



# LIFTCRANE CAPACITIES

# 3900 CRAWLER

## BOOM NO. 8 WITH OPEN THROAT TOP 74,000 LB. COUNTERWEIGHT

**LIFTING CAPACITIES:** Capacities for various boom lengths and operating radii may be based on per cent of tipping, strength of structural components, operating speeds and other factors.

Capacities are for freely suspended loads and do not exceed **75%** of a static load required to tip machine with boom across crawlers. Capacities based on structural competence are shown by shaded areas.

Capacities are shown in pounds. Weight of jib, (see chart A), all load blocks, hooks, weight ball, slings, hoist lines beneath boom and jib point sheaves, etc., is considered part of the main boom load. Boom is not to be lowered beyond radii where combined weights are greater than rated capacity. Where no capacity is shown, operation is not intended or approved.

**OPERATING CONDITIONS:** Machine to operate in level position on a firm surface with gantry in working position and under conditions referred to in rigging drawing No. 42925, No. 43258, No. 48029, or No. 48237, and load line specification chart No. 4899.

Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, travel, as well as adverse operating conditions & physical machine depreciation.

**OPERATING RADIUS:** Operating radius is the horizontal distance from the axis of rotation to the center of vertical hoist line or load block with the load freely suspended. Add 11" to boom point radius for radius of sheave when using single part hoist line.

Boom angle is the 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, in feet, is the vertical distance from ground level to centerline of boom point shaft.

**MACHINE EQUIPMENT:** Machine equipped with 20'-4" crawlers, 38" treads, 15' gantry, 10 or 12 part (No. 42925, No.

43258, No. 48029) or 10 part (No. 48237) boom hoist reeving, two 1 1/2" or 1 3/8" boom pendants, 1st cwt. 32,000 lbs., 2nd cwt. 26,500 lbs., 3rd cwt. 15,500 lbs. Total counterweight 74,000 pounds.

| HOIST REEVEING FOR MAIN LOAD BLOCK |         |         |         |        |         |         |
|------------------------------------|---------|---------|---------|--------|---------|---------|
| No. Parts of Line                  | 1       | 2       | 3       | 4      | 5       | 6       |
| Max. Load - Lbs.                   | 22,500  | 45,000  | 67,500  | 90,000 | 112,500 | 135,000 |
| No. Parts of Line                  | 7       | 8       | 9       |        |         |         |
| Max. Load - Lbs.                   | 157,500 | 180,000 | 200,000 |        |         |         |

| LOAD AND WHIP LINE SPECIFICATIONS   |  |
|---|--|
| <b>LOAD LINE:</b> 1" - 6x25 Filler Wire, Improved Plow Steel, Regular Lay, IWRC. Minimum Breaking Strength 44.9 Ton.                                      |  |
| <b>WHIP LINE:</b> 1" - 6x25 Filler Wire, Improved Plow Steel, Regular Lay, IWRC. Minimum Breaking Strength 44.9 Ton. Maximum Load - 22,500 lbs. per Line. |  |

| MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED |            |     |     |     |                       |             |            |     |     |     |     |
|--|------------|-----|-----|-----|-----------------------|-------------|------------|-----|-----|-----|-----|
| OVER FRONT OF BLOCKED CRAWLERS                 |            |     |     |     | OVER SIDE OF CRAWLERS |             |            |     |     |     |     |
| Boom Length                                    | JIB NUMBER |     |     |     |                       | Boom Length | JIB NUMBER |     |     |     |     |
|  | 104        | 113 | 121 | 123 | 124                   |             | 104        | 113 | 121 | 123 | 124 |
| 210'   |            |     |     |     |                       | 190'        |            |     |     |     |     |
| 200'   |            |     | 30' |     | 30'                   | 180'        |            |     |     |     |     |
| 190'   | 30'        | 30' | 60' |     | 30'                   | 170'        | 30'        | 30' | 60' | 30' |     |
| 180'   |            | 40' | 60' | 50' | 60'                   | 160'        |            | 40' | 60' | 60' |     |
| 170'   |            | 40' | 60' | 60' | 60'                   |             |            |     |     |     |     |

Load block, hook and weight ball on ground at start.

