



# AAC MILLENNIUM DERRICK BARGE

## HOME PORT - PORTLAND, OR

4100 Ringer Series 3  
200 ton capacity @ 60 foot radius  
25 ton capacity @ 250 foot radius  
100 ton capacity @ 300 vertical feet  
Boom lengths 140 - 280 feet  
Travel height 50 feet  
6-point moorage system

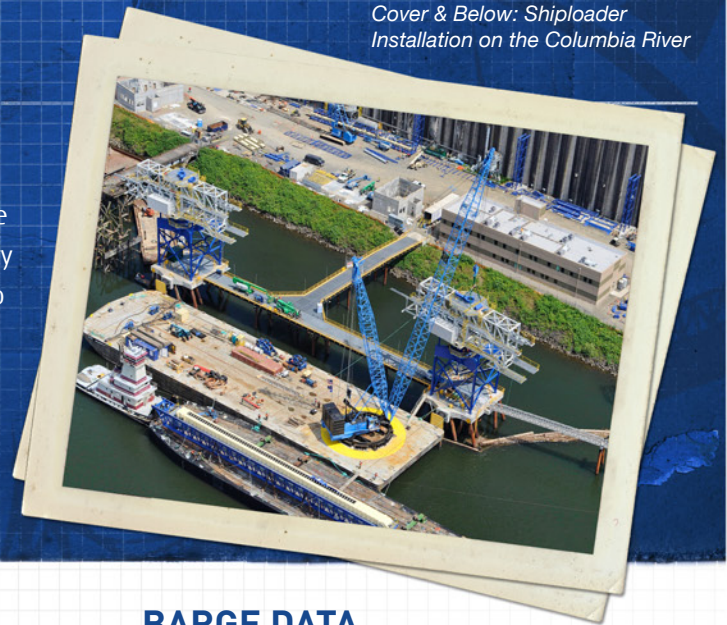


# AAC MILLENNIUM

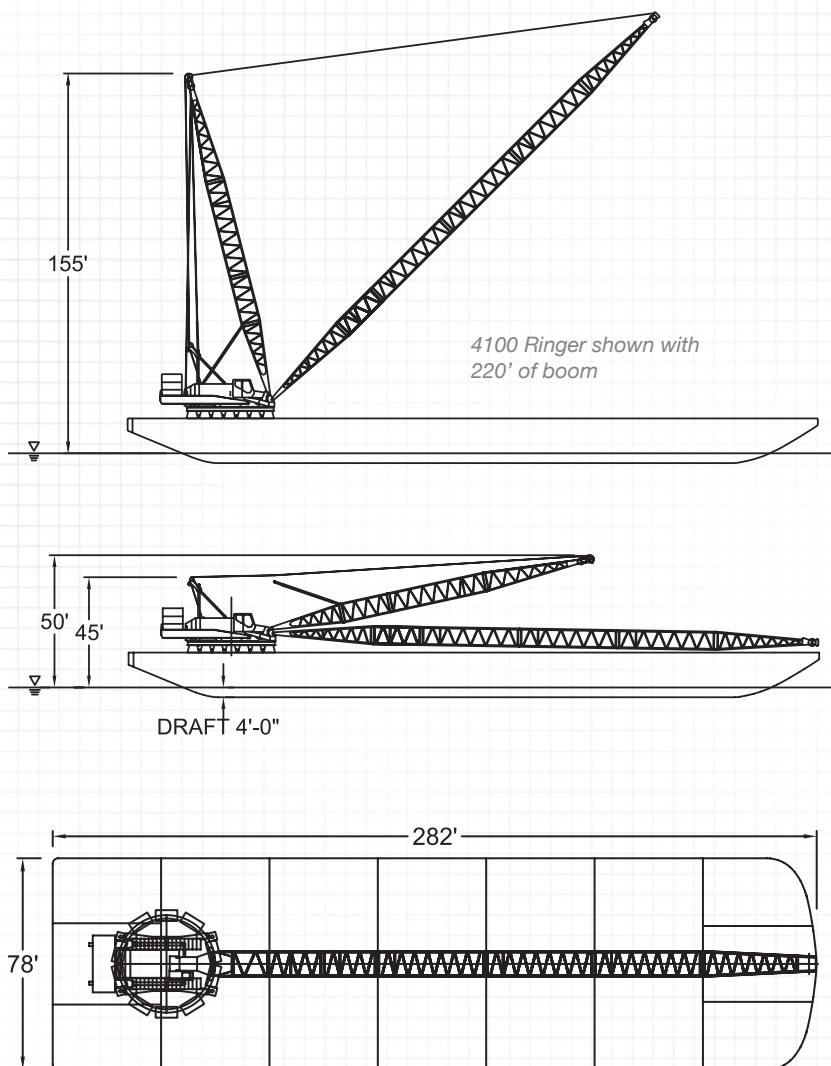
The AAC Millennium derrick barge is owned and operated by Advanced American Constructon, Inc. (AAC) of Portland, Oregon. The Lampson 4100 Crane combines the structural integrity and versatility of the Manitowoc 4100 with the safety and ease of operation due to a complete hydraulic operating system conversion.

See additional informaton on the Lampson 4100 Millennium package at [www.lampsoncrane.com](http://www.lampsoncrane.com)

Cover & Below: Shiploader  
Installation on the Columbia River



## DIMENSIONS / LAYOUT



## BARGE DATA

|           |                |
|-----------|----------------|
| Length    | 282 ft.        |
| Width     | 78 ft.         |
| Height    | 18 ft.         |
| Draft     | 4 ft.          |
| Moorage   | 6 Point System |
| Deck Load | 1,000 PSF      |

