

# MANITOWOC ENGINEERING CO.

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



## LIFTCRANE CAPACITIES

**BOOM NO. 44 WITH HEAVY LIFT TOP**  
**75 750 kg COUNTERWEIGHT**  
**360 DEGREE RATING**

MEETS  
ANSI B30.5  
REQUIREMENTS

**M-250**

CAPACITIES FOR VARIOUS BOOM LENGTHS AND OPERATING RADII ARE FOR FREELY SUSPENDED LOADS AND DO NOT EXCEED 75% OF A STATIC TIPPING LOAD. CAPACITIES BASED ON STRUCTURAL COMPETENCE ARE DENOTED BY AN ASTERISK (\*).

UPPER BOOM POINT CAPACITY FOR LIFTCRANE SERVICE WITH SINGLE PART WHIP LINE IS 13 610 kg OR 27 220 kg WITH TWO PART WHIP LINE. IN ALL CASES, UPPER BOOM POINT CAPACITIES CANNOT EXCEED THOSE LISTED FOR THE MAIN BOOM CAPACITY.

76.2m THRU 91.4m BOOM LENGTHS REQUIRE ONLY THE MIDDLE 3 SHEAVES TO BE USED ON THE LOWER BOOM POINT. ALL OTHER SHEAVES MUST BE REMOVED FROM THE LOWER BOOM POINT.

WEIGHT OF JIB, ALL LOAD BLOCKS, HOOKS, WEIGHT BALL, SLINGS, HOIST LINES, ETC., BENEATH BOOM AND JIB POINT SHEAVES, 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.

MACHINE TO OPERATE IN A LEVEL POSITION ON A FIRM UNIFORMLY SUPPORTING SURFACE WITH GANTRY UP. REFER TO BOOM RIGGING NO. 172610 AND WIRE ROPE SPECIFICATION CHART NO. 7581-A. CRANE OPERATOR JUDGMENT MUST BE USED TO ALLOW FOR DYNAMIC LOAD EFFECTS OF SWINGING, HOISTING OR LOWERING, TRAVEL, WIND CONDITIONS, AS WELL AS ADVERSE OPERATING CONDITIONS AND PHYSICAL MACHINE DEPRECIATION.

MACHINE MAY BE OPERATED WITHIN WIND LIMITS SHOWN IN TABLE PROVIDED CRANE OPERATOR JUDGMENT IS USED TO ALLOW FOR WIND EFFECT ON THE LIFTED LOAD AND OTHER CONSIDERATIONS NOTED ON THE CAPACITY CHART ARE FOLLOWED. WIND WILL HAVE A CONSIDERABLE EFFECT ON A LOAD WITH A LARGE 'SAIL AREA' AND MUST BE COMPENSATED FOR ACCORDINGLY BY REDUCING LOAD RATINGS, REDUCING OPERATING SPEEDS OR BY A COMBINATION OF BOTH. RECOMMEND STOPPING OPERATION AND LOWERING BOOM AND JIB TO APPROXIMATELY 70 DEGREE BOOM ANGLE WHEN WIND EXCEEDS THOSE SHOWN IN TABLE TO PREVENT JIB BEING BLOWN OVER BACKWARDS. LOWER BOOM AND JIB TO GROUND WHEN WIND IS ABOVE 22 m/s.

MACHINE TO TRAVEL ON A FIRM, LEVEL AND UNIFORMLY SUPPORTING SURFACE AND BOOM WITHIN THE BOOM ANGLE RANGE SHOWN IN CAPACITY CHART.

OPERATING RADIUS IS THE HORIZONTAL DISTANCE FROM THE AXIS OF ROTATION TO THE CENTER OF VERTICAL HOIST LINE OR LOAD BLOCK. 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 IS VERTICAL DISTANCE FROM GROUND LEVEL TO CENTERLINE OF BOOM POINT SHAFT.

MACHINE EQUIPPED WITH 9 373 mm CRAWLERS, 1 219 mm TREADS, 8 534 mm RETRACTABLE GANTRY, 12 PART BOOM HOIST REEVING, FOUR 38 mm BOOM PENDANTS, AND 75 750 kg COUNTERWEIGHT.

| WIND LIMITS DURING OPERATION |                |               |
|------------------------------|----------------|---------------|
| MAXIMUM<br>WIND<br>VELOCITY  | BOOM<br>LENGTH | JIB<br>LENGTH |
| m/s                          | METERS         | METERS        |
| 13                           | 21.3 - 61.0    | ---           |
| 11                           | 64.0 - 73.2    | ---           |
| 9                            | 76.2 - 91.4    | ---           |
| 11                           | 39.6 - 64.0    | 12.2 - 24.4   |
| 9                            | 67.1 - 76.2    | 12.2 - 24.4   |
| 7                            | 79.2           | 12.2 - 18.3   |
| 11                           | 39.6 - 61.0    | 30.5 - 36.6   |
| 9                            | 64.0 - 70.1    | 30.5 - 36.6   |
| 9                            | 73.2           | 30.5          |

| MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED                                                                                                                           |             |                                  |             |                          |             |                                                |             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------|-------------|--------------------------|-------------|------------------------------------------------|-------------|
| OVER FRONT OF<br>BLOCKED CRAWLERS                                                                                                                                        |             | OVER REAR OF<br>BLOCKED CRAWLERS |             | OVER SIDE OF<br>CRAWLERS |             | DEDUCT FROM CAPACITIES<br>WHEN JIB IS ATTACHED |             |
| BOOM LGTH.                                                                                                                                                               | JIB NO. 132 | BOOM LGTH.                       | JIB NO. 132 | BOOM LGTH.               | JIB NO. 132 | JIB LGTH.                                      | JIB NO. 132 |
| (a) 91.4m                                                                                                                                                                | ---         | (a) 88.4m                        | ---         | 79.2m                    | ---         | 12.2m                                          | 2 900 kg    |
| 88.4m                                                                                                                                                                    | ---         | 85.3m                            | ---         | 76.2m                    | ---         | 18.3m                                          | 3 720 kg    |
| 85.3m                                                                                                                                                                    | ---         | 82.3m                            | ---         | 73.2m                    | ---         | 24.4m                                          | 4 670 kg    |
| 82.3m                                                                                                                                                                    | ---         | 79.2m                            | 12.2m       | 70.1m                    | 18.3m       | 30.5m                                          | 5 810 kg    |
| 79.2m                                                                                                                                                                    | 18.3m       | 76.2m                            | 18.3m       | 67.1m                    | 24.4m       | 36.6m                                          | 6 940 kg    |
| 76.2m                                                                                                                                                                    | 24.4m       | 73.2m                            | 24.4m       | 64.0m                    | 36.6m       |                                                |             |
| 73.2m                                                                                                                                                                    | 30.5m       | 70.1m                            | 30.5m       |                          |             |                                                |             |
| 70.1m                                                                                                                                                                    | 36.6m       | 67.1m                            | 36.6m       |                          |             |                                                |             |
| LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START. (a) UPPER BOOM POINT CANNOT BE USED ON 91.4m BOOM AND CANNOT BE LIFTED OVER REAR OF BLOCKED CRAWLERS ON 88.4m BOOM. |             |                                  |             |                          |             |                                                |             |

CONSULT JIB CHART FOR JIB CAPACITIES. UPPER BOOM POINT CANNOT BE USED WHEN JIB IS ATTACHED.