| (A) DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED |             |             |             |             |             |
|---|-------------|-------------|-------------|-------------|-------------|
| Jib Length                                      | Jib No. 104 | Jib No. 113 | Jib No. 121 | Jib No. 123 | Jib No. 124 |
| 30'   | 2,250 Lb.   | 2,910 Lb.   | 1,800 Lb.   | 2,500 Lb.   | 1,800 Lb.   |
| 40'   | ---         | 3,550 Lb.   | 2,050 Lb.   | 3,100 Lb.   | 2,050 Lb.   |
| 50'   | ---         | ---         | 2,300 Lb.   | 3,700 Lb.   | 2,300 Lb.   |
| 60'   | ---         | ---         | 2,500 Lb.   | 4,400 Lb.   | 2,500 Lb.   |

For jib capacities, consult jib chart.

| Boom Lgth.: Feet | Oper. Rad.: Feet | Boom Ang.: Deg. | Boom Point: Elev. | Capacity: | Boom Lgth.: Feet | Oper. Rad.: Feet | Boom Ang.: Deg. | Boom Point: Elev. | Capacity: | Boom Lgth.: Feet | Oper. Rad.: Feet | Boom Ang.: Deg. | Boom Point: Elev. | Capacity: |         |  |
|------------------|------------------|-----------------|-------------------|-----------|------------------|------------------|-----------------|-------------------|-----------|------------------|------------------|-----------------|-------------------|-----------|---------|--|
| 60               | 16               | 78.1            | 65.4              | 180,200   | 70               | 45               | 53.8            | 63.2              | 43,800    | 90               | 18               | 80.8            | 95.6              | 162,600   |         |  |
|                  | 17               | 77.1            | 65.2              | 180,200   |                  | 50               | 50              | 48.5              | 59.2      |                  | 38,100           | 19              | 80.2              | 95.4      | 148,500 |  |
|                  | 18               | 76.1            | 65.0              | 163,400   |                  | 55               | 55              | 42.8              | 54.3      |                  | 33,700           | 20              | 79.5              | 95.2      | 136,600 |  |
|                  | 19               | 75.2            | 64.7              | 149,400   |                  | 60               | 60              | 36.4              | 48.2      |                  | 30,000           | 22              | 78.2              | 94.8      | 117,600 |  |
|                  | 20               | 74.2            | 64.4              | 137,500   |                  | 65               | 65              | 28.5              | 40.4      |                  | 27,100           | 24              | 76.9              | 94.4      | 103,100 |  |
|                  |                  |                 |                   |           |                  | 70               | 70              | 18.5              | 29.0      |                  | 24,500           |                 |                   |           |         |  |
|                  | 22               | 72.2            | 63.8              | 118,600   |                  | 16               | 81.1            | 85.8              |           |                  |                  | 26              | 75.6              | 93.9      | 91,700  |  |
|                  | 24               | 70.1            | 63.2              | 104,100   |                  | 17               | 80.4            | 85.6              | 179,700   |                  | 28               | 74.2            | 93.4              | 82,400    |         |  |
|                  | 26               | 68.1            | 62.4              | 92,700    |                  | 18               | 79.6            | 85.4              | 162,900   |                  | 30               | 73.0            | 92.8              | 74,700    |         |  |
|                  | 28               | 66.0            | 61.5              | 83,400    |                  | 19               | 78.9            | 85.2              | 148,800   |                  | 32               | 71.6            | 92.1              | 68,300    |         |  |
| 30               | 63.9             | 60.6            | 75,800            | 20        | 78.2             | 85.0             | 137,000         | 34                | 70.3      | 91.4             | 62,800           |                 |                   |           |         |  |
| 70               | 32               | 61.8            | 59.6              | 69,400    | 80               | 22               | 76.7            | 84.6              | 118,000   | 100              | 36               | 68.9            | 90.7              | 58,100    |         |  |
|                  | 34               | 59.6            | 58.5              | 63,900    |                  | 24               | 75.2            | 84.1              | 103,500   |                  | 40               | 66.2            | 89.0              | 50,400    |         |  |
|                  | 36               | 57.3            | 57.2              | 59,200    |                  | 26               | 73.8            | 83.5              | 92,000    |                  | 45               | 62.6            | 86.6              | 43,000    |         |  |
|                  | 38               | 55.0            | 55.9              | 55,100    |                  | 28               | 72.3            | 82.9              | 82,800    |                  | 50               | 59.0            | 83.9              | 37,400    |         |  |
|                  | 40               | 52.7            | 54.4              | 51,500    |                  | 30               | 70.8            | 82.2              | 75,100    |                  |                  |                 |                   |           |         |  |
|                  |                  |                 |                   |           |                  | 32               | 69.2            | 81.5              | 68,700    |                  | 55               | 55.2            | 80.6              | 32,900    |         |  |