## CRANE DATA (LAMPSON MILLENNIUM)

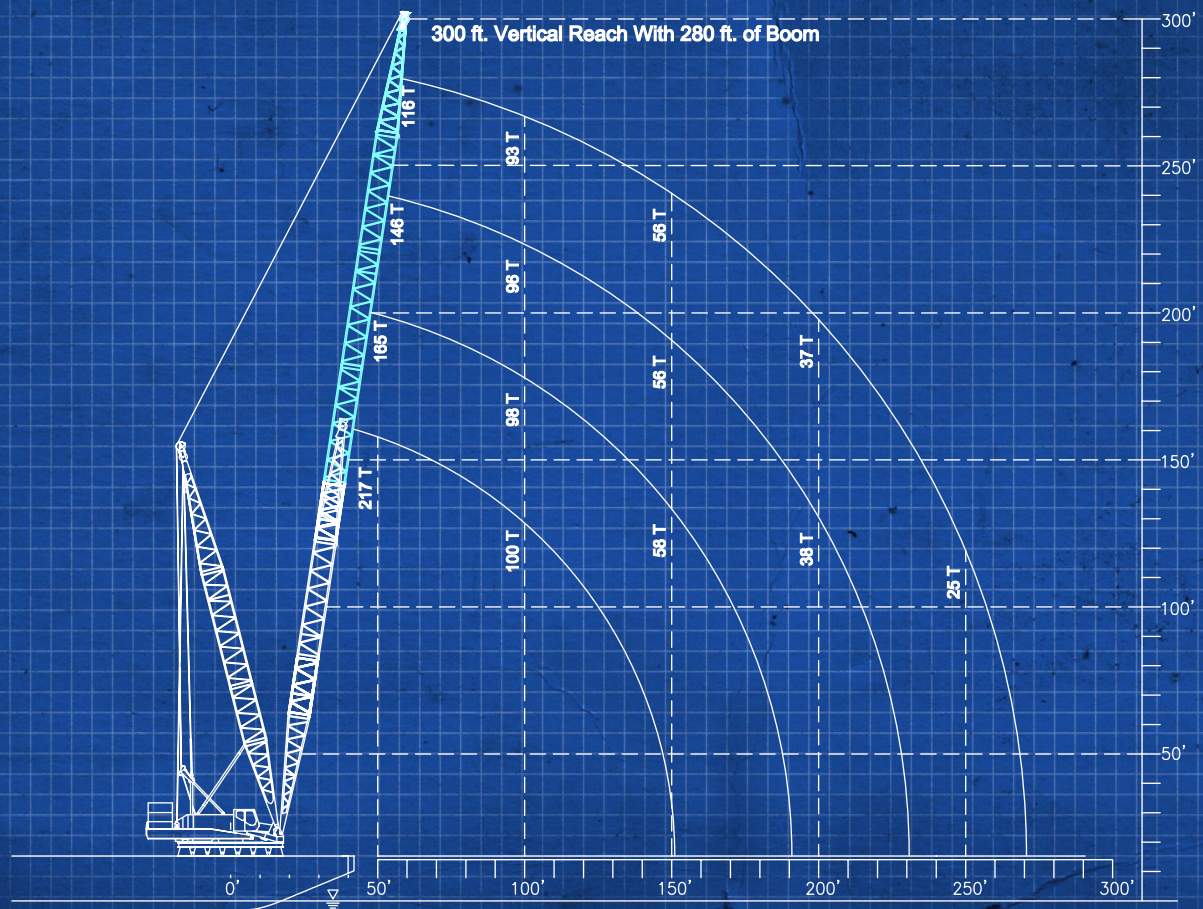
|                |                                                                                                                 |
|----------------|-----------------------------------------------------------------------------------------------------------------|
| Type           | 4100 Ringer Series 3                                                                                            |
| Boom Lengths   | 140 ft. To 280 ft.                                                                                              |
| Drums          | Main + 2 aux.<br>Hydraulic oper.<br>1 1/4 in. wire                                                              |
| Low Travel Ht. | 50 ft. off water                                                                                                |
| Capacities     | 200 tons @ 60 ft. radius<br>25 tons @ 250 ft. radius<br>100 tons @ 300 ft. vert. height<br>360 Degree Operation |

## SPECIAL CHARACTERISTICS

- Bow accepts roll on/off of cargo
- High capacity 16,000 sf usable deck
- 1 Day boom exchange capability
- Hydraulic hoist, swing, and boom - joystick controls
- Tier 3/4i Cummins engine - Comer drum planetaries
- LSI load monitoring system - safe lift operations
- LSI barge list and trim system - barge ballast system



# LOAD CAPACITY CHART





# RIVER SYSTEM MAP

Available Mobilization throughout the Columbia, Willamette and Snake River system.



# LAMPSON INTERNATIONAL LLC



## LIFT CRANE CAPACITIES \_\_\_\_\_ 4100-MILLENNIUM

BOOM NO. 27 WITH OPEN THROAT TOP

4100 SERIES 1

36'-0" RINGER ATTACHMENT ON BLOCKING

RINGER SERIES 3

122,400 POUND CRANE COUNTERWEIGHT

275,000 POUND AUXILIARY COUNTERWEIGHT

BARGE MOUNT—½ DEGREE THRU 2 DEGREE MACHINE LIST 85% TIPPING-360 DEGREE RATING

**LIFTING CAPACITIES:** Capacities are for a crawler machine when operating on a barge. Machine shall be positively secured to prevent shifting. Capacities for various boom lengths and operating radii are for free suspended loads and do not exceed 85% of a static tipping load.

### CAPACITIES SHOWN BY AN \* ARE BASED ON STRUCTURAL COMPETENCE.

Capacities are shown in pounds. Weight of the upper boom point, all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath the boom point sheaves, are 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.

Upper Boom Point (Refer to LIL drawing 12498-D) Capacity for lift crane service with single part whip line or a combination of two single part lines is 43,900 pounds. In all cases the Upper Boom Point capacity cannot exceed the capacities of those listed for the Main Boom.

**OPERATING CONDITIONS:** Machine is to operate with the roller path properly supported and with a machine list not to exceed degrees noted. Refer to boom rigging drawing No. MEC 50999 and wire rope specification LIL-4100-001. Crane operator judgment must be used to allow for dynamic load effects of swinging, holsting 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 at the barge deck to the center of the vertical hoist line or load block with the load freely suspended. Add 12" to the boom point radius for the radius of the sheave when using a single part of hoist line.

Boom angle is the angle between horizontal and centerline of the boom butt and inserts and is an indication of operating radius. In all cases, operating radius shall govern capacity.

**BOOM POINT ELEVATION:** Boom point elevations in feet, is the vertical distance from the ground to the centerline of the boom point shaft.

