

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

**BOOM NO. 44 WITH 5' TOP
LUFFING JIB NO. 133A
167,000 LB. COUNTERWEIGHT
360 DEGREE RATING**

**MEETS
ANSI B30.5
REQUIREMENTS**

CAPACITIES FOR VARIOUS BOOM LENGTHS AND OPERATING RADIUS 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, WEIGHT BALL, SLINGS, HOIST LINES, ETC., BENEATH BOOM POINT SHEAVES, IS CONSIDERED PART OF MAIN BOOM LOAD. WEIGHT OF LUFFING JIB AND 5,000 LBS. SUSPENDED BENEATH LUFFING JIB POINT SHEAVES HAVE BEEN INCLUDED IN CAPACITY DETERMINATION. BOOM IS NOT TO BE LOWERED BEYOND RADIUS 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. DURING OPERATION, LUFFING JIB MUST BE MAINTAINED AT PROPER BOOM TO LUFFING JIB ANGLE SHOWN IN TABLE. REFER TO FOLD UNDER LUFFING JIB ASSEMBLY NO. 175501, WIRE ROPE SPECIFICATION CHART NO. 7581-K, LUFFING JIB RAISING PROCEDURE CHART NO. 7711-A AND COUNTERWEIGHT ARRANGEMENT CHART NO. 7692-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 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 WHEN WIND IS ABOVE OPERATING CONDITIONS STATED. LOWER BOOM AND LUFFING JIB TO GROUND WHEN WIND IS ABOVE SPEED REFERRED TO IN MAXIMUM ALLOWABLE WIND CONDITIONS CHART NO. 7785-A.

MACHINE TO TRAVEL ON A FIRM, LEVEL AND UNIFORMLY SUPPORTING SURFACE WITH BOOM WITHIN ANGLE RANGE SHOWN IN CAPACITY CHART AND LUFFING JIB SET AT PROPER BOOM TO LUFFING JIB ANGLE SHOWN IN TABLE. REFER TO MAXIMUM ALLOWABLE TRAVEL SPECIFICATION CHART NO. 7786-A.

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 30' 9" CRAWLERS, 48" TREADS, 2' BOOM HINGE ADAPTOR, 28' RETRACTABLE GANTRY, 12 PART BOOM HOIST REEVING, FOUR 1-1/2" BOOM PENDANTS, 10 PART LUFFING JIB HOIST REEVING, TWO 1-1/2" LUFFING JIB PENDANTS AND BACKSTAYS, AND 167,000 LB. COUNTERWEIGHT.

| LUFFING JIB POSITION DURING OPERATION | |
|---------------------------------------|---------------------------|
| LUFFING JIB LENGTH - FEET | BOOM TO LUFFING JIB ANGLE |
| 70 | 145 DEGREES |
| 80 - 90 | 150 DEGREES |
| 100 - 110 | 160 DEGREES |
| 120 - 200 | 168 DEGREES |

| WIND LIMITS DURING OPERATION | | | | | |
|---|--------------------|------------------------------|--------------------|------------------------------|--------------------|
| BASED ON WIND VELOCITY MEASURED AT 100 FT. ELEVATION WITH VELOCITY FACTOR FOR SUBURBAN AREAS, CITY OUTSKIRTS, AND ROLLING TERRAIN | | | | | |
| 25 MPH MAXIMUM WIND VELOCITY | | 20 MPH MAXIMUM WIND VELOCITY | | 15 MPH MAXIMUM WIND VELOCITY | |
| BOOM LENGTH | LUFFING JIB LENGTH | BOOM LENGTH | LUFFING JIB LENGTH | BOOM LENGTH | LUFFING JIB LENGTH |
| FEET | FEET | FEET | FEET | FEET | FEET |
| 85 - 95 | 70 - 160 | 85 - 95 | 170 - 200 | 105 - 115 | 200 |
| 105 - 115 | 70 - 140 | 105 - 115 | 150 - 190 | 125 - 135 | 180 - 200 |
| 125 - 135 | 70 - 130 | 125 - 135 | 140 - 170 | 145 - 155 | 160 - 200 |
| 145 - 155 | 70 - 120 | 145 - 155 | 130 - 150 | 165 | 150 - 200 |
| 165 | 70 - 100 | 165 | 110 - 140 | | |

CONSULT CHART NO. 7716-A FOR LUFFING JIB CAPACITIES

MANITOWOC ENGINEERING CO.

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



LIFTCRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

**BOOM NO. 44 WITH 5' TOP
70' LUFFING JIB NO. 133A
SET AT 145 DEGREE BOOM TO LUFFING JIB ANGLE
167,000 LB. COUNTERWEIGHT
360 DEGREE RATING**

**MEETS
ANSI B30.5
REQUIREMENTS**

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|-----------------|-----------------|----------------|-----------------------|----------------------|
| 85 | 22 | 83.0 | 93.7 | 300,000* |
| | 23 | 82.3 | 93.5 | 295,700* |
| | 24 | 81.6 | 93.3 | 293,900* |
| | 25 | 80.9 | 93.1 | 292,200* |
| | 26 | 80.2 | 92.9 | 290,500* |
| | 27 | 79.5 | 92.7 | 289,000* |
| | 28 | 78.9 | 92.4 | 287,400* |
| | 29 | 78.2 | 92.1 | 286,000* |
| | 30 | 77.5 | 91.9 | 278,400 |
| | 32 | 76.1 | 91.3 | 246,800 |
| | 34 | 74.6 | 90.6 | 220,700 |
| | 36 | 73.2 | 89.9 | 198,800 |
| | 38 | 71.8 | 89.1 | 180,200 |
| | 40 | 70.3 | 88.3 | 164,300 |
| | 42 | 68.8 | 87.4 | 150,400 |
| | 44 | 67.4 | 86.5 | 138,200 |
| | 46 | 65.8 | 85.4 | 127,400 |
| | 48 | 64.3 | 84.4 | 117,800 |
| | 50 | 62.8 | 83.2 | 109,200 |
| | 55 | 58.8 | 80.0 | 91,100 |
| 60 | 54.6 | 76.3 | 76,700 | |
| 65 | 50.1 | 71.9 | 65,100 | |
| 70 | 45.3 | 66.7 | 55,400 | |
| 75 | 39.9 | 60.6 | 47,200 | |
| 95 | 24 | 82.5 | 103.5 | 289,700* |
| | 25 | 81.9 | 103.3 | 288,100* |
| | 26 | 81.3 | 103.1 | 286,700* |
| | 27 | 80.7 | 102.9 | 285,300* |
| | 28 | 80.1 | 102.7 | 284,000* |
| | 29 | 79.4 | 102.4 | 282,700* |
| | 30 | 78.8 | 102.2 | 279,600 |
| | 32 | 77.6 | 101.7 | 247,800 |
| | 34 | 76.3 | 101.1 | 221,600 |
| | 36 | 75.0 | 100.5 | 199,700 |
| | 38 | 73.8 | 99.8 | 181,100 |
| | 40 | 72.5 | 99.1 | 165,000 |
| | 42 | 71.2 | 98.3 | 151,100 |
| | 44 | 69.9 | 97.4 | 138,900 |
| | 46 | 68.6 | 96.6 | 128,100 |
| | 48 | 67.3 | 95.6 | 118,400 |
| | 50 | 65.9 | 94.6 | 109,800 |
| | 55 | 62.5 | 91.9 | 91,600 |
| | 60 | 58.9 | 88.7 | 77,200 |
| | 65 | 55.2 | 85.0 | 65,500 |
| 70 | 51.2 | 80.9 | 55,800 | |
| 75 | 47.1 | 76.0 | 47,600 | |
| 80 | 42.5 | 70.4 | 40,600 | |
| 85 | 37.5 | 63.8 | 34,500 | |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|-----------------|-----------------|----------------|-----------------------|----------------------|
| 105 | 25 | 82.7 | 113.5 | 284,800* |
| | 26 | 82.1 | 113.3 | 283,500* |
| | 27 | 81.6 | 113.1 | 282,300* |
| | 28 | 81.0 | 112.9 | 281,100* |
| | 29 | 80.5 | 112.7 | 280,000* |
| | 30 | 79.9 | 112.5 | 278,900* |
| | 32 | 78.8 | 112.0 | 248,500 |
| | 34 | 77.7 | 111.5 | 222,300 |
| | 36 | 76.5 | 110.9 | 200,300 |
| | 38 | 75.4 | 110.3 | 181,700 |
| | 40 | 74.2 | 109.7 | 165,600 |
| | 42 | 73.1 | 109.0 | 151,700 |
| | 44 | 71.9 | 108.2 | 139,400 |
| | 46 | 70.7 | 107.4 | 128,600 |
| | 48 | 69.6 | 106.6 | 118,900 |
| | 50 | 68.4 | 105.7 | 110,300 |
| | 55 | 65.3 | 103.3 | 92,100 |
| | 60 | 62.2 | 100.5 | 77,700 |
| | 65 | 59.0 | 97.4 | 65,900 |
| | 70 | 55.7 | 93.8 | 56,200 |
| 75 | 52.2 | 89.8 | 48,000 | |
| 80 | 48.5 | 85.2 | 40,900 | |
| 85 | 44.5 | 79.9 | 34,900 | |
| 90 | 40.2 | 73.9 | 29,600 | |
| 95 | 35.5 | 66.7 | 24,900 | |
| 115 | 26 | 82.8 | 123.5 | 280,700* |
| | 27 | 82.3 | 123.3 | 279,700* |
| | 28 | 81.8 | 123.1 | 278,700* |
| | 29 | 81.3 | 122.9 | 277,700* |
| | 30 | 80.8 | 122.7 | 276,800* |
| | 32 | 79.8 | 122.3 | 249,200 |
| | 34 | 78.8 | 121.8 | 222,900 |
| | 36 | 77.7 | 121.3 | 200,900 |
| | 38 | 76.7 | 120.7 | 182,200 |
| | 40 | 75.7 | 120.1 | 166,100 |
| | 42 | 74.6 | 119.5 | 152,100 |
| | 44 | 73.6 | 118.8 | 139,800 |
| | 46 | 72.5 | 118.1 | 129,000 |
| | 48 | 71.4 | 117.4 | 119,300 |
| | 50 | 70.4 | 116.6 | 110,600 |
| | 55 | 67.7 | 114.4 | 92,400 |
| | 60 | 64.9 | 111.9 | 77,900 |
| | 65 | 62.0 | 109.1 | 66,100 |
| | 70 | 59.1 | 106.0 | 56,300 |
| | 75 | 56.1 | 102.5 | 48,100 |
| 80 | 52.9 | 98.6 | 41,000 | |
| 85 | 49.6 | 94.2 | 34,900 | |
| 90 | 46.1 | 89.2 | 29,600 | |
| 95 | 42.3 | 83.6 | 24,900 | |
| 100 | 38.3 | 77.2 | 20,800 | |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|-----------------|-----------------|----------------|-----------------------|----------------------|
| 125 | 27 | 82.9 | 133.4 | 253,000* |
| | 28 | 82.5 | 133.2 | 251,400* |
| | 29 | 82.0 | 133.1 | 249,900* |
| | 30 | 81.5 | 132.9 | 248,400* |
| | 32 | 80.6 | 132.5 | 245,500* |
| | 34 | 79.7 | 132.1 | 223,200 |
| | 36 | 78.7 | 131.6 | 201,200 |
| | 38 | 77.8 | 131.1 | 182,500 |
| | 40 | 76.8 | 130.5 | 166,300 |
| | 42 | 75.9 | 130.0 | 152,300 |
| | 44 | 74.9 | 129.4 | 140,000 |
| | 46 | 74.0 | 128.7 | 129,100 |
| | 48 | 73.0 | 128.0 | 119,400 |
| | 50 | 72.0 | 127.3 | 110,800 |
| | 55 | 69.6 | 125.3 | 92,500 |
| | 60 | 67.0 | 123.1 | 78,000 |
| | 65 | 64.5 | 120.6 | 66,200 |
| | 70 | 61.9 | 117.8 | 56,400 |
| | 75 | 59.2 | 114.7 | 48,200 |
| | 80 | 56.4 | 111.2 | 41,100 |
| 85 | 53.5 | 107.4 | 35,000 | |
| 90 | 50.5 | 103.2 | 29,700 | |
| 95 | 47.3 | 98.4 | 25,000 | |
| 100 | 44.0 | 93.1 | 20,800 | |
| 105 | 40.4 | 87.1 | 17,100 | |
| 110 | 36.5 | 80.3 | 13,800 | |
| 135 | 28 | 83.0 | 143.4 | 246,900* |
| | 29 | 82.6 | 143.2 | 245,600* |
| | 30 | 82.2 | 143.0 | 244,300* |
| | 32 | 81.3 | 142.7 | 241,900* |
| | 34 | 80.4 | 142.3 | 233,600 |
| | 36 | 79.6 | 141.8 | 201,500 |
| | 38 | 78.7 | 141.4 | 182,700 |
| | 40 | 77.8 | 140.9 | 166,500 |
| | 42 | 77.0 | 140.4 | 152,500 |
| | 44 | 76.1 | 139.8 | 140,100 |
| | 46 | 75.2 | 139.2 | 129,200 |
| | 48 | 74.3 | 138.6 | 119,500 |
| | 50 | 73.4 | 137.9 | 110,800 |
| | 55 | 71.2 | 136.1 | 92,500 |
| | 60 | 68.9 | 134.1 | 78,000 |
| | 65 | 66.5 | 131.8 | 66,100 |
| | 70 | 64.2 | 129.2 | 56,300 |
| | 75 | 61.7 | 126.4 | 48,000 |
| | 80 | 59.2 | 123.4 | 40,900 |
| | 85 | 56.7 | 120.0 | 34,800 |
| 90 | 54.0 | 116.2 | 29,500 | |
| 95 | 51.3 | 112.1 | 24,800 | |
| 100 | 48.4 | 107.5 | 20,600 | |
| 105 | 45.4 | 102.5 | 16,900 | |
| 110 | 42.2 | 96.8 | 13,500 | |
| 115 | 38.8 | 90.5 | 10,500 | |

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LIFT CRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

**BOOM NO. 44 WITH 5' TOP
70' LUFFING JIB NO. 133A
SET AT 145 DEGREE BOOM TO LUFFING JIB ANGLE
167,000 LB. COUNTERWEIGHT
360 DEGREE RATING**

**MEETS
ANSI B30.5
REQUIREMENTS**

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|----------------------|-----------------|----------------|-----------------------|----------------------|
| 1 4 5 | 30 | 82.7 | 153.2 | 239,000* |
| | 32 | 81.9 | 152.8 | 237,000* |
| | 34 | 81.1 | 152.5 | 223,900 |
| | 36 | 80.3 | 152.1 | 201,800 |
| | 38 | 79.5 | 151.6 | 183,000 |
| | 40 | 78.7 | 151.2 | 166,800 |
| | 42 | 77.9 | 150.7 | 152,800 |
| | 44 | 77.1 | 150.2 | 140,400 |
| | 46 | 76.2 | 149.6 | 129,500 |
| | 48 | 75.4 | 149.0 | 119,800 |
| | 50 | 74.6 | 148.4 | 111,100 |
| | 55 | 72.5 | 146.8 | 92,800 |
| | 60 | 70.4 | 144.9 | 78,200 |
| | 65 | 68.3 | 142.8 | 66,400 |
| | 70 | 66.1 | 140.5 | 56,600 |
| | 75 | 63.9 | 137.9 | 48,300 |
| | 80 | 61.6 | 135.1 | 41,200 |
| | 85 | 59.3 | 132.0 | 35,100 |
| | 90 | 56.9 | 128.7 | 29,800 |
| | 95 | 54.5 | 125.0 | 25,100 |
| 100 | 51.9 | 121.0 | 20,900 | |
| 105 | 49.3 | 116.5 | 17,200 | |
| 110 | 46.5 | 111.7 | 13,800 | |
| 115 | 43.6 | 106.3 | 10,800 | |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|----------------------|-----------------|----------------|-----------------------|----------------------|
| 1 5 5 | 32 | 82.4 | 163.0 | 233,700* |
| | 34 | 81.7 | 162.6 | 224,200 |
| | 36 | 80.9 | 162.3 | 202,000 |
| | 38 | 80.2 | 161.9 | 183,200 |
| | 40 | 79.4 | 161.4 | 166,900 |
| | 42 | 78.7 | 161.0 | 152,800 |
| | 44 | 77.9 | 160.5 | 140,500 |
| | 46 | 77.2 | 160.0 | 129,500 |
| | 48 | 76.4 | 159.4 | 119,800 |
| | 50 | 75.6 | 158.9 | 111,000 |
| | 55 | 73.7 | 157.3 | 92,700 |
| | 60 | 71.7 | 155.6 | 78,100 |
| | 65 | 69.7 | 153.6 | 66,200 |
| | 70 | 67.7 | 151.5 | 56,400 |
| | 75 | 65.7 | 149.1 | 48,100 |
| | 80 | 63.6 | 146.6 | 41,000 |
| | 85 | 61.5 | 143.8 | 34,900 |
| | 90 | 59.3 | 140.7 | 29,500 |
| | 95 | 57.1 | 137.4 | 24,800 |
| | 100 | 54.8 | 133.7 | 20,600 |
| 105 | 52.5 | 129.8 | 16,900 | |
| 110 | 50.0 | 125.5 | 13,500 | |
| 115 | 47.5 | 120.8 | 10,500 | |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|----------------------|-----------------|----------------|-----------------------|----------------------|
| 1 6 5 | 32 | 82.9 | 173.1 | 202,100* |
| | 34 | 82.2 | 172.8 | 200,000* |
| | 36 | 81.5 | 172.4 | 198,000* |
| | 38 | 80.8 | 172.1 | 183,100 |
| | 40 | 80.1 | 171.7 | 166,900 |
| | 42 | 79.4 | 171.2 | 152,700 |
| | 44 | 78.7 | 170.8 | 140,400 |
| | 46 | 77.9 | 170.3 | 129,400 |
| | 48 | 77.2 | 169.8 | 119,600 |
| | 50 | 76.5 | 169.3 | 110,900 |
| | 55 | 74.7 | 167.8 | 92,500 |
| | 60 | 72.9 | 166.2 | 77,900 |
| | 65 | 71.0 | 164.4 | 66,000 |
| | 70 | 69.2 | 162.4 | 56,200 |
| | 75 | 67.3 | 160.2 | 47,900 |
| | 80 | 65.4 | 157.8 | 40,800 |
| | 85 | 63.4 | 155.2 | 34,600 |
| | 90 | 61.4 | 152.4 | 29,300 |
| | 95 | 59.4 | 149.4 | 24,500 |
| | 100 | 57.3 | 146.1 | 20,400 |
| 105 | 55.2 | 142.5 | 16,600 | |
| 110 | 53.0 | 138.6 | 13,200 | |
| 115 | 50.7 | 134.4 | 10,200 | |

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



LIFT CRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

**BOOM NO. 44 WITH 5' TOP
80' LUFFING JIB NO. 133A
SET AT 150 DEGREE BOOM TO LUFFING JIB ANGLE
167,000 LB. COUNTERWEIGHT
360 DEGREE RATING**