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REQUIREMENTS

**M-250**

| BOOM LGTH. METERS | BOOM LGTH. FEET | OPER. RADIUS METERS | BOOM ANG. DEG. | BOOM POINT ELEV. METERS | CAPACITY KILOGRAMS | BOOM LGTH. METERS | BOOM LGTH. FEET | OPER. RADIUS METERS | BOOM ANG. DEG. | BOOM POINT ELEV. METERS | CAPACITY KILOGRAMS |
|-------------------|-----------------|---------------------|----------------|-------------------------|--------------------|-------------------|-----------------|---------------------|----------------|-------------------------|--------------------|
| 21.3              | 70              | 5.5                 | 82.9           | 23.5                    | 250 000*           | 33.5              | 110             | 7.0                 | 82.9           | 35.6                    | 169 800*           |
|                   |                 | 6.0                 | 81.5           | 23.4                    | 247 700*           |                   |                 | 7.5                 | 82.0           | 35.5                    | 167 900*           |
|                   |                 | 6.5                 | 80.2           | 23.3                    | 235 900*           |                   |                 | 8.0                 | 81.2           | 35.4                    | 166 200*           |
|                   |                 | 7.0                 | 78.8           | 23.2                    | 219 700*           |                   |                 | 8.5                 | 80.3           | 35.3                    | 163 100*           |
|                   |                 | 7.5                 | 77.4           | 23.1                    | 204 600*           |                   |                 | 9.0                 | 79.4           | 35.2                    | 148 500*           |
|                   |                 | 8.0                 | 76.0           | 22.9                    | 182 900*           |                   |                 | 10.0                | 77.7           | 35.0                    | 124 600*           |
|                   |                 | 8.5                 | 74.6           | 22.8                    | 164 100*           |                   |                 | 11.0                | 75.9           | 34.7                    | 107 100*           |
|                   |                 | 9.0                 | 73.2           | 22.6                    | 148 700*           |                   |                 | 12.0                | 74.1           | 34.4                    | 93 700*            |
|                   |                 | 10.0                | 70.3           | 22.2                    | 124 900*           |                   |                 | 13.0                | 72.3           | 34.1                    | 83 000*            |
|                   |                 | 11.0                | 67.4           | 21.8                    | 107 500*           |                   |                 | 14.0                | 70.5           | 33.8                    | 74 500*            |
|                   |                 | 12.0                | 64.4           | 21.3                    | 94 100*            |                   |                 | 15.0                | 68.7           | 33.3                    | 67 400*            |
|                   |                 | 13.0                | 61.3           | 20.7                    | 83 600*            |                   |                 | 16.0                | 66.8           | 32.9                    | 61 300*            |
|                   |                 | 14.0                | 58.1           | 20.1                    | 75 000*            |                   |                 | 18.0                | 63.0           | 31.9                    | 51 900*            |
|                   |                 | 15.0                | 54.8           | 19.4                    | 67 900*            |                   |                 | 20.0                | 59.0           | 30.7                    | 44 700*            |
|                   |                 | 16.0                | 51.4           | 18.5                    | 61 900*            |                   |                 | 22.0                | 54.9           | 29.3                    | 39 100*            |
|                   |                 | 18.0                | 43.8           | 16.6                    | 52 500*            |                   |                 | 24.0                | 50.5           | 27.7                    | 34 500*            |
|                   |                 | 20.0                | 34.8           | 13.9                    | 45 300*            |                   |                 | 26.0                | 45.8           | 25.8                    | 30 800*            |
| 24.4              | 80              | 6.1                 | 82.4           | 26.5                    | 238 700*           | 36.6              | 120             | 7.3                 | 83.0           | 38.6                    | 164 900*           |
|                   |                 | 6.5                 | 81.4           | 26.4                    | 235 300*           |                   |                 | 7.5                 | 82.7           | 38.6                    | 164 300*           |
|                   |                 | 7.0                 | 80.2           | 26.3                    | 219 300*           |                   |                 | 8.0                 | 81.9           | 38.5                    | 162 600*           |
|                   |                 | 7.5                 | 79.0           | 26.2                    | 204 400*           |                   |                 | 8.5                 | 81.1           | 38.4                    | 161 000*           |
|                   |                 | 8.0                 | 77.8           | 26.1                    | 182 900*           |                   |                 | 9.0                 | 80.3           | 38.3                    | 148 500*           |
|                   |                 | 8.5                 | 76.6           | 26.0                    | 164 100*           |                   |                 | 10.0                | 78.7           | 38.1                    | 124 400*           |
|                   |                 | 9.0                 | 75.4           | 25.8                    | 148 700*           |                   |                 | 11.0                | 77.1           | 37.9                    | 106 900*           |
|                   |                 | 10.0                | 72.9           | 25.5                    | 124 800*           |                   |                 | 12.0                | 75.5           | 37.6                    | 93 400*            |
|                   |                 | 11.0                | 70.4           | 25.1                    | 107 400*           |                   |                 | 13.0                | 73.9           | 37.3                    | 82 800*            |
|                   |                 | 12.0                | 67.8           | 24.7                    | 94 000*            |                   |                 | 14.0                | 72.2           | 37.0                    | 74 200*            |
|                   |                 | 13.0                | 65.2           | 24.2                    | 83 400*            |                   |                 | 15.0                | 70.5           | 36.6                    | 67 100*            |
|                   |                 | 14.0                | 62.6           | 23.7                    | 74 900*            |                   |                 | 16.0                | 68.9           | 36.2                    | 61 100*            |
|                   |                 | 15.0                | 59.8           | 23.1                    | 67 800*            |                   |                 | 18.0                | 65.4           | 35.3                    | 51 600*            |
|                   |                 | 16.0                | 57.0           | 22.4                    | 61 800*            |                   |                 | 20.0                | 61.9           | 34.3                    | 44 400*            |
|                   |                 | 18.0                | 51.1           | 20.8                    | 52 300*            |                   |                 | 22.0                | 58.2           | 33.1                    | 38 800*            |
|                   |                 | 20.0                | 44.5           | 18.9                    | 45 200*            |                   |                 | 24.0                | 54.4           | 31.7                    | 34 200*            |
| 27.4              | 90              | 6.4                 | 82.6           | 29.5                    | 226 100*           |                   |                 | 26.0                | 50.4           | 30.0                    | 30 500*            |