**MACHINE EQUIPMENT:** Machine equipped with 36' Ringer Attachment 26'-6" extendible crawlers, 48" treads, 17' retractable gantry, 8 part boom hoist reeving, four 1 3/8" pendants, 14" diameter X 16" width boom hoist drums, 122,400 pound crane counterweight, and 275,000 auxiliary counterweight.

### MAXIMUM BOOM LENGTHS LIFTED UNASSISTED

| LIST     | BOOM LENGTH |
|----------|-------------|
| ½ DEGREE | 280'        |
| 1 DEGREE | 260'        |
| 2 DEGREE | 240'        |

Load block, hook, and weight ball to be on the barge at start. Jib use is not permitted to be used on machine while operating on a barge.



### DEDUCT FROM CAPACITIES WHEN UPPER BOOM POINT IS ATTACHED

SINGLE SHEAVE POINT—1,200 LBS.

DUAL SHEAVE POINT—1,500 LBS.

**LIL-41682-13-003**

**Ringer MEC 10203**



# LAMPSON INTERNATIONAL LLC



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BARGE MOUNT-½ DEGREE THRU 2 DEGREE MACHINE LIST 85% TIPPING-360 DEGREE RATING

| Boom Length Feet | Operating Radius Feet | Boom Angle Degrees | Boom Point Elevation Feet | Boom Capacity 1/2 Degree List | Boom Capacity 1 Degree List | Boom Capacity 2 Degree List |
|------------------|-----------------------|--------------------|---------------------------|-------------------------------|-----------------------------|-----------------------------|
| 140              | 38                    | 81.4               | 146.2                     | 488,700*                      |                             |                             |
|                  | 40                    | 80.6               | 145.9                     | 488,700*                      | 435,800*                    |                             |
|                  | 45                    | 78.5               | 145.0                     | 488,700*                      | 435,800*                    | 358,700*                    |
|                  | 50                    | 76.4               | 143.9                     | 488,700*                      | 435,800*                    | 356,100*                    |
|                  | 55                    | 74.3               | 142.6                     | 462,200                       | 434,000*                    | 322,100*                    |
|                  | 60                    | 72.2               | 141.1                     | 408,100                       | 394,800                     | 293,800*                    |
|                  | 65                    | 70.0               | 139.3                     | 364,900                       | 354,100                     | 269,900*                    |
|                  | 70                    | 67.8               | 137.4                     | 329,600                       | 320,700                     | 249,400*                    |
|                  | 75                    | 65.6               | 135.3                     | 300,300                       | 292,800                     | 231,600*                    |
|                  | 80                    | 63.3               | 132.9                     | 275,600                       | 269,200                     | 216,000*                    |
|                  | 85                    | 61.0               | 130.2                     | 254,400                       | 248,900                     | 202,300*                    |
|                  | 90                    | 58.7               | 127.3                     | 236,100                       | 231,300                     | 190,100*                    |
|                  | 95                    | 56.2               | 124.1                     | 220,000                       | 215,900                     | 179,200*                    |
|                  | 100                   | 53.7               | 120.6                     | 205,900                       | 202,200                     | 169,300*                    |
|                  | 105                   | 51.1               | 116.8                     | 192,000*                      | 190,100                     | 160,400*                    |
|                  | 110                   | 48.5               | 112.6                     | 179,200*                      | 179,200*                    | 152,400*                    |
|                  | 115                   | 45.7               | 107.9                     | 167,600*                      | 167,600*                    | 145,000*                    |
|                  | 120                   | 42.7               | 102.8                     | 156,400*                      | 156,400*                    | 138,200*                    |
|                  | 125                   | 39.6               | 97.1                      | 145,300*                      | 145,300*                    | 132,000*                    |
|                  | 130                   | 36.3               | 90.6                      | 134,800*                      | 134,800*                    | 126,200*                    |
|                  | 135                   | 32.7               | 83.4                      | 124,900*                      | 124,900*                    | 120,900*                    |
|                  | 140                   | 28.7               | 74.9                      | 115,200*                      | 115,200*                    | 115,200*                    |



LIL-41682-13-003 Ringer MEC 10203

# LAMPSON INTERNATIONAL LLC



LIFT CRANE CAPACITIES \_\_\_\_\_ 4100-MILLENNIUM

BOOM NO. 27 WITH OPEN THROAT TOP

4100 SERIES 1

36'-0" RINGER ATTACHMENT ON BLOCKING

RINGER SERIES 3

122,400 POUND CRANE COUNTERWEIGHT

275,000 POUND AUXILIARY COUNTERWEIGHT

BARGE MOUNT-½ DEGREE THRU 2 DEGREE MACHINE LIST 85% TIPPING-360 DEGREE RATING

| Boom Length Feet | Operating Radius Feet | Boom Angle Degrees | Boom Point Elevation Feet | Boom Capacity 1/2 Degree List | Boom Capacity 1 Degree List | Boom Capacity 2 Degree List |
|------------------|-----------------------|--------------------|---------------------------|-------------------------------|-----------------------------|-----------------------------|
| 160              | 45                    | 80.0               | 165.3                     | 431,400*                      | 381,400*                    | 310,000*                    |
|                  | 50                    | 78.2               | 164.4                     | 431,400*                      | 381,400*                    | 310,000*                    |
|                  | 55                    | 76.3               | 163.2                     | 431,400*                      | 381,400*                    | 310,000*                    |
|                  | 60                    | 74.5               | 161.9                     | 405,000                       | 381,400*                    | 292,300*                    |
|                  | 65                    | 72.6               | 160.5                     | 362,100                       | 350,100                     | 268,400*                    |
|                  | 70                    | 70.7               | 158.8                     | 327,100                       | 317,100                     | 247,900*                    |
|                  | 75                    | 68.8               | 157.0                     | 298,000                       | 289,500                     | 230,100*                    |
|                  | 80                    | 66.9               | 154.9                     | 273,300                       | 266,200                     | 214,600*                    |
|                  | 85                    | 64.9               | 152.7                     | 252,300                       | 246,100                     | 200,800*                    |
|                  | 90                    | 62.9               | 150.2                     | 234,000                       | 228,600                     | 188,700*                    |
|                  | 95                    | 60.9               | 147.6                     | 218,100                       | 213,300                     | 177,700*                    |
|                  | 100                   | 58.8               | 144.7                     | 204,000                       | 199,800                     | 167,900*                    |
|                  | 105                   | 56.7               | 141.5                     | 191,500                       | 187,800                     | 159,000*                    |
|                  | 110                   | 54.5               | 138.1                     | 180,300                       | 177,000                     | 151,000*                    |
|                  | 115                   | 52.3               | 134.4                     | 170,300                       | 167,300                     | 143,600*                    |
|                  | 120                   | 50.0               | 130.3                     | 161,200                       | 158,500                     | 136,800*                    |
|                  | 125                   | 47.6               | 126.0                     | 153,000                       | 150,600                     | 130,600*                    |
|                  | 130                   | 45.2               | 121.2                     | 145,400                       | 143,300                     | 124,900*                    |
|                  | 135                   | 42.6               | 116.0                     | 137,100*                      | 136,600                     | 119,600*                    |
|                  | 140                   | 39.9               | 110.3                     | 129,400*                      | 129,400*                    | 114,600*                    |
|                  | 145                   | 37.0               | 104.0                     | 122,200*                      | 122,200*                    | 110,000*                    |
|                  | 150                   | 33.9               | 97.0                      | 115,400*                      | 115,400*                    | 105,700*                    |
|                  | 155                   | 30.5               | 89.0                      | 107,700*                      | 107,700*                    | 101,700*                    |
|                  | 160                   | 26.8               | 79.9                      | 100,000*                      | 100,000*                    | 98,000*                     |

