 | 110.3                          | 14,400                     |
| 48                    | 68.2                 | 109.4                          | 8,100                      |
| <b>120 Ft. BOOM</b>   |                      |                                |                            |
| 22                    | 82.9                 | 127.0                          | 238,500 *                  |
| 24                    | 82.0                 | 126.7                          | 208,100                    |
| 26                    | 81.0                 | 126.3                          | 169,000                    |
| 28                    | 80.0                 | 125.9                          | 138,600                    |
| 30                    | 79.1                 | 125.5                          | 114,400                    |
| 32                    | 78.1                 | 125.1                          | 94,500                     |
| 34                    | 77.1                 | 124.6                          | 78,000                     |
| 36                    | 76.1                 | 124.1                          | 64,100                     |
| 38                    | 75.1                 | 123.5                          | 52,100                     |
| 40                    | 74.1                 | 123.0                          | 41,800                     |
| 42                    | 73.1                 | 122.3                          | 32,800                     |
| 44                    | 72.1                 | 121.7                          | 24,800                     |
| 46                    | 71.1                 | 121.0                          | 17,700                     |
| 48                    | 70.1                 | 120.2                          | 11,400                     |

| 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>   |                      |                                |                            |
| 24                    | 82.6                 | 136.8                          | 211,500                    |
| 26                    | 81.7                 | 136.5                          | 172,200                    |
| 28                    | 80.8                 | 136.1                          | 141,700                    |
| 30                    | 79.9                 | 135.7                          | 117,400                    |
| 32                    | 79.0                 | 135.3                          | 97,500                     |
| 34                    | 78.1                 | 134.9                          | 80,900                     |
| 36                    | 77.2                 | 134.4                          | 66,900                     |
| 38                    | 76.3                 | 133.9                          | 54,900                     |
| 40                    | 75.4                 | 133.4                          | 44,600                     |
| 42                    | 74.5                 | 132.8                          | 35,500                     |
| 44                    | 73.5                 | 132.2                          | 27,500                     |
| 46                    | 72.6                 | 131.5                          | 20,400                     |
| 48                    | 71.7                 | 130.9                          | 14,000                     |
| 50                    | 70.7                 | 130.1                          | 8,300                      |
| <b>140 Ft. BOOM</b>   |                      |                                |                            |
| 26                    | 82.3                 | 146.6                          | 175,000                    |
| 28                    | 81.5                 | 146.3                          | 144,500                    |
| 30                    | 80.6                 | 145.9                          | 120,000                    |
| 32                    | 79.8                 | 145.5                          | 100,100                    |
| 34                    | 79.0                 | 145.1                          | 83,500                     |
| 36                    | 78.1                 | 144.7                          | 69,400                     |
| 38                    | 77.3                 | 144.2                          | 57,400                     |
| 40                    | 76.4                 | 143.7                          | 47,000                     |
| 42                    | 75.6                 | 143.2                          | 37,900                     |



# Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code

Boom No. 82

Luffing Jib No. 149

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

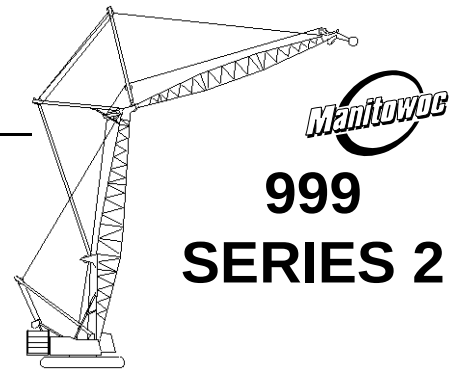
360 Degree Rating

Meets  
ANSI B30.5  
Requirements

## 230 Ft. Luffing Jib, Attached At 168 Degree Boom To Luffing Jib Angle

| 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>    |                      |                                |                            |
| 17                    | 83.0                 | 87.3                           | 329,600 *                  |
| 18                    | 82.3                 | 87.1                           | 323,600 *                  |
| 19                    | 81.5                 | 87.0                           | 313,700 *                  |
| 20                    | 80.8                 | 86.8                           | 295,300 *                  |
| 22                    | 79.3                 | 86.4                           | 228,100                    |
| 24                    | 77.9                 | 85.9                           | 177,700                    |
| 26                    | 76.4                 | 85.4                           | 139,900                    |
| 28                    | 74.9                 | 84.8                           | 110,600                    |
| 30                    | 73.4                 | 84.2                           | 87,100                     |
| 32                    | 71.9                 | 83.5                           | 68,000                     |
| 34                    | 70.4                 | 82.7                           | 52,100                     |
| 36                    | 68.8                 | 81.9                           | 38,700                     |
| 38                    | 67.3                 | 81.1                           | 27,200                     |
| 40                    | 65.7                 | 80.1                           | 17,200                     |
| <b>90 Ft. BOOM</b>    |                      |                                |                            |
| 19                    | 82.5                 | 97.1                           | 315,900 *                  |
| 20                    | 81.8                 | 96.9                           | 297,500 *                  |
| 22                    | 80.5                 | 96.6                           | 236,100                    |
| 24                    | 79.2                 | 96.2                           | 185,300                    |
| 26                    | 77.9                 | 95.7                           | 147,200                    |
| 28                    | 76.6                 | 95.2                           | 117,700                    |
| 30                    | 75.3                 | 94.6                           | 94,100                     |
| 32                    | 74.0                 | 94.0                           | 74,900                     |
| 34                    | 72.6                 | 93.4                           | 58,800                     |
| 36                    | 71.3                 | 92.7                           | 45,300                     |
| 38                    | 69.9                 | 91.9                           | 33,700                     |
| 40                    | 68.6                 | 91.1                           | 23,700                     |
| 42                    | 67.2                 | 90.2                           | 14,900                     |
| 44                    | 65.8                 | 89.3                           | 7,200                      |
| <b>100 Ft. BOOM</b>   |                      |                                |                            |
| 20                    | 82.7                 | 107.0                          | 263,600 *                  |
| 22                    | 81.5                 | 106.7                          | 242,600                    |
| 24                    | 80.3                 | 106.4                          | 191,600                    |
| 26                    | 79.2                 | 105.9                          | 153,400                    |
| 28                    | 78.0                 | 105.5                          | 123,700                    |
| 30                    | 76.8                 | 105.0                          | 100,000                    |
| 32                    | 75.6                 | 104.5                          | 80,700                     |
| 34                    | 74.4                 | 103.9                          | 64,500                     |
| 36                    | 73.2                 | 103.3                          | 50,900                     |
| 38                    | 72.0                 | 102.6                          | 39,300                     |
| 40                    | 70.8                 | 101.9                          | 29,200                     |
| 42                    | 69.6                 | 101.1                          | 20,400                     |
| 44                    | 68.3                 | 100.3                          | 12,600                     |
| 46                    | 67.1                 | 99.4                           | 5,700                      |

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>110 Ft. BOOM</b>   |                      |                                |                            |
| 22                    | 82.3                 | 116.9                          | 237,800 *                  |
| 24                    | 81.2                 | 116.5                          | 196,500                    |
| 26                    | 80.2                 | 116.2                          | 158,000                    |
| 28                    | 79.1                 | 115.7                          | 128,200                    |
| 30                    | 78.0                 | 115.3                          | 104,400                    |
| 32                    | 77.0                 | 114.8                          | 84,900                     |
| 34                    | 75.9                 | 114.3                          | 68,700                     |
| 36                    | 74.8                 | 113.7                          | 55,000                     |
| 38                    | 73.7                 | 113.1                          | 43,300                     |
| 40                    | 72.6                 | 112.5                          | 33,200                     |
| 42                    | 71.5                 | 111.8                          | 24,300                     |
| 44                    | 70.4                 | 111.0                          | 16,500                     |
| <b>120 Ft. BOOM</b>   |                      |                                |                            |
| 22                    | 82.9                 | 127.0                          | 234,000 *                  |
| 24                    | 82.0                 | 126.7                          | 200,700                    |
| 26                    | 81.0                 | 126.3                          | 162,100                    |
| 28                    | 80.0                 | 125.9                          | 132,200                    |
| 30                    | 79.1                 | 125.5                          | 108,300                    |
| 32                    | 78.1                 | 125.1                          | 88,700                     |
| 34                    | 77.1                 | 124.6                          | 72,500                     |
| 36                    | 76.1                 | 124.1                          | 58,700                     |
| 38                    | 75.1                 | 123.5                          | 47,000                     |
| 40                    | 74.1                 | 123.0                          | 36,800                     |
| 42                    | 73.1                 | 122.3                          | 27,900                     |
| 44                    | 72.1                 | 121.7                          | 20,000                     |
| 46                    | 71.1                 | 121.0                          | 13,100                     |
| 48                    | 70.1                 | 120.2                          | 6,800                      |
| <b>130 Ft. BOOM</b>   |                      |                                |                            |
| 24                    | 82.6                 | 136.8                          | 204,200                    |
| 26                    | 81.7                 | 136.5                          | 165,600                    |
| 28                    | 80.8                 | 136.1                          | 135,500                    |
| 30                    | 79.9                 | 135.7                          | 111,500                    |
| 32                    | 79.0                 | 135.3                          | 91,900                     |
| 34                    | 78.1                 | 134.9                          | 75,600                     |
| 36                    | 77.2                 | 134.4                          | 61,800                     |
| 38                    | 76.3                 | 133.9                          | 50,000                     |
| 40                    | 75.4                 | 133.4                          | 39,700                     |



# Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code

Boom No. 82

Luffing Jib No. 149

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

Meets  
ANSI B30.5  
Requirements

## 240 Ft. Luffing Jib, Attached At 168 Degree Boom To Luffing Jib Angle

| 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>    |                      |                                |                            |
| 17                    | 83.0                 | 87.3                           | 322,300 *                  |
| 18                    | 82.3                 | 87.1                           | 316,200 *                  |
| 19                    | 81.5                 | 87.0                           | 308,500 *                  |
| 20                    | 80.8                 | 86.8                           | 286,500                    |
| 22                    | 79.3                 | 86.4                           | 216,700                    |
| 24                    | 77.9                 | 85.9                           | 167,000                    |
| 26                    | 76.4                 | 85.4                           | 129,900                    |
| 28                    | 74.9                 | 84.8                           | 101,000                    |
| 30                    | 73.4                 | 84.2                           | 78,000                     |
| 32                    | 71.9                 | 83.5                           | 59,200                     |
| 34                    | 70.4                 | 82.7                           | 43,500                     |
| 36                    | 68.8                 | 81.9                           | 30,300                     |
| 38                    | 67.3                 | 81.1                           | 19,000                     |
| 40                    | 65.7                 | 80.1                           | 9,300                      |
| <b>90 Ft. BOOM</b>    |                      |                                |                            |
| 19                    | 82.5                 | 97.1                           | 310,800 *                  |
| 20                    | 81.8                 | 96.9                           | 292,500 *                  |
| 22                    | 80.5                 | 96.6                           | 225,200                    |
| 24                    | 79.2                 | 96.2                           | 175,200                    |
| 26                    | 77.9                 | 95.7                           | 137,700                    |
| 28                    | 76.6                 | 95.2                           | 108,700                    |
| 30                    | 75.3                 | 94.6                           | 85,500                     |
| 32                    | 74.0                 | 94.0                           | 66,500                     |
| 34                    | 72.6                 | 93.4                           | 50,800                     |
| 36                    | 71.3                 | 92.7                           | 37,400                     |
| 38                    | 69.9                 | 91.9                           | 26,100                     |
| 40                    | 68.6                 | 91.1                           | 16,200                     |
| 42                    | 67.2                 | 90.2                           | 7,600                      |
| <b>100 Ft. BOOM</b>   |                      |                                |                            |
| 20                    | 82.7                 | 107.0                          | 257,200 *                  |
| 22                    | 81.5                 | 106.7                          | 232,200                    |
| 24                    | 80.3                 | 106.4                          | 181,900                    |
| 26                    | 79.2                 | 105.9                          | 144,300                    |
| 28                    | 78.0                 | 105.5                          | 115,100                    |
| 30                    | 76.8                 | 105.0                          | 91,800                     |
| 32                    | 75.6                 | 104.5                          | 72,700                     |
| 34                    | 74.4                 | 103.9                          | 56,900                     |
| 36                    | 73.2                 | 103.3                          | 43,500                     |
| 38                    | 72.0                 | 102.6                          | 32,000                     |
| 40                    | 70.8                 | 101.9                          | 22,100                     |
| 42                    | 69.6                 | 101.1                          | 13,400                     |
| 44                    | 68.3                 | 100.3                          | 5,800                      |

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>110 Ft. BOOM</b>   |                      |                                |                            |
| 22                    | 82.3                 | 116.9                          | 231,800 *                  |
| 24                    | 81.2                 | 116.5                          | 187,100                    |
| 26                    | 80.2                 | 116.2                          | 149,300                    |
| 28                    | 79.1                 | 115.7                          | 119,900                    |
| 30                    | 78.0                 | 115.3                          | 96,500                     |
| 32                    | 77.0                 | 114.8                          | 77,300                     |
| 34                    | 75.9                 | 114.3                          | 61,400                     |
| 36                    | 74.8                 | 113.7                          | 47,900                     |
| 38                    | 73.7                 | 113.1                          | 36,400                     |
| 40                    | 72.6                 | 112.5                          | 26,400                     |
| 42                    | 71.5                 | 111.8                          | 17,700                     |
| 44                    | 70.4                 | 111.0                          | 10,000                     |
| <b>120 Ft. BOOM</b>   |                      |                                |                            |
| 22                    | 82.9                 | 127.0                          | 228,600 *                  |
| 24                    | 82.0                 | 126.7                          | 191,600                    |
| 26                    | 81.0                 | 126.3                          | 153,600                    |
| 28                    | 80.0                 | 125.9                          | 124,200                    |
| 30                    | 79.1                 | 125.5                          | 100,600                    |
| 32                    | 78.1                 | 125.1                          | 81,400                     |
| 34                    | 77.1                 | 124.6                          | 65,400                     |
| 36                    | 76.1                 | 124.1                          | 51,900                     |
| 38                    | 75.1                 | 123.5                          | 40,300                     |