|                   |                 | 6.5                 | 82.4           | 29.5                    | 225 700*           |                   |                 | 28.0                | 46.1           | 28.2                    | 27 400*            |
|                   |                 | 7.0                 | 81.3           | 29.4                    | 219 000*           |                   |                 | 30.0                | 41.4           | 26.0                    | 24 700*            |
|                   |                 | 7.5                 | 80.3           | 29.3                    | 204 300*           |                   |                 | 32.0                | 36.3           | 23.4                    | 22 400*            |
|                   |                 | 8.0                 | 79.2           | 29.2                    | 182 900*           |                   |                 | 34.0                | 30.3           | 20.1                    | 20 400*            |
|                   |                 | 8.5                 | 78.1           | 29.1                    | 164 100*           | 39.9              | 130             | 7.9                 | 82.7           | 41.6                    | 159 000*           |
|                   |                 | 9.0                 | 77.0           | 29.0                    | 148 600*           |                   |                 | 8.0                 | 82.6           | 41.6                    | 158 800*           |
|                   |                 | 10.0                | 74.9           | 28.7                    | 124 800*           |                   |                 | 8.5                 | 81.8           | 41.5                    | 157 300*           |
|                   |                 | 11.0                | 72.7           | 28.4                    | 107 400*           |                   |                 | 9.0                 | 81.1           | 41.4                    | 149 000*           |
|                   |                 | 12.0                | 70.4           | 28.0                    | 94 000*            |                   |                 | 10.0                | 79.6           | 41.3                    | 124 400*           |
|                   |                 | 13.0                | 68.2           | 27.6                    | 83 400*            |                   |                 | 11.0                | 78.1           | 41.0                    | 106 900*           |
|                   |                 | 14.0                | 65.9           | 27.1                    | 74 800*            |                   |                 | 12.0                | 76.6           | 40.8                    | 93 400*            |
|                   |                 | 15.0                | 63.5           | 26.6                    | 67 700*            |                   |                 | 13.0                | 75.1           | 40.5                    | 82 800*            |
|                   |                 | 16.0                | 61.1           | 26.0                    | 61 700*            |                   |                 | 14.0                | 73.6           | 40.2                    | 74 200*            |
|                   |                 | 18.0                | 56.1           | 24.7                    | 52 200*            |                   |                 | 15.0                | 72.1           | 39.9                    | 67 100*            |
|                   |                 | 20.0                | 50.8           | 23.1                    | 45 100*            |                   |                 | 16.0                | 70.6           | 39.5                    | 61 100*            |
|                   |                 | 22.0                | 45.0           | 21.2                    | 39 400*            |                   |                 | 18.0                | 67.4           | 38.7                    | 51 600*            |
|                   |                 | 24.0                | 38.5           | 18.8                    | 34 900*            |                   |                 | 20.0                | 64.2           | 37.7                    | 44 400*            |
|                   |                 |                     |                |                         |                    |                   |                 | 22.0                | 60.9           | 36.6                    | 38 800*            |
| 30.5              | 100             | 6.7                 | 82.8           | 32.6                    | 217 400*           |                   |                 | 24.0                | 57.5           | 35.4                    | 34 200*            |
|                   |                 | 7.0                 | 82.2           | 32.5                    | 216 000*           |                   |                 | 26.0                | 54.0           | 34.0                    | 30 500*            |
|                   |                 | 7.5                 | 81.2           | 32.4                    | 204 300*           |                   |                 | 28.0                | 50.3           | 32.3                    | 27 300*            |
|                   |                 | 8.0                 | 80.3           | 32.3                    | 182 800*           |                   |                 | 30.0                | 46.3           | 30.5                    | 24 700*            |
|                   |                 | 8.5                 | 79.3           | 32.2                    | 164 000*           |                   |                 | 32.0                | 42.0           | 28.3                    | 22 400*            |
|                   |                 | 9.0                 | 78.4           | 32.1                    | 148 500*           |                   |                 | 34.0                | 37.4           | 25.8                    | 20 400*            |
|                   |                 | 10.0                | 76.4           | 31.9                    | 124 600*           |                   |                 | 36.0                | 32.2           | 22.8                    | 18 600*            |
|                   |                 | 11.0                | 74.5           | 31.6                    | 107 200*           |                   |                 | 38.0                | 25.9           | 19.0                    | 17 100*            |
|                   |                 | 12.0                | 72.5           | 31.2                    | 93 800*            |                   |                 |                     |                |                         |                    |
|                   |                 | 13.0                | 70.5           | 30.9                    | 83 200*            |                   |                 |                     |                |                         |                    |
|                   |                 | 14.0                | 68.5           | 30.5                    | 74 600*            |                   |                 |                     |                |                         |                    |
|                   |                 | 15.0                | 66.4           | 30.0                    | 67 500*            |                   |                 |                     |                |                         |                    |
|                   |                 | 16.0                | 64.3           | 29.5                    | 61 500*            |                   |                 |                     |                |                         |                    |
|                   |                 | 18.0                | 60.0           | 28.4                    | 52 000*            |                   |                 |                     |                |                         |                    |
|                   |                 | 20.0                | 55.4           | 27.0                    | 44 900*            |                   |                 |                     |                |                         |                    |
|                   |                 | 22.0                | 50.6           | 25.4                    | 39 200*            |                   |                 |                     |                |                         |                    |
|                   |                 | 24.0                | 45.4           | 23.5                    | 34 700*            |                   |                 |                     |                |                         |                    |
|                   |                 | 26.0                | 39.7           | 21.2                    | 31 000*            |                   |                 |                     |                |                         |                    |
|                   |                 | 28.0                | 33.1           | 18.3                    | 27 800*            |                   |                 |                     |                |                         |                    |

