

MANITOWOC ENGINEERING CO.

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



LIFT CRANE CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

M-1200

BOOM NO. 72 WITH 1,433 TON BOOM POINT

MAST NO. 75

60' RINGER ATTACHMENT ON SCREW JACK PEDESTALS

52,000 LB. CRANE COUNTERWEIGHT

1,753,600 LB. AUXILIARY COUNTERWEIGHT

360 DEGREE RATING

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 (*).

WEIGHT OF ALL LOAD BLOCKS, HOOKS, SLINGS, HOIST LINES, ETC., BENEATH BOOM 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 ROLLER PATH LEVEL WITHIN A TOLERANCE OF 1-1/4" IN 60' AND PROPERLY SUPPORTED. REFER TO BOOM RIGGING NO. 173399 AND WIRE ROPE SPECIFICATION CHART NO. 7683-A. CRANE OPERATOR JUDGMENT MUST BE USED TO ALLOW FOR DYNAMIC LOAD EFFECTS OF SWINGING, HOISTING OR LOWERING, WIND CONDITIONS, AS WELL AS ADVERSE OPERATING CONDITIONS AND PHYSICAL MACHINE DEPRECIATION.

MACHINE MAY BE OPERATED IN WINDS UP TO 35 MPH PROVIDED CRANE OPERATOR JUDGMENT IS USED TO ALLOW FOR WIND EFFECT ON THE LIFTED LOAD AND OTHER CONSIDERATIONS NOTED ON 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 TO APPROXIMATELY 75 DEGREE BOOM ANGLE WHEN WIND EXCEEDS 35 MPH. LOWER BOOM TO GROUND WHEN WIND IS ABOVE 50 MPH.

OPERATING RADIUS IS HORIZONTAL DISTANCE FROM AXIS OF ROTATION TO CENTER OF VERTICAL HOIST LINE OR LOAD BLOCK. BOOM ANGLE IS ANGLE BETWEEN HORIZONTAL AND CENTERLINE OF BOOM BUTT AND INSERTS, AND IS AN INDICATION OF OPERATING RADIUS. IN ALL CASES, OPERATING RADIUS SHALL GOVERN CAPACITY. BOOM POINT ELEVATION IS VERTICAL DISTANCE FROM GROUND LEVEL TO CENTERLINE OF BOOM POINT SHAFT.

MACHINE EQUIPPED WITH 60' RINGER ATTACHMENT, 30' 9" CRAWLERS, 48" TREADS, 28' RETRACTABLE GANTRY, 150' NO. 75 MAST, 32 PART BOOM HOIST REEVING, STRAP BOOM PENDANTS, 52,000 LB. CRANE COUNTERWEIGHT AND 1,753,600 LB. AUXILIARY COUNTERWEIGHT.

MAXIMUM BOOM LENGTH
LIFTED UNASSISTED = 253'

LOAD BLOCK ON GROUND AT START.

CONSULT JIB CHART FOR JIB CAPACITIES. JIB MUST BE REMOVED FOR USE OF THIS CHART.

WARNING: CHECK AMOUNT OF AUXILIARY COUNTERWEIGHT ON MACHINE BEFORE USE OF THIS CHART.