| 45               | 46.4             | 50.2            | 44,200            | 34        | 67.7             | 80.7             | 63,200          | 60                | 51.2      | 76.9             | 29,300           |                 |                   |           |         |  |
| 50               | 39.4             | 44.8            | 38,500            | 36        | 66.1             | 79.9             | 58,500          | 65                | 47.0      | 72.5             | 26,300           |                 |                   |           |         |  |
| 55               | 31.1             | 37.7            | 34,100            | 38        | 64.6             | 79.0             | 54,400          | 70                | 42.5      | 67.5             | 23,800           |                 |                   |           |         |  |
| 60               | 20.0             | 27.3            | 30,500            | 40        | 63.0             | 78.0             | 50,800          | 75                | 37.5      | 61.5             | 21,600           |                 |                   |           |         |  |
| 70               | 16               | 79.8            | 75.6              | 179,900   | 45               | 58.9             | 75.7            | 43,500            | 100       | 80               | 31.9             | 54.3            | 19,800            |           |         |  |
|                  | 17               | 79.0            | 75.4              | 173,900   | 50               | 54.6             | 71.9            | 37,800            |           | 85               | 25.3             | 45.2            | 18,200            |           |         |  |
|                  | 18               | 78.1            | 75.2              | 163,100   | 55               | 50.0             | 68.0            | 33,300            |           | 90               | 16.3             | 32.0            | 16,700            |           |         |  |
|                  | 19               | 77.3            | 75.0              | 149,100   | 60               | 45.2             | 63.5            | 29,700            |           |                  |                  |                 |                   |           |         |  |
|                  | 20               | 76.5            | 74.8              | 137,200   | 65               | 39.9             | 58.0            | 26,700            |           |                  |                  |                 |                   |           |         |  |
|                  |                  |                 |                   |           | 70               | 33.9             | 51.4            | 24,200            |           | 85               | 35.5             | 64.8            | 18,000            |           |         |  |
|                  | 22               | 74.8            | 74.3              | 118,200   | 75               | 26.9             | 42.9            | 22,100            |           | 90               | 30.3             | 57.1            | 16,600            |           |         |  |
|                  | 24               | 73.1            | 73.7              | 103,700   | 80               | 17.3             | 30.5            | 20,200            |           | 95               | 24.0             | 47.3            | 15,300            |           |         |  |
|                  | 26               | 71.4            | 73.0              | 92,300    |                  |                  |                 |                   |           | 100              | 15.5             | 33.4            | 14,200            |           |         |  |
|                  | 28               | 69.6            | 72.3              | 83,000    |                  |                  |                 |                   |           |                  |                  |                 |                   |           |         |  |
| 30               | 67.9             | 71.6            | 75,400            |           |                  |                  |                 |                   |           |                  |                  |                 |                   |           |         |  |
| 70               | 32               | 66.1            | 70.7              | 69,000    |                  |                  |                 |                   |           |                  |                  |                 |                   |           |         |  |
|                  | 34               | 64.3            | 69.8              | 63,500    |                  |                  |                 |                   |           |                  |                  |                 |                   |           |         |  |
|                  | 36               | 62.5            | 68.8              | 58,800    |                  |                  |                 |                   |           |                  |                  |                 |                   |           |         |  |
|                  | 38               | 60.6            | 67.7              | 54,700    |                  |                  |                 |                   |           |                  |                  |                 |                   |           |         |  |
|                  | 40               | 58.7            | 66.5              | 51,100    |                  |                  |                 |                   |           |                  |                  |                 |                   |           |         |  |
|                  |                  |                 |                   |           |                  |                  |                 |                   |           |                  |                  |                 |                   |           |         |  |