LIL-41682-13-003 RINGER MEC 10203



LIFT CRANE CAPACITIES -140' TO 260' No. 27 Boom with Open Throat Top \_\_ Chart No. LIL-7317-A Rev 0  
Lampson International LLC 2014 \_\_\_\_\_ 4100-MILLENNIUM SERIES 1 RINGER SERIES 3

# LAMPSON INTERNATIONAL LLC



## LIFT CRANE CAPACITIES

4100-MILLENNIUM

BOOM NO. 27 WITH OPEN THROAT TOP

4100 SERIES 1

36'-0" RINGER ATTACHMENT ON BLOCKING

RINGER SERIES 3

122,400 POUND CRANE COUNTERWEIGHT

275,000 POUND AUXILIARY COUNTERWEIGHT

BARGE MOUNT-½ DEGREE THRU 2 DEGREE MACHINE LIST 85% TIPPING-360 DEGREE RATING

| Boom Length Feet | Operating Radius Feet | Boom Angle Degrees | Boom Point Elevation Feet | Boom Capacity 1/2 Degree List | Boom Capacity 1 Degree List | Boom Capacity 2 Degree List |
|------------------|-----------------------|--------------------|---------------------------|-------------------------------|-----------------------------|-----------------------------|
| 180              | 45                    | 81.1               | 185.6                     | 376,900*                      |                             |                             |
|                  | 50                    | 79.5               | 184.8                     | 376,500*                      | 331,700*                    | 268,000*                    |
|                  | 55                    | 77.9               | 183.7                     | 376,100*                      | 331,300*                    | 267,600*                    |
|                  | 60                    | 76.2               | 182.6                     | 375,500*                      | 330,800*                    | 267,200*                    |
|                  | 65                    | 74.6               | 181.3                     | 358,600                       | 330,200*                    | 266,100*                    |
|                  | 70                    | 72.9               | 179.8                     | 323,900                       | 312,900                     | 245,600*                    |
|                  | 75                    | 71.3               | 178.2                     | 294,900                       | 285,600                     | 227,800*                    |
|                  | 80                    | 69.6               | 176.4                     | 270,500                       | 262,500                     | 212,300*                    |
|                  | 85                    | 67.9               | 174.5                     | 249,500                       | 242,600                     | 198,600*                    |
|                  | 90                    | 66.1               | 172.4                     | 231,300                       | 225,300                     | 186,500*                    |
|                  | 95                    | 64.4               | 170.1                     | 215,400                       | 210,200                     | 175,600*                    |
|                  | 100                   | 62.6               | 167.6                     | 201,400                       | 196,800                     | 165,800*                    |
|                  | 105                   | 60.8               | 164.9                     | 189,000                       | 184,800                     | 156,900*                    |
|                  | 110                   | 59.0               | 162.0                     | 177,900                       | 174,100                     | 148,800*                    |
|                  | 115                   | 57.1               | 158.9                     | 167,900                       | 164,500                     | 141,500*                    |
|                  | 120                   | 55.2               | 155.5                     | 158,800                       | 155,800                     | 134,700*                    |
|                  | 125                   | 53.2               | 151.9                     | 150,600                       | 147,800                     | 128,500*                    |
|                  | 130                   | 51.2               | 148.0                     | 143,100                       | 140,600                     | 122,800*                    |
|                  | 135                   | 49.1               | 143.8                     | 136,200                       | 133,900                     | 117,500*                    |
|                  | 140                   | 47.0               | 139.3                     | 129,900                       | 127,800                     | 112,500*                    |
|                  | 145                   | 44.8               | 134.5                     | 124,000                       | 122,100                     | 108,000*                    |
|                  | 150                   | 42.4               | 129.2                     | 118,600                       | 116,900                     | 103,700*                    |
|                  | 155                   | 40.0               | 123.5                     | 113,500*                      | 112,000                     | 99,700*                     |
|                  | 160                   | 37.5               | 117.3                     | 107,500*                      | 107,500                     | 95,900*                     |
|                  | 165                   | 34.8               | 110.5                     | 101,900*                      | 101,900*                    | 92,400*                     |
|                  | 170                   | 31.9               | 102.9                     | 96,600*                       | 96,600*                     | 89,100*                     |
|                  | 175                   | 29.7               | 94.3                      | 91,500*                       | 91,500*                     | 85,900*                     |
|                  | 180                   | 25.2               | 84.5                      | 86,100*                       | 86,100*                     | 83,000*                     |

LIL-41682-13-003 RINGER MEC 10203

**Advanced American Construction Owned & Operated**

LIFT CRANE CAPACITIES -140' TO 260' No. 27 Boom with Open Throat Top Chart No. LIL-7317-A Rev 0  
Lampson International LLC 2014 4100-MILLENNIUM SERIES 1 RINGER SERIES 3