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| BOOM LGTH. METERS | BOOM LGTH. FEET | OPER. RADIUS METERS | BOOM ANG. DEG. | BOOM POINT ELEV. METERS | CAPACITY KILOGRAMS | BOOM LGTH. METERS | BOOM LGTH. FEET | OPER. RADIUS METERS | BOOM ANG. DEG. | BOOM POINT ELEV. METERS | CAPACITY KILOGRAMS |
|-------------------|-----------------|---------------------|----------------|-------------------------|--------------------|-------------------|-----------------|---------------------|----------------|-------------------------|--------------------|
| <b>42.7</b>       | <b>140</b>      | 8.2                 | 82.8           | 44.7                    | 155 000            | <b>51.8</b>       | <b>170</b>      | 9.1                 | 83.1           | 53.8                    | 128 800            |
|                   |                 | 8.5                 | 82.4           | 44.6                    | 154 300            |                   |                 | 10.0                | 82.1           | 53.6                    | 124 300            |
|                   |                 | 9.0                 | 81.7           | 44.5                    | 149 200            |                   |                 | 11.0                | 81.0           | 53.5                    | 106 200            |
|                   |                 | 10.0                | 80.4           | 44.4                    | 124 200            |                   |                 | 12.0                | 79.8           | 53.3                    | 92 700             |
|                   |                 | 11.0                | 79.0           | 44.2                    | 106 700            |                   |                 | 13.0                | 78.7           | 53.1                    | 82 100             |
|                   |                 | 12.0                | 77.6           | 43.9                    | 93 200             |                   |                 | 14.0                | 77.6           | 52.9                    | 73 500             |
|                   |                 | 13.0                | 76.2           | 43.7                    | 82 600             |                   |                 | 15.0                | 76.4           | 52.6                    | 66 300             |
|                   |                 | 14.0                | 74.8           | 43.4                    | 74 000             |                   |                 | 16.0                | 75.3           | 52.3                    | 60 300             |
|                   |                 | 15.0                | 73.4           | 43.1                    | 66 800             |                   |                 | 18.0                | 73.0           | 51.7                    | 50 800             |
|                   |                 | 16.0                | 72.0           | 42.8                    | 60 800             |                   |                 | 20.0                | 70.6           | 51.0                    | 43 600             |
|                   |                 | 18.0                | 69.1           | 42.0                    | 51 300             |                   |                 | 22.0                | 68.3           | 50.2                    | 37 900             |
|                   |                 | 20.0                | 66.2           | 41.1                    | 44 100             |                   |                 | 24.0                | 65.8           | 49.4                    | 33 300             |
|                   |                 | 22.0                | 63.2           | 40.1                    | 38 500             |                   |                 | 26.0                | 63.4           | 48.4                    | 29 600             |
|                   |                 | 24.0                | 60.1           | 39.0                    | 33 900             |                   |                 | 28.0                | 60.8           | 47.3                    | 26 400             |
|                   |                 | 26.0                | 56.9           | 37.7                    | 30 200             |                   |                 | 30.0                | 58.3           | 46.0                    | 23 800             |
|                   |                 | 28.0                | 53.6           | 36.3                    | 27 000             |                   |                 | 32.0                | 55.6           | 44.7                    | 21 500             |
|                   |                 | 30.0                | 50.2           | 34.6                    | 24 400             |                   |                 | 34.0                | 52.8           | 43.2                    | 19 500             |
|                   |                 | 32.0                | 46.5           | 32.8                    | 22 100             |                   |                 | 36.0                | 50.0           | 41.5                    | 17 700             |
|                   |                 | 34.0                | 42.6           | 30.7                    | 20 100             |                   |                 | 38.0                | 47.0           | 39.7                    | 16 200             |
|                   |                 | 36.0                | 38.3           | 28.2                    | 18 300             |                   |                 | 40.0                | 43.8           | 37.7                    | 14 800             |
|                   |                 | 38.0                | 33.6           | 25.3                    | 16 800             |                   |                 | 42.0                | 40.4           | 35.4                    | 13 500             |
| <b>45.7</b>       | <b>150</b>      | 8.5                 | 82.9           | 47.7                    | 137 100            | <b>54.9</b>       | <b>180</b>      | 9.8                 | 82.7           | 56.8                    | 124 500            |
|                   |                 | 9.0                 | 82.3           | 47.6                    | 135 800            |                   |                 | 10.0                | 82.5           | 56.7                    | 121 300            |
|                   |                 | 10.0                | 81.0           | 47.5                    | 125 100            |                   |                 | 11.0                | 81.5           | 56.6                    | 106 000            |
|                   |                 | 11.0                | 79.7           | 47.3                    | 106 500            |                   |                 | 12.0                | 80.4           | 56.4                    | 92 500             |
|                   |                 | 12.0                | 78.5           | 47.1                    | 93 000             |                   |                 | 13.0                | 79.3           | 56.2                    | 81 800             |
|                   |                 | 13.0                | 77.2           | 46.8                    | 82 400             |                   |                 | 14.0                | 78.3           | 56.0                    | 73 200             |
|                   |                 | 14.0                | 75.9           | 46.6                    | 73 700             |                   |                 | 15.0                | 77.2           | 55.7                    | 66 000             |
|                   |                 | 15.0                | 74.6           | 46.3                    | 66 600             |                   |                 | 16.0                | 76.1           | 55.5                    | 60 000             |
|                   |                 | 16.0                | 73.3           | 46.0                    | 60 600             |                   |                 | 18.0                | 74.0           | 54.9                    | 50 500             |
|                   |                 | 18.0                | 70.6           | 45.3                    | 51 100             |                   |                 | 20.0                | 71.8           | 54.3                    | 43 300             |
|                   |                 | 20.0                | 67.9           | 44.5                    | 43 900             |                   |                 | 22.0                | 69.5           | 53.5                    | 37 600             |
|                   |                 | 22.0                | 65.2           | 43.6                    | 38 200             |                   |                 | 24.0                | 67.3           | 52.7                    | 33 000             |
|                   |                 | 24.0                | 62.3           | 42.5                    | 33 700             |                   |                 | 26.0                | 65.0           | 51.8                    | 29 300             |
|                   |                 | 26.0                | 59.4           | 41.4                    | 30 000             |                   |                 | 28.0                | 62.6           | 50.7                    | 26 100             |
|                   |                 | 28.0                | 56.4           | 40.0                    | 26 800             |                   |                 | 30.0                | 60.2           | 49.6                    | 23 500             |
|                   |                 | 30.0                | 53.3           | 38.6                    | 24 100             |                   |                 | 32.0                | 57.8           | 48.4                    | 21 200             |
|                   |                 | 32.0                | 50.1           | 36.9                    | 21 800             |                   |                 | 34.0                | 55.2           | 47.0                    | 19 200             |
|                   |                 | 34.0                | 46.7           | 35.1                    | 19 800             |                   |                 | 36.0                | 52.6           | 45.5                    | 17 400             |
|                   |                 | 36.0                | 43.0           | 33.0                    | 18 100             |                   |                 | 38.0                | 49.9           | 43.8                    | 15 900             |
|                   |                 | 38.0                | 39.1           | 30.6                    | 16 500             |                   |                 | 40.0                | 47.1           | 42.0                    | 14 500             |
| <b>48.8</b>       | <b>160</b>      | 8.8                 | 83.0           | 50.7                    | 132 400            |                   |                 | 42.0                | 44.1           | 40.0                    | 13 200             |
|                   |                 | 9.0                 | 82.8           | 50.7                    | 132 000            |                   |                 | 44.0                | 41.0           | 37.7                    | 12 100             |
|                   |                 | 10.0                | 81.6           | 50.6                    | 125 300            |                   |                 | 46.0                | 37.6           | 35.2                    | 11 100             |
|                   |                 | 11.0                | 80.4           | 50.4                    | 106 300            |                   |                 | 48.0                | 33.9           | 32.3                    | 10 200             |
|                   |                 | 12.0                | 79.2           | 50.2                    | 92 800             |                   |                 | 50.0                | 29.9           | 29.0                    | 9 300              |
|                   |                 | 13.0                | 78.0           | 50.0                    | 82 100             |                   |                 |                     |                |                         |                    |
|                   |                 | 14.0                | 76.8           | 49.7                    | 73 500             |                   |                 |                     |                |                         |                    |
|                   |                 | 15.0                | 75.6           | 49.4                    | 66 300             |                   |                 |                     |                |                         |                    |
|                   |                 | 16.0                | 74.3           | 49.2                    | 60 300             |                   |                 |                     |                |                         |                    |
|                   |                 | 18.0                | 71.9           | 48.5                    | 50 800             |                   |                 |                     |                |                         |                    |
|                   |                 | 20.0                | 69.4           | 47.8                    | 43 600             |                   |                 |                     |                |                         |                    |
|                   |                 | 22.0                | 66.8           | 46.9                    | 37 900             |                   |                 |                     |                |                         |                    |
|                   |                 | 24.0                | 64.2           | 46.0                    | 33 400             |                   |                 |                     |                |                         |                    |
|                   |                 | 26.0                | 61.5           | 44.9                    | 29 600             |                   |                 |                     |                |                         |                    |
|                   |                 | 28.0                | 58.8           | 43.7                    | 26 500             |                   |                 |                     |                |                         |                    |
|                   |                 | 30.0                | 56.0           | 42.4                    | 23 800             |                   |                 |                     |                |                         |                    |
|                   |                 | 32.0                | 53.1           | 40.9                    | 21 500             |                   |                 |                     |                |                         |                    |
|                   |                 | 34.0                | 50.0           | 39.2                    | 19 500             |                   |                 |                     |                |                         |                    |
|                   |                 | 36.0                | 46.8           | 37.4                    | 17 800             |                   |                 |                     |                |                         |                    |
|                   |                 | 38.0                | 43.4           | 35.3                    | 16 200             |                   |                 |                     |                |                         |                    |
|                   |                 | 40.0                | 39.8           | 33.0                    | 14 800             |                   |                 |                     |                |                         |                    |
|                   |                 | 42.0                | 35.9           | 30.3                    | 13 600             |                   |                 |                     |                |                         |                    |
|                   |                 | 44.0                | 31.6           | 27.2                    | 12 500             |                   |                 |                     |                |                         |                    |