Capacities continued on reverse side.

# MANITOWOC ENGINEERING CO.

A Division of The Manitowoc Company, Inc. Manitowoc, Wisconsin 54220



## LIFTCRANE CAPACITIES

MEETS  
ANSI B30.5  
REQUIREMENTS

**3900**  
**CRAWLER**

### BOOM NO. 8 WITH OPEN THROAT TOP 74,000 LB. COUNTERWEIGHT

**LIFTING CAPACITIES:** Capacities for various boom lengths and operating radii are for freely suspended loads and do not exceed **75%** of a static tipping load. Capacities based on structural competence are shown by shaded areas.

Upper boom point capacity (whip line) for single part line is 22,500 lbs. (20,000 lbs. when rear auxiliary drum is used). In all cases, upper boom point capacities cannot exceed those listed for the main boom capacity.

Capacities are shown in pounds. Weight of jib, (see chart A), all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom and jib point sheaves, is to be considered part of the main boom load. Boom is not to be lowered beyond radii where combined weights are greater than rated capacity. Where no capacity is shown, operation is not intended or approved. See boom raising capability chart.

**OPERATING CONDITIONS:** Machine to operate in a level position on a firm surface with gantry in working position and be rigged in accordance with and under conditions referred to in rigging drawing No. 48029 or No. 48237 and load line specification chart No. 4899.

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.

**OPERATING RADIUS:** Operating radius is the horizontal distance from the axis of rotation to the center of vertical hoist line or load block with the load freely suspended. Add 11" to boom point radius for radius of sheave when using single part hoist line.

Boom angle is the 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, in feet, is the vertical distance from ground level to centerline of boom point shaft.

**MACHINE EQUIPMENT:** Machine equipped with 20'4" crawlers, 38" or 48" treads, 15' retractable gantry, 10 or 12 part boom hoist reeving, two 1-1/2" boom pendants, 1st cwt. = 32,000 lbs., 2nd cwt. = 26,500 lbs., 3rd cwt. = 15,500 lbs.

| No. Parts of Line   | 1       | 2       | 3       | 4       | 5       |
|---------------------|---------|---------|---------|---------|---------|
| Maximum Load - Lbs. | 22,500  | 45,000  | 67,500  | 90,000  | 112,500 |
| No. Parts of Line   | 6       | 7       | 8       | 9       |         |
| Maximum Load - Lbs. | 135,000 | 157,500 | 180,000 | 200,000 |         |

|   |
|---|
| <b>LOAD LINE:</b> 1" — 6x25 Filler Wire, Improved Plow Steel, Regular Lay, IWRC. Minimum Breaking Strength 44.9 Ton. (Approx. Weight Per Ft. in Lbs. 1.85)                                      |
| <b>WHIP LINE:</b> 1" — 6x25 Filler Wire, Improved Plow Steel, Regular Lay, IWRC. Minimum Breaking Strength 44.9 Ton. Maximum Load — 22,500 lbs. per Line. (Approx. Weight Per Ft. in Lbs. 1.85) |

| OVER FRONT OF<br>BLOCKED CRAWLERS |             |             | OVER SIDE OF<br>CRAWLERS |             |             |
|-----------------------------------|-------------|-------------|--------------------------|-------------|-------------|
| Bo. Lgth.                         | Jib No. 123 | Jib No. 124 | Bo. Lgth.                | Jib No. 123 | Jib No. 124 |
| 210'                              | ---         | ---         | 190'                     | ---         | ---         |
| 200'                              | ---         | ---         | 180'                     | ---         | 30'         |
| 190'                              | 30'         | 60'         | 170'                     | 30'         | 60'         |
| 180'                              | 50'         | 60'         | 160'                     | 60'         | 60'         |
| 170'                              | 60'         | 60'         |                          |             |             |

Load block, hook and weight ball on ground at start.

| Jib Lgth. | Jib No. 123 | Jib No. 124 |
|-----------|-------------|-------------|
| 30'       | 2,500 lb.   | 1,800 lb.   |
| 40'       | 3,100 lb.   | 2,050 lb.   |
| 50'       | 3,700 lb.   | 2,300 lb.   |
| 60'       | 4,400 lb.   | 2,500 lb.   |

For jib capacities, consult jib chart.