# LAMPSON INTERNATIONAL LLC



## LIFT CRANE CAPACITIES \_\_\_\_\_ 4100-MILLENNIUM

BOOM NO. 27 WITH OPEN THROAT TOP

4100 SERIES 1

36'-0" RINGER ATTACHMENT ON BLOCKING

RINGER SERIES 3

122,400 POUND CRANE COUNTERWEIGHT

275,000 POUND AUXILIARY COUNTERWEIGHT

BARGE MOUNT-½ DEGREE THRU 2 DEGREE MACHINE LIST 85% TIPPING-360 DEGREE RATING

| Boom Length Feet | Operating Radius Feet | Boom Angle Degrees | Boom Point Elevation Feet | Boom Capacity 1/2 Degree List | Boom Capacity 1 Degree List | Boom Capacity 2 Degree List |
|------------------|-----------------------|--------------------|---------------------------|-------------------------------|-----------------------------|-----------------------------|
| 200              | 50                    | 80.6               | 205.1                     | 332,100*                      | 291,800*                    |                             |
|                  | 55                    | 79.1               | 204.2                     | 331,400*                      | 291,200*                    | 234,300*                    |
|                  | 60                    | 77.6               | 203.1                     | 330,500*                      | 290,500*                    | 233,800*                    |
|                  | 65                    | 76.2               | 202.0                     | 329,600*                      | 289,800*                    | 233,200*                    |
|                  | 70                    | 74.7               | 200.7                     | 321,500*                      | 289,000*                    | 232,500*                    |
|                  | 75                    | 73.2               | 199.2                     | 292,800                       | 282,600                     | 226,500*                    |
|                  | 80                    | 71.7               | 197.6                     | 268,400                       | 259,700                     | 211,000*                    |
|                  | 85                    | 70.2               | 195.9                     | 247,600                       | 240,000                     | 197,300*                    |
|                  | 90                    | 68.6               | 194.0                     | 229,500                       | 222,900                     | 185,100*                    |
|                  | 95                    | 67.1               | 192.0                     | 213,700                       | 207,900                     | 174,300*                    |
|                  | 100                   | 65.5               | 189.8                     | 199,700                       | 194,600                     | 164,500*                    |
|                  | 105                   | 63.9               | 187.5                     | 187,300                       | 182,700                     | 155,600*                    |
|                  | 110                   | 62.3               | 184.9                     | 176,300                       | 172,100                     | 147,600*                    |
|                  | 115                   | 60.7               | 182.2                     | 166,300                       | 162,500                     | 140,200*                    |
|                  | 120                   | 59.1               | 179.3                     | 157,300                       | 153,900                     | 133,500*                    |
|                  | 125                   | 57.4               | 176.2                     | 149,000                       | 146,000                     | 127,300*                    |
|                  | 130                   | 55.7               | 172.9                     | 141,600                       | 138,800                     | 121,500*                    |
|                  | 135                   | 53.9               | 169.4                     | 134,700                       | 132,100                     | 116,200*                    |
|                  | 140                   | 52.1               | 165.6                     | 128,400                       | 126,000                     | 111,300*                    |
|                  | 145                   | 50.3               | 161.6                     | 122,600                       | 120,400                     | 106,700*                    |
|                  | 150                   | 48.4               | 157.3                     | 117,200                       | 115,200                     | 102,500*                    |
|                  | 155                   | 46.4               | 152.7                     | 112,200                       | 110,300                     | 98,500*                     |
|                  | 160                   | 44.4               | 147.8                     | 107,500                       | 105,800                     | 94,700*                     |
|                  | 165                   | 42.3               | 142.5                     | 103,100                       | 101,600                     | 91,200*                     |
|                  | 170                   | 40.2               | 136.8                     | 99,100                        | 97,700                      | 87,900*                     |
|                  | 175                   | 37.9               | 130.6                     | 95,300                        | 94,000                      | 84,700*                     |
|                  | 180                   | 35.5               | 123.9                     | 91,000*                       | 90,500                      | 81,800*                     |
|                  | 185                   | 32.9               | 116.5                     | 86,500*                       | 86,500*                     | 79,000*                     |
|                  | 190                   | 30.2               | 108.4                     | 82,200*                       | 82,200*                     | 76,300*                     |
|                  | 195                   | 27.2               | 99.3                      | 78,100*                       | 78,100*                     | 73,800*                     |
|                  | 200                   | 23.9               | 88.8                      | 74,100*                       | 74,100*                     | 71,500*                     |

**LIL-41682-13-003 RINGER MEC 10203**

**Advanced American Construction Owned & Operated**

LIFT CRANE CAPACITIES -140' TO 260' No. 27 Boom with Open Throat Top \_\_ Chart No. LIL-7317-A Rev 0  
Lampson International LLC 2014 \_\_\_\_\_ 4100-MILLENNIUM SERIES 1 RINGER SERIES 3