# MANITOWOC ENGINEERING CO.

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



## LIFTCRANE CAPACITIES

BOOM NO. 44 WITH HEAVY LIFT TOP  
75 750 kg COUNTERWEIGHT  
360 DEGREE RATING

MEETS  
ANSI B30.5  
REQUIREMENTS

M-250

| BOOM LGTH. METERS | BOOM LGTH. FEET | OPER. RADIUS METERS | BOOM ANG. DEG. | BOOM POINT ELEV. METERS | CAPACITY KILOGRAMS |
|-------------------|-----------------|---------------------|----------------|-------------------------|--------------------|
| 57.9              | 190             | 10.4                | 82.5           | 59.7                    | 109 400*           |
|                   |                 | 11.0                | 81.9           | 59.7                    | 106 000            |
|                   |                 | 12.0                | 80.9           | 59.5                    | 92 300             |
|                   |                 | 13.0                | 79.9           | 59.3                    | 81 600             |
|                   |                 | 14.0                | 78.9           | 59.1                    | 73 000             |
|                   |                 | 15.0                | 77.9           | 58.9                    | 65 800             |
|                   |                 | 16.0                | 76.9           | 58.6                    | 59 800             |
|                   |                 | 18.0                | 74.8           | 58.1                    | 50 300             |
|                   |                 | 20.0                | 72.8           | 57.5                    | 43 000             |
|                   |                 | 22.0                | 70.7           | 56.8                    | 37 300             |
|                   |                 | 24.0                | 68.5           | 56.0                    | 32 800             |
|                   |                 | 26.0                | 66.4           | 55.1                    | 29 000             |
|                   |                 | 28.0                | 64.2           | 54.2                    | 25 900             |
|                   |                 | 30.0                | 61.9           | 53.1                    | 23 200             |
|                   |                 | 32.0                | 59.7           | 52.0                    | 20 900             |
|                   |                 | 34.0                | 57.3           | 50.7                    | 18 900             |
|                   |                 | 36.0                | 54.9           | 49.3                    | 17 200             |
|                   |                 | 38.0                | 52.4           | 47.8                    | 15 600             |
|                   |                 | 40.0                | 49.9           | 46.1                    | 14 200             |
|                   |                 | 42.0                | 47.2           | 44.3                    | 13 000             |
| 61.0              | 200             | 44.0                | 44.4           | 42.3                    | 11 900             |
|                   |                 | 46.0                | 41.4           | 40.1                    | 10 800             |
|                   |                 | 48.0                | 38.3           | 37.6                    | 9 900              |
|                   |                 | 50.0                | 34.9           | 34.8                    | 9 100              |
|                   |                 | 52.0                | 31.2           | 31.6                    | 8 300              |
|                   |                 | 10.4                | 82.9           | 62.8                    | 105 800*           |
|                   |                 | 11.0                | 82.3           | 62.7                    | 104 600*           |
|                   |                 | 12.0                | 81.4           | 62.6                    | 92 200             |
|                   |                 | 13.0                | 80.4           | 62.4                    | 81 400             |
|                   |                 | 14.0                | 79.5           | 62.2                    | 72 700             |
|                   |                 | 15.0                | 78.5           | 62.0                    | 65 600             |
|                   |                 | 16.0                | 77.5           | 61.8                    | 59 500             |
|                   |                 | 18.0                | 75.6           | 61.3                    | 50 000             |
|                   |                 | 20.0                | 73.6           | 60.7                    | 42 700             |
|                   |                 | 22.0                | 71.7           | 60.0                    | 37 100             |
|                   |                 | 24.0                | 69.7           | 59.3                    | 32 500             |
|                   |                 | 26.0                | 67.6           | 58.5                    | 28 700             |
|                   |                 | 28.0                | 65.6           | 57.6                    | 25 600             |
|                   |                 | 30.0                | 63.5           | 56.6                    | 22 900             |
|                   |                 | 32.0                | 61.3           | 55.5                    | 20 600             |
| 64.0              | 210             | 34.0                | 59.2           | 54.3                    | 18 600             |
|                   |                 | 36.0                | 56.9           | 53.0                    | 16 800             |
|                   |                 | 38.0                | 54.6           | 51.6                    | 15 300             |
|                   |                 | 40.0                | 52.3           | 50.1                    | 13 900             |
|                   |                 | 42.0                | 49.8           | 48.4                    | 12 700             |
|                   |                 | 44.0                | 47.3           | 46.6                    | 11 500             |
|                   |                 | 46.0                | 44.6           | 44.6                    | 10 500             |
|                   |                 | 48.0                | 41.8           | 42.4                    | 9 600              |
|                   |                 | 50.0                | 38.9           | 40.0                    | 8 800              |
|                   |                 | 52.0                | 35.7           | 37.3                    | 8 000              |
|                   |                 | 54.0                | 32.3           | 34.2                    | 7 300              |
|                   |                 | 56.0                | 28.5           | 30.7                    | 6 600              |
|                   |                 | 11.0                | 82.7           | 65.8                    | 102 100*           |
|                   |                 | 12.0                | 81.8           | 65.7                    | 92 300             |
|                   |                 | 13.0                | 80.9           | 65.5                    | 81 300             |
|                   |                 | 14.0                | 80.0           | 65.3                    | 72 600             |
|                   |                 | 15.0                | 79.1           | 65.1                    | 65 400             |
|                   |                 | 16.0                | 78.1           | 64.9                    | 59 400             |
|                   |                 | 18.0                | 76.3           | 64.4                    | 49 800             |
|                   |                 | 20.0                | 74.4           | 63.9                    | 42 600             |
|                   |                 | 22.0                | 72.6           | 63.2                    | 36 900             |
|                   |                 | 24.0                | 70.7           | 62.5                    | 32 400             |
| 67.1              | 220             | 26.0                | 68.8           | 61.8                    | 28 600             |
|                   |                 | 28.0                | 66.8           | 60.9                    | 25 500             |
|                   |                 | 30.0                | 64.8           | 60.0                    | 22 800             |
|                   |                 | 32.0                | 62.8           | 59.0                    | 20 500             |
|                   |                 | 34.0                | 60.8           | 57.9                    | 18 500             |
|                   |                 | 36.0                | 58.7           | 56.7                    | 16 700             |
|                   |                 | 38.0                | 56.6           | 55.4                    | 15 200             |
|                   |                 | 40.0                | 54.4           | 53.9                    | 13 800             |
|                   |                 | 42.0                | 52.1           | 52.4                    | 12 500             |
|                   |                 | 11.6                | 82.5           | 68.8                    | 97 000             |
|                   |                 | 12.0                | 82.2           | 68.7                    | 91 900             |
|                   |                 | 13.0                | 81.3           | 68.6                    | 81 100             |
|                   |                 | 14.0                | 80.4           | 68.4                    | 72 400             |
|                   |                 | 15.0                | 79.6           | 68.2                    | 65 200             |
|                   |                 | 16.0                | 78.7           | 68.0                    | 59 200             |
|                   |                 | 18.0                | 76.9           | 67.6                    | 49 600             |
|                   |                 | 20.0                | 75.2           | 67.0                    | 42 300             |
|                   |                 | 22.0                | 73.4           | 66.4                    | 36 700             |
|                   |                 | 24.0                | 71.6           | 65.8                    | 32 100             |
|                   |                 | 26.0                | 69.8           | 65.1                    | 28 300             |
| 70.1              | 230             | 28.0                | 67.9           | 64.2                    | 25 100             |
|                   |                 | 30.0                | 66.1           | 63.4                    | 22 500             |
|                   |                 | 32.0                | 64.2           | 62.4                    | 20 200             |
|                   |                 | 34.0                | 62.2           | 61.4                    | 18 200             |
|                   |                 | 36.0                | 60.3           | 60.2                    | 16 400             |
|                   |                 | 38.0                | 58.3           | 59.0                    | 14 900             |
|                   |                 | 40.0                | 56.2           | 57.7                    | 13 500             |
|                   |                 | 42.0                | 54.1           | 56.3                    | 12 200             |
|                   |                 | 44.0                | 52.0           | 54.7                    | 11 100             |
|                   |                 | 46.0                | 49.7           | 53.0                    | 10 100             |
|                   |                 | 48.0                | 47.4           | 51.2                    | 9 200              |
|                   |                 | 50.0                | 45.0           | 49.3                    | 8 300              |
|                   |                 | 52.0                | 42.5           | 47.1                    | 7 500              |
|                   |                 | 54.0                | 39.9           | 44.8                    | 6 800              |
|                   |                 | 56.0                | 37.1           | 42.2                    | 6 200              |
|                   |                 | 58.0                | 34.1           | 39.3                    | 5 600              |
|                   |                 | 60.0                | 30.9           | 36.1                    | 5 000              |
|                   |                 | 62.0                | 27.3           | 32.4                    | 4 500              |
|                   |                 | 11.6                | 82.8           | 71.9                    | 87 600*            |
|                   |                 | 12.0                | 82.5           | 71.8                    | 87 100*            |
|                   |                 | 13.0                | 81.7           | 71.7                    | 81 100             |
|                   |                 | 14.0                | 80.9           | 71.5                    | 72 100             |
|                   |                 | 15.0                | 80.0           | 71.3                    | 65 000             |
|                   |                 | 16.0                | 79.2           | 71.1                    | 58 900             |
|                   |                 | 18.0                | 77.5           | 70.7                    | 49 300             |
|                   |                 | 20.0                | 75.8           | 70.2                    | 42 100             |
|                   |                 | 22.0                | 74.1           | 69.6                    | 36 400             |
|                   |                 | 24.0                | 72.4           | 69.0                    | 31 800             |
|                   |                 | 26.0                | 70.7           | 68.3                    | 28 000             |
|                   |                 | 28.0                | 68.9           | 67.5                    | 24 900             |
|                   |                 | 30.0                | 67.2           | 66.7                    | 22 200             |
|                   |                 | 32.0                | 65.4           | 65.8                    | 19 900             |
|                   |                 | 34.0                | 63.6           | 64.8                    | 17 900             |
|                   |                 | 36.0                | 61.7           | 63.7                    | 16 200             |
|                   |                 | 38.0                | 59.8           | 62.6                    | 14 600             |
|                   |                 | 40.0                | 57.9           | 61.3                    | 13 200             |
|                   |                 | 42.0                | 55.9           | 60.0                    | 12 000             |
|                   |                 | 44.0                | 53.9           | 58.6                    | 10 800             |
|                   |                 | 46.0                | 51.8           | 57.0                    | 9 800              |
|                   |                 | 48.0                | 49.7           | 55.3                    | 8 900              |
|                   |                 | 50.0                | 47.5           | 53.5                    | 8 100              |
|                   |                 | 52.0                | 45.2           | 51.6                    | 7 300              |
|                   |                 | 54.0                | 42.8           | 49.4                    | 6 600              |
|                   |                 | 56.0                | 40.3           | 47.1                    | 5 900              |
|                   |                 | 58.0                | 37.7           | 44.6                    | 5 300              |
|                   |                 | 60.0                | 34.9           | 41.8                    | 4 700              |
|                   |                 | 62.0                | 31.8           | 38.7                    | 4 200              |
|                   |                 | 64.0                | 28.5           | 35.1                    | 3 700              |