| Boom Lgth.: Feet | Oper. Rad.: Feet | Boom Ang.: Deg. | Boom Point: Elev. | Capacity: | Boom Lgth.: Feet | Oper. Rad.: Feet | Boom Ang.: Deg. | Boom Point: Elev. | Capacity: | Boom Lgth.: Feet | Oper. Rad.: Feet | Boom Ang.: Deg. | Boom Point: Elev. | Capacity: |        |        |        |
|------------------|------------------|-----------------|-------------------|-----------|------------------|------------------|-----------------|-------------------|-----------|------------------|------------------|-----------------|-------------------|-----------|--------|--------|--------|
| 60               | 15               | 79.1            | 65.6              | 200,000   | 70               | 40               | 58.7            | 66.5              | 51,100    | 90               | 18               | 80.8            | 95.5              | 162,600   |        |        |        |
|                  | 16               | 78.1            | 65.4              | 200,000   |                  | 45               | 53.8            | 63.1              | 43,800    |                  | 19               | 80.2            | 95.3              | 148,500   |        |        |        |
|                  | 17               | 77.1            | 65.1              | 180,200   |                  | 50               | 48.5            | 59.1              | 38,100    |                  | 20               | 79.5            | 95.2              | 136,600   |        |        |        |
|                  | 18               | 76.1            | 64.9              | 163,400   |                  | 55               | 42.8            | 54.2              | 33,700    |                  | 22               | 78.2            | 94.8              | 117,600   |        |        |        |
|                  | 19               | 75.2            | 64.7              | 149,400   |                  | 60               | 36.4            | 48.2              | 30,000    |                  | 24               | 76.9            | 94.3              | 103,100   |        |        |        |
|                  | 70               | 20              | 74.2              | 64.4      |                  | 137,500          | 65              | 28.7              | 40.3      |                  | 27,100           | 26              | 75.6              | 93.8      | 91,700 |        |        |
|                  |                  | 22              | 72.2              | 63.8      |                  | 118,600          | 70              | 18.5              | 28.9      |                  | 24,500           | 28              | 74.3              | 93.3      | 82,400 |        |        |
|                  |                  | 24              | 70.1              | 63.1      |                  | 104,100          | 16              | 81.1              | 85.7      |                  | 200,000          | 30              | 73.0              | 92.7      | 74,700 |        |        |
|                  |                  | 26              | 68.1              | 62.3      |                  | 92,700           | 17              | 80.4              | 85.5      |                  | 179,700          | 32              | 71.6              | 92.1      | 68,300 |        |        |
|                  |                  | 28              | 66.0              | 61.5      |                  | 83,400           | 18              | 79.6              | 85.4      |                  | 162,900          | 34              | 70.3              | 91.4      | 62,800 |        |        |
|                  |                  | 80              | 30                | 63.9      |                  | 60.5             | 75,800          | 19                | 78.9      |                  | 85.2             | 148,800         | 36                | 68.9      | 90.6   | 58,100 |        |
|                  |                  |                 | 32                | 61.8      |                  | 59.5             | 69,400          | 20                | 78.2      |                  | 85.0             | 137,000         | 38                | 67.5      | 89.8   | 54,000 |        |
|                  |                  |                 | 34                | 59.6      |                  | 58.4             | 63,900          | 22                | 76.7      |                  | 84.5             | 118,000         | 40                | 66.2      | 89.0   | 50,400 |        |
|                  |                  |                 | 36                | 57.3      |                  | 57.2             | 59,200          | 24                | 75.2      |                  | 84.0             | 103,500         | 45                | 62.6      | 86.6   | 43,000 |        |
|                  |                  |                 | 38                | 55.0      |                  | 55.8             | 55,100          | 26                | 73.8      |                  | 83.5             | 92,000          | 50                | 59.0      | 83.8   | 37,400 |        |
|                  |                  |                 | 90                | 40        |                  | 52.7             | 54.4            | 51,500            | 28        |                  | 72.3             | 82.9            | 82,800            | 55        | 55.2   | 80.6   | 32,900 |
|                  |                  |                 |                   | 45        |                  | 46.4             | 50.1            | 44,200            | 30        |                  | 70.8             | 82.2            | 75,100            | 60        | 51.2   | 76.8   | 29,300 |