# LAMPSON INTERNATIONAL LLC

## LIFT CRANE CAPACITIES \_\_\_\_\_ 4100-MILLENNIUM

BOOM NO. 27 WITH OPEN THROAT TOP

4100 SERIES 1

36'-0" RINGER ATTACHMENT ON BLOCKING

RINGER SERIES 3

122,400 POUND CRANE COUNTERWEIGHT

275,000 POUND AUXILIARY COUNTERWEIGHT

BARGE MOUNT-½ DEGREE THRU 2 DEGREE MACHINE LIST 85% TIPPING-360 DEGREE RATING

| Boom Length Feet | Operating Radius Feet | Boom Angle Degrees | Boom Point Elevation Feet | Boom Capacity 1/2 Degree List | Boom Capacity 1 Degree List | Boom Capacity 2 Degree List |
|------------------|-----------------------|--------------------|---------------------------|-------------------------------|-----------------------------|-----------------------------|
| 220              | 50                    | 81.4               | 225.3                     | 293,300*                      |                             |                             |
|                  | 55                    | 60.1               | 224.5                     | 292,500*                      | 256,500*                    |                             |
|                  | 60                    | 78.8               | 223.6                     | 291,600*                      | 255,800*                    | 205,100*                    |
|                  | 65                    | 77.4               | 222.5                     | 290,600*                      | 255,000*                    | 204,500*                    |
|                  | 70                    | 75.1               | 221.3                     | 289,600*                      | 254,200*                    | 203,900*                    |
|                  | 75                    | 74.8               | 220.0                     | 288,500*                      | 253,300*                    | 203,200*                    |
|                  | 80                    | 73.4               | 218.6                     | 266,100                       | 252,300*                    | 202,400*                    |
|                  | 85                    | 72.0               | 217.1                     | 245,300                       | 237,100                     | 195,600*                    |
|                  | 90                    | 70.7               | 215.4                     | 227,300                       | 220,200                     | 183,500*                    |
|                  | 95                    | 69.3               | 213.5                     | 211,600                       | 205,300                     | 172,600*                    |
|                  | 100                   | 67.9               | 211.6                     | 197,700                       | 192,100                     | 162,800*                    |
|                  | 105                   | 66.5               | 209.5                     | 185,300                       | 180,300                     | 154,000*                    |
|                  | 110                   | 65.0               | 207.2                     | 174,300                       | 169,800                     | 145,900*                    |
|                  | 115                   | 63.6               | 204.8                     | 164,400                       | 160,300                     | 138,600*                    |
|                  | 120                   | 62.1               | 202.3                     | 155,400                       | 151,700                     | 131,900*                    |
|                  | 125                   | 60.6               | 199.5                     | 147,200                       | 143,800                     | 125,700*                    |
|                  | 130                   | 59.1               | 196.6                     | 139,700                       | 136,600                     | 119,900*                    |
|                  | 135                   | 57.6               | 193.6                     | 132,900                       | 130,100                     | 114,700*                    |
|                  | 140                   | 56.1               | 190.3                     | 126,600                       | 124,000                     | 109,700*                    |
|                  | 145                   | 54.5               | 186.8                     | 120,800                       | 118,400                     | 105,200*                    |
|                  | 150                   | 52.9               | 183.1                     | 115,400                       | 113,200                     | 100,900*                    |
|                  | 155                   | 51.2               | 179.2                     | 110,400                       | 108,300                     | 96,900*                     |
|                  | 160                   | 49.5               | 175.1                     | 105,700                       | 103,800                     | 93,100*                     |
|                  | 165                   | 47.8               | 170.7                     | 101,400                       | 99,600                      | 89,600*                     |
|                  | 170                   | 46.0               | 166.0                     | 97,300                        | 95,700                      | 86,300*                     |
|                  | 175                   | 44.2               | 161.0                     | 93,500                        | 92,000                      | 83,200*                     |
|                  | 180                   | 42.3               | 155.7                     | 90,000                        | 88,600                      | 80,200*                     |
|                  | 185                   | 40.3               | 150.0                     | 86,600                        | 85,300                      | 77,500*                     |
|                  | 190                   | 38.2               | 143.9                     | 83,400                        | 82,200                      | 74,800*                     |
|                  | 195                   | 36.1               | 137.3                     | 80,400                        | 79,300                      | 72,300*                     |
|                  | 200                   | 33.8               | 130.1                     | 77,100*                       | 76,600                      | 69,900*                     |
|                  | 205                   | 31.4               | 122.3                     | 73,400*                       | 73,400*                     | 67,700*                     |
|                  | 210                   | 28.8               | 113.7                     | 69,900*                       | 69,900*                     | 65,500*                     |
|                  | 215                   | 25.9               | 104.0                     | 66,400*                       | 66,400*                     | 63,400*                     |
|                  | 220                   | 22.8               | 93.0                      | 63,100*                       | 63,100*                     | 61,500*                     |

**LIL-41682-13-003 RINGER MEC 10203**

**Advanced American Construction Owned & Operated**

LIFT CRANE CAPACITIES ~140' TO 260' No. 27 Boom with Open Throat Top \_\_Chart No. LIL-7317-A Rev 0  
Lampson International LLC 2014 \_\_\_\_\_ 4100-MILLENNIUM SERIES 1 RINGER SERIES 3