**MEETS
ANSI B30.5
REQUIREMENTS**

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|-----------------|-----------------|----------------|-----------------------|----------------------|
| 85 | 22 | 83.0 | 93.7 | 295,000* |
| | 23 | 82.3 | 93.5 | 293,700* |
| | 24 | 81.6 | 93.3 | 292,300* |
| | 25 | 80.9 | 93.1 | 290,800* |
| | 26 | 80.2 | 92.9 | 289,100* |
| | 27 | 79.5 | 92.7 | 287,400* |
| | 28 | 78.9 | 92.4 | 285,800* |
| | 29 | 78.2 | 92.1 | 284,300* |
| | 30 | 77.5 | 91.9 | 275,300 |
| | 32 | 76.1 | 91.3 | 243,600 |
| | 34 | 74.6 | 90.6 | 217,600 |
| | 36 | 73.2 | 89.9 | 195,700 |
| | 38 | 71.8 | 89.1 | 177,200 |
| | 40 | 70.3 | 88.3 | 161,200 |
| | 42 | 68.8 | 87.4 | 147,300 |
| | 44 | 67.4 | 86.5 | 135,200 |
| | 46 | 65.8 | 85.4 | 124,400 |
| | 48 | 64.3 | 84.4 | 114,800 |
| | 50 | 62.8 | 83.2 | 106,200 |
| | 55 | 58.8 | 80.0 | 88,100 |
| 60 | 54.6 | 76.3 | 73,800 | |
| 65 | 50.1 | 71.9 | 62,100 | |
| 70 | 45.3 | 66.7 | 52,400 | |
| 75 | 39.9 | 60.6 | 44,300 | |
| 80 | 33.8 | 53.0 | 37,300 | |
| 95 | 24 | 82.5 | 103.5 | 288,200* |
| | 25 | 81.9 | 103.3 | 286,700* |
| | 26 | 81.3 | 103.1 | 285,200* |
| | 27 | 80.7 | 102.9 | 283,700* |
| | 28 | 80.1 | 102.7 | 282,300* |
| | 29 | 79.4 | 102.4 | 280,900* |
| | 30 | 78.8 | 102.2 | 276,600 |
| | 32 | 77.6 | 101.7 | 244,800 |
| | 34 | 76.3 | 101.1 | 218,700 |
| | 36 | 75.0 | 100.5 | 196,800 |
| | 38 | 73.8 | 99.8 | 178,200 |
| | 40 | 72.5 | 99.1 | 162,200 |
| | 42 | 71.2 | 98.3 | 148,200 |
| | 44 | 69.9 | 97.4 | 136,000 |
| | 46 | 68.6 | 96.6 | 125,200 |
| | 48 | 67.3 | 95.6 | 115,600 |
| | 50 | 65.9 | 94.6 | 107,000 |
| | 55 | 62.5 | 91.9 | 88,800 |
| | 60 | 58.9 | 88.7 | 74,400 |
| | 65 | 55.2 | 85.0 | 62,700 |
| 70 | 51.2 | 80.9 | 53,000 | |
| 75 | 47.1 | 76.0 | 44,800 | |
| 80 | 42.5 | 70.4 | 37,800 | |
| 85 | 37.5 | 63.8 | 31,800 | |
| 90 | 31.8 | 55.6 | 26,500 | |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|-----------------|-----------------|----------------|-----------------------|----------------------|
| 105 | 25 | 82.7 | 113.5 | 283,200* |
| | 26 | 82.1 | 113.3 | 281,900* |
| | 27 | 81.6 | 113.1 | 280,600* |
| | 28 | 81.0 | 112.9 | 279,400* |
| | 29 | 80.5 | 112.7 | 278,200* |
| | 30 | 79.9 | 112.5 | 277,000* |
| | 32 | 78.8 | 112.0 | 245,700 |
| | 34 | 77.7 | 111.5 | 219,500 |
| | 36 | 76.5 | 110.9 | 197,600 |
| | 38 | 75.4 | 110.3 | 178,900 |
| | 40 | 74.2 | 109.7 | 162,900 |
| | 42 | 73.1 | 109.0 | 149,000 |
| | 44 | 71.9 | 108.2 | 136,700 |
| | 46 | 70.7 | 107.4 | 125,900 |
| | 48 | 69.6 | 106.6 | 116,300 |
| | 50 | 68.4 | 105.7 | 107,600 |
| | 55 | 65.3 | 103.3 | 89,500 |
| | 60 | 62.2 | 100.5 | 75,000 |
| | 65 | 59.0 | 97.4 | 63,300 |
| | 70 | 55.7 | 93.8 | 53,600 |
| 75 | 52.2 | 89.8 | 45,400 | |
| 80 | 48.5 | 85.2 | 38,400 | |
| 85 | 44.5 | 79.9 | 32,300 | |
| 90 | 40.2 | 73.9 | 27,000 | |
| 95 | 35.5 | 66.7 | 22,400 | |
| 100 | 30.0 | 58.1 | 18,200 | |
| 115 | 26 | 82.8 | 123.5 | 279,000* |
| | 27 | 82.3 | 123.3 | 278,000* |
| | 28 | 81.8 | 123.1 | 276,900* |
| | 29 | 81.3 | 122.9 | 275,900* |
| | 30 | 80.8 | 122.7 | 274,900* |
| | 32 | 79.8 | 122.3 | 246,500 |
| | 34 | 78.8 | 121.8 | 220,300 |
| | 36 | 77.7 | 121.3 | 198,300 |
| | 38 | 76.7 | 120.7 | 179,600 |
| | 40 | 75.7 | 120.1 | 163,500 |
| | 42 | 74.6 | 119.5 | 149,500 |
| | 44 | 73.6 | 118.8 | 137,200 |
| | 46 | 72.5 | 118.1 | 126,400 |
| | 48 | 71.4 | 117.4 | 116,700 |
| | 50 | 70.4 | 116.6 | 108,000 |
| | 55 | 67.7 | 114.4 | 89,800 |
| | 60 | 64.9 | 111.9 | 75,400 |
| | 65 | 62.0 | 109.1 | 63,600 |
| | 70 | 59.1 | 106.0 | 53,800 |
| | 75 | 56.1 | 102.5 | 45,600 |
| 80 | 52.9 | 98.6 | 38,600 | |
| 85 | 49.6 | 94.2 | 32,500 | |
| 90 | 46.1 | 89.2 | 27,200 | |
| 95 | 42.3 | 83.6 | 22,500 | |
| 100 | 38.3 | 77.2 | 18,300 | |
| 105 | 33.7 | 69.6 | 14,600 | |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|-----------------|-----------------|----------------|-----------------------|----------------------|
| 125 | 27 | 82.9 | 133.4 | 253,200* |
| | 28 | 82.5 | 133.2 | 251,600* |
| | 29 | 82.0 | 133.1 | 249,900* |
| | 30 | 81.5 | 132.9 | 248,400* |
| | 32 | 80.6 | 132.5 | 245,400* |
| | 34 | 79.7 | 132.1 | 220,700 |
| | 36 | 78.7 | 131.6 | 198,700 |
| | 38 | 77.8 | 131.1 | 179,900 |
| | 40 | 76.8 | 130.5 | 163,800 |
| | 42 | 75.9 | 130.0 | 149,800 |
| | 44 | 74.9 | 129.4 | 137,500 |
| | 46 | 74.0 | 128.7 | 126,700 |
| | 48 | 73.0 | 128.0 | 117,000 |
| | 50 | 72.0 | 127.3 | 108,300 |
| | 55 | 69.6 | 125.3 | 90,100 |
| | 60 | 67.0 | 123.1 | 75,600 |
| | 65 | 64.5 | 120.6 | 63,800 |
| | 70 | 61.9 | 117.8 | 54,000 |
| | 75 | 59.2 | 114.7 | 45,800 |
| | 80 | 56.4 | 111.2 | 38,700 |
| 85 | 53.5 | 107.4 | 32,700 | |
| 90 | 50.5 | 103.2 | 27,300 | |
| 95 | 47.3 | 98.4 | 22,700 | |
| 100 | 44.0 | 93.1 | 18,500 | |
| 105 | 40.4 | 87.1 | 14,800 | |
| 110 | 36.5 | 80.3 | 11,400 | |
| 135 | 28 | 83.0 | 143.4 | 246,900* |
| | 29 | 82.6 | 143.2 | 245,500* |
| | 30 | 82.2 | 143.0 | 244,200* |
| | 32 | 81.3 | 142.7 | 241,700* |
| | 34 | 80.4 | 142.3 | 221,100 |
| | 36 | 79.6 | 141.8 | 199,000 |
| | 38 | 78.7 | 141.4 | 180,300 |
| | 40 | 77.8 | 140.9 | 164,100 |
| | 42 | 77.0 | 140.4 | 150,100 |
| | 44 | 76.1 | 139.8 | 137,800 |
| | 46 | 75.2 | 139.2 | 126,900 |
| | 48 | 74.3 | 138.6 | 117,100 |
| | 50 | 73.4 | 137.9 | 108,400 |
| | 55 | 71.2 | 136.1 | 90,200 |
| | 60 | 68.9 | 134.1 | 75,600 |
| | 65 | 66.5 | 131.8 | 63,800 |
| | 70 | 64.2 | 129.2 | 54,000 |
| | 75 | 61.7 | 126.4 | 45,700 |
| | 80 | 59.2 | 123.4 | 38,700 |
| | 85 | 56.7 | 120.0 | 32,600 |
| 90 | 54.0 | 116.2 | 27,200 | |
| 95 | 51.3 | 112.1 | 22,500 | |
| 100 | 48.4 | 107.5 | 18,400 | |
| 105 | 45.4 | 102.5 | 14,600 | |
| 110 | 42.2 | 96.8 | 11,300 | |

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

**BOOM NO. 44 WITH 5' TOP
80' LUFFING JIB NO. 133A
SET AT 150 DEGREE BOOM TO LUFFING JIB ANGLE
167,000 LB. COUNTERWEIGHT
360 DEGREE RATING**

**MEETS
ANSI B30.5
REQUIREMENTS**

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|----------------------|-----------------|----------------|-----------------------|----------------------|
| 1 4 5 | 30 | 82.7 | 153.2 | 238,800* |
| | 32 | 81.9 | 152.8 | 236,700* |
| | 34 | 81.1 | 152.5 | 221,500 |
| | 36 | 80.3 | 152.1 | 199,400 |
| | 38 | 79.5 | 151.6 | 180,600 |
| | 40 | 78.7 | 151.2 | 164,500 |
| | 42 | 77.9 | 150.7 | 150,400 |
| | 44 | 77.1 | 150.2 | 138,100 |
| | 46 | 76.2 | 149.6 | 127,200 |
| | 48 | 75.4 | 149.0 | 117,500 |
| | 50 | 74.6 | 148.4 | 108,800 |
| | 55 | 72.5 | 146.8 | 90,500 |
| | 60 | 70.4 | 144.9 | 76,000 |
| | 65 | 68.3 | 142.8 | 64,200 |
| | 70 | 66.1 | 140.5 | 54,400 |
| | 75 | 63.9 | 137.9 | 46,100 |
| | 80 | 61.6 | 135.1 | 39,000 |
| | 85 | 59.3 | 132.0 | 32,900 |
| | 90 | 56.9 | 128.7 | 27,600 |
| | 95 | 54.5 | 125.0 | 22,900 |
| 100 | 51.9 | 121.0 | 18,700 | |
| 105 | 49.3 | 116.5 | 15,000 | |
| 110 | 46.5 | 111.7 | 11,700 | |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|----------------------|-----------------|----------------|-----------------------|----------------------|
| 1 5 5 | 32 | 82.4 | 163.0 | 233,200* |
| | 34 | 81.7 | 162.6 | 221,800 |
| | 36 | 80.9 | 162.3 | 199,700 |
| | 38 | 80.2 | 161.9 | 180,900 |
| | 40 | 79.4 | 161.4 | 164,700 |
| | 42 | 78.7 | 161.0 | 150,600 |
| | 44 | 77.9 | 160.5 | 138,200 |
| | 46 | 77.2 | 160.0 | 127,300 |
| | 48 | 76.4 | 159.4 | 117,600 |
| | 50 | 75.6 | 158.9 | 108,800 |
| | 55 | 73.7 | 157.3 | 90,500 |
| | 60 | 71.7 | 155.6 | 75,900 |
| | 65 | 69.7 | 153.6 | 64,100 |
| | 70 | 67.7 | 151.5 | 54,200 |
| | 75 | 65.7 | 149.1 | 45,900 |
| | 80 | 63.6 | 146.6 | 38,900 |
| | 85 | 61.5 | 143.8 | 32,700 |
| | 90 | 59.3 | 140.7 | 27,400 |
| | 95 | 57.1 | 137.4 | 22,700 |
| | 100 | 54.8 | 133.7 | 18,500 |
| 105 | 52.5 | 129.8 | 14,800 | |
| 110 | 50.0 | 125.5 | 11,400 | |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|----------------------|-----------------|----------------|-----------------------|----------------------|
| 1 6 5 | 32 | 82.9 | 173.1 | 202,800* |
| | 34 | 82.2 | 172.8 | 200,600* |
| | 36 | 81.5 | 172.4 | 198,500* |
| | 38 | 80.8 | 172.1 | 180,900 |
| | 40 | 80.1 | 171.7 | 164,600 |
| | 42 | 79.4 | 171.2 | 150,500 |
| | 44 | 78.7 | 170.8 | 138,200 |
| | 46 | 77.9 | 170.3 | 127,200 |
| | 48 | 77.2 | 169.8 | 117,500 |
| | 50 | 76.5 | 169.3 | 108,700 |
| | 55 | 74.7 | 167.8 | 90,400 |
| | 60 | 72.9 | 166.2 | 75,800 |
| | 65 | 71.0 | 164.4 | 63,900 |
| | 70 | 69.2 | 162.4 | 54,100 |
| | 75 | 67.3 | 160.2 | 45,800 |
| | 80 | 65.4 | 157.8 | 38,700 |
| | 85 | 63.4 | 155.2 | 32,600 |
| | 90 | 61.4 | 152.4 | 27,200 |
| | 95 | 59.4 | 149.4 | 22,500 |
| | 100 | 57.3 | 146.1 | 18,300 |
| 105 | 55.2 | 142.5 | 14,600 | |
| 110 | 53.0 | 138.6 | 11,200 | |

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

**BOOM NO. 44 WITH 5' TOP
90' LUFFING JIB NO. 133A
SET AT 150 DEGREE BOOM TO LUFFING JIB ANGLE
167,000 LB. COUNTERWEIGHT
360 DEGREE RATING**

**MEETS
ANSI B30.5
REQUIREMENTS**

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|-----------------|-----------------|----------------|-----------------------|----------------------|
| 85 | 22 | 83.0 | 93.7 | 289,900* |
| | 23 | 82.3 | 93.5 | 288,500* |
| | 24 | 81.6 | 93.3 | 286,900* |
| | 25 | 80.9 | 93.1 | 285,300* |
| | 26 | 80.2 | 92.9 | 283,600* |
| | 27 | 79.5 | 92.7 | 281,900* |
| | 28 | 78.9 | 92.4 | 280,200* |
| | 29 | 78.2 | 92.1 | 278,600* |
| | 30 | 77.5 | 91.9 | 269,600 |
| | 32 | 76.1 | 91.3 | 238,300 |
| | 34 | 74.6 | 90.6 | 212,500 |
| | 36 | 73.2 | 89.9 | 191,000 |
| | 38 | 71.8 | 89.1 | 172,600 |
| | 40 | 70.3 | 88.3 | 156,800 |
| | 42 | 68.8 | 87.4 | 143,100 |
| | 44 | 67.4 | 86.5 | 131,100 |
| | 46 | 65.8 | 85.4 | 120,500 |
| | 48 | 64.3 | 84.4 | 111,000 |
| | 50 | 62.8 | 83.2 | 102,500 |
| | 55 | 58.8 | 80.0 | 84,600 |
| 60 | 54.6 | 76.3 | 70,500 | |
| 65 | 50.1 | 71.9 | 59,000 | |
| 70 | 45.3 | 66.7 | 49,400 | |
| 75 | 39.9 | 60.6 | 41,400 | |
| 80 | 33.8 | 53.0 | 34,600 | |
| 95 | 24 | 82.5 | 103.5 | 283,100* |
| | 25 | 81.9 | 103.3 | 281,400* |
| | 26 | 81.3 | 103.1 | 279,900* |
| | 27 | 80.7 | 102.9 | 278,400* |
| | 28 | 80.1 | 102.7 | 276,900* |
| | 29 | 79.4 | 102.4 | 275,500* |
| | 30 | 78.8 | 102.2 | 271,000 |
| | 32 | 77.6 | 101.7 | 239,600 |
| | 34 | 76.3 | 101.1 | 213,800 |
| | 36 | 75.0 | 100.5 | 192,200 |
| | 38 | 73.8 | 99.8 | 173,800 |
| | 40 | 72.5 | 99.1 | 157,900 |
| | 42 | 71.2 | 98.3 | 144,200 |
| | 44 | 69.9 | 97.4 | 132,100 |
| | 46 | 68.6 | 96.6 | 121,400 |
| | 48 | 67.3 | 95.6 | 111,900 |
| | 50 | 65.9 | 94.6 | 103,400 |
| | 55 | 62.5 | 91.9 | 85,500 |
| | 60 | 58.9 | 88.7 | 71,300 |
| | 65 | 55.2 | 85.0 | 59,700 |
| 70 | 51.2 | 80.9 | 50,100 | |
| 75 | 47.1 | 76.0 | 42,000 | |
| 80 | 42.5 | 70.4 | 35,200 | |
| 85 | 37.5 | 63.8 | 29,200 | |
| 90 | 31.8 | 55.6 | 24,100 | |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|-----------------|-----------------|----------------|-----------------------|----------------------|
| 105 | 25 | 82.7 | 113.5 | 278,100* |
| | 26 | 82.1 | 113.3 | 276,800* |
| | 27 | 81.6 | 113.1 | 275,500* |
| | 28 | 81.0 | 112.9 | 274,200* |
| | 29 | 80.5 | 112.7 | 273,000* |
| | 30 | 79.9 | 112.5 | 271,800* |
| | 32 | 78.8 | 112.0 | 240,600 |
| | 34 | 77.7 | 111.5 | 214,700 |
| | 36 | 76.5 | 110.9 | 193,000 |
| | 38 | 75.4 | 110.3 | 174,600 |
| | 40 | 74.2 | 109.7 | 158,800 |
| | 42 | 73.1 | 109.0 | 145,000 |
| | 44 | 71.9 | 108.2 | 132,900 |
| | 46 | 70.7 | 107.4 | 122,200 |
| | 48 | 69.6 | 106.6 | 112,700 |
| | 50 | 68.4 | 105.7 | 104,100 |
| | 55 | 65.3 | 103.3 | 86,200 |
| | 60 | 62.2 | 100.5 | 71,900 |
| | 65 | 59.0 | 97.4 | 60,400 |
| | 70 | 55.7 | 93.8 | 50,700 |
| 75 | 52.2 | 89.8 | 42,700 | |
| 80 | 48.5 | 85.2 | 35,700 | |
| 85 | 44.5 | 79.9 | 29,800 | |
| 90 | 40.2 | 73.9 | 24,600 | |
| 95 | 35.5 | 66.7 | 20,000 | |
| 100 | 30.0 | 58.1 | 16,000 | |
| 115 | 26 | 82.8 | 123.5 | 274,100* |
| | 27 | 82.3 | 123.3 | 273,000* |
| | 28 | 81.8 | 123.1 | 271,900* |
| | 29 | 81.3 | 122.9 | 270,800* |
| | 30 | 80.8 | 122.7 | 269,800* |
| | 32 | 79.8 | 122.3 | 241,500 |
| | 34 | 78.8 | 121.8 | 215,600 |
| | 36 | 77.7 | 121.3 | 193,800 |
| | 38 | 76.7 | 120.7 | 175,400 |
| | 40 | 75.7 | 120.1 | 159,500 |
| | 42 | 74.6 | 119.5 | 145,600 |
| | 44 | 73.6 | 118.8 | 133,500 |
| | 46 | 72.5 | 118.1 | 122,800 |
| | 48 | 71.4 | 117.4 | 113,200 |
| | 50 | 70.4 | 116.6 | 104,600 |
| | 55 | 67.7 | 114.4 | 86,600 |
| | 60 | 64.9 | 111.9 | 72,300 |
| | 65 | 62.0 | 109.1 | 60,700 |
| | 70 | 59.1 | 106.0 | 51,100 |
| | 75 | 56.1 | 102.5 | 42,900 |
| 80 | 52.9 | 98.6 | 36,000 | |
| 85 | 49.6 | 94.2 | 30,000 | |
| 90 | 46.1 | 89.2 | 24,800 | |
| 95 | 42.3 | 83.6 | 20,200 | |
| 100 | 38.3 | 77.2 | 16,100 | |
| 105 | 33.7 | 69.6 | 12,500 | |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|-----------------|-----------------|----------------|-----------------------|----------------------|
| 125 | 27 | 82.9 | 133.4 | 248,300* |
| | 28 | 82.5 | 133.2 | 246,600* |
| | 29 | 82.0 | 133.1 | 245,000* |
| | 30 | 81.5 | 132.9 | 243,400* |
| | 32 | 80.6 | 132.5 | 240,400* |
| | 34 | 79.7 | 132.1 | 216,100 |
| | 36 | 78.7 | 131.6 | 194,300 |
| | 38 | 77.8 | 131.1 | 175,800 |
| | 40 | 76.8 | 130.5 | 159,900 |
| | 42 | 75.9 | 130.0 | 146,000 |
| | 44 | 74.9 | 129.4 | 133,900 |
| | 46 | 74.0 | 128.7 | 123,100 |
| | 48 | 73.0 | 128.0 | 113,500 |
| | 50 | 72.0 | 127.3 | 105,000 |
| | 55 | 69.6 | 125.3 | 86,900 |
| | 60 | 67.0 | 123.1 | 72,600 |
| | 65 | 64.5 | 120.6 | 61,000 |
| | 70 | 61.9 | 117.8 | 51,300 |
| | 75 | 59.2 | 114.7 | 43,200 |
| | 80 | 56.4 | 111.2 | 36,200 |
| 85 | 53.5 | 107.4 | 30,200 | |
| 90 | 50.5 | 103.2 | 25,000 | |
| 95 | 47.3 | 98.4 | 20,400 | |
| 100 | 44.0 | 93.1 | 16,300 | |
| 105 | 40.4 | 87.1 | 12,600 | |
| 135 | 28 | 83.0 | 143.4 | 242,100* |
| | 29 | 82.6 | 143.2 | 240,700* |
| | 30 | 82.2 | 143.0 | 239,400* |
| | 32 | 81.3 | 142.7 | 236,800* |
| | 34 | 80.4 | 142.3 | 216,600 |
| | 36 | 79.6 | 141.8 | 194,700 |
| | 38 | 78.7 | 141.4 | 176,200 |
| | 40 | 77.8 | 140.9 | 160,200 |
| | 42 | 77.0 | 140.4 | 146,300 |
| | 44 | 76.1 | 139.8 | 134,100 |
| | 46 | 75.2 | 139.2 | 123,400 |
| | 48 | 74.3 | 138.6 | 113,800 |
| | 50 | 73.4 | 137.9 | 105,200 |
| | 55 | 71.2 | 136.1 | 87,100 |
| | 60 | 68.9 | 134.1 | 72,700 |
| | 65 | 66.5 | 131.8 | 61,000 |
| | 70 | 64.2 | 129.2 | 51,400 |
| | 75 | 61.7 | 126.4 | 43,200 |
| | 80 | 59.2 | 123.4 | 36,200 |
| | 85 | 56.7 | 120.0 | 30,200 |
| 90 | 54.0 | 116.2 | 24,900 | |
| 95 | 51.3 | 112.1 | 20,300 | |
| 100 | 48.4 | 107.5 | 16,200 | |
| 105 | 45.4 | 102.5 | 12,500 | |

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

**BOOM NO. 44 WITH 5' TOP
90' LUFFING JIB NO. 133A
SET AT 150 DEGREE BOOM TO LUFFING JIB ANGLE
167,000 LB. COUNTERWEIGHT
360 DEGREE RATING**

**MEETS
ANSI B30.5
REQUIREMENTS**

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|----------------------|-----------------|----------------|-----------------------|----------------------|
| 1 4 5 | 30 | 82.7 | 153.2 | 234,100* |
| | 32 | 81.9 | 152.8 | 232,000* |
| | 34 | 81.1 | 152.5 | 217,000 |
| | 36 | 80.3 | 152.1 | 195,100 |
| | 38 | 79.5 | 151.6 | 176,600 |
| | 40 | 78.7 | 151.2 | 160,600 |
| | 42 | 77.9 | 150.7 | 146,700 |
| | 44 | 77.1 | 150.2 | 134,500 |
| | 46 | 76.2 | 149.6 | 123,800 |
| | 48 | 75.4 | 149.0 | 114,200 |
| | 50 | 74.6 | 148.4 | 105,600 |
| | 55 | 72.5 | 146.8 | 87,500 |
| | 60 | 70.4 | 144.9 | 73,100 |
| | 65 | 68.3 | 142.8 | 61,500 |
| | 70 | 66.1 | 140.5 | 51,800 |
| | 75 | 63.9 | 137.9 | 43,600 |
| | 80 | 61.6 | 135.1 | 36,600 |
| | 85 | 59.3 | 132.0 | 30,600 |
| | 90 | 56.9 | 128.7 | 25,300 |
| | 95 | 54.5 | 125.0 | 20,700 |
| 100 | 51.9 | 121.0 | 16,600 | |
| 105 | 49.3 | 116.5 | 12,900 | |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|----------------------|-----------------|----------------|-----------------------|----------------------|
| 1 5 5 | 32 | 82.4 | 163.0 | 228,700* |
| | 34 | 81.7 | 162.6 | 217,400 |
| | 36 | 80.9 | 162.3 | 195,500 |
| | 38 | 80.2 | 161.9 | 176,900 |
| | 40 | 79.4 | 161.4 | 160,800 |
| | 42 | 78.7 | 161.0 | 146,900 |
| | 44 | 77.9 | 160.5 | 134,700 |
| | 46 | 77.2 | 160.0 | 123,900 |
| | 48 | 76.4 | 159.4 | 114,300 |
| | 50 | 75.6 | 158.9 | 105,600 |
| | 55 | 73.7 | 157.3 | 87,500 |
| | 60 | 71.7 | 155.6 | 73,100 |
| | 65 | 69.7 | 153.6 | 61,400 |
| | 70 | 67.7 | 151.5 | 51,700 |
| | 75 | 65.7 | 149.1 | 43,500 |
| | 80 | 63.6 | 146.6 | 36,500 |
| | 85 | 61.5 | 143.8 | 30,400 |
| | 90 | 59.3 | 140.7 | 25,100 |
| | 95 | 57.1 | 137.4 | 20,500 |
| | 100 | 54.8 | 133.7 | 16,400 |
| 105 | 52.5 | 129.8 | 12,700 | |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|----------------------|-----------------|----------------|-----------------------|----------------------|
| 1 6 5 | 32 | 82.9 | 173.1 | 198,400* |
| | 34 | 82.2 | 172.8 | 196,200* |
| | 36 | 81.5 | 172.4 | 194,100* |
| | 38 | 80.8 | 172.1 | 176,900 |
| | 40 | 80.1 | 171.7 | 160,900 |
| | 42 | 79.4 | 171.2 | 146,900 |
| | 44 | 78.7 | 170.8 | 134,700 |
| | 46 | 77.9 | 170.3 | 123,900 |
| | 48 | 77.2 | 169.8 | 114,200 |
| | 50 | 76.5 | 169.3 | 105,600 |
| | 55 | 74.7 | 167.8 | 87,400 |
| | 60 | 72.9 | 166.2 | 73,000 |
| | 65 | 71.0 | 164.4 | 61,300 |
| | 70 | 69.2 | 162.4 | 51,600 |
| | 75 | 67.3 | 160.2 | 43,400 |
| | 80 | 65.4 | 157.8 | 36,400 |
| | 85 | 63.4 | 155.2 | 30,300 |
| | 90 | 61.4 | 152.4 | 25,000 |
| | 95 | 59.4 | 149.4 | 20,300 |
| | 100 | 57.3 | 146.1 | 16,200 |
| 105 | 55.2 | 142.5 | 12,500 | |