# MANITOWOC ENGINEERING CO.

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



## LIFT CRANE CAPACITIES

**BOOM NO. 44 WITH HEAVY LIFT TOP**  
**75 750 kg COUNTERWEIGHT**  
**360 DEGREE RATING**

MEETS  
ANSI B30.5  
REQUIREMENTS

**M-250**

| BOOM<br>LGTH.<br>METERS    | BOOM<br>LGTH.<br>FEET | OPER.<br>RADIUS<br>METERS | BOOM<br>ANG.<br>DEG. | BOOM<br>POINT<br>ELEV.<br>METERS | CAPACITY<br>KILOGRAMS | BOOM<br>LGTH.<br>METERS    | BOOM<br>LGTH.<br>FEET | OPER.<br>RADIUS<br>METERS | BOOM<br>ANG.<br>DEG. | BOOM<br>POINT<br>ELEV.<br>METERS | CAPACITY<br>KILOGRAMS |
|----------------------------|-----------------------|---------------------------|----------------------|----------------------------------|-----------------------|----------------------------|-----------------------|---------------------------|----------------------|----------------------------------|-----------------------|
| <b>7<br/>3<br/>·<br/>2</b> | <b>2<br/>4<br/>0</b>  | 12.2                      | 82.7                 | 74.9                             | 84 200*               | <b>7<br/>9<br/>·<br/>2</b> | <b>2<br/>6<br/>0</b>  | 12.8                      | 82.8                 | 81.0                             | 76 800*               |
|                            |                       | 13.0                      | 82.0                 | 74.8                             | 81 100                |                            |                       | 13.0                      | 82.7                 | 80.9                             | 76 300*               |
|                            |                       | 14.0                      | 81.2                 | 74.6                             | 71 900                |                            |                       | 14.0                      | 81.9                 | 80.8                             | 72 000                |
|                            |                       | 15.0                      | 80.4                 | 74.4                             | 64 700                |                            |                       | 15.0                      | 81.2                 | 80.6                             | 64 800                |
|                            |                       | 16.0                      | 79.6                 | 74.2                             | 58 700                |                            |                       | 16.0                      | 80.5                 | 80.4                             | 58 700                |
|                            |                       | 18.0                      | 78.0                 | 73.8                             | 49 100                |                            |                       | 18.0                      | 79.0                 | 80.1                             | 49 200                |
|                            |                       | 20.0                      | 76.4                 | 73.3                             | 41 800                |                            |                       | 20.0                      | 77.5                 | 79.6                             | 41 900                |
|                            |                       | 22.0                      | 74.8                 | 72.8                             | 36 100                |                            |                       | 22.0                      | 76.0                 | 79.1                             | 36 200                |
|                            |                       | 24.0                      | 73.2                 | 72.2                             | 31 500                |                            |                       | 24.0                      | 74.5                 | 78.6                             | 31 600                |
|                            |                       | 26.0                      | 71.5                 | 71.5                             | 27 800                |                            |                       | 26.0                      | 73.0                 | 78.0                             | 27 800                |
|                            |                       | 28.0                      | 69.9                 | 70.8                             | 24 600                |                            |                       | 28.0                      | 71.5                 | 77.3                             | 24 700                |
|                            |                       | 30.0                      | 68.2                 | 70.0                             | 21 900                |                            |                       | 30.0                      | 69.9                 | 76.6                             | 22 000                |
|                            |                       | 32.0                      | 66.5                 | 69.2                             | 19 600                |                            |                       | 32.0                      | 68.4                 | 75.8                             | 19 700                |
|                            |                       | 34.0                      | 64.7                 | 68.2                             | 17 600                |                            |                       | 34.0                      | 66.8                 | 74.9                             | 17 700                |
|                            |                       | 36.0                      | 63.0                 | 67.2                             | 15 800                |                            |                       | 36.0                      | 65.2                 | 74.0                             | 15 900                |
|                            |                       | 38.0                      | 61.2                 | 66.1                             | 14 300                |                            |                       | 38.0                      | 63.6                 | 73.0                             | 14 400                |
|                            |                       | 40.0                      | 59.4                 | 64.9                             | 12 900                |                            |                       | 40.0                      | 62.0                 | 72.0                             | 13 000                |
|                            |                       | 42.0                      | 57.5                 | 63.7                             | 11 600                |                            |                       | 42.0                      | 60.3                 | 70.8                             | 11 700                |
|                            |                       | 44.0                      | 55.6                 | 62.3                             | 10 500                |                            |                       | 44.0                      | 58.6                 | 69.6                             | 10 600                |
|                            |                       | 46.0                      | 53.7                 | 60.9                             | 9 500                 |                            |                       | 46.0                      | 56.9                 | 68.3                             | 9 600                 |
|                            |                       | 48.0                      | 51.7                 | 59.3                             | 8 600                 |                            |                       | 48.0                      | 55.1                 | 67.0                             | 8 700                 |
|                            |                       | 50.0                      | 49.7                 | 57.6                             | 7 700                 |                            |                       | 50.0                      | 53.3                 | 65.5                             | 7 800                 |
|                            |                       | 52.0                      | 47.6                 | 55.8                             | 7 000                 |                            |                       | 52.0                      | 51.5                 | 63.9                             | 7 000                 |
|                            |                       | 54.0                      | 45.4                 | 53.9                             | 6 300                 |                            |                       | 54.0                      | 49.6                 | 62.2                             | 6 300                 |
|                            |                       | 56.0                      | 43.1                 | 51.8                             | 5 600                 |                            |                       | 56.0                      | 47.7                 | 60.4                             | 5 700                 |
|                            |                       | 58.0                      | 40.7                 | 49.5                             | 5 000                 |                            |                       | 58.0                      | 45.7                 | 58.5                             | 5 000                 |
|                            |                       | 60.0                      | 38.2                 | 47.0                             | 4 400                 |                            |                       | 60.0                      | 43.6                 | 56.4                             | 4 500                 |
|                            |                       | 62.0                      | 35.6                 | 44.3                             | 3 900                 |                            |                       | 62.0                      | 41.4                 | 54.2                             | 4 000                 |
|                            |                       | 64.0                      | 32.7                 | 41.2                             | 3 400                 |                            |                       | 64.0                      | 39.1                 | 51.8                             | 3 400                 |
|                            |                       | 66.0                      | 29.6                 | 37.8                             | 2 900                 |                            |                       | 66.0                      | 36.8                 | 49.2                             | 3 000                 |
|                            |                       | 68.0                      | 26.2                 | 34.0                             | 2 500                 |                            |                       | 68.0                      | 34.2                 | 46.3                             | 2 600                 |