# LAMPSON INTERNATIONAL LLC

## LIFT CRANE CAPACITIES \_\_\_\_\_ 4100-MILLENNIUM

BOOM NO. 27 WITH OPEN THROAT TOP

4100 SERIES 1

36'-0" RINGER ATTACHMENT ON BLOCKING

RINGER SERIES 3

122,400 POUND CRANE COUNTERWEIGHT

275,000 POUND AUXILIARY COUNTERWEIGHT

BARGE MOUNT-½ DEGREE THRU 2 DEGREE MACHINE LIST 85% TIPPING-360 DEGREE RATING

| Boom Length Feet | Operating Radius Feet | Boom Angle Degrees | Boom Point Elevation Feet | Boom Capacity 1/2 Degree List | Boom Capacity 1 Degree List | Boom Capacity 2 Degree List |
|------------------|-----------------------|--------------------|---------------------------|-------------------------------|-----------------------------|-----------------------------|
| 240              | 55                    | 80.9               | 244.8                     | 264,100*                      | 230,900*                    |                             |
|                  | 60                    | 78.7               | 243.9                     | 263,300*                      | 230,200*                    | 183,600*                    |
|                  | 65                    | 78.5               | 243.0                     | 262,400                       | 229,500*                    | 183,000*                    |
|                  | 70                    | 77.3               | 241.9                     | 261,400                       | 228,700*                    | 182,400*                    |
|                  | 75                    | 76.1               | 240.7                     | 260,300                       | 227,800*                    | 181,700*                    |
|                  | 80                    | 74.8               | 239.4                     | 253,800                       | 226,900*                    | 181,000*                    |
|                  | 85                    | 73.6               | 238.0                     | 238,000                       | 226,000*                    | 180,300*                    |
|                  | 90                    | 72.3               | 236.5                     | 224,000                       | 217,500                     | 179,500*                    |
|                  | 95                    | 71.1               | 234.8                     | 209,600                       | 202,800                     | 171,000*                    |
|                  | 100                   | 69.8               | 233.0                     | 195,700                       | 189,700                     | 161,300*                    |
|                  | 105                   | 68.5               | 231.1                     | 183,400                       | 178,000                     | 152,500*                    |
|                  | 110                   | 67.2               | 229.1                     | 172,400                       | 167,600                     | 144,400*                    |
|                  | 115                   | 65.9               | 226.9                     | 162,500                       | 158,100                     | 137,100*                    |
|                  | 120                   | 64.6               | 224.6                     | 153,600                       | 149,600                     | 130,400*                    |
|                  | 125                   | 63.3               | 222.2                     | 145,400                       | 141,800                     | 124,200*                    |
|                  | 130                   | 62.0               | 219.6                     | 138,400                       | 134,600                     | 118,500*                    |
|                  | 135                   | 60.6               | 216.9                     | 131,100                       | 128,100                     | 113,200*                    |
|                  | 140                   | 59.2               | 214.0                     | 124,900                       | 122,000                     | 108,300*                    |
|                  | 145                   | 57.8               | 210.9                     | 119,100                       | 116,500                     | 103,700*                    |
|                  | 150                   | 56.4               | 207.7                     | 113,700                       | 111,300                     | 99,400*                     |
|                  | 155                   | 54.9               | 204.2                     | 108,700                       | 106,500                     | 95,400*                     |
|                  | 160                   | 53.5               | 200.6                     | 104,100                       | 102,000                     | 91,700*                     |
|                  | 165                   | 52.0               | 196.8                     | 99,700                        | 97,800                      | 88,200*                     |
|                  | 170                   | 50.4               | 192.8                     | 95,700                        | 93,900                      | 84,900*                     |
|                  | 175                   | 48.9               | 188.6                     | 91,900                        | 90,200                      | 81,700*                     |
|                  | 180                   | 47.3               | 184.1                     | 88,300                        | 86,800                      | 78,800*                     |
|                  | 185                   | 45.6               | 179.3                     | 85,000                        | 83,500                      | 76,000*                     |
|                  | 190                   | 43.9               | 174.3                     | 81,800                        | 80,400                      | 73,400*                     |
|                  | 195                   | 42.2               | 168.9                     | 78,800                        | 77,500                      | 70,900*                     |
|                  | 200                   | 40.4               | 163.2                     | 76,000                        | 74,800                      | 68,500*                     |
|                  | 205                   | 38.5               | 157.2                     | 73,300                        | 72,200                      | 66,200*                     |
|                  | 210                   | 36.5               | 150.7                     | 70,800                        | 69,700                      | 64,100*                     |
|                  | 215                   | 34.5               | 143.6                     | 68,400                        | 67,400                      | 62,000*                     |
|                  | 220                   | 32.3               | 136.1                     | 65,500*                       | 65,200                      | 60,100*                     |
|                  | 225                   | 30.0               | 127.8                     | 62,400*                       | 62,400*                     | 58,200*                     |
|                  | 230                   | 27.5               | 118.7                     | 59,400*                       | 59,400*                     | 56,400*                     |
|                  | 235                   | 24.8               | 108.5                     | 56,500*                       | 56,500*                     | 54,700*                     |
|                  | 240                   | 21.8               | 96.9                      | 53,700*                       | 53,700*                     | 53,000*                     |

**LIL-41682-13-003 RINGER MEC 10203**

**Advanced American Construction Owned & Operated**

LIFT CRANE CAPACITIES -140' TO 260' No. 27 Boom with Open Throat Top \_\_Chart No. LIL-7317-A Rev 0  
Lampson International LLC 2014 \_\_\_\_\_ 4100-MILLENNIUM SERIES 1 RINGER SERIES 3

# LAMPSON INTERNATIONAL LLC



LIFT CRANE CAPACITIES \_\_\_\_\_ 4100-MILLENNIUM

BOOM NO. 27 WITH OPEN THROAT TOP

4100 SERIES 1

36'-0" RINGER ATTACHMENT ON BLOCKING

RINGER SERIES 3

122,400 POUND CRANE COUNTERWEIGHT

275,000 POUND AUXILIARY COUNTERWEIGHT

BARGE MOUNT-½ DEGREE THRU 2 DEGREE MACHINE LIST 85% TIPPING-360 DEGREE RATING

| Boom Length Feet | Operating Radius Feet | Boom Angle Degrees | Boom Point Elevation Feet | Boom Capacity 1/2 Degree List | Boom Capacity 1 Degree List |
|------------------|-----------------------|--------------------|---------------------------|-------------------------------|-----------------------------|
| 260              | 60                    | 80.5               | 264.2                     | 233,300*                      | 203,800*                    |
|                  | 65                    | 79.4               | 263.3                     | 232,500*                      | 203,200*                    |
|                  | 70                    | 78.3               | 262.3                     | 231,600*                      | 202,500*                    |
|                  | 75                    | 77.1               | 261.3                     | 230,700*                      | 201,700*                    |
|                  | 80                    | 76.0               | 260.1                     | 229,700*                      | 200,900*                    |
|                  | 85                    | 74.9               | 258.8                     | 220,400*                      | 200,000*                    |
|                  | 90                    | 73.7               | 257.4                     | 207,900*                      | 199,100*                    |
|                  | 95                    | 72.6               | 255.7                     | 196,700*                      | 196,700*                    |
|                  | 100                   | 71.4               | 254.2                     | 186,700*                      | 186,700*                    |
|                  | 105                   | 70.3               | 252.5                     | 177,600*                      | 175,800                     |
|                  | 110                   | 69.1               | 250.6                     | 169,200*                      | 165,400                     |
|                  | 115                   | 67.9               | 248.7                     | 160,800                       | 156,000                     |
|                  | 120                   | 66.7               | 246.6                     | 151,800                       | 147,500                     |
|                  | 125                   | 65.5               | 244.4                     | 143,700                       | 139,800                     |
|                  | 130                   | 64.3               | 242.0                     | 136,300                       | 132,700                     |
|                  | 135                   | 63.1               | 239.5                     | 129,500                       | 126,200                     |
|                  | 140                   | 61.8               | 236.9                     | 123,200                       | 120,200                     |
|                  | 145                   | 60.5               | 234.2                     | 117,400                       | 114,600                     |
|                  | 150                   | 59.3               | 231.3                     | 112,100                       | 109,500                     |
|                  | 155                   | 58.0               | 228.2                     | 107,100                       | 104,700                     |
|                  | 160                   | 56.7               | 225.0                     | 102,500                       | 100,200                     |
|                  | 165                   | 55.3               | 221.7                     | 98,100                        | 96,000                      |
|                  | 170                   | 54.0               | 218.1                     | 94,100                        | 92,100                      |
|                  | 175                   | 52.6               | 214.4                     | 90,300                        | 88,500                      |
|                  | 180                   | 51.2               | 210.5                     | 86,700                        | 85,000                      |
|                  | 185                   | 49.8               | 206.3                     | 83,400                        | 81,800                      |
|                  | 190                   | 48.3               | 202.0                     | 80,200                        | 78,700                      |
|                  | 195                   | 46.8               | 197.4                     | 77,300                        | 75,800                      |
|                  | 200                   | 45.3               | 192.6                     | 74,400                        | 73,100                      |
|                  | 205                   | 43.7               | 187.5                     | 71,800                        | 70,500                      |
|                  | 210                   | 42.1               | 182.2                     | 69,200                        | 68,000                      |
|                  | 215                   | 40.5               | 176.5                     | 66,800                        | 65,700                      |
|                  | 220                   | 38.7               | 170.4                     | 64,500                        | 63,500                      |
|                  | 225                   | 36.9               | 164.0                     | 62,300                        | 61,400                      |
|                  | 230                   | 35.1               | 157.1                     | 60,200                        | 59,300                      |
|                  | 235                   | 33.1               | 149.7                     | 58,300                        | 57,400                      |
|                  | 240                   | 31.0               | 141.7                     | 55,600*                       | 55,600                      |
|                  | 245                   | 28.8               | 133.0                     | 53,000*                       | 53,000*                     |
|                  | 250                   | 26.4               | 123.5                     | 50,500*                       | 50,500*                     |
|                  | 255                   | 23.8               | 112.8                     | 48,000*                       | 48,000*                     |
|                  | 260                   | 20.9               | 100.7                     | 45,500*                       | 45,500*                     |