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

**BOOM NO. 44 WITH 5' TOP
100' LUFFING JIB NO. 133A
SET AT 160 DEGREE BOOM TO LUFFING JIB ANGLE
167,000 LB. COUNTERWEIGHT
360 DEGREE RATING**

**MEETS
ANSI B30.5
REQUIREMENTS**

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS | | |
|-----------------|-----------------|----------------|-----------------------|----------------------|----------|---------|
| 85 | 22 | 83.0 | 93.7 | 291,700* | | |
| | 23 | 82.3 | 93.5 | 290,500* | | |
| | 24 | 81.6 | 93.3 | 289,400* | | |
| | 25 | 80.9 | 93.1 | 288,300* | | |
| | 26 | 80.2 | 92.9 | 287,300* | | |
| | 80 | 27 | 79.5 | 92.7 | 286,300* | |
| | | 28 | 78.9 | 92.4 | 285,300* | |
| | | 29 | 78.2 | 92.1 | 284,200* | |
| | | 30 | 77.5 | 91.9 | 271,900 | |
| | | 32 | 76.1 | 91.3 | 240,100 | |
| | | 75 | 34 | 74.6 | 90.6 | 213,800 |
| | | | 36 | 73.2 | 89.9 | 191,800 |
| | | | 38 | 71.8 | 89.1 | 173,100 |
| | 40 | | 70.3 | 88.3 | 157,000 | |
| | 42 | | 68.8 | 87.4 | 143,000 | |
| | 70 | | 44 | 67.4 | 86.5 | 130,800 |
| | | | 46 | 65.8 | 85.4 | 119,900 |
| | | | 48 | 64.3 | 84.4 | 110,200 |
| | | 50 | 62.8 | 83.2 | 101,600 | |
| | | 55 | 58.8 | 80.0 | 83,300 | |
| 65 | | 60 | 54.6 | 76.3 | 68,900 | |
| | | 65 | 50.1 | 71.9 | 57,100 | |
| | | 70 | 45.3 | 66.7 | 47,300 | |
| | 75 | 39.9 | 60.6 | 39,000 | | |
| | 80 | 33.8 | 53.0 | 32,000 | | |
| | 85 | 26.3 | 43.0 | 25,900 | | |
| | 95 | 24 | 82.5 | 103.5 | 289,500* | |
| | | 25 | 81.9 | 103.3 | 287,800* | |
| 26 | | 81.3 | 103.1 | 286,100* | | |
| 27 | | 80.7 | 102.9 | 284,400* | | |
| 28 | | 80.1 | 102.7 | 282,800* | | |
| 90 | | 29 | 79.4 | 102.4 | 281,300* | |
| | | 30 | 78.8 | 102.2 | 273,700 | |
| | | 32 | 77.6 | 101.7 | 241,700 | |
| | | 34 | 76.3 | 101.1 | 215,400 | |
| | | 36 | 75.0 | 100.5 | 193,300 | |
| | | 85 | 38 | 73.8 | 99.8 | 174,600 |
| | | | 40 | 72.5 | 99.1 | 158,400 |
| | | | 42 | 71.2 | 98.3 | 144,400 |
| 44 | | | 69.9 | 97.4 | 132,100 | |
| 46 | | | 68.6 | 96.6 | 121,200 | |
| 80 | | | 48 | 67.3 | 95.6 | 111,500 |
| | | | 50 | 65.9 | 94.6 | 102,800 |
| | | | 55 | 62.5 | 91.9 | 84,500 |
| | | 60 | 58.9 | 88.7 | 70,000 | |
| | | 65 | 55.2 | 85.0 | 58,200 | |
| | 75 | 70 | 51.2 | 80.9 | 48,400 | |
| | | 75 | 47.1 | 76.0 | 40,100 | |
| | | 80 | 42.5 | 70.4 | 33,000 | |
| 85 | | 37.5 | 63.8 | 26,900 | | |
| 90 | | 31.8 | 55.6 | 21,500 | | |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS | | |
|-----------------|-----------------|----------------|-----------------------|----------------------|----------|---------|
| 105 | 25 | 82.7 | 113.5 | 284,100* | | |
| | 26 | 82.1 | 113.3 | 282,600* | | |
| | 27 | 81.6 | 113.1 | 281,200* | | |
| | 28 | 81.0 | 112.9 | 279,800* | | |
| | 29 | 80.5 | 112.7 | 278,400* | | |
| | 100 | 30 | 79.9 | 112.5 | 274,900 | |
| | | 32 | 78.8 | 112.0 | 242,900 | |
| | | 34 | 77.7 | 111.5 | 216,500 | |
| | | 36 | 76.5 | 110.9 | 194,400 | |
| | | 38 | 75.4 | 110.3 | 175,700 | |
| | | 95 | 40 | 74.2 | 109.7 | 159,500 |
| | | | 42 | 73.1 | 109.0 | 145,400 |
| | | | 44 | 71.9 | 108.2 | 133,100 |
| | 46 | | 70.7 | 107.4 | 122,200 | |
| | 48 | | 69.6 | 106.6 | 112,500 | |
| | 90 | | 50 | 68.4 | 105.7 | 103,800 |
| | | | 55 | 65.3 | 103.3 | 85,500 |
| | | | 60 | 62.2 | 100.5 | 70,900 |
| | | 65 | 59.0 | 97.4 | 59,100 | |
| | | 70 | 55.7 | 93.8 | 49,300 | |
| 85 | | 75 | 52.2 | 89.8 | 41,000 | |
| | | 80 | 48.5 | 85.2 | 33,900 | |
| | | 85 | 44.5 | 79.9 | 27,800 | |
| | 90 | 40.2 | 73.9 | 22,500 | | |
| | 95 | 35.5 | 66.7 | 17,700 | | |
| | 100 | 30.0 | 58.1 | 13,500 | | |
| | 115 | 26 | 82.8 | 123.5 | 279,600* | |
| | | 27 | 82.3 | 123.3 | 278,400* | |
| 28 | | 81.8 | 123.1 | 277,200* | | |
| 29 | | 81.3 | 122.9 | 276,000* | | |
| 30 | | 80.8 | 122.7 | 274,900* | | |
| 110 | | 32 | 79.8 | 122.3 | 244,000 | |
| | | 34 | 78.8 | 121.8 | 217,600 | |
| | | 36 | 77.7 | 121.3 | 195,400 | |
| | | 38 | 76.7 | 120.7 | 176,600 | |
| | | 40 | 75.7 | 120.1 | 160,400 | |
| | | 105 | 42 | 74.6 | 119.5 | 146,300 |
| | | | 44 | 73.6 | 118.8 | 133,900 |
| | | | 46 | 72.5 | 118.1 | 123,000 |
| 48 | | | 71.4 | 117.4 | 113,200 | |
| 50 | | | 70.4 | 116.6 | 104,500 | |
| 100 | | | 55 | 67.7 | 114.4 | 86,200 |
| | | | 60 | 64.9 | 111.9 | 71,600 |
| | | | 65 | 62.0 | 109.1 | 59,700 |
| | | 70 | 59.1 | 106.0 | 49,800 | |
| | | 75 | 56.1 | 102.5 | 41,500 | |
| | 95 | 80 | 52.9 | 98.6 | 34,400 | |
| | | 85 | 49.6 | 94.2 | 28,300 | |
| | | 90 | 46.1 | 89.2 | 22,900 | |
| 95 | | 42.3 | 83.6 | 18,200 | | |
| 100 | | 38.3 | 77.2 | 14,000 | | |
| 105 | | 33.7 | 69.6 | 10,200 | | |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS | | |
|-----------------|-----------------|----------------|-----------------------|----------------------|----------|---------|
| 125 | 27 | 82.9 | 133.4 | 257,700* | | |
| | 28 | 82.5 | 133.2 | 255,900* | | |
| | 29 | 82.0 | 133.1 | 254,100* | | |
| | 30 | 81.5 | 132.9 | 252,400* | | |
| | 32 | 80.6 | 132.5 | 244,700 | | |
| | 120 | 34 | 79.7 | 132.1 | 218,200 | |
| | | 36 | 78.7 | 131.6 | 196,000 | |
| | | 38 | 77.8 | 131.1 | 177,200 | |
| | | 40 | 76.8 | 130.5 | 160,900 | |
| | | 42 | 75.9 | 130.0 | 146,800 | |
| | | 115 | 44 | 74.9 | 129.4 | 134,500 |
| | | | 46 | 74.0 | 128.7 | 123,500 |
| | | | 48 | 73.0 | 128.0 | 113,700 |
| | 50 | | 72.0 | 127.3 | 105,000 | |
| | 55 | | 69.6 | 125.3 | 86,600 | |
| | 110 | | 60 | 67.0 | 123.1 | 72,000 |
| | | | 65 | 64.5 | 120.6 | 60,200 |
| | | | 70 | 61.9 | 117.8 | 50,300 |
| | | 75 | 59.2 | 114.7 | 42,000 | |
| | | 80 | 56.4 | 111.2 | 34,900 | |
| 105 | | 85 | 53.5 | 107.4 | 28,700 | |
| | | 90 | 50.5 | 103.2 | 23,400 | |
| | | 95 | 47.3 | 98.4 | 18,600 | |
| | 100 | 44.0 | 93.1 | 14,400 | | |
| | 105 | 40.4 | 87.1 | 10,700 | | |
| | 135 | 28 | 83.0 | 143.4 | 250,800* | |
| | | 29 | 82.6 | 143.2 | 249,300* | |
| | | 30 | 82.2 | 143.0 | 247,800* | |
| 32 | | 81.3 | 142.7 | 245,100* | | |
| 34 | | 80.4 | 142.3 | 218,800 | | |
| 130 | | 36 | 79.6 | 141.8 | 196,600 | |
| | | 38 | 78.7 | 141.4 | 177,700 | |
| | | 40 | 77.8 | 140.9 | 161,400 | |
| | | 42 | 77.0 | 140.4 | 147,300 | |
| | | 44 | 76.1 | 139.8 | 134,900 | |
| | | 125 | 46 | 75.2 | 139.2 | 123,900 |
| | | | 48 | 74.3 | 138.6 | 114,100 |
| | | | 50 | 73.4 | 137.9 | 105,300 |
| 55 | | | 71.2 | 136.1 | 86,900 | |
| 60 | | | 68.9 | 134.1 | 72,300 | |
| 120 | | | 65 | 66.5 | 131.8 | 60,400 |
| | | | 70 | 64.2 | 129.2 | 50,500 |
| | | | 75 | 61.7 | 126.4 | 42,100 |
| | | 80 | 59.2 | 123.4 | 35,000 | |
| | | 85 | 56.7 | 120.0 | 28,900 | |
| | 115 | 90 | 54.0 | 116.2 | 23,500 | |
| | | 95 | 51.3 | 112.1 | 18,700 | |
| | | 100 | 48.4 | 107.5 | 14,500 | |
| 105 | | 45.4 | 102.5 | 10,800 | | |

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

**BOOM NO. 44 WITH 5' TOP
100' LUFFING JIB NO. 133A
SET AT 160 DEGREE BOOM TO LUFFING JIB ANGLE
167,000 LB. COUNTERWEIGHT
360 DEGREE RATING**

**MEETS
ANSI B30.5
REQUIREMENTS**

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|----------------------|-----------------|----------------|-----------------------|----------------------|
| 1 4 5 | 30 | 82.7 | 153.2 | 243,700* |
| | 32 | 81.9 | 152.8 | 241,300* |
| | 34 | 81.1 | 152.5 | 219,400 |
| | 36 | 80.3 | 152.1 | 197,100 |
| | 38 | 79.5 | 151.6 | 178,200 |
| | 40 | 78.7 | 151.2 | 161,900 |
| | 42 | 77.9 | 150.7 | 147,800 |
| | 44 | 77.1 | 150.2 | 135,400 |
| | 46 | 76.2 | 149.6 | 124,400 |
| | 48 | 75.4 | 149.0 | 114,600 |
| | 50 | 74.6 | 148.4 | 105,900 |
| | 55 | 72.5 | 146.8 | 87,500 |
| | 60 | 70.4 | 144.9 | 72,800 |
| | 65 | 68.3 | 142.8 | 60,900 |
| | 70 | 66.1 | 140.5 | 51,000 |
| | 75 | 63.9 | 137.9 | 42,700 |
| | 80 | 61.6 | 135.1 | 35,600 |
| | 85 | 59.3 | 132.0 | 29,400 |
| | 90 | 56.9 | 128.7 | 24,000 |
| | 95 | 54.5 | 125.0 | 19,300 |
| 100 | 51.9 | 121.0 | 15,100 | |
| 105 | 49.3 | 116.5 | 11,300 | |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|----------------------|-----------------|----------------|-----------------------|----------------------|
| 1 5 5 | 32 | 82.4 | 163.0 | 236,000* |
| | 34 | 81.7 | 162.6 | 219,900 |
| | 36 | 80.9 | 162.3 | 197,600 |
| | 38 | 80.2 | 161.9 | 178,600 |
| | 40 | 79.4 | 161.4 | 162,300 |
| | 42 | 78.7 | 161.0 | 148,100 |
| | 44 | 77.9 | 160.5 | 135,700 |
| | 46 | 77.2 | 160.0 | 124,600 |
| | 48 | 76.4 | 159.4 | 114,800 |
| | 50 | 75.6 | 158.9 | 106,000 |
| | 55 | 73.7 | 157.3 | 87,600 |
| | 60 | 71.7 | 155.6 | 72,900 |
| | 65 | 69.7 | 153.6 | 61,000 |
| | 70 | 67.7 | 151.5 | 51,000 |
| | 75 | 65.7 | 149.1 | 42,700 |
| | 80 | 63.6 | 146.6 | 35,600 |
| | 85 | 61.5 | 143.8 | 29,400 |
| | 90 | 59.3 | 140.7 | 24,000 |
| | 95 | 57.1 | 137.4 | 19,200 |
| | 100 | 54.8 | 133.7 | 15,000 |
| 105 | 52.5 | 129.8 | 11,200 | |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|----------------------|-----------------|----------------|-----------------------|----------------------|
| 1 6 5 | 32 | 82.9 | 173.1 | 208,000* |
| | 34 | 82.2 | 172.8 | 205,600* |
| | 36 | 81.5 | 172.4 | 197,700 |
| | 38 | 80.8 | 172.1 | 178,700 |
| | 40 | 80.1 | 171.7 | 162,400 |
| | 42 | 79.4 | 171.2 | 148,200 |
| | 44 | 78.7 | 170.8 | 135,700 |
| | 46 | 77.9 | 170.3 | 124,700 |
| | 48 | 77.2 | 169.8 | 114,900 |
| | 50 | 76.5 | 169.3 | 106,100 |
| | 55 | 74.7 | 167.8 | 87,600 |
| | 60 | 72.9 | 166.2 | 72,900 |
| | 65 | 71.0 | 164.4 | 61,000 |
| | 70 | 69.2 | 162.4 | 51,000 |
| | 75 | 67.3 | 160.2 | 42,700 |
| | 80 | 65.4 | 157.8 | 35,500 |
| | 85 | 63.4 | 155.2 | 29,300 |
| | 90 | 61.4 | 152.4 | 23,900 |
| | 95 | 59.4 | 149.4 | 19,200 |
| | 100 | 57.3 | 146.1 | 15,000 |
| 105 | 55.2 | 142.5 | 11,200 | |

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

**BOOM NO. 44 WITH 5' TOP
110' LUFFING JIB NO. 133A
SET AT 160 DEGREE BOOM TO LUFFING JIB ANGLE
167,000 LB. COUNTERWEIGHT
360 DEGREE RATING**

**MEETS
ANSI B30.5
REQUIREMENTS**

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS | | |
|-----------------|-----------------|----------------|-----------------------|----------------------|----------|---------|
| 85 | 22 | 83.0 | 93.7 | 287,400* | | |
| | 23 | 82.3 | 93.5 | 286,200* | | |
| | 24 | 81.6 | 93.3 | 284,900* | | |
| | 25 | 80.9 | 93.1 | 283,800* | | |
| | 26 | 80.2 | 92.9 | 282,700* | | |
| | 80 | 27 | 79.5 | 92.7 | 281,600* | |
| | | 28 | 78.9 | 92.4 | 280,600* | |
| | | 29 | 78.2 | 92.1 | 279,500* | |
| | | 30 | 77.5 | 91.9 | 266,500 | |
| | | 32 | 76.1 | 91.3 | 234,900 | |
| | | 75 | 34 | 74.6 | 90.6 | 208,900 |
| | | | 36 | 73.2 | 89.9 | 187,100 |
| | | | 38 | 71.8 | 89.1 | 168,600 |
| | 40 | | 70.3 | 88.3 | 152,600 | |
| | 42 | | 68.8 | 87.4 | 138,800 | |
| | 70 | | 44 | 67.4 | 86.5 | 126,600 |
| | | | 46 | 65.8 | 85.4 | 115,900 |
| | | | 48 | 64.3 | 84.4 | 106,300 |
| | | 50 | 62.8 | 83.2 | 97,700 | |
| | | 55 | 58.8 | 80.0 | 79,700 | |
| 65 | | 60 | 54.6 | 76.3 | 65,300 | |
| | | 65 | 50.1 | 71.9 | 53,700 | |
| | | 70 | 45.3 | 66.7 | 44,000 | |
| | 75 | 39.9 | 60.6 | 35,900 | | |
| | 80 | 33.8 | 53.0 | 28,900 | | |
| | 85 | 26.3 | 43.0 | 22,400* | | |
| | 95 | 24 | 82.5 | 103.5 | 285,400* | |
| | | 25 | 81.9 | 103.3 | 283,600* | |
| 26 | | 81.3 | 103.1 | 281,800* | | |
| 27 | | 80.7 | 102.9 | 280,100* | | |
| 28 | | 80.1 | 102.7 | 278,500* | | |
| 90 | | 29 | 79.4 | 102.4 | 276,900* | |
| | | 30 | 78.8 | 102.2 | 268,400 | |
| | | 32 | 77.6 | 101.7 | 236,700 | |
| | | 34 | 76.3 | 101.1 | 210,600 | |
| | | 36 | 75.0 | 100.5 | 188,800 | |
| | | 85 | 38 | 73.8 | 99.8 | 170,200 |
| | | | 40 | 72.5 | 99.1 | 154,200 |
| | | | 42 | 71.2 | 98.3 | 140,300 |
| 44 | | | 69.9 | 97.4 | 128,100 | |
| 46 | | | 68.6 | 96.6 | 117,300 | |
| 80 | | | 48 | 67.3 | 95.6 | 107,700 |
| | 50 | | 65.9 | 94.6 | 99,100 | |
| | 55 | | 62.5 | 91.9 | 81,000 | |
| | 60 | 58.9 | 88.7 | 66,600 | | |
| | 65 | 55.2 | 85.0 | 54,900 | | |
| | 75 | 70 | 51.2 | 80.9 | 45,200 | |
| | | 75 | 47.1 | 76.0 | 37,100 | |
| | | 80 | 42.5 | 70.4 | 30,100 | |
| 85 | | 37.5 | 63.8 | 24,000 | | |
| 90 | | 31.8 | 55.6 | 18,800 | | |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS | | |
|-----------------|-----------------|----------------|-----------------------|----------------------|----------|---------|
| 105 | 25 | 82.7 | 113.5 | 280,000* | | |
| | 26 | 82.1 | 113.3 | 278,500* | | |
| | 27 | 81.6 | 113.1 | 277,000* | | |
| | 28 | 81.0 | 112.9 | 275,600* | | |
| | 29 | 80.5 | 112.7 | 274,200* | | |
| | 100 | 30 | 79.9 | 112.5 | 269,800 | |
| | | 32 | 78.8 | 112.0 | 238,000 | |
| | | 34 | 77.7 | 111.5 | 211,900 | |
| | | 36 | 76.5 | 110.9 | 190,000 | |
| | | 38 | 75.4 | 110.3 | 171,400 | |
| | | 95 | 40 | 74.2 | 109.7 | 155,400 |
| | | | 42 | 73.1 | 109.0 | 141,500 |
| | | | 44 | 71.9 | 108.2 | 129,300 |
| | 46 | | 70.7 | 107.4 | 118,500 | |
| | 48 | | 69.6 | 106.6 | 108,900 | |
| | 90 | | 50 | 68.4 | 105.7 | 100,200 |
| | | | 55 | 65.3 | 103.3 | 82,100 |
| | | | 60 | 62.2 | 100.5 | 67,700 |
| | | 65 | 59.0 | 97.4 | 56,000 | |
| | | 70 | 55.7 | 93.8 | 46,300 | |
| 85 | | 75 | 52.2 | 89.8 | 38,100 | |
| | | 80 | 48.5 | 85.2 | 31,100 | |
| | | 85 | 44.5 | 79.9 | 25,000 | |
| | 90 | 40.2 | 73.9 | 19,800 | | |
| | 95 | 35.5 | 66.7 | 15,100 | | |
| | 100 | 30.0 | 58.1 | 11,000 | | |
| | 115 | 26 | 82.8 | 123.5 | 275,700* | |
| | | 27 | 82.3 | 123.3 | 274,400* | |
| 28 | | 81.8 | 123.1 | 273,100* | | |
| 29 | | 81.3 | 122.9 | 271,900* | | |
| 30 | | 80.8 | 122.7 | 270,800* | | |
| 110 | | 32 | 79.8 | 122.3 | 239,300 | |
| | | 34 | 78.8 | 121.8 | 213,100 | |
| | | 36 | 77.7 | 121.3 | 191,100 | |
| | | 38 | 76.7 | 120.7 | 172,500 | |
| | | 40 | 75.7 | 120.1 | 156,400 | |
| | | 105 | 42 | 74.6 | 119.5 | 142,500 |
| | | | 44 | 73.6 | 118.8 | 130,200 |
| | | | 46 | 72.5 | 118.1 | 119,400 |
| 48 | | | 71.4 | 117.4 | 109,700 | |
| 50 | | | 70.4 | 116.6 | 101,100 | |
| 100 | | | 55 | 67.7 | 114.4 | 82,900 |
| | 60 | | 64.9 | 111.9 | 68,400 | |
| | 65 | | 62.0 | 109.1 | 56,700 | |
| | 70 | 59.1 | 106.0 | 46,900 | | |
| | 75 | 56.1 | 102.5 | 38,700 | | |
| | 95 | 80 | 52.9 | 98.6 | 31,700 | |
| | | 85 | 49.6 | 94.2 | 25,600 | |
| | | 90 | 46.1 | 89.2 | 20,300 | |
| 95 | | 42.3 | 83.6 | 15,700 | | |
| 100 | | 38.3 | 77.2 | 11,500 | | |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS | | |
|-----------------|-----------------|----------------|-----------------------|----------------------|----------|---------|
| 125 | 27 | 82.9 | 133.4 | 253,900* | | |
| | 28 | 82.5 | 133.2 | 252,100* | | |
| | 29 | 82.0 | 133.1 | 250,400* | | |
| | 30 | 81.5 | 132.9 | 248,600* | | |
| | 32 | 80.6 | 132.5 | 240,000 | | |
| | 120 | 34 | 79.7 | 132.1 | 213,800 | |
| | | 36 | 78.7 | 131.6 | 191,800 | |
| | | 38 | 77.8 | 131.1 | 173,100 | |
| | | 40 | 76.8 | 130.5 | 157,100 | |
| | | 42 | 75.9 | 130.0 | 143,100 | |
| | | 115 | 44 | 74.9 | 129.4 | 130,800 |
| | | | 46 | 74.0 | 128.7 | 120,000 |
| | | | 48 | 73.0 | 128.0 | 110,300 |
| | 50 | | 72.0 | 127.3 | 101,700 | |
| | 55 | | 69.6 | 125.3 | 83,500 | |
| | 110 | | 60 | 67.0 | 123.1 | 69,000 |
| | | | 65 | 64.5 | 120.6 | 57,200 |
| | | | 70 | 61.9 | 117.8 | 47,500 |
| | | 75 | 59.2 | 114.7 | 39,300 | |
| | | 80 | 56.4 | 111.2 | 32,200 | |
| 105 | | 85 | 53.5 | 107.4 | 26,100 | |
| | | 90 | 50.5 | 103.2 | 20,800 | |
| | | 95 | 47.3 | 98.4 | 16,200 | |
| | 100 | 44.0 | 93.1 | 12,000 | | |
| | 135 | 28 | 83.0 | 143.4 | 247,100* | |
| | | 29 | 82.6 | 143.2 | 245,600* | |
| | | 30 | 82.2 | 143.0 | 244,100* | |
| | | 32 | 81.3 | 142.7 | 240,900 | |
| 34 | | 80.4 | 142.3 | 214,500 | | |
| 130 | | 36 | 79.6 | 141.8 | 192,500 | |
| | | 38 | 78.7 | 141.4 | 173,800 | |
| | | 40 | 77.8 | 140.9 | 157,700 | |
| | | 42 | 77.0 | 140.4 | 143,600 | |
| | | 44 | 76.1 | 139.8 | 131,300 | |
| | | 125 | 46 | 75.2 | 139.2 | 120,500 |
| | | | 48 | 74.3 | 138.6 | 110,800 |
| | | | 50 | 73.4 | 137.9 | 102,100 |
| 55 | | | 71.2 | 136.1 | 83,800 | |
| 60 | | | 68.9 | 134.1 | 69,300 | |
| 120 | | | 65 | 66.5 | 131.8 | 57,500 |
| | 70 | | 64.2 | 129.2 | 47,700 | |
| | 75 | | 61.7 | 126.4 | 39,500 | |
| | 80 | 59.2 | 123.4 | 32,400 | | |
| | 85 | 56.7 | 120.0 | 26,300 | | |
| | 115 | 90 | 54.0 | 116.2 | 21,000 | |
| | | 95 | 51.3 | 112.1 | 16,300 | |
| | | 100 | 48.4 | 107.5 | 12,200 | |