|                            |                       |                           |                      |                                  |                       |                            |                       | 70.0                      | 31.5                 | 43.1                             | 2 100                 |
| <b>7<br/>6<br/>·<br/>2</b> | <b>2<br/>5<br/>0</b>  | 12.2                      | 83.0                 | 78.0                             | 81 200*               | <b>8<br/>2<br/>·<br/>3</b> | <b>2<br/>7<br/>0</b>  | 13.4                      | 82.6                 | 83.9                             | 69 800*               |
|                            |                       | 13.0                      | 82.4                 | 77.8                             | 79 800*               |                            |                       | 14.0                      | 82.2                 | 83.9                             | 68 800*               |
|                            |                       | 14.0                      | 81.6                 | 77.7                             | 72 300                |                            |                       | 15.0                      | 81.5                 | 83.7                             | 64 900                |
|                            |                       | 15.0                      | 80.8                 | 77.5                             | 65 100                |                            |                       | 16.0                      | 80.8                 | 83.5                             | 58 500                |
|                            |                       | 16.0                      | 80.1                 | 77.3                             | 59 000                |                            |                       | 18.0                      | 79.4                 | 83.2                             | 48 900                |
|                            |                       | 18.0                      | 78.5                 | 76.9                             | 49 400                |                            |                       | 20.0                      | 78.0                 | 82.7                             | 41 700                |
|                            |                       | 20.0                      | 77.0                 | 76.5                             | 42 200                |                            |                       | 22.0                      | 76.5                 | 82.3                             | 35 900                |
|                            |                       | 22.0                      | 75.4                 | 76.0                             | 36 500                |                            |                       | 24.0                      | 75.1                 | 81.7                             | 31 400                |
|                            |                       | 24.0                      | 73.9                 | 75.4                             | 31 900                |                            |                       | 26.0                      | 73.7                 | 81.2                             | 27 600                |
|                            |                       | 26.0                      | 72.3                 | 74.8                             | 28 100                |                            |                       | 28.0                      | 72.2                 | 80.5                             | 24 400                |
|                            |                       | 28.0                      | 70.7                 | 74.1                             | 25 000                |                            |                       | 30.0                      | 70.7                 | 79.8                             | 21 700                |
|                            |                       | 30.0                      | 69.1                 | 73.3                             | 22 300                |                            |                       | 32.0                      | 69.2                 | 79.1                             | 19 400                |
|                            |                       | 32.0                      | 67.5                 | 72.5                             | 20 000                |                            |                       | 34.0                      | 67.7                 | 78.3                             | 17 400                |
|                            |                       | 34.0                      | 65.8                 | 71.6                             | 18 000                |                            |                       | 36.0                      | 66.2                 | 77.4                             | 15 700                |
|                            |                       | 36.0                      | 64.2                 | 70.6                             | 16 200                |                            |                       | 38.0                      | 64.7                 | 76.4                             | 14 100                |
|                            |                       | 38.0                      | 62.5                 | 69.6                             | 14 700                |                            |                       | 40.0                      | 63.1                 | 75.4                             | 12 700                |
|                            |                       | 40.0                      | 60.7                 | 68.5                             | 13 300                |                            |                       | 42.0                      | 61.5                 | 74.4                             | 11 500                |
|                            |                       | 42.0                      | 59.0                 | 67.3                             | 12 000                |                            |                       | 44.0                      | 59.9                 | 73.2                             | 10 300                |
|                            |                       | 44.0                      | 57.2                 | 66.0                             | 10 900                |                            |                       | 46.0                      | 58.3                 | 72.0                             | 9 300                 |
|                            |                       | 46.0                      | 55.4                 | 64.6                             | 9 900                 |                            |                       | 48.0                      | 56.6                 | 70.7                             | 8 400                 |
|                            |                       | 48.0                      | 53.5                 | 63.2                             | 9 000                 |                            |                       | 50.0                      | 54.9                 | 69.3                             | 7 600                 |
|                            |                       | 50.0                      | 51.6                 | 61.6                             | 8 100                 |                            |                       | 52.0                      | 53.2                 | 67.8                             | 6 800                 |
|                            |                       | 52.0                      | 49.6                 | 59.9                             | 7 400                 |                            |                       | 54.0                      | 51.4                 | 66.2                             | 6 100                 |
|                            |                       | 54.0                      | 47.6                 | 58.1                             | 6 700                 |                            |                       | 56.0                      | 49.6                 | 64.5                             | 5 400                 |
|                            |                       | 56.0                      | 45.5                 | 56.2                             | 6 000                 |                            |                       | 58.0                      | 47.7                 | 62.7                             | 4 800                 |
|                            |                       | 58.0                      | 43.4                 | 54.1                             | 5 400                 |                            |                       | 60.0                      | 45.8                 | 60.8                             | 4 200                 |
|                            |                       | 60.0                      | 41.1                 | 51.8                             | 4 800                 |                            |                       | 62.0                      | 43.8                 | 58.8                             | 3 700                 |
|                            |                       | 62.0                      | 38.7                 | 49.4                             | 4 300                 |                            |                       | 64.0                      | 41.7                 | 56.5                             | 3 200                 |
|                            |                       | 64.0                      | 36.2                 | 46.7                             | 3 800                 |                            |                       | 66.0                      | 39.6                 | 54.2                             | 2 700                 |
|                            |                       | 66.0                      | 33.5                 | 43.8                             | 3 300                 |                            |                       | 68.0                      | 37.3                 | 51.6                             | 2 300                 |
|                            |                       | 68.0                      | 30.6                 | 40.5                             | 2 900                 |                            |                       | 70.0                      | 34.9                 | 48.8                             | 1 900                 |
|                            |                       | 70.0                      | 27.5                 | 36.8                             | 2 500                 |                            |                       |                           |                      |                                  |                       |