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | CAPACI TY POUNDS |
|-----------------------|-----------------------|----------------------|--------------------------------|---------------------|
| 1 5 3 | 56 | 82.0 | 162.0 | 2,866,500* |
| | 58 | 81.2 | 161.7 | 2,854,600 |
| | 60 | 80.5 | 161.2 | 2,672,300 |
| | 65 | 78.5 | 160.1 | 2,301,400 |
| | 70 | 76.6 | 158.8 | 2,017,400 |
| | 75 | 74.7 | 157.2 | 1,793,000 |
| | 80 | 72.7 | 155.5 | 1,611,200 |
| | 85 | 70.7 | 153.6 | 1,461,000 |
| | 90 | 68.6 | 151.5 | 1,334,700 |
| | 95 | 66.6 | 149.2 | 1,227,100 |
| | 100 | 64.5 | 146.7 | 1,134,300 |
| | 105 | 62.3 | 143.9 | 1,053,400 |
| | 110 | 60.2 | 140.8 | 982,300 |
| | 115 | 57.9 | 137.5 | 919,300 |
| | 120 | 55.6 | 133.9 | 863,100 |
| | 125 | 53.2 | 130.0 | 812,600 |
| | 130 | 50.8 | 125.8 | 767,000 |
| | 135 | 48.2 | 121.1 | 725,600 |
| | 140 | 45.5 | 116.0 | 687,900 |
| | 145 | 42.7 | 110.4 | 653,400 |
| | 150 | 39.7 | 104.1 | 621,700 |
| | 155 | 36.5 | 97.1 | 592,400 |
| | 160 | 33.0 | 89.2 | 565,300 |
| | 165 | 29.1 | 80.0 | 540,100 |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | CAPACI TY POUNDS |
|-----------------------|-----------------------|----------------------|--------------------------------|---------------------|
| 1 7 8 | 65 | 80.2 | 185.7 | 2,293,500 |
| | 70 | 78.5 | 184.6 | 2,009,400 |
| | 75 | 76.9 | 183.3 | 1,784,900 |
| | 80 | 75.2 | 181.8 | 1,603,000 |
| | 85 | 73.5 | 180.2 | 1,452,700 |
| | 90 | 71.8 | 178.5 | 1,326,400 |
| | 95 | 70.1 | 176.5 | 1,218,700 |
| | 100 | 68.3 | 174.4 | 1,125,900 |
| | 105 | 66.6 | 172.1 | 1,045,000 |
| | 110 | 64.8 | 169.6 | 973,800 |
| | 115 | 62.9 | 166.9 | 910,800 |
| | 120 | 61.1 | 164.0 | 854,600 |
| | 125 | 59.2 | 160.9 | 804,100 |
| | 130 | 57.2 | 157.5 | 758,600 |
| | 135 | 55.3 | 153.9 | 717,200 |
| | 140 | 53.2 | 150.0 | 679,500 |
| | 145 | 51.1 | 145.8 | 645,000 |
| | 150 | 48.9 | 141.3 | 613,300 |
| | 155 | 46.7 | 136.4 | 584,100 |
| | 160 | 44.4 | 131.1 | 557,100 |
| | 165 | 41.9 | 125.4 | 532,000 |
| | 170 | 39.3 | 119.1 | 508,600 |
| | 175 | 36.6 | 112.2 | 486,800 |
| | 180 | 33.6 | 104.4 | 466,500 |
| | 185 | 30.4 | 95.7 | 447,300 |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | CAPACI TY POUNDS |
|-----------------------|-----------------------|----------------------|--------------------------------|---------------------|
| 2 0 3 | 65 | 81.4 | 211.2 | 2,287,700 |
| | 70 | 80.0 | 210.2 | 2,003,400 |
| | 75 | 78.5 | 209.1 | 1,778,900 |
| | 80 | 77.1 | 207.8 | 1,596,900 |
| | 85 | 75.6 | 206.4 | 1,446,600 |
| | 90 | 74.1 | 204.9 | 1,320,200 |
| | 95 | 72.6 | 203.2 | 1,212,500 |
| | 100 | 71.1 | 201.4 | 1,119,600 |
| | 105 | 69.6 | 199.4 | 1,038,700 |
| | 110 | 68.1 | 197.3 | 967,600 |
| | 115 | 66.5 | 195.0 | 904,500 |
| | 120 | 65.0 | 192.6 | 848,300 |
| | 125 | 63.4 | 189.9 | 797,800 |
| | 130 | 61.8 | 187.1 | 752,200 |
| | 135 | 60.1 | 184.1 | 710,900 |
| | 140 | 58.4 | 180.9 | 673,200 |
| | 145 | 56.7 | 177.5 | 638,700 |
| | 150 | 55.0 | 173.9 | 607,100 |
| | 155 | 53.2 | 170.0 | 577,800 |
| | 160 | 51.4 | 165.9 | 550,800 |
| | 165 | 49.5 | 161.5 | 525,800 |
| | 170 | 47.6 | 156.8 | 502,500 |
| | 175 | 45.5 | 151.7 | 480,700 |
| | 180 | 43.5 | 146.3 | 460,400 |
| | 185 | 41.3 | 140.4 | 441,300 |
| | 190 | 39.0 | 134.1 | 423,400 |
| | 195 | 36.6 | 127.2 | 406,600 |
| | 200 | 34.1 | 119.6 | 390,700 |
| | 205 | 31.3 | 111.2 | 375,700 |
| | 210 | 28.3 | 101.8 | 361,500 |