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

**BOOM NO. 44 WITH 5' TOP
110' LUFFING JIB NO. 133A
SET AT 160 DEGREE BOOM TO LUFFING JIB ANGLE
167,000 LB. COUNTERWEIGHT
360 DEGREE RATING**

**MEETS
ANSI B30.5
REQUIREMENTS**

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|----------------------|-----------------|----------------|-----------------------|----------------------|
| 1 4 5 | 30 | 82.7 | 153.2 | 238,500* |
| | 32 | 81.9 | 152.8 | 236,100* |
| | 34 | 81.1 | 152.5 | 215,100 |
| | 36 | 80.3 | 152.1 | 193,100 |
| | 38 | 79.5 | 151.6 | 174,400 |
| | 40 | 78.7 | 151.2 | 158,200 |
| | 42 | 77.9 | 150.7 | 144,200 |
| | 44 | 77.1 | 150.2 | 131,900 |
| | 46 | 76.2 | 149.6 | 121,100 |
| | 48 | 75.4 | 149.0 | 111,400 |
| | 50 | 74.6 | 148.4 | 102,700 |
| | 55 | 72.5 | 146.8 | 84,400 |
| | 60 | 70.4 | 144.9 | 69,900 |
| | 65 | 68.3 | 142.8 | 58,100 |
| | 70 | 66.1 | 140.5 | 48,400 |
| | 75 | 63.9 | 137.9 | 40,100 |
| | 80 | 61.6 | 135.1 | 33,100 |
| | 85 | 59.3 | 132.0 | 27,000 |
| | 90 | 56.9 | 128.7 | 21,600 |
| | 95 | 54.5 | 125.0 | 17,000 |
| 100 | 51.9 | 121.0 | 12,800 | |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|----------------------|-----------------|----------------|-----------------------|----------------------|
| 1 5 5 | 32 | 82.4 | 163.0 | 232,500* |
| | 34 | 81.7 | 162.6 | 215,700 |
| | 36 | 80.9 | 162.3 | 193,600 |
| | 38 | 80.2 | 161.9 | 174,800 |
| | 40 | 79.4 | 161.4 | 158,600 |
| | 42 | 78.7 | 161.0 | 144,600 |
| | 44 | 77.9 | 160.5 | 132,300 |
| | 46 | 77.2 | 160.0 | 121,300 |
| | 48 | 76.4 | 159.4 | 111,600 |
| | 50 | 75.6 | 158.9 | 102,900 |
| | 55 | 73.7 | 157.3 | 84,600 |
| | 60 | 71.7 | 155.6 | 70,100 |
| | 65 | 69.7 | 153.6 | 58,200 |
| | 70 | 67.7 | 151.5 | 48,400 |
| | 75 | 65.7 | 149.1 | 40,200 |
| | 80 | 63.6 | 146.6 | 33,100 |
| | 85 | 61.5 | 143.8 | 27,000 |
| | 90 | 59.3 | 140.7 | 21,600 |
| | 95 | 57.1 | 137.4 | 16,900 |
| | 100 | 54.8 | 133.7 | 12,800 |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|----------------------|-----------------|----------------|-----------------------|----------------------|
| 1 6 5 | 32 | 82.9 | 173.1 | 204,600* |
| | 34 | 82.2 | 172.8 | 202,200* |
| | 36 | 81.5 | 172.4 | 193,800 |
| | 38 | 80.8 | 172.1 | 175,000 |
| | 40 | 80.1 | 171.7 | 158,800 |
| | 42 | 79.4 | 171.2 | 144,700 |
| | 44 | 78.7 | 170.8 | 132,400 |
| | 46 | 77.9 | 170.3 | 121,500 |
| | 48 | 77.2 | 169.8 | 111,700 |
| | 50 | 76.5 | 169.3 | 103,000 |
| | 55 | 74.7 | 167.8 | 84,700 |
| | 60 | 72.9 | 166.2 | 70,100 |
| | 65 | 71.0 | 164.4 | 58,300 |
| | 70 | 69.2 | 162.4 | 48,500 |
| | 75 | 67.3 | 160.2 | 40,200 |
| | 80 | 65.4 | 157.8 | 33,100 |
| | 85 | 63.4 | 155.2 | 27,000 |
| | 90 | 61.4 | 152.4 | 21,600 |
| | 95 | 59.4 | 149.4 | 16,900 |
| | 100 | 57.3 | 146.1 | 12,800 |

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

**BOOM NO. 44 WITH 5' TOP
120' LUFFING JIB NO. 133A
SET AT 168 DEGREE BOOM TO LUFFING JIB ANGLE
167,000 LB. COUNTERWEIGHT
360 DEGREE RATING**

**MEETS
ANSI B30.5
REQUIREMENTS**

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS | | |
|-----------------|-----------------|----------------|-----------------------|----------------------|----------|---------|
| 85 | 22 | 83.0 | 93.7 | 290,700* | | |
| | 23 | 82.3 | 93.5 | 289,300* | | |
| | 24 | 81.6 | 93.3 | 288,000* | | |
| | 25 | 80.9 | 93.1 | 286,700* | | |
| | 26 | 80.2 | 92.9 | 285,500* | | |
| | 80 | 27 | 79.5 | 92.7 | 284,300* | |
| | | 28 | 78.9 | 92.4 | 283,100* | |
| | | 29 | 78.2 | 92.1 | 282,000* | |
| | | 30 | 77.5 | 91.9 | 270,500 | |
| | | 32 | 76.1 | 91.3 | 238,200 | |
| | | 75 | 34 | 74.6 | 90.6 | 211,600 |
| | | | 36 | 73.2 | 89.9 | 189,200 |
| | 38 | | 71.8 | 89.1 | 170,300 | |
| | 40 | | 70.3 | 88.3 | 153,900 | |
| | 42 | | 68.8 | 87.4 | 139,700 | |
| | 70 | | 44 | 67.4 | 86.5 | 127,300 |
| | | | 46 | 65.8 | 85.4 | 116,200 |
| | | | 48 | 64.3 | 84.4 | 106,400 |
| | | 50 | 62.8 | 83.2 | 97,600 | |
| | | 55 | 58.8 | 80.0 | 79,100 | |
| 65 | 60 | 54.6 | 76.3 | 64,300 | | |
| | 65 | 50.1 | 71.9 | 52,300 | | |
| | 70 | 45.3 | 66.7 | 42,300 | | |
| | 75 | 39.9 | 60.6 | 33,900 | | |
| | 80 | 33.8 | 53.0 | 26,600 | | |
| | 85 | 26.3 | 43.0 | 19,000* | | |
| | 60 | 24 | 82.5 | 103.5 | 290,500* | |
| | | 25 | 81.9 | 103.3 | 289,200* | |
| | | 26 | 81.3 | 103.1 | 287,800* | |
| | | 27 | 80.7 | 102.9 | 286,300* | |
| 28 | | 80.1 | 102.7 | 284,700* | | |
| 55 | | 29 | 79.4 | 102.4 | 283,100* | |
| | | 30 | 78.8 | 102.2 | 272,700 | |
| | | 32 | 77.6 | 101.7 | 240,300 | |
| | | 34 | 76.3 | 101.1 | 213,600 | |
| | | 36 | 75.0 | 100.5 | 191,200 | |
| | | 50 | 38 | 73.8 | 99.8 | 172,200 |
| | | | 40 | 72.5 | 99.1 | 155,800 |
| 42 | | | 71.2 | 98.3 | 141,600 | |
| 44 | | | 69.9 | 97.4 | 129,100 | |
| 46 | | | 68.6 | 96.6 | 118,000 | |
| 45 | 48 | | 67.3 | 95.6 | 108,200 | |
| | 50 | | 65.9 | 94.6 | 99,300 | |
| | 55 | | 62.5 | 91.9 | 80,800 | |
| | 60 | 58.9 | 88.7 | 66,000 | | |
| | 65 | 55.2 | 85.0 | 54,000 | | |
| 40 | 70 | 51.2 | 80.9 | 44,000 | | |
| | 75 | 47.1 | 76.0 | 35,500 | | |
| | 80 | 42.5 | 70.4 | 28,300 | | |
| | 85 | 37.5 | 63.8 | 22,000 | | |
| | 90 | 31.8 | 55.6 | 16,500 | | |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS | | |
|-----------------|-----------------|----------------|-----------------------|----------------------|----------|---------|
| 105 | 25 | 82.7 | 113.5 | 286,400* | | |
| | 26 | 82.1 | 113.3 | 284,700* | | |
| | 27 | 81.6 | 113.1 | 283,100* | | |
| | 28 | 81.0 | 112.9 | 281,600* | | |
| | 29 | 80.5 | 112.7 | 280,100* | | |
| | 100 | 30 | 79.9 | 112.5 | 274,300 | |
| | | 32 | 78.8 | 112.0 | 241,900 | |
| | | 34 | 77.7 | 111.5 | 215,100 | |
| | | 36 | 76.5 | 110.9 | 192,700 | |
| | | 38 | 75.4 | 110.3 | 173,700 | |
| | | 40 | 74.2 | 109.7 | 157,300 | |
| | | 42 | 73.1 | 109.0 | 143,000 | |
| | | 44 | 71.9 | 108.2 | 130,500 | |
| | 95 | 46 | 70.7 | 107.4 | 119,400 | |
| | | 48 | 69.6 | 106.6 | 109,600 | |
| 50 | | 68.4 | 105.7 | 100,700 | | |
| 55 | | 65.3 | 103.3 | 82,100 | | |
| 60 | | 62.2 | 100.5 | 67,400 | | |
| 65 | | 59.0 | 97.4 | 55,300 | | |
| 70 | | 55.7 | 93.8 | 45,300 | | |
| 75 | | 52.2 | 89.8 | 36,900 | | |
| 80 | | 48.5 | 85.2 | 29,700 | | |
| 85 | | 44.5 | 79.9 | 23,400 | | |
| 90 | 90 | 40.2 | 73.9 | 18,000 | | |
| | 95 | 35.5 | 66.7 | 13,100 | | |
| | 85 | 26 | 82.8 | 123.5 | 281,700* | |
| | | 27 | 82.3 | 123.3 | 280,300* | |
| | | 28 | 81.8 | 123.1 | 279,000* | |
| | | 29 | 81.3 | 122.9 | 277,600* | |
| | | 30 | 80.8 | 122.7 | 275,900 | |
| | | 80 | 32 | 79.8 | 122.3 | 243,300 |
| | | | 34 | 78.8 | 121.8 | 216,500 |
| | | | 36 | 77.7 | 121.3 | 194,000 |
| 38 | | | 76.7 | 120.7 | 174,900 | |
| 40 | | | 75.7 | 120.1 | 158,500 | |
| 75 | | | 42 | 74.6 | 119.5 | 144,200 |
| | | | 44 | 73.6 | 118.8 | 131,600 |
| | | 46 | 72.5 | 118.1 | 120,500 | |
| | | 48 | 71.4 | 117.4 | 110,600 | |
| | | 50 | 70.4 | 116.6 | 101,800 | |
| | 70 | 55 | 67.7 | 114.4 | 83,100 | |
| | | 60 | 64.9 | 111.9 | 68,300 | |
| | | 65 | 62.0 | 109.1 | 56,300 | |
| 70 | | 59.1 | 106.0 | 46,300 | | |
| 75 | | 56.1 | 102.5 | 37,800 | | |
| 65 | 80 | 52.9 | 98.6 | 30,600 | | |
| | 85 | 49.6 | 94.2 | 24,300 | | |
| | 90 | 46.1 | 89.2 | 18,900 | | |
| | 95 | 42.3 | 83.6 | 14,000 | | |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS | |
|-----------------|-----------------|----------------|-----------------------|----------------------|----------|
| 125 | 27 | 82.9 | 133.4 | 262,800* | |
| | 28 | 82.5 | 133.2 | 260,800* | |
| | 29 | 82.0 | 133.1 | 258,900* | |
| | 30 | 81.5 | 132.9 | 257,100* | |
| | 32 | 80.6 | 132.5 | 244,200 | |
| | 120 | 34 | 79.7 | 132.1 | 217,400 |
| | | 36 | 78.7 | 131.6 | 194,900 |
| | | 38 | 77.8 | 131.1 | 175,700 |
| | | 40 | 76.8 | 130.5 | 159,300 |
| | | 42 | 75.9 | 130.0 | 145,000 |
| | | 44 | 74.9 | 129.4 | 132,400 |
| | | 46 | 74.0 | 128.7 | 121,300 |
| | | 48 | 73.0 | 128.0 | 111,400 |
| | 115 | 50 | 72.0 | 127.3 | 102,500 |
| | | 55 | 69.6 | 125.3 | 83,900 |
| 60 | | 67.0 | 123.1 | 69,100 | |
| 65 | | 64.5 | 120.6 | 57,000 | |
| 70 | | 61.9 | 117.8 | 47,000 | |
| 75 | | 59.2 | 114.7 | 38,600 | |
| 80 | | 56.4 | 111.2 | 31,300 | |
| 85 | | 53.5 | 107.4 | 25,100 | |
| 90 | | 50.5 | 103.2 | 19,600 | |
| 95 | | 47.3 | 98.4 | 14,800 | |
| 110 | 100 | 44.0 | 93.1 | 10,500 | |
| | 105 | 28 | 83.0 | 143.4 | 255,400* |
| | | 29 | 82.6 | 143.2 | 253,800* |
| | | 30 | 82.2 | 143.0 | 252,200* |
| | | 32 | 81.3 | 142.7 | 245,200 |
| | | 34 | 80.4 | 142.3 | 218,200 |
| | 100 | 36 | 79.6 | 141.8 | 195,700 |
| | | 38 | 78.7 | 141.4 | 176,500 |
| | | 40 | 77.8 | 140.9 | 160,000 |
| | | 42 | 77.0 | 140.4 | 145,700 |
| 44 | | 76.1 | 139.8 | 133,100 | |
| 46 | | 75.2 | 139.2 | 121,900 | |
| 48 | | 74.3 | 138.6 | 112,000 | |
| 50 | | 73.4 | 137.9 | 103,100 | |
| 95 | 55 | 71.2 | 136.1 | 84,400 | |
| | 60 | 68.9 | 134.1 | 69,600 | |
| | 65 | 66.5 | 131.8 | 57,500 | |
| | 70 | 64.2 | 129.2 | 47,400 | |
| | 75 | 61.7 | 126.4 | 39,000 | |
| | 80 | 59.2 | 123.4 | 31,700 | |
| | 85 | 56.7 | 120.0 | 25,500 | |
| | 90 | 54.0 | 116.2 | 20,000 | |
| 90 | 95 | 51.3 | 112.1 | 15,200 | |
| | 100 | 48.4 | 107.5 | 10,900 | |

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

**BOOM NO. 44 WITH 5' TOP
120' LUFFING JIB NO. 133A
SET AT 168 DEGREE BOOM TO LUFFING JIB ANGLE
167,000 LB. COUNTERWEIGHT
360 DEGREE RATING**

**MEETS
ANSI B30.5
REQUIREMENTS**

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|----------------------|-----------------|----------------|-----------------------|----------------------|
| 1 4 5 | 30 | 82.7 | 153.2 | 247,800* |
| | 32 | 81.9 | 152.8 | 245,200* |
| | 34 | 81.1 | 152.5 | 218,900 |
| | 36 | 80.3 | 152.1 | 196,400 |
| | 38 | 79.5 | 151.6 | 177,200 |
| | 40 | 78.7 | 151.2 | 160,700 |
| | 42 | 77.9 | 150.7 | 146,400 |
| | 44 | 77.1 | 150.2 | 133,800 |
| | 46 | 76.2 | 149.6 | 122,700 |
| | 48 | 75.4 | 149.0 | 112,700 |
| | 50 | 74.6 | 148.4 | 103,800 |
| | 55 | 72.5 | 146.8 | 85,200 |
| | 60 | 70.4 | 144.9 | 70,300 |
| | 65 | 68.3 | 142.8 | 58,200 |
| | 70 | 66.1 | 140.5 | 48,200 |
| | 75 | 63.9 | 137.9 | 39,700 |
| | 80 | 61.6 | 135.1 | 32,500 |
| | 85 | 59.3 | 132.0 | 26,200 |
| | 90 | 56.9 | 128.7 | 20,800 |
| | 95 | 54.5 | 125.0 | 15,900 |
| 100 | 51.9 | 121.0 | 11,700 | |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|----------------------|-----------------|----------------|-----------------------|----------------------|
| 1 5 5 | 32 | 82.4 | 163.0 | 239,700* |
| | 34 | 81.7 | 162.6 | 219,600 |
| | 36 | 80.9 | 162.3 | 197,000 |
| | 38 | 80.2 | 161.9 | 177,800 |
| | 40 | 79.4 | 161.4 | 161,200 |
| | 42 | 78.7 | 161.0 | 146,800 |
| | 44 | 77.9 | 160.5 | 134,200 |
| | 46 | 77.2 | 160.0 | 123,000 |
| | 48 | 76.4 | 159.4 | 113,100 |
| | 50 | 75.6 | 158.9 | 104,200 |
| | 55 | 73.7 | 157.3 | 85,400 |
| | 60 | 71.7 | 155.6 | 70,600 |
| | 65 | 69.7 | 153.6 | 58,400 |
| | 70 | 67.7 | 151.5 | 48,400 |
| | 75 | 65.7 | 149.1 | 39,900 |
| | 80 | 63.6 | 146.6 | 32,600 |
| | 85 | 61.5 | 143.8 | 26,400 |
| | 90 | 59.3 | 140.7 | 20,900 |
| | 95 | 57.1 | 137.4 | 16,100 |
| | 100 | 54.8 | 133.7 | 11,800 |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|----------------------|-----------------|----------------|-----------------------|----------------------|
| 1 6 5 | 32 | 82.9 | 173.1 | 215,800* |
| | 34 | 82.2 | 172.8 | 213,100* |
| | 36 | 81.5 | 172.4 | 197,300 |
| | 38 | 80.8 | 172.1 | 178,000 |
| | 40 | 80.1 | 171.7 | 161,500 |
| | 42 | 79.4 | 171.2 | 147,100 |
| | 44 | 78.7 | 170.8 | 134,400 |
| | 46 | 77.9 | 170.3 | 123,300 |
| | 48 | 77.2 | 169.8 | 113,300 |
| | 50 | 76.5 | 169.3 | 104,400 |
| | 55 | 74.7 | 167.8 | 85,600 |
| | 60 | 72.9 | 166.2 | 70,700 |
| | 65 | 71.0 | 164.4 | 58,600 |
| | 70 | 69.2 | 162.4 | 48,500 |
| | 75 | 67.3 | 160.2 | 40,000 |
| | 80 | 65.4 | 157.8 | 32,800 |
| | 85 | 63.4 | 155.2 | 26,500 |
| | 90 | 61.4 | 152.4 | 21,000 |
| | 95 | 59.4 | 149.4 | 16,200 |
| | 100 | 57.3 | 146.1 | 11,900 |

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

**BOOM NO. 44 WITH 5' TOP
130' LUFFING JIB NO. 133A
SET AT 168 DEGREE BOOM TO LUFFING JIB ANGLE
167,000 LB. COUNTERWEIGHT
360 DEGREE RATING**