# MANITOWOC ENGINEERING CO.

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



## LIFTCRANE CAPACITIES

BOOM NO. 44 WITH HEAVY LIFT TOP  
75 750 kg COUNTERWEIGHT  
360 DEGREE RATING

MEETS  
ANSI B30.5  
REQUIREMENTS

M-250

| BOOM<br>LGTH.<br>METERS | BOOM<br>LGTH.<br>FEET | OPER.<br>RADIUS<br>METERS | BOOM<br>ANG.<br>DEG. | BOOM<br>POINT<br>ELEV.<br>METERS | CAPACITY<br>KILOGRAMS |
|-------------------------|-----------------------|---------------------------|----------------------|----------------------------------|-----------------------|
| 8<br>5<br>3             | 2<br>8<br>0           | 13.4                      | 82.9                 | 87.0                             | 64 700*               |
|                         |                       | 14.0                      | 82.5                 | 86.9                             | 64 400*               |
|                         |                       | 15.0                      | 81.8                 | 86.8                             | 63 400*               |
|                         |                       | 16.0                      | 81.1                 | 86.6                             | 59 600*               |
|                         |                       | 18.0                      | 79.8                 | 86.3                             | 48 900                |
|                         |                       | 20.0                      | 78.4                 | 85.9                             | 41 600                |
|                         |                       | 22.0                      | 77.0                 | 85.4                             | 35 900                |
|                         |                       | 24.0                      | 75.6                 | 84.9                             | 31 300                |
|                         |                       | 26.0                      | 74.3                 | 84.3                             | 27 500                |
|                         |                       | 28.0                      | 72.8                 | 83.7                             | 24 300                |
|                         |                       | 30.0                      | 71.4                 | 83.1                             | 21 600                |
|                         |                       | 32.0                      | 70.0                 | 82.3                             | 19 300                |
|                         |                       | 34.0                      | 68.6                 | 81.6                             | 17 300                |
|                         |                       | 36.0                      | 67.1                 | 80.7                             | 15 600                |
|                         |                       | 38.0                      | 65.6                 | 79.8                             | 14 000                |
|                         |                       | 40.0                      | 64.1                 | 78.9                             | 12 600                |
|                         |                       | 42.0                      | 62.6                 | 77.8                             | 11 400                |
|                         |                       | 44.0                      | 61.1                 | 76.7                             | 10 200                |
|                         |                       | 46.0                      | 59.5                 | 75.6                             | 9 200                 |
|                         |                       | 48.0                      | 58.0                 | 74.3                             | 8 300                 |
|                         |                       | 50.0                      | 56.4                 | 73.0                             | 7 500                 |
|                         |                       | 52.0                      | 54.7                 | 71.6                             | 6 700                 |
|                         |                       | 54.0                      | 53.0                 | 70.1                             | 5 900                 |
|                         |                       | 56.0                      | 51.3                 | 68.5                             | 5 300                 |
|                         |                       | 58.0                      | 49.6                 | 66.8                             | 4 700                 |
|                         |                       | 60.0                      | 47.8                 | 65.0                             | 4 100                 |
|                         |                       | 62.0                      | 45.9                 | 63.1                             | 3 600                 |
|                         |                       | 64.0                      | 44.0                 | 61.1                             | 3 100                 |
|                         |                       | 66.0                      | 42.0                 | 58.9                             | 2 600                 |
|                         |                       | 68.0                      | 39.9                 | 56.5                             | 2 200                 |
|                         |                       | 70.0                      | 37.8                 | 54.0                             | 1 800                 |
| 8<br>8<br>4             | 2<br>9<br>0           | 14.0                      | 82.8                 | 90.0                             | 59 800*               |
|                         |                       | 15.0                      | 82.1                 | 89.9                             | 59 400*               |
|                         |                       | 16.0                      | 81.5                 | 89.7                             | 57 600*               |
|                         |                       | 18.0                      | 80.1                 | 89.4                             | 49 000                |
|                         |                       | 20.0                      | 78.8                 | 89.0                             | 41 400                |
|                         |                       | 22.0                      | 77.5                 | 88.5                             | 35 700                |
|                         |                       | 24.0                      | 76.2                 | 88.0                             | 31 100                |
|                         |                       | 26.0                      | 74.8                 | 87.5                             | 27 300                |
|                         |                       | 28.0                      | 73.5                 | 86.9                             | 24 100                |
|                         |                       | 30.0                      | 72.1                 | 86.3                             | 21 500                |
|                         |                       | 32.0                      | 70.7                 | 85.6                             | 19 100                |
|                         |                       | 34.0                      | 69.3                 | 84.8                             | 17 100                |
|                         |                       | 36.0                      | 67.9                 | 84.0                             | 15 400                |
|                         |                       | 38.0                      | 66.5                 | 83.2                             | 13 800                |
|                         |                       | 40.0                      | 65.1                 | 82.2                             | 12 400                |
|                         |                       | 42.0                      | 63.7                 | 81.3                             | 11 200                |
|                         |                       | 44.0                      | 62.2                 | 80.2                             | 10 000                |
|                         |                       | 46.0                      | 60.7                 | 79.1                             | 9 000                 |
|                         |                       | 48.0                      | 59.2                 | 77.9                             | 8 100                 |
|                         |                       | 50.0                      | 57.7                 | 76.7                             | 7 300                 |
|                         |                       | 52.0                      | 56.1                 | 75.3                             | 6 500                 |
|                         |                       | 54.0                      | 54.5                 | 73.9                             | 5 800                 |
|                         |                       | 56.0                      | 52.9                 | 72.4                             | 5 100                 |
|                         |                       | 58.0                      | 51.3                 | 70.8                             | 4 500                 |
|                         |                       | 60.0                      | 49.6                 | 69.1                             | 3 900                 |
|                         |                       | 62.0                      | 47.8                 | 67.3                             | 3 400                 |
|                         |                       | 64.0                      | 46.0                 | 65.4                             | 2 900                 |
|                         |                       | 66.0                      | 44.2                 | 63.4                             | 2 400                 |
|                         |                       | 68.0                      | 42.3                 | 61.2                             | 2 000                 |

| BOOM<br>LGTH.<br>METERS | BOOM<br>LGTH.<br>FEET | OPER.<br>RADIUS<br>METERS | BOOM<br>ANG.<br>DEG. | BOOM<br>POINT<br>ELEV.<br>METERS | CAPACITY<br>KILOGRAMS |
|-------------------------|-----------------------|---------------------------|----------------------|----------------------------------|-----------------------|
| 9<br>1<br>4             | 3<br>0<br>0           | 14.0                      | 83.0                 | 93.1                             | 55 900*               |
|                         |                       | 15.0                      | 82.4                 | 93.0                             | 55 600*               |
|                         |                       | 16.0                      | 81.7                 | 92.8                             | 55 000*               |
|                         |                       | 18.0                      | 80.5                 | 92.5                             | 49 000                |
|                         |                       | 20.0                      | 79.2                 | 92.1                             | 41 200                |
|                         |                       | 22.0                      | 77.9                 | 91.7                             | 35 400                |
|                         |                       | 24.0                      | 76.6                 | 91.2                             | 30 800                |
|                         |                       | 26.0                      | 75.3                 | 90.7                             | 27 000                |
|                         |                       | 28.0                      | 74.0                 | 90.1                             | 23 900                |
|                         |                       | 30.0                      | 72.7                 | 89.5                             | 21 200                |
|                         |                       | 32.0                      | 71.4                 | 88.8                             | 18 800                |
|                         |                       | 34.0                      | 70.1                 | 88.1                             | 16 800                |
|                         |                       | 36.0                      | 68.7                 | 87.3                             | 15 100                |
|                         |                       | 38.0                      | 67.4                 | 86.5                             | 13 500                |
|                         |                       | 40.0                      | 66.0                 | 85.6                             | 12 100                |
|                         |                       | 42.0                      | 64.6                 | 84.7                             | 10 900                |
|                         |                       | 44.0                      | 63.2                 | 83.7                             | 9 700                 |
|                         |                       | 46.0                      | 61.8                 | 82.6                             | 8 700                 |
|                         |                       | 48.0                      | 60.3                 | 81.5                             | 7 800                 |
|                         |                       | 50.0                      | 58.9                 | 80.3                             | 6 900                 |
|                         |                       | 52.0                      | 57.4                 | 79.0                             | 6 100                 |
|                         |                       | 54.0                      | 55.9                 | 77.6                             | 5 400                 |
|                         |                       | 56.0                      | 54.3                 | 76.2                             | 4 800                 |
|                         |                       | 58.0                      | 52.8                 | 74.7                             | 4 100                 |
|                         |                       | 60.0                      | 51.2                 | 73.1                             | 3 600                 |
|                         |                       | 62.0                      | 49.5                 | 71.4                             | 3 100                 |
|                         |                       | 64.0                      | 47.9                 | 69.6                             | 2 600                 |
|                         |                       | 66.0                      | 46.1                 | 67.7                             | 2 100                 |