|                  |                  |                 |                   | 50        |                  | 39.4             | 44.7            | 38,500            | 32        |                  | 69.2             | 81.5            | 68,700            | 65        | 47.0   | 72.5   | 26,300 |
|                  |                  |                 |                   | 55        |                  | 31.1             | 37.6            | 34,100            | 34        |                  | 67.7             | 80.7            | 63,200            | 70        | 42.5   | 67.4   | 23,800 |
| 60               |                  |                 |                   | 20.0      | 27.2             | 30,500           | 36              | 66.1              | 79.8      | 58,500           | 75               | 37.5            | 61.5              | 21,600    |        |        |        |
| 100              |                  |                 |                   | 15        | 80.6             | 75.7             | 200,000         | 38                | 64.6      | 78.9             | 54,400           | 80              | 35.5              | 64.8      | 18,000 |        |        |
|                  |                  |                 |                   | 16        | 79.8             | 75.6             | 200,000         | 40                | 63.0      | 77.9             | 50,800           | 85              | 25.3              | 45.1      | 18,200 |        |        |
|                  |                  |                 |                   | 17        | 79.0             | 75.4             | 179,900         | 45                | 58.9      | 75.1             | 43,500           | 90              | 16.3              | 31.9      | 16,700 |        |        |
|                  |                  |                 |                   | 18        | 78.1             | 75.2             | 163,100         | 50                | 54.6      | 71.8             | 37,800           |                 |                   |           |        |        |        |
|                  | 19               |                 |                   | 77.3      | 74.9             | 149,100          | 55              | 50.0              | 68.0      | 33,300           |                  |                 |                   |           |        |        |        |
|                  | 110              |                 |                   | 20        | 76.5             | 74.7             | 137,200         | 60                | 45.2      | 63.4             | 29,700           |                 |                   |           |        |        |        |
|                  |                  |                 |                   | 22        | 74.8             | 74.2             | 118,200         | 65                | 39.9      | 58.0             | 26,700           |                 |                   |           |        |        |        |
|                  |                  |                 |                   | 24        | 73.1             | 73.6             | 103,700         | 70                | 33.9      | 51.3             | 24,200           |                 |                   |           |        |        |        |
|                  |                  |                 |                   | 26        | 71.4             | 73.0             | 92,300          | 75                | 26.9      | 42.8             | 22,100           |                 |                   |           |        |        |        |
|                  |                  | 28              |                   | 69.6      | 72.3             | 83,000           | 80              | 17.3              | 30.5      | 20,200           |                  |                 |                   |           |        |        |        |
|                  |                  | 120             |                   | 30        | 67.9             | 71.5             | 75,400          |                   |           |                  |                  |                 |                   |           |        |        |        |
|                  |                  |                 |                   | 32        | 66.1             | 70.6             | 69,000          |                   |           |                  |                  |                 |                   |           |        |        |        |
|                  |                  |                 |                   | 34        | 64.3             | 69.7             | 63,500          |                   |           |                  |                  |                 |                   |           |        |        |        |
|                  |                  |                 |                   | 36        | 62.5             | 68.7             | 58,800          |                   |           |                  |                  |                 |                   |           |        |        |        |
|                  |                  |                 | 38                | 60.6      | 67.6             | 54,700           |                 |                   |           |                  |                  |                 |                   |           |        |        |        |