**MEETS
ANSI B30.5
REQUIREMENTS**

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS | | |
|-----------------|-----------------|----------------|-----------------------|----------------------|----------|---------|
| 85 | 22 | 83.0 | 93.7 | 288,000* | | |
| | 23 | 82.3 | 93.5 | 286,500* | | |
| | 24 | 81.6 | 93.3 | 285,100* | | |
| | 25 | 80.9 | 93.1 | 283,700* | | |
| | 26 | 80.2 | 92.9 | 282,400* | | |
| | 80 | 27 | 79.5 | 92.7 | 281,100* | |
| | | 28 | 78.9 | 92.4 | 279,900* | |
| | | 29 | 78.2 | 92.1 | 278,700* | |
| | | 30 | 77.5 | 91.9 | 266,700 | |
| | | 32 | 76.1 | 91.3 | 234,500 | |
| | | 75 | 34 | 74.6 | 90.6 | 208,000 |
| | | | 36 | 73.2 | 89.9 | 185,900 |
| | | | 38 | 71.8 | 89.1 | 167,000 |
| | 40 | | 70.3 | 88.3 | 150,800 | |
| | 42 | | 68.8 | 87.4 | 136,600 | |
| | 70 | | 44 | 67.4 | 86.5 | 124,200 |
| | | | 46 | 65.8 | 85.4 | 113,300 |
| | | | 48 | 64.3 | 84.4 | 103,500 |
| | | 50 | 62.8 | 83.2 | 94,700 | |
| | | 55 | 58.8 | 80.0 | 76,300 | |
| 65 | | 60 | 54.6 | 76.3 | 61,700 | |
| | | 65 | 50.1 | 71.9 | 49,800 | |
| | | 70 | 45.3 | 66.7 | 39,800 | |
| | 75 | 39.9 | 60.6 | 31,500 | | |
| | 80 | 33.8 | 53.0 | 24,300 | | |
| | 85 | 26.3 | 43.0 | 16,000* | | |
| | 95 | 24 | 82.5 | 103.5 | 287,800* | |
| | | 25 | 81.9 | 103.3 | 286,400* | |
| 26 | | 81.3 | 103.1 | 285,000* | | |
| 27 | | 80.7 | 102.9 | 283,500* | | |
| 28 | | 80.1 | 102.7 | 281,900* | | |
| 90 | | 29 | 79.4 | 102.4 | 280,200* | |
| | | 30 | 78.8 | 102.2 | 269,100 | |
| | | 32 | 77.6 | 101.7 | 236,800 | |
| | | 34 | 76.3 | 101.1 | 210,200 | |
| | | 36 | 75.0 | 100.5 | 188,000 | |
| | | 85 | 38 | 73.8 | 99.8 | 169,100 |
| | | | 40 | 72.5 | 99.1 | 152,800 |
| | | | 42 | 71.2 | 98.3 | 138,600 |
| 44 | | | 69.9 | 97.4 | 126,200 | |
| 46 | | | 68.6 | 96.6 | 115,200 | |
| 80 | | | 48 | 67.3 | 95.6 | 105,400 |
| | | | 50 | 65.9 | 94.6 | 96,600 |
| | | | 55 | 62.5 | 91.9 | 78,200 |
| | 60 | 58.9 | 88.7 | 63,500 | | |
| | 65 | 55.2 | 85.0 | 51,600 | | |
| | 75 | 70 | 51.2 | 80.9 | 41,600 | |
| | | 75 | 47.1 | 76.0 | 33,300 | |
| | | 80 | 42.5 | 70.4 | 26,100 | |
| 85 | | 37.5 | 63.8 | 19,900 | | |
| 90 | | 31.8 | 55.6 | 14,400 | | |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS | | |
|-----------------|-----------------|----------------|-----------------------|----------------------|----------|---------|
| 105 | 25 | 82.7 | 113.5 | 283,900* | | |
| | 26 | 82.1 | 113.3 | 282,200* | | |
| | 27 | 81.6 | 113.1 | 280,500* | | |
| | 28 | 81.0 | 112.9 | 278,900* | | |
| | 29 | 80.5 | 112.7 | 277,300* | | |
| | 100 | 30 | 79.9 | 112.5 | 270,800 | |
| | | 32 | 78.8 | 112.0 | 238,500 | |
| | | 34 | 77.7 | 111.5 | 211,900 | |
| | | 36 | 76.5 | 110.9 | 189,600 | |
| | | 38 | 75.4 | 110.3 | 170,700 | |
| | | 95 | 40 | 74.2 | 109.7 | 154,400 |
| | | | 42 | 73.1 | 109.0 | 140,200 |
| | | | 44 | 71.9 | 108.2 | 127,800 |
| | 46 | | 70.7 | 107.4 | 116,800 | |
| | 48 | | 69.6 | 106.6 | 107,000 | |
| | 90 | | 50 | 68.4 | 105.7 | 98,200 |
| | | | 55 | 65.3 | 103.3 | 79,700 |
| | | | 60 | 62.2 | 100.5 | 65,000 |
| | | 65 | 59.0 | 97.4 | 53,100 | |
| | | 70 | 55.7 | 93.8 | 43,100 | |
| 85 | | 75 | 52.2 | 89.8 | 34,800 | |
| | | 80 | 48.5 | 85.2 | 27,600 | |
| | | 85 | 44.5 | 79.9 | 21,400 | |
| | 90 | 40.2 | 73.9 | 16,000 | | |
| | 95 | 35.5 | 66.7 | 11,200 | | |
| | 115 | 26 | 82.8 | 123.5 | 279,200* | |
| | | 27 | 82.3 | 123.3 | 277,800* | |
| | | 28 | 81.8 | 123.1 | 276,400* | |
| 29 | | 81.3 | 122.9 | 275,100* | | |
| 30 | | 80.8 | 122.7 | 272,400 | | |
| 110 | | 32 | 79.8 | 122.3 | 240,100 | |
| | | 34 | 78.8 | 121.8 | 213,400 | |
| | | 36 | 77.7 | 121.3 | 191,000 | |
| | | 38 | 76.7 | 120.7 | 172,100 | |
| | | 40 | 75.7 | 120.1 | 155,700 | |
| | | 105 | 42 | 74.6 | 119.5 | 141,500 |
| | | | 44 | 73.6 | 118.8 | 129,000 |
| | | | 46 | 72.5 | 118.1 | 118,000 |
| 48 | | | 71.4 | 117.4 | 108,200 | |
| 50 | | | 70.4 | 116.6 | 99,300 | |
| 100 | | | 55 | 67.7 | 114.4 | 80,800 |
| | | | 60 | 64.9 | 111.9 | 66,100 |
| | | | 65 | 62.0 | 109.1 | 54,100 |
| | 70 | 59.1 | 106.0 | 44,200 | | |
| | 75 | 56.1 | 102.5 | 35,800 | | |
| | 95 | 80 | 52.9 | 98.6 | 28,600 | |
| | | 85 | 49.6 | 94.2 | 22,400 | |
| | | 90 | 46.1 | 89.2 | 16,900 | |
| 95 | | 42.3 | 83.6 | 12,100 | | |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS | | |
|-----------------|-----------------|----------------|-----------------------|----------------------|----------|---------|
| 125 | 27 | 82.9 | 133.4 | 260,500* | | |
| | 28 | 82.5 | 133.2 | 258,500* | | |
| | 29 | 82.0 | 133.1 | 256,600* | | |
| | 30 | 81.5 | 132.9 | 254,700* | | |
| | 32 | 80.6 | 132.5 | 241,100 | | |
| | 120 | 34 | 79.7 | 132.1 | 214,400 | |
| | | 36 | 78.7 | 131.6 | 192,000 | |
| | | 38 | 77.8 | 131.1 | 173,000 | |
| | | 40 | 76.8 | 130.5 | 156,600 | |
| | | 42 | 75.9 | 130.0 | 142,400 | |
| | | 115 | 44 | 74.9 | 129.4 | 129,900 |
| | | | 46 | 74.0 | 128.7 | 118,900 |
| | | | 48 | 73.0 | 128.0 | 109,000 |
| | 50 | | 72.0 | 127.3 | 100,200 | |
| | 55 | | 69.6 | 125.3 | 81,700 | |
| | 110 | | 60 | 67.0 | 123.1 | 66,900 |
| | | | 65 | 64.5 | 120.6 | 55,000 |
| | | | 70 | 61.9 | 117.8 | 45,000 |
| | | 75 | 59.2 | 114.7 | 36,600 | |
| | | 80 | 56.4 | 111.2 | 29,400 | |
| 105 | | 85 | 53.5 | 107.4 | 23,200 | |
| | | 90 | 50.5 | 103.2 | 17,800 | |
| | | 95 | 47.3 | 98.4 | 13,000 | |
| | 135 | 28 | 83.0 | 143.4 | 253,200* | |
| | | 29 | 82.6 | 143.2 | 251,500* | |
| | | 30 | 82.2 | 143.0 | 249,900* | |
| | | 32 | 81.3 | 142.7 | 242,100 | |
| | | 34 | 80.4 | 142.3 | 215,300 | |
| 130 | | 36 | 79.6 | 141.8 | 192,900 | |
| | | 38 | 78.7 | 141.4 | 173,800 | |
| | | 40 | 77.8 | 140.9 | 157,400 | |
| | | 42 | 77.0 | 140.4 | 143,200 | |
| | | 44 | 76.1 | 139.8 | 130,600 | |
| | | 125 | 46 | 75.2 | 139.2 | 119,600 |
| | | | 48 | 74.3 | 138.6 | 109,700 |
| | | | 50 | 73.4 | 137.9 | 100,800 |
| 55 | | | 71.2 | 136.1 | 82,300 | |
| 60 | | | 68.9 | 134.1 | 67,500 | |
| 120 | | | 65 | 66.5 | 131.8 | 55,500 |
| | | | 70 | 64.2 | 129.2 | 45,500 |
| | | | 75 | 61.7 | 126.4 | 37,100 |
| | 80 | 59.2 | 123.4 | 29,900 | | |
| | 85 | 56.7 | 120.0 | 23,700 | | |
| | 115 | 90 | 54.0 | 116.2 | 18,200 | |
| | | 95 | 51.3 | 112.1 | 13,400 | |

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

**BOOM NO. 44 WITH 5' TOP
130' LUFFING JIB NO. 133A
SET AT 168 DEGREE BOOM TO LUFFING JIB ANGLE
167,000 LB. COUNTERWEIGHT
360 DEGREE RATING**

**MEETS
ANSI B30.5
REQUIREMENTS**

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|----------------------|-----------------|----------------|-----------------------|----------------------|
| 1 4 5 | 30 | 82.7 | 153.2 | 245,600* |
| | 32 | 81.9 | 152.8 | 242,900 |
| | 34 | 81.1 | 152.5 | 216,100 |
| | 36 | 80.3 | 152.1 | 193,700 |
| | 38 | 79.5 | 151.6 | 174,600 |
| | 40 | 78.7 | 151.2 | 158,200 |
| | 42 | 77.9 | 150.7 | 143,900 |
| | 44 | 77.1 | 150.2 | 131,400 |
| | 46 | 76.2 | 149.6 | 120,400 |
| | 48 | 75.4 | 149.0 | 110,500 |
| | 50 | 74.6 | 148.4 | 101,600 |
| | 55 | 72.5 | 146.8 | 83,100 |
| | 60 | 70.4 | 144.9 | 68,300 |
| | 65 | 68.3 | 142.8 | 56,300 |
| | 70 | 66.1 | 140.5 | 46,300 |
| 75 | 63.9 | 137.9 | 37,900 | |
| 80 | 61.6 | 135.1 | 30,700 | |
| 85 | 59.3 | 132.0 | 24,500 | |
| 90 | 56.9 | 128.7 | 19,100 | |
| 95 | 54.5 | 125.0 | 14,300 | |
| 100 | 51.9 | 121.0 | 10,000 | |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|----------------------|-----------------|----------------|-----------------------|----------------------|
| 1 5 5 | 32 | 82.4 | 163.0 | 237,500* |
| | 34 | 81.7 | 162.6 | 216,800 |
| | 36 | 80.9 | 162.3 | 194,300 |
| | 38 | 80.2 | 161.9 | 175,200 |
| | 40 | 79.4 | 161.4 | 158,800 |
| | 42 | 78.7 | 161.0 | 144,500 |
| | 44 | 77.9 | 160.5 | 131,900 |
| | 46 | 77.2 | 160.0 | 120,800 |
| | 48 | 76.4 | 159.4 | 110,900 |
| | 50 | 75.6 | 158.9 | 102,000 |
| | 55 | 73.7 | 157.3 | 83,400 |
| | 60 | 71.7 | 155.6 | 68,600 |
| | 65 | 69.7 | 153.6 | 56,600 |
| | 70 | 67.7 | 151.5 | 46,600 |
| | 75 | 65.7 | 149.1 | 38,100 |
| 80 | 63.6 | 146.6 | 30,900 | |
| 85 | 61.5 | 143.8 | 24,700 | |
| 90 | 59.3 | 140.7 | 19,300 | |
| 95 | 57.1 | 137.4 | 14,500 | |
| 100 | 54.8 | 133.7 | 10,200 | |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|----------------------|-----------------|----------------|-----------------------|----------------------|
| 1 6 5 | 32 | 82.9 | 173.1 | 213,800* |
| | 34 | 82.2 | 172.8 | 211,100* |
| | 36 | 81.5 | 172.4 | 194,700 |
| | 38 | 80.8 | 172.1 | 175,600 |
| | 40 | 80.1 | 171.7 | 159,100 |
| | 42 | 79.4 | 171.2 | 144,800 |
| | 44 | 78.7 | 170.8 | 132,200 |
| | 46 | 77.9 | 170.3 | 121,100 |
| | 48 | 77.2 | 169.8 | 111,200 |
| | 50 | 76.5 | 169.3 | 102,300 |
| | 55 | 74.7 | 167.8 | 83,700 |
| | 60 | 72.9 | 166.2 | 68,800 |
| | 65 | 71.0 | 164.4 | 56,800 |
| | 70 | 69.2 | 162.4 | 46,800 |
| | 75 | 67.3 | 160.2 | 38,300 |
| 80 | 65.4 | 157.8 | 31,100 | |
| 85 | 63.4 | 155.2 | 24,900 | |
| 90 | 61.4 | 152.4 | 19,400 | |
| 95 | 59.4 | 149.4 | 14,600 | |
| 100 | 57.3 | 146.1 | 10,400 | |

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

**BOOM NO. 44 WITH 5' TOP
140' LUFFING JIB NO. 133A
SET AT 168 DEGREE BOOM TO LUFFING JIB ANGLE
167,000 LB. COUNTERWEIGHT
360 DEGREE RATING**

**MEETS
ANSI B30.5
REQUIREMENTS**

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS | | |
|-----------------|-----------------|----------------|-----------------------|----------------------|----------|---------|
| 85 | 22 | 83.0 | 93.7 | 283,500* | | |
| | 23 | 82.3 | 93.5 | 281,900* | | |
| | 24 | 81.6 | 93.3 | 280,400* | | |
| | 25 | 80.9 | 93.1 | 278,900* | | |
| | 26 | 80.2 | 92.9 | 277,500* | | |
| | 80 | 27 | 79.5 | 92.7 | 276,100* | |
| | | 28 | 78.9 | 92.4 | 274,800* | |
| | | 29 | 78.2 | 92.1 | 273,500* | |
| | | 30 | 77.5 | 91.9 | 261,700 | |
| | | 32 | 76.1 | 91.3 | 229,800 | |
| | | 75 | 34 | 74.6 | 90.6 | 203,400 |
| | | | 36 | 73.2 | 89.9 | 181,400 |
| | | | 38 | 71.8 | 89.1 | 162,600 |
| | 40 | | 70.3 | 88.3 | 146,400 | |
| | 42 | | 68.8 | 87.4 | 132,400 | |
| | 70 | | 44 | 67.4 | 86.5 | 120,100 |
| | | 46 | 65.8 | 85.4 | 109,200 | |
| | | 48 | 64.3 | 84.4 | 99,500 | |
| | | 50 | 62.8 | 83.2 | 90,800 | |
| | | 55 | 58.8 | 80.0 | 72,500 | |
| 65 | | 60 | 54.6 | 76.3 | 57,900 | |
| | | 65 | 50.1 | 71.9 | 46,100 | |
| | | 70 | 45.3 | 66.7 | 36,200 | |
| | | 75 | 39.9 | 60.6 | 27,900 | |
| | | 80 | 33.8 | 53.0 | 20,800 | |
| 85 | 26.3 | 43.0 | 11,600* | | | |
| 95 | 24 | 82.5 | 103.5 | 283,300* | | |
| | 25 | 81.9 | 103.3 | 281,900* | | |
| | 26 | 81.3 | 103.1 | 280,400* | | |
| | 27 | 80.7 | 102.9 | 278,900* | | |
| | 28 | 80.1 | 102.7 | 277,300* | | |
| | 90 | 29 | 79.4 | 102.4 | 275,700* | |
| | | 30 | 78.8 | 102.2 | 264,300 | |
| | | 32 | 77.6 | 101.7 | 232,200 | |
| | | 34 | 76.3 | 101.1 | 205,800 | |
| | | 36 | 75.0 | 100.5 | 183,700 | |
| | | 85 | 38 | 73.8 | 99.8 | 164,900 |
| | | | 40 | 72.5 | 99.1 | 148,700 |
| | | | 42 | 71.2 | 98.3 | 134,600 |
| | 44 | | 69.9 | 97.4 | 122,300 | |
| | 46 | | 68.6 | 96.6 | 111,300 | |
| | 80 | | 48 | 67.3 | 95.6 | 101,600 |
| | | | 50 | 65.9 | 94.6 | 92,900 |
| | | | 55 | 62.5 | 91.9 | 74,500 |
| | | | 60 | 58.9 | 88.7 | 59,900 |
| | | | 65 | 55.2 | 85.0 | 48,100 |
| 75 | | 70 | 51.2 | 80.9 | 38,200 | |
| | 75 | 47.1 | 76.0 | 29,900 | | |
| | 80 | 42.5 | 70.4 | 22,800 | | |
| | 85 | 37.5 | 63.8 | 16,600 | | |
| | 90 | 31.8 | 55.6 | 11,200 | | |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS | | |
|-----------------|-----------------|----------------|-----------------------|----------------------|---------|----------|
| 105 | 25 | 82.7 | 113.5 | 279,800* | | |
| | 26 | 82.1 | 113.3 | 278,000* | | |
| | 27 | 81.6 | 113.1 | 276,300* | | |
| | 28 | 81.0 | 112.9 | 274,600* | | |
| | 29 | 80.5 | 112.7 | 273,000* | | |
| | 100 | 30 | 79.9 | 112.5 | 266,200 | |
| | | 32 | 78.8 | 112.0 | 234,100 | |
| | | 34 | 77.7 | 111.5 | 207,700 | |
| | | 36 | 76.5 | 110.9 | 185,500 | |
| | | 38 | 75.4 | 110.3 | 166,700 | |
| | | 95 | 40 | 74.2 | 109.7 | 150,500 |
| | | | 42 | 73.1 | 109.0 | 136,400 |
| | | | 44 | 71.9 | 108.2 | 124,000 |
| | 46 | | 70.7 | 107.4 | 113,100 | |
| | 48 | | 69.6 | 106.6 | 103,300 | |
| | 90 | | 50 | 68.4 | 105.7 | 94,600 |
| | | 55 | 65.3 | 103.3 | 76,200 | |
| | | 60 | 62.2 | 100.5 | 61,600 | |
| | | 65 | 59.0 | 97.4 | 49,700 | |
| | | 70 | 55.7 | 93.8 | 39,900 | |
| 85 | | 75 | 52.2 | 89.8 | 31,600 | |
| | | 80 | 48.5 | 85.2 | 24,400 | |
| | | 85 | 44.5 | 79.9 | 18,300 | |
| | | 90 | 40.2 | 73.9 | 12,900 | |
| | | 115 | 26 | 82.8 | 123.5 | 275,200* |
| 27 | 82.3 | | 123.3 | 273,700* | | |
| 28 | 81.8 | | 123.1 | 272,200* | | |
| 29 | 81.3 | | 122.9 | 270,800* | | |
| 30 | 80.8 | | 122.7 | 268,000 | | |
| 110 | 32 | | 79.8 | 122.3 | 235,800 | |
| | 34 | | 78.8 | 121.8 | 209,300 | |
| | 36 | | 77.7 | 121.3 | 187,100 | |
| | 38 | | 76.7 | 120.7 | 168,200 | |
| | 40 | | 75.7 | 120.1 | 151,900 | |
| | 105 | 42 | 74.6 | 119.5 | 137,800 | |
| | | 44 | 73.6 | 118.8 | 125,400 | |
| | | 46 | 72.5 | 118.1 | 114,400 | |
| 48 | | 71.4 | 117.4 | 104,700 | | |
| 50 | | 70.4 | 116.6 | 95,900 | | |
| 100 | | 55 | 67.7 | 114.4 | 77,500 | |
| | 60 | 64.9 | 111.9 | 62,800 | | |
| | 65 | 62.0 | 109.1 | 50,900 | | |
| | 70 | 59.1 | 106.0 | 41,000 | | |
| | 75 | 56.1 | 102.5 | 32,700 | | |
| | 95 | 80 | 52.9 | 98.6 | 25,600 | |
| | | 85 | 49.6 | 94.2 | 19,400 | |
| | | 90 | 46.1 | 89.2 | 14,000 | |
| | | 125 | 27 | 82.9 | 133.4 | 256,800* |
| | | | 28 | 82.5 | 133.2 | 254,800* |
| 29 | 82.0 | | 133.1 | 252,900* | | |
| 30 | 81.5 | | 132.9 | 251,000* | | |
| 32 | 80.6 | | 132.5 | 237,000 | | |
| 120 | 34 | | 79.7 | 132.1 | 210,400 | |
| | 36 | | 78.7 | 131.6 | 188,200 | |
| | 38 | | 77.8 | 131.1 | 169,300 | |
| | 40 | | 76.8 | 130.5 | 153,000 | |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS | | |
|-----------------|-----------------|----------------|-----------------------|----------------------|----------|----------|
| 125 | 42 | 75.9 | 130.0 | 138,800 | | |
| | 44 | 74.9 | 129.4 | 126,400 | | |
| | 46 | 74.0 | 128.7 | 115,400 | | |
| | 48 | 73.0 | 128.0 | 105,700 | | |
| | 50 | 72.0 | 127.3 | 96,900 | | |
| | 120 | 55 | 69.6 | 125.3 | 78,500 | |
| | | 60 | 67.0 | 123.1 | 63,800 | |
| | | 65 | 64.5 | 120.6 | 51,900 | |
| | | 70 | 61.9 | 117.8 | 42,000 | |
| | | 75 | 59.2 | 114.7 | 33,600 | |
| 115 | | 80 | 56.4 | 111.2 | 26,500 | |
| | | 85 | 53.5 | 107.4 | 20,300 | |
| | | 90 | 50.5 | 103.2 | 14,900 | |
| | 95 | 47.3 | 98.4 | 10,200 | | |
| | 135 | 28 | 83.0 | 143.4 | 249,600* | |
| | | 29 | 82.6 | 143.2 | 247,900* | |
| 30 | | 82.2 | 143.0 | 246,200* | | |
| 32 | | 81.3 | 142.7 | 238,100 | | |
| 34 | | 80.4 | 142.3 | 211,500 | | |
| 130 | | 36 | 79.6 | 141.8 | 189,200 | |
| | | 38 | 78.7 | 141.4 | 170,200 | |
| | | 40 | 77.8 | 140.9 | 153,900 | |
| | | 42 | 77.0 | 140.4 | 139,700 | |
| | | 44 | 76.1 | 139.8 | 127,200 | |
| | 125 | 46 | 75.2 | 139.2 | 116,200 | |
| | | 48 | 74.3 | 138.6 | 106,400 | |
| | | 50 | 73.4 | 137.9 | 97,600 | |
| 55 | | 71.2 | 136.1 | 79,200 | | |
| 60 | | 68.9 | 134.1 | 64,500 | | |
| 120 | | 65 | 66.5 | 131.8 | 52,500 | |
| | 70 | 64.2 | 129.2 | 42,600 | | |
| | 75 | 61.7 | 126.4 | 34,200 | | |
| | 80 | 59.2 | 123.4 | 27,100 | | |
| | 85 | 56.7 | 120.0 | 20,900 | | |
| | 115 | 90 | 54.0 | 116.2 | 15,500 | |
| | | 95 | 51.3 | 112.1 | 10,700 | |
| | | 145 | 30 | 82.7 | 153.2 | 242,000* |
| | | | 32 | 81.9 | 152.8 | 239,000 |
| | | | 34 | 81.1 | 152.5 | 212,300 |
| 36 | 80.3 | | 152.1 | 190,000 | | |
| 38 | 79.5 | | 151.6 | 171,100 | | |
| 140 | 40 | | 78.7 | 151.2 | 154,800 | |
| | 42 | | 77.9 | 150.7 | 140,600 | |
| | 44 | | 77.1 | 150.2 | 128,100 | |
| | 46 | | 76.2 | 149.6 | 117,100 | |
| | 48 | | 75.4 | 149.0 | 107,300 | |
| | 135 | 50 | 74.6 | 148.4 | 98,500 | |
| | | 55 | 72.5 | 146.8 | 80,000 | |
| | | 60 | 70.4 | 144.9 | 65,400 | |
| 65 | | 68.3 | 142.8 | 53,400 | | |
| 70 | | 66.1 | 140.5 | 43,500 | | |
| 130 | | 75 | 63.9 | 137.9 | 35,100 | |
| | 80 | 61.6 | 135.1 | 28,000 | | |
| | 85 | 59.3 | 132.0 | 21,800 | | |
| | 90 | 56.9 | 128.7 | 16,400 | | |
| | 95 | 54.5 | 125.0 | 11,700 | | |