**LIL-41682-13-003 RINGER MEC 10203**

**Advanced American Construction Owned & Operated**

LIFT CRANE CAPACITIES -140' TO 260' No. 27 Boom with Open Throat Top \_\_Chart No. LIL-7317-A Rev 0

Lampson International LLC 2014 \_\_\_\_\_ 4100-MILLENNIUM SERIES 1 RINGER SERIES 3



# LAMPSON INTERNATIONAL LLC



## LIFT CRANE CAPACITIES

4100-MILLENNIUM

BOOM NO. 27 WITH OPEN THROAT TOP

4100 SERIES 1

36'-0" RINGER ATTACHMENT ON BLOCKING

RINGER SERIES 3

122,400 POUND CRANE COUNTERWEIGHT

275,000 POUND AUXILIARY COUNTERWEIGHT

BARGE MOUNT-½ DEGREE THRU 2 DEGREE MACHINE LIST 85% TIPPING-360 DEGREE RATING

| Boom Length Feet | Operating Radius Feet | Boom Angle Degrees | Boom Point Elevation Feet | Boom Capacity 1/2 Degree List |
|------------------|-----------------------|--------------------|---------------------------|-------------------------------|
| 280              | 60                    | 81.2               | 284.5                     | 211,400*                      |
|                  | 65                    | 80.2               | 283.7                     | 210,800*                      |
|                  | 70                    | 79.1               | 282.7                     | 210,100*                      |
|                  | 75                    | 78.1               | 281.7                     | 209,300*                      |
|                  | 80                    | 77.1               | 280.6                     | 208,400*                      |
|                  | 85                    | 76.0               | 279.4                     | 204,000*                      |
|                  | 90                    | 74.9               | 278.1                     | 192,600*                      |
|                  | 95                    | 73.9               | 276.7                     | 182,500*                      |
|                  | 100                   | 72.8               | 275.2                     | 173,400*                      |
|                  | 105                   | 71.7               | 273.6                     | 165,200*                      |
|                  | 110                   | 70.6               | 271.9                     | 157,700*                      |
|                  | 115                   | 69.5               | 270.1                     | 150,800*                      |
|                  | 120                   | 68.5               | 268.2                     | 144,400*                      |
|                  | 125                   | 67.3               | 266.2                     | 138,500*                      |
|                  | 130                   | 66.2               | 264.0                     | 133,000*                      |
|                  | 135                   | 65.1               | 261.8                     | 127,700                       |
|                  | 140                   | 64.0               | 259.4                     | 121,500                       |
|                  | 145                   | 62.8               | 256.9                     | 115,700                       |
|                  | 150                   | 61.7               | 254.3                     | 110,400                       |
|                  | 155                   | 60.5               | 251.5                     | 105,400                       |
|                  | 160                   | 59.3               | 248.6                     | 100,800                       |
|                  | 165                   | 58.1               | 245.6                     | 96,500                        |
|                  | 170                   | 56.9               | 242.4                     | 92,500                        |
|                  | 175                   | 55.7               | 239.0                     | 88,700                        |
|                  | 180                   | 54.4               | 235.6                     | 85,100                        |
|                  | 185                   | 53.2               | 231.9                     | 81,800                        |
|                  | 190                   | 51.9               | 228.1                     | 78,600                        |
|                  | 195                   | 50.6               | 224.0                     | 75,600                        |
|                  | 200                   | 49.2               | 219.8                     | 72,800                        |
|                  | 205                   | 47.9               | 215.4                     | 70,100                        |
|                  | 210                   | 46.5               | 210.8                     | 67,600                        |
|                  | 215                   | 45.0               | 205.9                     | 65,200                        |
|                  | 220                   | 43.6               | 200.8                     | 62,900                        |
|                  | 225                   | 42.1               | 195.4                     | 60,700                        |
|                  | 230                   | 40.5               | 189.7                     | 58,700                        |
|                  | 235                   | 38.9               | 183.7                     | 56,700                        |
|                  | 240                   | 37.3               | 177.3                     | 54,800                        |
|                  | 245                   | 35.5               | 170.5                     | 53,000                        |
|                  | 250                   | 33.7               | 163.3                     | 51,200                        |
|                  | 255                   | 31.9               | 155.5                     | 49,300*                       |
|                  | 260                   | 29.9               | 147.2                     | 47,000*                       |
|                  | 265                   | 27.7               | 138.1                     | 44,700*                       |
|                  | 270                   | 25.4               | 128.1                     | 42,500*                       |
|                  | 275                   | 23.0               | 117.0                     | 40,300*                       |
|                  | 280                   | 20.2               | 104.3                     | 38,200*                       |

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