Capacities continued on reverse side.

Form No. 6292-A, 3-30-81/GA



# SEE CONDITIONS ON REVERSE SIDE

| 110                 |                        |                       |                         |           | 150                 |                        |                       |                         |           | 180                 |                        |                       |                         |           | 210                 |                        |                       |                         |           |
|---------------------|------------------------|-----------------------|-------------------------|-----------|---------------------|------------------------|-----------------------|-------------------------|-----------|---------------------|------------------------|-----------------------|-------------------------|-----------|---------------------|------------------------|-----------------------|-------------------------|-----------|
| Boom Lgth.:<br>Feet | Oper.<br>Rad.:<br>Feet | Boom<br>Ang.:<br>Deg. | Boom<br>Point:<br>Elev. | Capacity: | Boom Lgth.:<br>Feet | Oper.<br>Rad.:<br>Feet | Boom<br>Ang.:<br>Deg. | Boom<br>Point:<br>Elev. | Capacity: | Boom Lgth.:<br>Feet | Oper.<br>Rad.:<br>Feet | Boom<br>Ang.:<br>Deg. | Boom<br>Point:<br>Elev. | Capacity: | Boom Lgth.:<br>Feet | Oper.<br>Rad.:<br>Feet | Boom<br>Ang.:<br>Deg. | Boom<br>Point:<br>Elev. | Capacity: |
| 22                  | 80.4                   | 115.1                 | 117.200                 |           | 28                  | 80.6                   | 154.7                 | 80,800                  |           | 32                  | 80.9                   | 184.4                 | 65,700                  |           | 36                  | 81.1                   | 214.1                 | 54,600                  |           |
| 24                  | 79.3                   | 114.8                 | 102,700                 |           | 30                  | 79.9                   | 154.3                 | 73,100                  |           | 34                  | 80.3                   | 184.1                 | 60,200                  |           | 38                  | 80.6                   | 213.8                 | 50,400                  |           |
| 26                  | 78.3                   | 114.4                 | 91,200                  |           | 32                  | 79.1                   | 153.9                 | 66,600                  |           | 36                  | 79.6                   | 183.7                 | 55,500                  |           | 40                  | 80.0                   | 213.5                 | 46,800                  |           |
| 28                  | 77.2                   | 113.9                 | 82,000                  |           | 34                  | 78.3                   | 153.5                 | 61,100                  |           | 38                  | 79.0                   | 183.3                 | 51,300                  |           | 45                  | 78.6                   | 212.5                 | 39,400                  |           |
| 30                  | 76.1                   | 113.4                 | 74,300                  |           | 36                  | 77.5                   | 153.1                 | 56,400                  |           | 40                  | 78.3                   | 182.9                 | 47,700                  |           | 50                  | 77.2                   | 211.5                 | 33,700                  |           |
| 32                  | 75.1                   | 112.9                 | 67,900                  |           | 38                  | 76.8                   | 152.7                 | 52,300                  |           | 45                  | 76.7                   | 181.8                 | 40,300                  |           | 55                  | 75.8                   | 210.3                 | 29,200                  |           |
| 34                  | 74.0                   | 112.4                 | 62,400                  |           | 40                  | 76.0                   | 152.2                 | 48,600                  |           | 50                  | 75.1                   | 180.6                 | 34,600                  |           | 60                  | 74.4                   | 208.9                 | 25,500                  |           |
| 36                  | 72.9                   | 111.8                 | 57,700                  |           | 45                  | 74.0                   | 150.8                 | 41,300                  |           | 55                  | 73.4                   | 179.2                 | 30,100                  |           | 65                  | 73.0                   | 207.5                 | 22,500                  |           |
| 38                  | 71.8                   | 111.1                 | 53,500                  |           | 50                  | 72.0                   | 149.3                 | 35,600                  |           | 60                  | 71.7                   | 177.6                 | 26,500                  |           | 70                  | 71.6                   | 205.9                 | 19,900                  |           |
| 40                  | 70.7                   | 110.5                 | 49,900                  |           | 55                  | 70.0                   | 147.6                 | 31,100                  |           | 65                  | 70.1                   | 175.9                 | 23,500                  |           | 75                  | 70.1                   | 204.2                 | 17,800                  |           |
| 45                  | 67.9                   | 108.6                 | 42,600                  |           | 60                  | 67.9                   | 145.7                 | 27,500                  |           | 70                  | 68.4                   | 174.0                 | 20,900                  |           | 80                  | 68.7                   | 202.3                 | 15,900                  |           |
| 50                  | 65.1                   | 106.4                 | 36,900                  |           | 65                  | 65.8                   | 143.5                 | 24,400                  |           | 75                  | 66.6                   | 171.9                 | 18,800                  |           | 85                  | 67.2                   | 200.2                 | 14,300                  |           |
| 55                  | 62.2                   | 103.9                 | 32,400                  |           | 70                  | 63.7                   | 141.2                 | 21,900                  |           | 80                  | 64.9                   | 169.6                 | 16,900                  |           | 90                  | 65.7                   | 198.1                 | 12,800                  |           |
| 60                  | 59.2                   | 101.1                 | 28,800                  |           | 75                  | 61.6                   | 138.6                 | 19,800                  |           | 85                  | 63.1                   | 167.2                 | 15,300                  |           | 95                  | 64.2                   | 195.7                 | 11,600                  |           |
| 65                  | 56.1                   | 97.9                  | 25,800                  |           | 80                  | 59.4                   | 135.8                 | 17,900                  |           | 90                  | 61.3                   | 164.6                 | 13,800                  |           | 100                 | 62.7                   | 193.2                 | 10,400                  |           |