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

**BOOM NO. 44 WITH 5' TOP
140' LUFFING JIB NO. 133A
SET AT 168 DEGREE BOOM TO LUFFING JIB ANGLE
167,000 LB. COUNTERWEIGHT
360 DEGREE RATING**

**MEETS
ANSI B30.5
REQUIREMENTS**

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|----------------------|-----------------|----------------|-----------------------|----------------------|
| 1 5 5 | 32 | 82.4 | 163.0 | 233,900* |
| | 34 | 81.7 | 162.6 | 213,100 |
| | 36 | 80.9 | 162.3 | 190,800 |
| | 38 | 80.2 | 161.9 | 171,800 |
| | 40 | 79.4 | 161.4 | 155,400 |
| | 42 | 78.7 | 161.0 | 141,200 |
| | 44 | 77.9 | 160.5 | 128,700 |
| | 46 | 77.2 | 160.0 | 117,600 |
| | 48 | 76.4 | 159.4 | 107,800 |
| | 50 | 75.6 | 158.9 | 99,000 |
| | 55 | 73.7 | 157.3 | 80,500 |
| | 60 | 71.7 | 155.6 | 65,800 |
| | 65 | 69.7 | 153.6 | 53,800 |
| | 70 | 67.7 | 151.5 | 43,800 |
| | 75 | 65.7 | 149.1 | 35,400 |
| | 80 | 63.6 | 146.6 | 28,300 |
| 85 | 61.5 | 143.8 | 22,100 | |
| 90 | 59.3 | 140.7 | 16,700 | |
| 95 | 57.1 | 137.4 | 11,900 | |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|----------------------|-----------------|----------------|-----------------------|----------------------|
| 1 6 5 | 32 | 82.9 | 173.1 | 210,500* |
| | 34 | 82.2 | 172.8 | 207,800* |
| | 36 | 81.5 | 172.4 | 191,200 |
| | 38 | 80.8 | 172.1 | 172,200 |
| | 40 | 80.1 | 171.7 | 155,800 |
| | 42 | 79.4 | 171.2 | 141,500 |
| | 44 | 78.7 | 170.8 | 129,000 |
| | 46 | 77.9 | 170.3 | 118,000 |
| | 48 | 77.2 | 169.8 | 108,100 |
| | 50 | 76.5 | 169.3 | 99,300 |
| | 55 | 74.7 | 167.8 | 80,800 |
| | 60 | 72.9 | 166.2 | 66,000 |
| | 65 | 71.0 | 164.4 | 54,000 |
| | 70 | 69.2 | 162.4 | 44,100 |
| | 75 | 67.3 | 160.2 | 35,700 |
| | 80 | 65.4 | 157.8 | 28,500 |
| 85 | 63.4 | 155.2 | 22,300 | |
| 90 | 61.4 | 152.4 | 16,900 | |
| 95 | 59.4 | 149.4 | 12,100 | |

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

**BOOM NO. 44 WITH 5' TOP
150' LUFFING JIB NO. 133A
SET AT 168 DEGREE BOOM TO LUFFING JIB ANGLE
167,000 LB. COUNTERWEIGHT
360 DEGREE RATING**

**MEETS
ANSI B30.5
REQUIREMENTS**

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|-----------------|-----------------|----------------|-----------------------|----------------------|
| 85 | 22 | 83.0 | 93.7 | 279,600* |
| | 23 | 82.3 | 93.5 | 277,900* |
| | 24 | 81.6 | 93.3 | 276,300* |
| | 25 | 80.9 | 93.1 | 274,700* |
| | 26 | 80.2 | 92.9 | 273,200* |
| | 27 | 79.5 | 92.7 | 271,700* |
| | 28 | 78.9 | 92.4 | 270,200* |
| | 29 | 78.2 | 92.1 | 268,900* |
| | 30 | 77.5 | 91.9 | 256,700 |
| | 32 | 76.1 | 91.3 | 224,900 |
| | 34 | 74.6 | 90.6 | 198,700 |
| | 36 | 73.2 | 89.9 | 176,800 |
| | 38 | 71.8 | 89.1 | 158,200 |
| | 40 | 70.3 | 88.3 | 142,100 |
| | 42 | 68.8 | 87.4 | 128,200 |
| | 44 | 67.4 | 86.5 | 116,000 |
| 46 | 65.8 | 85.4 | 105,100 | |
| 48 | 64.3 | 84.4 | 95,500 | |
| 50 | 62.8 | 83.2 | 86,800 | |
| 55 | 58.8 | 80.0 | 68,700 | |
| 60 | 54.6 | 76.3 | 54,200 | |
| 65 | 50.1 | 71.9 | 42,500 | |
| 70 | 45.3 | 66.7 | 32,700 | |
| 75 | 39.9 | 60.6 | 24,500 | |
| 80 | 33.8 | 53.0 | 17,400 | |
| 95 | 24 | 82.5 | 103.5 | 279,400* |
| | 25 | 81.9 | 103.3 | 277,900* |
| | 26 | 81.3 | 103.1 | 276,400* |
| | 27 | 80.7 | 102.9 | 274,900* |
| | 28 | 80.1 | 102.7 | 273,300* |
| | 29 | 79.4 | 102.4 | 271,600* |
| | 30 | 78.8 | 102.2 | 259,500 |
| | 32 | 77.6 | 101.7 | 227,600 |
| | 34 | 76.3 | 101.1 | 201,400 |
| | 36 | 75.0 | 100.5 | 179,400 |
| | 38 | 73.8 | 99.8 | 160,700 |
| | 40 | 72.5 | 99.1 | 144,600 |
| | 42 | 71.2 | 98.3 | 130,600 |
| | 44 | 69.9 | 97.4 | 118,400 |
| | 46 | 68.6 | 96.6 | 107,500 |
| | 48 | 67.3 | 95.6 | 97,800 |
| 50 | 65.9 | 94.6 | 89,200 | |
| 55 | 62.5 | 91.9 | 71,000 | |
| 60 | 58.9 | 88.7 | 56,500 | |
| 65 | 55.2 | 85.0 | 44,700 | |
| 70 | 51.2 | 80.9 | 34,900 | |
| 75 | 47.1 | 76.0 | 26,600 | |
| 80 | 42.5 | 70.4 | 19,600 | |
| 85 | 37.5 | 63.8 | 13,500 | |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|-----------------|-----------------|----------------|-----------------------|----------------------|
| 105 | 25 | 82.7 | 113.5 | 276,100* |
| | 26 | 82.1 | 113.3 | 274,300* |
| | 27 | 81.6 | 113.1 | 272,500* |
| | 28 | 81.0 | 112.9 | 270,800* |
| | 29 | 80.5 | 112.7 | 269,100* |
| | 30 | 79.9 | 112.5 | 261,600 |
| | 32 | 78.8 | 112.0 | 229,700 |
| | 34 | 77.7 | 111.5 | 203,400 |
| | 36 | 76.5 | 110.9 | 181,400 |
| | 38 | 75.4 | 110.3 | 162,700 |
| | 40 | 74.2 | 109.7 | 146,600 |
| | 42 | 73.1 | 109.0 | 132,600 |
| | 44 | 71.9 | 108.2 | 120,300 |
| | 46 | 70.7 | 107.4 | 109,400 |
| | 48 | 69.6 | 106.6 | 99,700 |
| | 50 | 68.4 | 105.7 | 91,100 |
| 55 | 65.3 | 103.3 | 72,800 | |
| 60 | 62.2 | 100.5 | 58,300 | |
| 65 | 59.0 | 97.4 | 46,500 | |
| 70 | 55.7 | 93.8 | 36,700 | |
| 75 | 52.2 | 89.8 | 28,500 | |
| 80 | 48.5 | 85.2 | 21,400 | |
| 85 | 44.5 | 79.9 | 15,300 | |
| 90 | 40.2 | 73.9 | 10,000 | |
| 115 | 26 | 82.8 | 123.5 | 271,600* |
| | 27 | 82.3 | 123.3 | 270,100* |
| | 28 | 81.8 | 123.1 | 268,600* |
| | 29 | 81.3 | 122.9 | 267,100* |
| | 30 | 80.8 | 122.7 | 263,500 |
| | 32 | 79.8 | 122.3 | 231,500 |
| | 34 | 78.8 | 121.8 | 205,200 |
| | 36 | 77.7 | 121.3 | 183,100 |
| | 38 | 76.7 | 120.7 | 164,300 |
| | 40 | 75.7 | 120.1 | 148,200 |
| | 42 | 74.6 | 119.5 | 134,100 |
| | 44 | 73.6 | 118.8 | 121,800 |
| | 46 | 72.5 | 118.1 | 110,900 |
| | 48 | 71.4 | 117.4 | 101,200 |
| | 50 | 70.4 | 116.6 | 92,500 |
| | 55 | 67.7 | 114.4 | 74,200 |
| 60 | 64.9 | 111.9 | 59,700 | |
| 65 | 62.0 | 109.1 | 47,900 | |
| 70 | 59.1 | 106.0 | 38,000 | |
| 75 | 56.1 | 102.5 | 29,800 | |
| 80 | 52.9 | 98.6 | 22,700 | |
| 85 | 49.6 | 94.2 | 16,600 | |
| 90 | 46.1 | 89.2 | 11,200 | |
| 125 | 27 | 82.9 | 133.4 | 253,600* |
| | 28 | 82.5 | 133.2 | 251,600* |
| | 29 | 82.0 | 133.1 | 249,600* |
| | 30 | 81.5 | 132.9 | 247,700* |
| | 32 | 80.6 | 132.5 | 232,800 |
| | 34 | 79.7 | 132.1 | 206,400 |
| | 36 | 78.7 | 131.6 | 184,300 |
| | 38 | 77.8 | 131.1 | 165,500 |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|-----------------|-----------------|----------------|-----------------------|----------------------|
| 125 | 40 | 76.8 | 130.5 | 149,400 |
| | 42 | 75.9 | 130.0 | 135,300 |
| | 44 | 74.9 | 129.4 | 123,000 |
| | 46 | 74.0 | 128.7 | 112,100 |
| | 48 | 73.0 | 128.0 | 102,300 |
| | 50 | 72.0 | 127.3 | 93,600 |
| | 55 | 69.6 | 125.3 | 75,300 |
| | 60 | 67.0 | 123.1 | 60,800 |
| | 65 | 64.5 | 120.6 | 48,900 |
| | 70 | 61.9 | 117.8 | 39,100 |
| 75 | 59.2 | 114.7 | 30,800 | |
| 80 | 56.4 | 111.2 | 23,700 | |
| 85 | 53.5 | 107.4 | 17,600 | |
| 90 | 50.5 | 103.2 | 12,300 | |
| 135 | 28 | 83.0 | 143.4 | 246,400* |
| | 29 | 82.6 | 143.2 | 244,700* |
| | 30 | 82.2 | 143.0 | 243,000* |
| | 32 | 81.3 | 142.7 | 234,000 |
| | 34 | 80.4 | 142.3 | 207,600 |
| | 36 | 79.6 | 141.8 | 185,400 |
| | 38 | 78.7 | 141.4 | 166,600 |
| | 40 | 77.8 | 140.9 | 150,400 |
| | 42 | 77.0 | 140.4 | 136,300 |
| | 44 | 76.1 | 139.8 | 123,900 |
| 46 | 75.2 | 139.2 | 113,000 | |
| 48 | 74.3 | 138.6 | 103,200 | |
| 50 | 73.4 | 137.9 | 94,500 | |
| 55 | 71.2 | 136.1 | 76,100 | |
| 60 | 68.9 | 134.1 | 61,500 | |
| 65 | 66.5 | 131.8 | 49,700 | |
| 70 | 64.2 | 129.2 | 39,800 | |
| 75 | 61.7 | 126.4 | 31,500 | |
| 80 | 59.2 | 123.4 | 24,400 | |
| 85 | 56.7 | 120.0 | 18,300 | |
| 90 | 54.0 | 116.2 | 12,900 | |
| 145 | 30 | 82.7 | 153.2 | 237,200* |
| | 32 | 81.9 | 152.8 | 234,500* |
| | 34 | 81.1 | 152.5 | 208,500 |
| | 36 | 80.3 | 152.1 | 186,400 |
| | 38 | 79.5 | 151.6 | 167,500 |
| | 40 | 78.7 | 151.2 | 151,300 |
| | 42 | 77.9 | 150.7 | 137,200 |
| | 44 | 77.1 | 150.2 | 124,900 |
| | 46 | 76.2 | 149.6 | 113,900 |
| | 48 | 75.4 | 149.0 | 104,200 |
| 50 | 74.6 | 148.4 | 95,500 | |
| 55 | 72.5 | 146.8 | 77,100 | |
| 60 | 70.4 | 144.9 | 62,500 | |
| 65 | 68.3 | 142.8 | 50,700 | |
| 70 | 66.1 | 140.5 | 40,800 | |
| 75 | 63.9 | 137.9 | 32,500 | |
| 80 | 61.6 | 135.1 | 25,400 | |
| 85 | 59.3 | 132.0 | 19,300 | |
| 90 | 56.9 | 128.7 | 13,900 | |

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

**BOOM NO. 44 WITH 5' TOP
150' LUFFING JIB NO. 133A
SET AT 168 DEGREE BOOM TO LUFFING JIB ANGLE
167,000 LB. COUNTERWEIGHT
360 DEGREE RATING**

**MEETS
ANSI B30.5
REQUIREMENTS**

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|----------------------|-----------------|----------------|-----------------------|----------------------|
| 1 5 5 | 32 | 82.4 | 163.0 | 230,800* |
| | 34 | 81.7 | 162.6 | 209,400 |
| | 36 | 80.9 | 162.3 | 187,200 |
| | 38 | 80.2 | 161.9 | 168,300 |
| | 40 | 79.4 | 161.4 | 152,100 |
| | 42 | 78.7 | 161.0 | 137,900 |
| | 44 | 77.9 | 160.5 | 125,500 |
| | 46 | 77.2 | 160.0 | 114,500 |
| | 48 | 76.4 | 159.4 | 104,800 |
| | 50 | 75.6 | 158.9 | 96,000 |
| | 55 | 73.7 | 157.3 | 77,600 |
| | 60 | 71.7 | 155.6 | 63,000 |
| | 65 | 69.7 | 153.6 | 51,100 |
| | 70 | 67.7 | 151.5 | 41,200 |
| | 75 | 65.7 | 149.1 | 32,900 |
| | 80 | 63.6 | 146.6 | 25,800 |
| 85 | 61.5 | 143.8 | 19,600 | |
| 90 | 59.3 | 140.7 | 14,300 | |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|----------------------|-----------------|----------------|-----------------------|----------------------|
| 1 6 5 | 32 | 82.9 | 173.1 | 205,500* |
| | 34 | 82.2 | 172.8 | 202,800* |
| | 36 | 81.5 | 172.4 | 187,700 |
| | 38 | 80.8 | 172.1 | 168,800 |
| | 40 | 80.1 | 171.7 | 152,500 |
| | 42 | 79.4 | 171.2 | 138,400 |
| | 44 | 78.7 | 170.8 | 125,900 |
| | 46 | 77.9 | 170.3 | 115,000 |
| | 48 | 77.2 | 169.8 | 105,200 |
| | 50 | 76.5 | 169.3 | 96,400 |
| | 55 | 74.7 | 167.8 | 78,000 |
| | 60 | 72.9 | 166.2 | 63,300 |
| | 65 | 71.0 | 164.4 | 51,400 |
| | 70 | 69.2 | 162.4 | 41,600 |
| | 75 | 67.3 | 160.2 | 33,200 |
| | 80 | 65.4 | 157.8 | 26,100 |
| 85 | 63.4 | 155.2 | 19,900 | |
| 90 | 61.4 | 152.4 | 14,600 | |

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

**BOOM NO. 44 WITH 5' TOP
160' LUFFING JIB NO. 133A
SET AT 168 DEGREE BOOM TO LUFFING JIB ANGLE
167,000 LB. COUNTERWEIGHT
360 DEGREE RATING**

**MEETS
ANSI B30.5
REQUIREMENTS**

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS | |
|-----------------|-----------------|----------------|-----------------------|----------------------|----------|
| 85 | 22 | 83.0 | 93.7 | 274,800* | |
| | 23 | 82.3 | 93.5 | 273,000* | |
| | 24 | 81.6 | 93.3 | 271,200* | |
| | 25 | 80.9 | 93.1 | 269,600* | |
| | 26 | 80.2 | 92.9 | 267,900* | |
| | 80 | 27 | 79.5 | 92.7 | 266,300* |
| | | 28 | 78.9 | 92.4 | 264,800* |
| | | 29 | 78.2 | 92.1 | 263,300* |
| | | 30 | 77.5 | 91.9 | 251,300 |
| | | 32 | 76.1 | 91.3 | 219,700 |
| | | 75 | 34 | 74.6 | 90.6 |
| | 36 | | 73.2 | 89.9 | 171,900 |
| | 38 | | 71.8 | 89.1 | 153,400 |
| | 40 | | 70.3 | 88.3 | 137,500 |
| | 42 | | 68.8 | 87.4 | 123,600 |
| | 44 | | 67.4 | 86.5 | 111,500 |
| | 46 | | 65.8 | 85.4 | 100,700 |
| | 48 | | 64.3 | 84.4 | 91,200 |
| 50 | 62.8 | | 83.2 | 82,600 | |
| 55 | 58.8 | | 80.0 | 64,500 | |
| 70 | 60 | 54.6 | 76.3 | 50,200 | |
| | 65 | 50.1 | 71.9 | 38,500 | |
| | 70 | 45.3 | 66.7 | 28,800 | |
| | 75 | 39.9 | 60.6 | 20,600 | |
| | 80 | 33.8 | 53.0 | 13,700 | |
| | 65 | 24 | 82.5 | 103.5 | 274,600* |
| | | 25 | 81.9 | 103.3 | 273,100* |
| | | 26 | 81.3 | 103.1 | 271,500* |
| | | 27 | 80.7 | 102.9 | 269,900* |
| | | 28 | 80.1 | 102.7 | 268,300* |
| 29 | | 79.4 | 102.4 | 266,600* | |
| 30 | | 78.8 | 102.2 | 254,300 | |
| 32 | | 77.6 | 101.7 | 222,700 | |
| 34 | | 76.3 | 101.1 | 196,600 | |
| 36 | | 75.0 | 100.5 | 174,800 | |
| 60 | | 38 | 73.8 | 99.8 | 156,200 |
| | | 40 | 72.5 | 99.1 | 140,200 |
| | | 42 | 71.2 | 98.3 | 126,300 |
| | | 44 | 69.9 | 97.4 | 114,100 |
| | 46 | 68.6 | 96.6 | 103,400 | |
| | 48 | 67.3 | 95.6 | 93,700 | |
| | 50 | 65.9 | 94.6 | 85,100 | |
| | 55 | 62.5 | 91.9 | 67,000 | |
| 55 | 60 | 58.9 | 88.7 | 52,700 | |
| | 65 | 55.2 | 85.0 | 41,000 | |
| | 70 | 51.2 | 80.9 | 31,200 | |
| | 75 | 47.1 | 76.0 | 23,000 | |
| | 80 | 42.5 | 70.4 | 16,000 | |
| | 85 | 37.5 | 63.8 | 10,000 | |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS | |
|-----------------|-----------------|----------------|-----------------------|----------------------|----------|
| 105 | 25 | 82.7 | 113.5 | 271,800* | |
| | 26 | 82.1 | 113.3 | 269,900* | |
| | 27 | 81.6 | 113.1 | 268,000* | |
| | 28 | 81.0 | 112.9 | 266,200* | |
| | 29 | 80.5 | 112.7 | 264,500* | |
| | 100 | 30 | 79.9 | 112.5 | 256,600 |
| | | 32 | 78.8 | 112.0 | 224,900 |
| | | 34 | 77.7 | 111.5 | 198,800 |
| | | 36 | 76.5 | 110.9 | 177,000 |
| | | 38 | 75.4 | 110.3 | 158,400 |
| | | 95 | 40 | 74.2 | 109.7 |
| | 42 | | 73.1 | 109.0 | 128,500 |
| | 44 | | 71.9 | 108.2 | 116,300 |
| | 46 | | 70.7 | 107.4 | 105,500 |
| | 48 | | 69.6 | 106.6 | 95,800 |
| | 50 | | 68.4 | 105.7 | 87,200 |
| | 55 | | 65.3 | 103.3 | 69,100 |
| | 60 | | 62.2 | 100.5 | 54,700 |
| 65 | 59.0 | | 97.4 | 43,000 | |
| 70 | 55.7 | | 93.8 | 33,300 | |
| 90 | 75 | 52.2 | 89.8 | 25,100 | |
| | 80 | 48.5 | 85.2 | 18,000 | |
| | 85 | 44.5 | 79.9 | 12,000 | |
| | 85 | 26 | 82.8 | 123.5 | 266,500* |
| | | 27 | 82.3 | 123.3 | 264,900* |
| | | 28 | 81.8 | 123.1 | 263,300* |
| | | 29 | 81.3 | 122.9 | 261,800* |
| | | 30 | 80.8 | 122.7 | 258,700 |
| | | 32 | 79.8 | 122.3 | 226,900 |
| | | 34 | 78.8 | 121.8 | 200,800 |
| 36 | | 77.7 | 121.3 | 178,800 | |
| 38 | | 76.7 | 120.7 | 160,200 | |
| 40 | | 75.7 | 120.1 | 144,100 | |
| 80 | | 42 | 74.6 | 119.5 | 130,200 |
| | | 44 | 73.6 | 118.8 | 117,900 |
| | | 46 | 72.5 | 118.1 | 107,100 |
| | | 48 | 71.4 | 117.4 | 97,500 |
| | 50 | 70.4 | 116.6 | 88,800 | |
| | 55 | 67.7 | 114.4 | 70,600 | |
| | 60 | 64.9 | 111.9 | 56,200 | |
| | 65 | 62.0 | 109.1 | 44,500 | |
| 75 | 70 | 59.1 | 106.0 | 34,700 | |
| | 75 | 56.1 | 102.5 | 26,500 | |
| | 80 | 52.9 | 98.6 | 19,500 | |
| | 85 | 49.6 | 94.2 | 13,400 | |
| | 70 | 27 | 82.9 | 133.4 | 249,800* |
| | | 28 | 82.5 | 133.2 | 247,700* |
| | | 29 | 82.0 | 133.1 | 245,700* |
| | | 30 | 81.5 | 132.9 | 243,700* |
| 32 | | 80.6 | 132.5 | 228,300 | |
| 34 | | 79.7 | 132.1 | 202,100 | |
| 36 | | 78.7 | 131.6 | 180,200 | |
| 38 | | 77.8 | 131.1 | 161,500 | |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS | |
|-----------------|-----------------|----------------|-----------------------|----------------------|----------|
| 125 | 40 | 76.8 | 130.5 | 145,400 | |
| | 42 | 75.9 | 130.0 | 131,500 | |
| | 44 | 74.9 | 129.4 | 119,200 | |
| | 46 | 74.0 | 128.7 | 108,400 | |
| | 48 | 73.0 | 128.0 | 98,700 | |
| | 120 | 50 | 72.0 | 127.3 | 90,100 |
| | | 55 | 69.6 | 125.3 | 71,900 |
| | | 60 | 67.0 | 123.1 | 57,400 |
| | | 65 | 64.5 | 120.6 | 45,700 |
| | | 70 | 61.9 | 117.8 | 35,900 |
| 115 | | 75 | 59.2 | 114.7 | 27,700 |
| | 80 | 56.4 | 111.2 | 20,600 | |
| | 85 | 53.5 | 107.4 | 14,600 | |
| | 110 | 28 | 83.0 | 143.4 | 242,600* |
| | | 29 | 82.6 | 143.2 | 240,800* |
| | | 30 | 82.2 | 143.0 | 239,100* |
| | | 32 | 81.3 | 142.7 | 229,700 |
| | | 34 | 80.4 | 142.3 | 203,400 |
| | | 36 | 79.6 | 141.8 | 181,400 |
| | | 38 | 78.7 | 141.4 | 162,700 |
| 40 | | 77.8 | 140.9 | 146,600 | |
| 42 | | 77.0 | 140.4 | 132,600 | |
| 44 | | 76.1 | 139.8 | 120,300 | |
| 105 | | 46 | 75.2 | 139.2 | 109,400 |
| | | 48 | 74.3 | 138.6 | 99,700 |
| | | 50 | 73.4 | 137.9 | 91,000 |
| | | 55 | 71.2 | 136.1 | 72,800 |
| | 60 | 68.9 | 134.1 | 58,300 | |
| | 65 | 66.5 | 131.8 | 46,500 | |
| | 70 | 64.2 | 129.2 | 36,700 | |
| | 75 | 61.7 | 126.4 | 28,500 | |
| 100 | 80 | 59.2 | 123.4 | 21,400 | |
| | 85 | 56.7 | 120.0 | 15,300 | |
| | 90 | 54.0 | 116.2 | 10,000 | |
| | 95 | 30 | 82.7 | 153.2 | 233,500* |
| | | 32 | 81.9 | 152.8 | 230,700* |
| | | 34 | 81.1 | 152.5 | 204,500 |
| | | 36 | 80.3 | 152.1 | 182,400 |
| | | 38 | 79.5 | 151.6 | 163,700 |
| | | 40 | 78.7 | 151.2 | 147,600 |
| | | 42 | 77.9 | 150.7 | 133,600 |
| 44 | | 77.1 | 150.2 | 121,300 | |
| 46 | | 76.2 | 149.6 | 110,500 | |
| 48 | | 75.4 | 149.0 | 100,800 | |
| 90 | | 50 | 74.6 | 148.4 | 92,100 |
| | | 55 | 72.5 | 146.8 | 73,900 |
| | | 60 | 70.4 | 144.9 | 59,400 |
| | | 65 | 68.3 | 142.8 | 47,600 |
| | 70 | 66.1 | 140.5 | 37,800 | |
| | 75 | 63.9 | 137.9 | 29,600 | |
| | 80 | 61.6 | 135.1 | 22,500 | |
| | 85 | 59.3 | 132.0 | 16,400 | |
| | 90 | 56.9 | 128.7 | 11,100 | |