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| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | CAPACI TY POUNDS |
|-----------------------|-----------------------|----------------------|--------------------------------|---------------------|
| 2 2 8 | 70 | 81.1 | 235.7 | 1,995,000 |
| | 75 | 79.8 | 234.7 | 1,770,200 |
| | 80 | 78.5 | 233.6 | 1,588,200 |
| | 85 | 77.2 | 232.3 | 1,437,700 |
| | 90 | 75.9 | 231.0 | 1,311,300 |
| | 95 | 74.6 | 229.5 | 1,203,500 |
| | 100 | 73.3 | 227.9 | 1,110,600 |
| | 105 | 72.0 | 226.2 | 1,029,700 |
| | 110 | 70.6 | 224.3 | 958,500 |
| | 115 | 69.3 | 222.3 | 895,400 |
| | 120 | 67.9 | 220.2 | 839,200 |
| | 125 | 66.5 | 217.9 | 788,700 |
| | 130 | 65.1 | 215.5 | 743,100 |
| | 135 | 63.7 | 212.9 | 701,700 |
| | 140 | 62.3 | 210.2 | 664,000 |
| | 145 | 60.8 | 207.3 | 629,500 |
| | 150 | 59.4 | 204.2 | 597,900 |
| | 155 | 57.9 | 201.0 | 568,700 |
| | 160 | 56.3 | 197.5 | 541,600 |
| | 165 | 54.8 | 193.9 | 516,600 |
| | 170 | 53.2 | 190.0 | 493,300 |
| | 175 | 51.6 | 185.9 | 471,500 |
| | 180 | 49.9 | 181.6 | 451,200 |
| | 185 | 48.2 | 177.0 | 432,200 |
| | 190 | 46.4 | 172.1 | 414,300 |
| | 195 | 44.6 | 166.9 | 397,500 |
| | 200 | 42.8 | 161.4 | 381,700 |
| | 205 | 40.8 | 155.4 | 366,700 |
| | 210 | 38.8 | 149.0 | 352,500 |
| | 215 | 36.6 | 142.2 | 339,100 |
| | 220 | 34.4 | 134.7 | 326,400 |
| | 225 | 32.0 | 126.6 | 314,300 |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | CAPACI TY POUNDS |
|-----------------------|-----------------------|----------------------|--------------------------------|---------------------|
| 2 5 3 | 70 | 82.0 | 261.0 | 1,986,500 |
| | 75 | 80.8 | 260.2 | 1,761,600 |
| | 80 | 79.7 | 259.2 | 1,579,500 |
| | 85 | 78.5 | 258.1 | 1,428,900 |
| | 90 | 77.3 | 256.9 | 1,302,400 |
| | 95 | 76.2 | 255.5 | 1,194,600 |
| | 100 | 75.0 | 254.1 | 1,101,600 |
| | 105 | 73.8 | 252.6 | 1,020,600 |
| | 110 | 72.6 | 250.9 | 949,400 |
| | 115 | 71.4 | 249.1 | 886,300 |
| | 120 | 70.2 | 247.3 | 830,000 |
| | 125 | 69.0 | 245.3 | 779,500 |
| | 130 | 67.8 | 243.1 | 733,900 |
| | 135 | 66.5 | 240.8 | 692,500 |
| | 140 | 65.3 | 238.5 | 654,800 |
| | 145 | 64.0 | 235.9 | 620,300 |
| | 150 | 62.7 | 233.2 | 588,600 |
| | 155 | 61.4 | 230.4 | 559,400 |
| | 160 | 60.1 | 227.4 | 532,400 |
| | 165 | 58.8 | 224.3 | 507,300 |
| | 170 | 57.4 | 221.0 | 484,000 |
| | 175 | 56.0 | 217.5 | 462,200 |
| | 180 | 54.6 | 213.9 | 441,900 |
| | 185 | 53.2 | 210.0 | 422,900 |
| | 190 | 51.7 | 206.0 | 405,000 |
| | 195 | 50.2 | 201.7 | 388,200 |
| | 200 | 48.7 | 197.2 | 372,400 |
| | 205 | 47.2 | 192.4 | 357,400 |
| | 210 | 45.6 | 187.4 | 343,300 |
| | 215 | 43.9 | 182.1 | 329,900 |
| | 220 | 42.2 | 176.4 | 317,200 |
| | 225 | 40.4 | 170.4 | 305,100 |
| | 230 | 38.6 | 164.0 | 293,700 |
| | 235 | 36.7 | 157.2 | 282,700 |
| | 240 | 34.6 | 149.8 | 272,300 |
| | 245 | 32.5 | 141.8 | 262,300 |
| | 250 | 30.2 | 133.1 | 252,800 |
| | 255 | 27.8 | 123.5 | 243,700 |