| 70                  | 52.9                   | 94.4                  | 23,300                  |           | 85                  | 57.1                   | 132.7                 | 16,300                  |           | 95                  | 59.5                   | 161.7                 | 12,600                  |           | 105                 | 61.1                   | 190.6                 | 9,400                   |           |
| 75                  | 49.5                   | 90.4                  | 21,100                  |           | 90                  | 54.8                   | 129.3                 | 14,800                  |           | 100                 | 57.6                   | 158.7                 | 11,400                  |           | 110                 | 59.6                   | 187.7                 | 8,500                   |           |
| 80                  | 46.0                   | 85.8                  | 19,300                  |           | 95                  | 52.5                   | 125.6                 | 13,600                  |           | 105                 | 55.7                   | 155.4                 | 10,400                  |           | 115                 | 58.0                   | 184.7                 | 7,700                   |           |
| 85                  | 42.3                   | 80.7                  | 17,600                  |           | 100                 | 50.0                   | 121.6                 | 12,400                  |           | 110                 | 53.8                   | 151.9                 | 9,500                   |           | 120                 | 56.3                   | 181.5                 | 6,900                   |           |
| 90                  | 38.3                   | 74.8                  | 16,200                  |           | 105                 | 47.5                   | 117.2                 | 11,400                  |           | 115                 | 51.8                   | 148.1                 | 8,700                   |           | 125                 | 54.7                   | 178.0                 | 6,200                   |           |
| 95                  | 33.8                   | 67.9                  | 15,000                  |           | 110                 | 44.8                   | 112.4                 | 10,500                  |           | 120                 | 49.7                   | 144.0                 | 7,900                   |           | 130                 | 53.0                   | 174.4                 | 5,600                   |           |
| 100                 | 28.8                   | 59.7                  | 13,800                  |           | 115                 | 42.1                   | 107.1                 | 9,700                   |           | 125                 | 47.6                   | 139.6                 | 7,200                   |           | 135                 | 51.3                   | 170.5                 | 5,000                   |           |
| 105                 | 22.8                   | 49.4                  | 12,800                  |           | 120                 | 39.1                   | 101.3                 | 8,900                   |           | 130                 | 45.4                   | 134.8                 | 6,600                   |           | 140                 | 49.5                   | 166.3                 | 4,400                   |           |
| 110                 | 17.8                   | 39.1                  | 8,200                   |           | 125                 | 36.0                   | 94.8                  | 8,200                   |           | 135                 | 43.1                   | 129.7                 | 6,000                   |           | 145                 | 47.7                   | 161.9                 | 3,900                   |           |
| 115                 | 12.8                   | 28.8                  | 7,600                   |           | 130                 | 32.6                   | 87.5                  | 7,600                   |           | 140                 | 40.7                   | 124.1                 | 5,400                   |           | 150                 | 45.8                   | 157.2                 | 3,500                   |           |
| 120                 | 7.8                    | 18.5                  | 7,000                   |           | 135                 | 28.9                   | 79.0                  | 7,000                   |           | 145                 | 38.2                   | 118.1                 | 4,900                   |           | 155                 | 43.9                   | 152.2                 | 3,000                   |           |
| 125                 | 2.8                    | 8.2                   | 6,500                   |           | 140                 | 24.6                   | 69.1                  | 6,500                   |           | 150                 | 35.6                   | 111.4                 | 4,500                   |           | 160                 | 41.9                   | 147.6                 | 3,200                   |           |
| 130                 | 0.8                    | 0.9                   | 6,000                   |           | 145                 | 19.5                   | 56.8                  | 6,000                   |           | 155                 | 32.8                   | 104.1                 | 4,000                   |           | 165                 | 29.7                   | 95.8                  | 3,600                   |           |
| 135                 | 0.3                    | 0.4                   | 5,500                   |           | 150                 | 14.4                   | 44.1                  | 5,500                   |           | 160                 | 29.7                   | 95.8                  | 3,600                   |           | 165                 | 26.3                   | 86.4                  | 3,200                   |           |
| 140                 | 0.1                    | 0.2                   | 5,000                   |           | 155                 | 9.3                    | 31.4                  | 5,000                   |           | 165                 | 23.6                   | 82.7                  | 3,200                   |           | 170                 | 22.1                   | 73.3                  | 2,800                   |           |
| 145                 | 0.1                    | 0.1                   | 4,500                   |           | 160                 | 4.2                    | 18.7                  | 4,500                   |           | 170                 | 18.0                   | 60.6                  | 2,800                   |           | 175                 | 17.9                   | 60.6                  | 2,400                   |           |
| 150                 | 0.1                    | 0.1                   | 4,000                   |           | 165                 | 0.1                    | 0.1                   | 4,000                   |           | 175                 | 12.8                   | 48.5                  | 2,400                   |           | 180                 | 12.8                   | 48.5                  | 2,000                   |           |

Combined From Charts:  
No. 6292-A 3-30-81  
No. 4779 2-18-80  
No. 4899 2-18-80

Form No. 6292-A, 3-30-81/GA

# SEE CONDITIONS ON REVERSE SIDE

This information is for reference use only and must not be used for a specific serial numbered crane.  
Please contact Essex Crane Rental Corp. for further information.