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

**BOOM NO. 44 WITH 5' TOP
160' LUFFING JIB NO. 133A
SET AT 168 DEGREE BOOM TO LUFFING JIB ANGLE
167,000 LB. COUNTERWEIGHT
360 DEGREE RATING**

**MEETS
ANSI B30.5
REQUIREMENTS**

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|----------------------|-----------------|----------------|-----------------------|----------------------|
| 1 5 5 | 32 | 82.4 | 163.0 | 227,000* |
| | 34 | 81.7 | 162.6 | 205,400 |
| | 36 | 80.9 | 162.3 | 183,400 |
| | 38 | 80.2 | 161.9 | 164,600 |
| | 40 | 79.4 | 161.4 | 148,400 |
| | 42 | 78.7 | 161.0 | 134,400 |
| | 44 | 77.9 | 160.5 | 122,100 |
| | 46 | 77.2 | 160.0 | 111,200 |
| | 48 | 76.4 | 159.4 | 101,500 |
| | 50 | 75.6 | 158.9 | 92,700 |
| | 55 | 73.7 | 157.3 | 74,500 |
| | 60 | 71.7 | 155.6 | 59,900 |
| | 65 | 69.7 | 153.6 | 48,100 |
| | 70 | 67.7 | 151.5 | 38,300 |
| | 75 | 65.7 | 149.1 | 30,000 |
| 80 | 63.6 | 146.6 | 23,000 | |
| 85 | 61.5 | 143.8 | 16,900 | |
| 90 | 59.3 | 140.7 | 11,500 | |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|----------------------|-----------------|----------------|-----------------------|----------------------|
| 1 6 5 | 32 | 82.9 | 173.1 | 202,200* |
| | 34 | 82.2 | 172.8 | 199,400* |
| | 36 | 81.5 | 172.4 | 183,900 |
| | 38 | 80.8 | 172.1 | 165,100 |
| | 40 | 80.1 | 171.7 | 149,000 |
| | 42 | 79.4 | 171.2 | 134,900 |
| | 44 | 78.7 | 170.8 | 122,600 |
| | 46 | 77.9 | 170.3 | 111,700 |
| | 48 | 77.2 | 169.8 | 101,900 |
| | 50 | 76.5 | 169.3 | 93,200 |
| | 55 | 74.7 | 167.8 | 74,900 |
| | 60 | 72.9 | 166.2 | 60,400 |
| | 65 | 71.0 | 164.4 | 48,500 |
| | 70 | 69.2 | 162.4 | 38,700 |
| | 75 | 67.3 | 160.2 | 30,400 |
| 80 | 65.4 | 157.8 | 23,400 | |
| 85 | 63.4 | 155.2 | 17,200 | |
| 90 | 61.4 | 152.4 | 11,900 | |

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

**BOOM NO. 44 WITH 5' TOP
170' LUFFING JIB NO. 133A
SET AT 168 DEGREE BOOM TO LUFFING JIB ANGLE
167,000 LB. COUNTERWEIGHT
360 DEGREE RATING**

**MEETS
ANSI B30.5
REQUIREMENTS**

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|-----------------|-----------------|----------------|-----------------------|----------------------|
| 85 | 22 | 83.0 | 93.7 | 271,500* |
| | 23 | 82.3 | 93.5 | 269,700* |
| | 24 | 81.6 | 93.3 | 267,800* |
| | 25 | 80.9 | 93.1 | 266,000* |
| | 26 | 80.2 | 92.9 | 264,300* |
| | 27 | 79.5 | 92.7 | 262,600* |
| | 28 | 78.9 | 92.4 | 261,000* |
| | 29 | 78.2 | 92.1 | 259,400* |
| | 30 | 77.5 | 91.9 | 246,700 |
| | 32 | 76.1 | 91.3 | 215,400 |
| | 34 | 74.6 | 90.6 | 189,600 |
| | 36 | 73.2 | 89.9 | 167,900 |
| | 38 | 71.8 | 89.1 | 149,600 |
| | 40 | 70.3 | 88.3 | 133,700 |
| | 42 | 68.8 | 87.4 | 120,000 |
| | 44 | 67.4 | 86.5 | 107,900 |
| | 46 | 65.8 | 85.4 | 97,200 |
| | 48 | 64.3 | 84.4 | 87,700 |
| 50 | 62.8 | 83.2 | 79,200 | |
| 55 | 58.8 | 80.0 | 61,300 | |
| 60 | 54.6 | 76.3 | 47,100 | |
| 65 | 50.1 | 71.9 | 35,500 | |
| 70 | 45.3 | 66.7 | 25,900 | |
| 75 | 39.9 | 60.6 | 17,800 | |
| 80 | 33.8 | 53.0 | 10,900 | |
| 95 | 24 | 82.5 | 103.5 | 271,300* |
| | 25 | 81.9 | 103.3 | 269,800* |
| | 26 | 81.3 | 103.1 | 268,200* |
| | 27 | 80.7 | 102.9 | 266,500* |
| | 28 | 80.1 | 102.7 | 264,800* |
| | 29 | 79.4 | 102.4 | 263,100* |
| | 30 | 78.8 | 102.2 | 250,000 |
| | 32 | 77.6 | 101.7 | 218,500 |
| | 34 | 76.3 | 101.1 | 192,700 |
| | 36 | 75.0 | 100.5 | 171,000 |
| | 38 | 73.8 | 99.8 | 152,500 |
| | 40 | 72.5 | 99.1 | 136,700 |
| | 42 | 71.2 | 98.3 | 122,900 |
| | 44 | 69.9 | 97.4 | 110,800 |
| | 46 | 68.6 | 96.6 | 100,100 |
| | 48 | 67.3 | 95.6 | 90,500 |
| | 50 | 65.9 | 94.6 | 82,000 |
| | 55 | 62.5 | 91.9 | 64,000 |
| 60 | 58.9 | 88.7 | 49,700 | |
| 65 | 55.2 | 85.0 | 38,100 | |
| 70 | 51.2 | 80.9 | 28,500 | |
| 75 | 47.1 | 76.0 | 20,400 | |
| 80 | 42.5 | 70.4 | 13,400 | |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|-----------------|-----------------|----------------|-----------------------|----------------------|
| 105 | 25 | 82.7 | 113.5 | 267,700* |
| | 26 | 82.1 | 113.3 | 265,800* |
| | 27 | 81.6 | 113.1 | 263,900* |
| | 28 | 81.0 | 112.9 | 262,000* |
| | 29 | 80.5 | 112.7 | 260,200* |
| | 30 | 79.9 | 112.5 | 252,500 |
| | 32 | 78.8 | 112.0 | 221,000 |
| | 34 | 77.7 | 111.5 | 195,000 |
| | 36 | 76.5 | 110.9 | 173,300 |
| | 38 | 75.4 | 110.3 | 154,900 |
| | 40 | 74.2 | 109.7 | 139,000 |
| | 42 | 73.1 | 109.0 | 125,200 |
| | 44 | 71.9 | 108.2 | 113,000 |
| | 46 | 70.7 | 107.4 | 102,300 |
| | 48 | 69.6 | 106.6 | 92,800 |
| | 50 | 68.4 | 105.7 | 84,200 |
| | 55 | 65.3 | 103.3 | 66,200 |
| | 60 | 62.2 | 100.5 | 51,900 |
| 65 | 59.0 | 97.4 | 40,300 | |
| 70 | 55.7 | 93.8 | 30,700 | |
| 75 | 52.2 | 89.8 | 22,500 | |
| 80 | 48.5 | 85.2 | 15,600 | |
| 115 | 26 | 82.8 | 123.5 | 263,500* |
| | 27 | 82.3 | 123.3 | 261,900* |
| | 28 | 81.8 | 123.1 | 260,300* |
| | 29 | 81.3 | 122.9 | 258,700* |
| | 30 | 80.8 | 122.7 | 254,700 |
| | 32 | 79.8 | 122.3 | 223,100 |
| | 34 | 78.8 | 121.8 | 197,100 |
| | 36 | 77.7 | 121.3 | 175,300 |
| | 38 | 76.7 | 120.7 | 156,800 |
| | 40 | 75.7 | 120.1 | 140,900 |
| | 42 | 74.6 | 119.5 | 127,000 |
| | 44 | 73.6 | 118.8 | 114,900 |
| | 46 | 72.5 | 118.1 | 104,100 |
| | 48 | 71.4 | 117.4 | 94,500 |
| | 50 | 70.4 | 116.6 | 85,900 |
| | 55 | 67.7 | 114.4 | 67,900 |
| | 60 | 64.9 | 111.9 | 53,600 |
| | 65 | 62.0 | 109.1 | 41,900 |
| 70 | 59.1 | 106.0 | 32,200 | |
| 75 | 56.1 | 102.5 | 24,100 | |
| 80 | 52.9 | 98.6 | 17,100 | |
| 85 | 49.6 | 94.2 | 11,100 | |
| 125 | 27 | 82.9 | 133.4 | 247,100* |
| | 28 | 82.5 | 133.2 | 245,000* |
| | 29 | 82.0 | 133.1 | 242,900* |
| | 30 | 81.5 | 132.9 | 240,900* |
| | 32 | 80.6 | 132.5 | 224,600 |
| | 34 | 79.7 | 132.1 | 198,600 |
| | 36 | 78.7 | 131.6 | 176,800 |
| | 38 | 77.8 | 131.1 | 158,300 |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|-----------------|-----------------|----------------|-----------------------|----------------------|
| 125 | 40 | 76.8 | 130.5 | 142,300 |
| | 42 | 75.9 | 130.0 | 128,400 |
| | 44 | 74.9 | 129.4 | 116,300 |
| | 46 | 74.0 | 128.7 | 105,500 |
| | 48 | 73.0 | 128.0 | 95,900 |
| | 50 | 72.0 | 127.3 | 87,300 |
| | 55 | 69.6 | 125.3 | 69,300 |
| | 60 | 67.0 | 123.1 | 54,900 |
| | 65 | 64.5 | 120.6 | 43,200 |
| | 70 | 61.9 | 117.8 | 33,500 |
| 135 | 75 | 59.2 | 114.7 | 25,400 |
| | 80 | 56.4 | 111.2 | 18,400 |
| | 85 | 53.5 | 107.4 | 12,400 |
| | 28 | 83.0 | 143.4 | 238,100* |
| | 29 | 82.6 | 143.2 | 236,400* |
| | 30 | 82.2 | 143.0 | 234,600* |
| | 32 | 81.3 | 142.7 | 226,100 |
| | 34 | 80.4 | 142.3 | 200,000 |
| | 36 | 79.6 | 141.8 | 178,100 |
| | 38 | 78.7 | 141.4 | 159,500 |
| 145 | 40 | 77.8 | 140.9 | 143,500 |
| | 42 | 77.0 | 140.4 | 129,600 |
| | 44 | 76.1 | 139.8 | 117,400 |
| | 46 | 75.2 | 139.2 | 106,600 |
| | 48 | 74.3 | 138.6 | 97,000 |
| | 50 | 73.4 | 137.9 | 88,400 |
| | 55 | 71.2 | 136.1 | 70,300 |
| | 60 | 68.9 | 134.1 | 55,900 |
| | 65 | 66.5 | 131.8 | 44,200 |
| | 70 | 64.2 | 129.2 | 34,500 |
| 155 | 75 | 61.7 | 126.4 | 26,300 |
| | 80 | 59.2 | 123.4 | 19,300 |
| | 85 | 56.7 | 120.0 | 13,200 |
| | 30 | 82.7 | 153.2 | 230,900* |
| | 32 | 81.9 | 152.8 | 227,200 |
| | 34 | 81.1 | 152.5 | 201,100 |
| | 36 | 80.3 | 152.1 | 179,300 |
| | 38 | 79.5 | 151.6 | 160,700 |
| | 40 | 78.7 | 151.2 | 144,700 |
| | 42 | 77.9 | 150.7 | 130,800 |
| 165 | 44 | 77.1 | 150.2 | 118,600 |
| | 46 | 76.2 | 149.6 | 107,800 |
| | 48 | 75.4 | 149.0 | 98,200 |
| | 50 | 74.6 | 148.4 | 89,500 |
| | 55 | 72.5 | 146.8 | 71,400 |
| | 60 | 70.4 | 144.9 | 57,000 |
| | 65 | 68.3 | 142.8 | 45,300 |
| | 70 | 66.1 | 140.5 | 35,600 |
| | 75 | 63.9 | 137.9 | 27,400 |
| | 80 | 61.6 | 135.1 | 20,500 |
| 85 | 59.3 | 132.0 | 14,400 | |

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

**BOOM NO. 44 WITH 5' TOP
170' LUFFING JIB NO. 133A
SET AT 168 DEGREE BOOM TO LUFFING JIB ANGLE
167,000 LB. COUNTERWEIGHT
360 DEGREE RATING**

**MEETS
ANSI B30.5
REQUIREMENTS**

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|----------------------|-----------------|----------------|-----------------------|----------------------|
| 1 5 5 | 32 | 82.4 | 163.0 | 224,400* |
| | 34 | 81.7 | 162.6 | 202,200 |
| | 36 | 80.9 | 162.3 | 180,200 |
| | 38 | 80.2 | 161.9 | 161,600 |
| | 40 | 79.4 | 161.4 | 145,600 |
| | 42 | 78.7 | 161.0 | 131,600 |
| | 44 | 77.9 | 160.5 | 119,400 |
| | 46 | 77.2 | 160.0 | 108,500 |
| | 48 | 76.4 | 159.4 | 98,900 |
| | 50 | 75.6 | 158.9 | 90,300 |
| | 55 | 73.7 | 157.3 | 72,100 |
| | 60 | 71.7 | 155.6 | 57,700 |
| | 65 | 69.7 | 153.6 | 45,900 |
| | 70 | 67.7 | 151.5 | 36,200 |
| | 75 | 65.7 | 149.1 | 28,000 |
| 80 | 63.6 | 146.6 | 21,000 | |
| 85 | 61.5 | 143.8 | 14,900 | |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|----------------------|-----------------|----------------|-----------------------|----------------------|
| 1 6 5 | 32 | 82.9 | 173.1 | 199,800* |
| | 34 | 82.2 | 172.8 | 197,000* |
| | 36 | 81.5 | 172.4 | 180,900 |
| | 38 | 80.8 | 172.1 | 162,200 |
| | 40 | 80.1 | 171.7 | 146,200 |
| | 42 | 79.4 | 171.2 | 132,200 |
| | 44 | 78.7 | 170.8 | 119,900 |
| | 46 | 77.9 | 170.3 | 109,100 |
| | 48 | 77.2 | 169.8 | 99,400 |
| | 50 | 76.5 | 169.3 | 90,800 |
| | 55 | 74.7 | 167.8 | 72,600 |
| | 60 | 72.9 | 166.2 | 58,200 |
| | 65 | 71.0 | 164.4 | 46,400 |
| | 70 | 69.2 | 162.4 | 36,700 |
| | 75 | 67.3 | 160.2 | 28,400 |
| 80 | 65.4 | 157.8 | 21,400 | |
| 85 | 63.4 | 155.2 | 15,300 | |
| 90 | 61.4 | 152.4 | 10,000 | |

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

**BOOM NO. 44 WITH 5' TOP
180' LUFFING JIB NO. 133A
SET AT 168 DEGREE BOOM TO LUFFING JIB ANGLE
167,000 LB. COUNTERWEIGHT
360 DEGREE RATING**

**MEETS
ANSI B30.5
REQUIREMENTS**

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|-----------------|-----------------|----------------|-----------------------|----------------------|
| 85 | 22 | 83.0 | 93.7 | 266,900* |
| | 23 | 82.3 | 93.5 | 265,000* |
| | 24 | 81.6 | 93.3 | 263,000* |
| | 25 | 80.9 | 93.1 | 261,100* |
| | 26 | 80.2 | 92.9 | 259,200* |
| | 27 | 79.5 | 92.7 | 257,400* |
| | 28 | 78.9 | 92.4 | 255,700* |
| | 29 | 78.2 | 92.1 | 254,000* |
| | 30 | 77.5 | 91.9 | 241,100 |
| | 32 | 76.1 | 91.3 | 210,000 |
| | 34 | 74.6 | 90.6 | 184,300 |
| | 36 | 73.2 | 89.9 | 162,800 |
| | 38 | 71.8 | 89.1 | 144,600 |
| | 40 | 70.3 | 88.3 | 128,900 |
| | 42 | 68.8 | 87.4 | 115,200 |
| | 44 | 67.4 | 86.5 | 103,200 |
| | 46 | 65.8 | 85.4 | 92,600 |
| | 48 | 64.3 | 84.4 | 83,200 |
| 50 | 62.8 | 83.2 | 74,700 | |
| 55 | 58.8 | 80.0 | 56,900 | |
| 60 | 54.6 | 76.3 | 42,800 | |
| 65 | 50.1 | 71.9 | 31,300 | |
| 70 | 45.3 | 66.7 | 21,800 | |
| 75 | 39.9 | 60.6 | 13,800 | |
| 95 | 24 | 82.5 | 103.5 | 266,600* |
| | 25 | 81.9 | 103.3 | 264,800* |
| | 26 | 81.3 | 103.1 | 263,000* |
| | 27 | 80.7 | 102.9 | 261,100* |
| | 28 | 80.1 | 102.7 | 259,200* |
| | 29 | 79.4 | 102.4 | 257,200* |
| | 30 | 78.8 | 102.2 | 244,600 |
| | 32 | 77.6 | 101.7 | 213,400 |
| | 34 | 76.3 | 101.1 | 187,600 |
| | 36 | 75.0 | 100.5 | 166,100 |
| | 38 | 73.8 | 99.8 | 147,800 |
| | 40 | 72.5 | 99.1 | 132,000 |
| | 42 | 71.2 | 98.3 | 118,300 |
| | 44 | 69.9 | 97.4 | 106,300 |
| | 46 | 68.6 | 96.6 | 95,700 |
| | 48 | 67.3 | 95.6 | 86,200 |
| | 50 | 65.9 | 94.6 | 77,700 |
| | 55 | 62.5 | 91.9 | 59,900 |
| 60 | 58.9 | 88.7 | 45,700 | |
| 65 | 55.2 | 85.0 | 34,200 | |
| 70 | 51.2 | 80.9 | 24,600 | |
| 75 | 47.1 | 76.0 | 16,600 | |
| 105 | 25 | 82.7 | 113.5 | 263,200* |
| | 26 | 82.1 | 113.3 | 261,200* |
| | 27 | 81.6 | 113.1 | 259,200* |
| | 28 | 81.0 | 112.9 | 257,300* |
| | 29 | 80.5 | 112.7 | 255,400* |
| | 30 | 79.9 | 112.5 | 247,300 |
| | 32 | 78.8 | 112.0 | 216,000 |
| | 34 | 77.7 | 111.5 | 190,200 |
| | 36 | 76.5 | 110.9 | 168,700 |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|-----------------|-----------------|----------------|-----------------------|----------------------|
| 105 | 38 | 75.4 | 110.3 | 150,300 |
| | 40 | 74.2 | 109.7 | 134,600 |
| | 42 | 73.1 | 109.0 | 120,800 |
| | 44 | 71.9 | 108.2 | 108,800 |
| | 46 | 70.7 | 107.4 | 98,200 |
| | 48 | 69.6 | 106.6 | 88,700 |
| | 50 | 68.4 | 105.7 | 80,200 |
| | 55 | 65.3 | 103.3 | 62,300 |
| | 60 | 62.2 | 100.5 | 48,100 |
| | 65 | 59.0 | 97.4 | 36,600 |
| 70 | 55.7 | 93.8 | 27,000 | |
| 75 | 52.2 | 89.8 | 18,900 | |
| 80 | 48.5 | 85.2 | 12,000 | |
| 115 | 26 | 82.8 | 123.5 | 259,100* |
| | 27 | 82.3 | 123.3 | 257,400* |
| | 28 | 81.8 | 123.1 | 255,700* |
| | 29 | 81.3 | 122.9 | 254,100* |
| | 30 | 80.8 | 122.7 | 249,700 |
| | 32 | 79.8 | 122.3 | 218,300 |
| | 34 | 78.8 | 121.8 | 192,500 |
| | 36 | 77.7 | 121.3 | 170,800 |
| | 38 | 76.7 | 120.7 | 152,500 |
| | 40 | 75.7 | 120.1 | 136,600 |
| 125 | 42 | 74.6 | 119.5 | 122,900 |
| | 44 | 73.6 | 118.8 | 110,800 |
| | 46 | 72.5 | 118.1 | 100,100 |
| | 48 | 71.4 | 117.4 | 90,600 |
| | 50 | 70.4 | 116.6 | 82,100 |
| | 55 | 67.7 | 114.4 | 64,200 |
| | 60 | 64.9 | 111.9 | 49,900 |
| | 65 | 62.0 | 109.1 | 38,400 |
| | 70 | 59.1 | 106.0 | 28,800 |
| | 75 | 56.1 | 102.5 | 20,700 |
| 80 | 52.9 | 98.6 | 13,700 | |
| 135 | 27 | 82.9 | 133.4 | 243,100* |
| | 28 | 82.5 | 133.2 | 240,900* |
| | 29 | 82.0 | 133.1 | 238,800* |
| | 30 | 81.5 | 132.9 | 236,800* |
| | 32 | 80.6 | 132.5 | 220,000 |
| | 34 | 79.7 | 132.1 | 194,100 |
| | 36 | 78.7 | 131.6 | 172,400 |
| | 38 | 77.8 | 131.1 | 154,000 |
| | 40 | 76.8 | 130.5 | 138,200 |
| | 42 | 75.9 | 130.0 | 124,400 |
| 145 | 44 | 74.9 | 129.4 | 112,300 |
| | 46 | 74.0 | 128.7 | 101,600 |
| | 48 | 73.0 | 128.0 | 92,100 |
| | 50 | 72.0 | 127.3 | 83,600 |
| | 55 | 69.6 | 125.3 | 65,600 |
| | 60 | 67.0 | 123.1 | 51,400 |
| | 65 | 64.5 | 120.6 | 39,800 |
| | 70 | 61.9 | 117.8 | 30,200 |
| | 75 | 59.2 | 114.7 | 22,100 |
| | 80 | 56.4 | 111.2 | 15,200 |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS | |
|-----------------|-----------------|----------------|-----------------------|----------------------|----------|
| 135 | 28 | 83.0 | 143.4 | 234,200* | |
| | 29 | 82.6 | 143.2 | 232,400* | |
| | 30 | 82.2 | 143.0 | 230,600* | |
| | 32 | 81.3 | 142.7 | 221,500 | |
| | 34 | 80.4 | 142.3 | 195,600 | |
| | 36 | 79.6 | 141.8 | 173,900 | |
| | 38 | 78.7 | 141.4 | 155,400 | |
| | 40 | 77.8 | 140.9 | 139,500 | |
| | 42 | 77.0 | 140.4 | 125,700 | |
| | 44 | 76.1 | 139.8 | 113,600 | |
| 145 | 46 | 75.2 | 139.2 | 102,900 | |
| | 48 | 74.3 | 138.6 | 93,300 | |
| | 50 | 73.4 | 137.9 | 84,800 | |
| | 55 | 71.2 | 136.1 | 66,800 | |
| | 60 | 68.9 | 134.1 | 52,500 | |
| | 65 | 66.5 | 131.8 | 40,900 | |
| | 70 | 64.2 | 129.2 | 31,200 | |
| | 75 | 61.7 | 126.4 | 23,100 | |
| | 80 | 59.2 | 123.4 | 16,100 | |
| | 85 | 56.7 | 120.0 | 10,100 | |
| 155 | 30 | 82.7 | 153.2 | 226,900* | |
| | 32 | 81.9 | 152.8 | 222,800 | |
| | 34 | 81.1 | 152.5 | 196,900 | |
| | 36 | 80.3 | 152.1 | 175,100 | |
| | 38 | 79.5 | 151.6 | 156,700 | |
| | 40 | 78.7 | 151.2 | 140,800 | |
| | 42 | 77.9 | 150.7 | 127,000 | |
| | 44 | 77.1 | 150.2 | 114,900 | |
| | 46 | 76.2 | 149.6 | 104,100 | |
| | 48 | 75.4 | 149.0 | 94,600 | |
| 165 | 50 | 74.6 | 148.4 | 86,000 | |
| | 55 | 72.5 | 146.8 | 68,000 | |
| | 60 | 70.4 | 144.9 | 53,800 | |
| | 65 | 68.3 | 142.8 | 42,100 | |
| | 70 | 66.1 | 140.5 | 32,500 | |
| | 75 | 63.9 | 137.9 | 24,400 | |
| | 80 | 61.6 | 135.1 | 17,400 | |
| | 85 | 59.3 | 132.0 | 11,400 | |
| | 175 | 32 | 82.4 | 163.0 | 220,500* |
| | | 34 | 81.7 | 162.6 | 198,000 |
| 36 | | 80.9 | 162.3 | 176,200 | |
| 38 | | 80.2 | 161.9 | 157,700 | |
| 40 | | 79.4 | 161.4 | 141,800 | |
| 42 | | 78.7 | 161.0 | 127,900 | |
| 44 | | 77.9 | 160.5 | 115,800 | |
| 46 | | 77.2 | 160.0 | 105,000 | |
| 48 | | 76.4 | 159.4 | 95,400 | |
| 50 | | 75.6 | 158.9 | 86,800 | |
| 185 | 55 | 73.7 | 157.3 | 68,800 | |
| | 60 | 71.7 | 155.6 | 54,500 | |
| | 65 | 69.7 | 153.6 | 42,800 | |
| | 70 | 67.7 | 151.5 | 33,200 | |
| | 75 | 65.7 | 149.1 | 25,000 | |
| | 80 | 63.6 | 146.6 | 18,000 | |
| | 85 | 61.5 | 143.8 | 12,000 | |

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

**BOOM NO. 44 WITH 5' TOP
180' LUFFING JIB NO. 133A
SET AT 168 DEGREE BOOM TO LUFFING JIB ANGLE
167,000 LB. COUNTERWEIGHT
360 DEGREE RATING**

**MEETS
ANSI B30.5
REQUIREMENTS**

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACI TY POUNDS |
|-----------------------|-----------------------|----------------------|--------------------------------|-----------------------------|
| 1 6 5 | 32 | 82.9 | 173.1 | 196,300* |
| | 34 | 82.2 | 172.8 | 193,500* |
| | 36 | 81.5 | 172.4 | 176,900 |
| | 38 | 80.8 | 172.1 | 158,400 |
| | 40 | 80.1 | 171.7 | 142,400 |
| | 42 | 79.4 | 171.2 | 128,600 |
| | 44 | 78.7 | 170.8 | 116,400 |
| | 46 | 77.9 | 170.3 | 105,600 |
| | 48 | 77.2 | 169.8 | 96,000 |
| | 50 | 76.5 | 169.3 | 87,400 |
| | 55 | 74.7 | 167.8 | 69,400 |
| | 60 | 72.9 | 166.2 | 55,000 |
| | 65 | 71.0 | 164.4 | 43,400 |
| | 70 | 69.2 | 162.4 | 33,700 |
| | 75 | 67.3 | 160.2 | 25,500 |
| | 80 | 65.4 | 157.8 | 18,600 |
| 85 | 63.4 | 155.2 | 12,500 | |

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

**BOOM NO. 44 WITH 5' TOP
190' LUFFING JIB NO. 133A
SET AT 168 DEGREE BOOM TO LUFFING JIB ANGLE
167,000 LB. COUNTERWEIGHT
360 DEGREE RATING**

**MEETS
ANSI B30.5
REQUIREMENTS**

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|-----------------|-----------------|----------------|-----------------------|----------------------|
| 85 | 22 | 83.0 | 93.7 | 262,400* |
| | 23 | 82.3 | 93.5 | 260,300* |
| | 24 | 81.6 | 93.3 | 258,200* |
| | 25 | 80.9 | 93.1 | 256,200* |
| | 26 | 80.2 | 92.9 | 254,200* |
| | 27 | 79.5 | 92.7 | 252,300* |
| | 28 | 78.9 | 92.4 | 250,400* |
| | 29 | 78.2 | 92.1 | 248,600* |
| | 30 | 77.5 | 91.9 | 235,500 |
| | 32 | 76.1 | 91.3 | 204,600 |
| | 34 | 74.6 | 90.6 | 179,100 |
| | 36 | 73.2 | 89.9 | 157,800 |
| | 38 | 71.8 | 89.1 | 139,700 |
| | 40 | 70.3 | 88.3 | 124,100 |
| | 42 | 68.8 | 87.4 | 110,600 |
| | 44 | 67.4 | 86.5 | 98,700 |
| | 46 | 65.8 | 85.4 | 88,200 |
| | 48 | 64.3 | 84.4 | 78,800 |
| 50 | 62.8 | 83.2 | 70,400 | |
| 55 | 58.8 | 80.0 | 52,800 | |
| 60 | 54.6 | 76.3 | 38,800 | |
| 65 | 50.1 | 71.9 | 27,400 | |
| 70 | 45.3 | 66.7 | 18,000 | |
| 75 | 39.9 | 60.6 | 10,000 | |
| 95 | 24 | 82.5 | 103.5 | 262,100* |
| | 25 | 81.9 | 103.3 | 260,200* |
| | 26 | 81.3 | 103.1 | 258,400* |
| | 27 | 80.7 | 102.9 | 256,400* |
| | 28 | 80.1 | 102.7 | 254,500* |
| | 29 | 79.4 | 102.4 | 252,500* |
| | 30 | 78.8 | 102.2 | 239,200 |
| | 32 | 77.6 | 101.7 | 208,200 |
| | 34 | 76.3 | 101.1 | 182,700 |
| | 36 | 75.0 | 100.5 | 161,300 |
| | 38 | 73.8 | 99.8 | 143,200 |
| | 40 | 72.5 | 99.1 | 127,500 |
| | 42 | 71.2 | 98.3 | 114,000 |
| | 44 | 69.9 | 97.4 | 102,000 |
| | 46 | 68.6 | 96.6 | 91,500 |
| | 48 | 67.3 | 95.6 | 82,100 |
| | 50 | 65.9 | 94.6 | 73,700 |
| | 55 | 62.5 | 91.9 | 56,000 |
| 60 | 58.9 | 88.7 | 41,900 | |
| 65 | 55.2 | 85.0 | 30,500 | |
| 70 | 51.2 | 80.9 | 21,000 | |
| 75 | 47.1 | 76.0 | 13,000 | |
| 105 | 25 | 82.7 | 113.5 | 259,100* |
| | 26 | 82.1 | 113.3 | 257,000* |
| | 27 | 81.6 | 113.1 | 254,900* |
| | 28 | 81.0 | 112.9 | 252,900* |
| | 29 | 80.5 | 112.7 | 251,000* |
| | 30 | 79.9 | 112.5 | 242,100 |
| | 32 | 78.8 | 112.0 | 211,100 |
| | 34 | 77.7 | 111.5 | 185,500 |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|-----------------|-----------------|----------------|-----------------------|----------------------|
| 105 | 36 | 76.5 | 110.9 | 164,100 |
| | 38 | 75.4 | 110.3 | 145,900 |
| | 40 | 74.2 | 109.7 | 130,300 |
| | 42 | 73.1 | 109.0 | 116,700 |
| | 44 | 71.9 | 108.2 | 104,700 |
| | 46 | 70.7 | 107.4 | 94,100 |
| | 48 | 69.6 | 106.6 | 84,700 |
| | 50 | 68.4 | 105.7 | 76,300 |
| | 55 | 65.3 | 103.3 | 58,600 |
| | 60 | 62.2 | 100.5 | 44,500 |
| 65 | 59.0 | 97.4 | 33,100 | |
| 70 | 55.7 | 93.8 | 23,600 | |
| 75 | 52.2 | 89.8 | 15,600 | |
| 115 | 26 | 82.8 | 123.5 | 255,000* |
| | 27 | 82.3 | 123.3 | 253,300* |
| | 28 | 81.8 | 123.1 | 251,500* |
| | 29 | 81.3 | 122.9 | 249,800* |
| | 30 | 80.8 | 122.7 | 244,700 |
| | 32 | 79.8 | 122.3 | 213,600 |
| | 34 | 78.8 | 121.8 | 187,900 |
| | 36 | 77.7 | 121.3 | 166,500 |
| | 38 | 76.7 | 120.7 | 148,200 |
| | 40 | 75.7 | 120.1 | 132,500 |
| 42 | 74.6 | 119.5 | 118,900 | |
| 44 | 73.6 | 118.8 | 106,900 | |
| 46 | 72.5 | 118.1 | 96,300 | |
| 48 | 71.4 | 117.4 | 86,800 | |
| 50 | 70.4 | 116.6 | 78,400 | |
| 55 | 67.7 | 114.4 | 60,600 | |
| 60 | 64.9 | 111.9 | 46,500 | |
| 65 | 62.0 | 109.1 | 35,000 | |
| 70 | 59.1 | 106.0 | 25,500 | |
| 75 | 56.1 | 102.5 | 17,500 | |
| 80 | 52.9 | 98.6 | 10,600 | |
| 125 | 27 | 82.9 | 133.4 | 237,300* |
| | 28 | 82.5 | 133.2 | 235,100* |
| | 29 | 82.0 | 133.1 | 233,000* |
| | 30 | 81.5 | 132.9 | 231,000* |
| | 32 | 80.6 | 132.5 | 215,400 |
| | 34 | 79.7 | 132.1 | 189,700 |
| | 36 | 78.7 | 131.6 | 168,200 |
| | 38 | 77.8 | 131.1 | 149,900 |
| | 40 | 76.8 | 130.5 | 134,200 |
| | 42 | 75.9 | 130.0 | 120,500 |
| 44 | 74.9 | 129.4 | 108,600 | |
| 46 | 74.0 | 128.7 | 97,900 | |
| 48 | 73.0 | 128.0 | 88,500 | |
| 50 | 72.0 | 127.3 | 80,000 | |
| 55 | 69.6 | 125.3 | 62,200 | |
| 60 | 67.0 | 123.1 | 48,100 | |
| 65 | 64.5 | 120.6 | 36,600 | |
| 70 | 61.9 | 117.8 | 27,100 | |
| 75 | 59.2 | 114.7 | 19,000 | |
| 80 | 56.4 | 111.2 | 12,200 | |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|-----------------|-----------------|----------------|-----------------------|----------------------|
| 135 | 28 | 83.0 | 143.4 | 230,600* |
| | 29 | 82.6 | 143.2 | 228,800* |
| | 30 | 82.2 | 143.0 | 227,000* |
| | 32 | 81.3 | 142.7 | 217,100 |
| | 34 | 80.4 | 142.3 | 191,300 |
| | 36 | 79.6 | 141.8 | 169,800 |
| | 38 | 78.7 | 141.4 | 151,400 |
| | 40 | 77.8 | 140.9 | 135,700 |
| | 42 | 77.0 | 140.4 | 122,000 |
| | 44 | 76.1 | 139.8 | 109,900 |
| 46 | 75.2 | 139.2 | 99,300 | |
| 48 | 74.3 | 138.6 | 89,800 | |
| 50 | 73.4 | 137.9 | 81,300 | |
| 55 | 71.2 | 136.1 | 63,500 | |
| 60 | 68.9 | 134.1 | 49,300 | |
| 65 | 66.5 | 131.8 | 37,800 | |
| 70 | 64.2 | 129.2 | 28,200 | |
| 75 | 61.7 | 126.4 | 20,100 | |
| 80 | 59.2 | 123.4 | 13,300 | |
| 145 | 30 | 82.7 | 153.2 | 223,400* |
| | 32 | 81.9 | 152.8 | 218,400 |
| | 34 | 81.1 | 152.5 | 192,700 |
| | 36 | 80.3 | 152.1 | 171,100 |
| | 38 | 79.5 | 151.6 | 152,800 |
| | 40 | 78.7 | 151.2 | 137,000 |
| | 42 | 77.9 | 150.7 | 123,300 |
| | 44 | 77.1 | 150.2 | 111,300 |
| | 46 | 76.2 | 149.6 | 100,700 |
| | 48 | 75.4 | 149.0 | 91,200 |
| 50 | 74.6 | 148.4 | 82,700 | |
| 55 | 72.5 | 146.8 | 64,800 | |
| 60 | 70.4 | 144.9 | 50,700 | |
| 65 | 68.3 | 142.8 | 39,100 | |
| 70 | 66.1 | 140.5 | 29,600 | |
| 75 | 63.9 | 137.9 | 21,500 | |
| 80 | 61.6 | 135.1 | 14,600 | |
| 155 | 32 | 82.4 | 163.0 | 217,000* |
| | 34 | 81.7 | 162.6 | 193,900 |
| | 36 | 80.9 | 162.3 | 172,300 |
| | 38 | 80.2 | 161.9 | 153,900 |
| | 40 | 79.4 | 161.4 | 138,100 |
| | 42 | 78.7 | 161.0 | 124,400 |
| | 44 | 77.9 | 160.5 | 112,300 |
| | 46 | 77.2 | 160.0 | 101,600 |
| | 48 | 76.4 | 159.4 | 92,100 |
| | 50 | 75.6 | 158.9 | 83,600 |
| 55 | 73.7 | 157.3 | 65,700 | |
| 60 | 71.7 | 155.6 | 51,500 | |
| 65 | 69.7 | 153.6 | 39,900 | |
| 70 | 67.7 | 151.5 | 30,300 | |
| 75 | 65.7 | 149.1 | 22,200 | |
| 80 | 63.6 | 146.6 | 15,300 | |

MANITOWOC ENGINEERING CO.

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



LIFTCRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

**BOOM NO. 44 WITH 5' TOP
190' LUFFING JIB NO. 133A
SET AT 168 DEGREE BOOM TO LUFFING JIB ANGLE
167,000 LB. COUNTERWEIGHT
360 DEGREE RATING**

**MEETS
ANSI B30.5
REQUIREMENTS**

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACI TY POUNDS |
|-----------------------|-----------------------|----------------------|--------------------------------|-----------------------------|
| 1 6 5 | 32 | 82.9 | 173.1 | 193,100* |
| | 34 | 82.2 | 172.8 | 190,200* |
| | 36 | 81.5 | 172.4 | 173,100 |
| | 38 | 80.8 | 172.1 | 154,700 |
| | 40 | 80.1 | 171.7 | 138,900 |
| | 42 | 79.4 | 171.2 | 125,100 |
| | 44 | 78.7 | 170.8 | 113,000 |
| | 46 | 77.9 | 170.3 | 102,300 |
| | 48 | 77.2 | 169.8 | 92,800 |
| | 50 | 76.5 | 169.3 | 84,300 |
| | 55 | 74.7 | 167.8 | 66,400 |
| | 60 | 72.9 | 166.2 | 52,100 |
| | 65 | 71.0 | 164.4 | 40,600 |
| | 70 | 69.2 | 162.4 | 30,900 |
| | 75 | 67.3 | 160.2 | 22,900 |
| 80 | 65.4 | 157.8 | 15,900 | |
| 85 | 63.4 | 155.2 | 10,000 | |

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

**BOOM NO. 44 WITH 5' TOP
200' LUFFING JIB NO. 133A
SET AT 168 DEGREE BOOM TO LUFFING JIB ANGLE
167,000 LB. COUNTERWEIGHT
360 DEGREE RATING**

**MEETS
ANSI B30.5
REQUIREMENTS**

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|-----------------|-----------------|----------------|-----------------------|----------------------|
| 85 | 22 | 83.0 | 93.7 | 257,100* |
| | 23 | 82.3 | 93.5 | 254,900* |
| | 24 | 81.6 | 93.3 | 252,700* |
| | 25 | 80.9 | 93.1 | 250,500* |
| | 26 | 80.2 | 92.9 | 248,400* |
| | 27 | 79.5 | 92.7 | 246,400* |
| | 28 | 78.9 | 92.4 | 244,400* |
| | 29 | 78.2 | 92.1 | 242,400* |
| | 30 | 77.5 | 91.9 | 229,400 |
| | 32 | 76.1 | 91.3 | 198,800 |
| | 34 | 74.6 | 90.6 | 173,500 |
| | 36 | 73.2 | 89.9 | 152,400 |
| | 38 | 71.8 | 89.1 | 134,400 |
| | 40 | 70.3 | 88.3 | 118,900 |
| 42 | 68.8 | 87.4 | 105,500 | |
| 44 | 67.4 | 86.5 | 93,700 | |
| 46 | 65.8 | 85.4 | 83,200 | |
| 48 | 64.3 | 84.4 | 73,900 | |
| 50 | 62.8 | 83.2 | 65,600 | |
| 55 | 58.8 | 80.0 | 48,100 | |
| 60 | 54.6 | 76.3 | 34,300 | |
| 65 | 50.1 | 71.9 | 23,000 | |
| 70 | 45.3 | 66.7 | 13,600 | |
| 95 | 24 | 82.5 | 103.5 | 256,900* |
| | 25 | 81.9 | 103.3 | 254,900* |
| | 26 | 81.3 | 103.1 | 253,000* |
| | 27 | 80.7 | 102.9 | 251,000* |
| | 28 | 80.1 | 102.7 | 249,000* |
| | 29 | 79.4 | 102.4 | 247,000* |
| | 30 | 78.8 | 102.2 | 233,500 |
| | 32 | 77.6 | 101.7 | 202,700 |
| | 34 | 76.3 | 101.1 | 177,400 |
| | 36 | 75.0 | 100.5 | 156,200 |
| | 38 | 73.8 | 99.8 | 138,100 |
| | 40 | 72.5 | 99.1 | 122,600 |
| | 42 | 71.2 | 98.3 | 109,100 |
| | 44 | 69.9 | 97.4 | 97,300 |
| 46 | 68.6 | 96.6 | 86,800 | |
| 48 | 67.3 | 95.6 | 77,500 | |
| 50 | 65.9 | 94.6 | 69,100 | |
| 55 | 62.5 | 91.9 | 51,600 | |
| 60 | 58.9 | 88.7 | 37,700 | |
| 65 | 55.2 | 85.0 | 26,300 | |
| 70 | 51.2 | 80.9 | 17,000 | |
| 105 | 25 | 82.7 | 113.5 | 254,300* |
| | 26 | 82.1 | 113.3 | 252,100* |
| | 27 | 81.6 | 113.1 | 250,000* |
| | 28 | 81.0 | 112.9 | 247,900* |
| | 29 | 80.5 | 112.7 | 245,900* |
| | 30 | 79.9 | 112.5 | 236,600 |
| | 32 | 78.8 | 112.0 | 205,800 |
| | 34 | 77.7 | 111.5 | 180,400 |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|-----------------|-----------------|----------------|-----------------------|----------------------|
| 105 | 36 | 76.5 | 110.9 | 159,200 |
| | 38 | 75.4 | 110.3 | 141,100 |
| | 40 | 74.2 | 109.7 | 125,600 |
| | 42 | 73.1 | 109.0 | 112,100 |
| | 44 | 71.9 | 108.2 | 100,200 |
| | 46 | 70.7 | 107.4 | 89,700 |
| | 48 | 69.6 | 106.6 | 80,400 |
| | 50 | 68.4 | 105.7 | 72,000 |
| | 55 | 65.3 | 103.3 | 54,400 |
| | 60 | 62.2 | 100.5 | 40,500 |
| 65 | 59.0 | 97.4 | 29,100 | |
| 70 | 55.7 | 93.8 | 19,700 | |
| 75 | 52.2 | 89.8 | 11,800 | |
| 115 | 26 | 82.8 | 123.5 | 250,300* |
| | 27 | 82.3 | 123.3 | 248,500* |
| | 28 | 81.8 | 123.1 | 246,600* |
| | 29 | 81.3 | 122.9 | 244,900* |
| | 30 | 80.8 | 122.7 | 239,300 |
| | 32 | 79.8 | 122.3 | 208,400 |
| | 34 | 78.8 | 121.8 | 183,000 |
| | 36 | 77.7 | 121.3 | 161,700 |
| | 38 | 76.7 | 120.7 | 143,600 |
| | 40 | 75.7 | 120.1 | 128,000 |
| 42 | 74.6 | 119.5 | 114,400 | |
| 44 | 73.6 | 118.8 | 102,500 | |
| 46 | 72.5 | 118.1 | 92,000 | |
| 48 | 71.4 | 117.4 | 82,700 | |
| 50 | 70.4 | 116.6 | 74,300 | |
| 55 | 67.7 | 114.4 | 56,600 | |
| 60 | 64.9 | 111.9 | 42,600 | |
| 65 | 62.0 | 109.1 | 31,200 | |
| 70 | 59.1 | 106.0 | 21,800 | |
| 75 | 56.1 | 102.5 | 13,800 | |
| 125 | 27 | 82.9 | 133.4 | 233,100* |
| | 28 | 82.5 | 133.2 | 230,900* |
| | 29 | 82.0 | 133.1 | 228,700* |
| | 30 | 81.5 | 132.9 | 226,600* |
| | 32 | 80.6 | 132.5 | 210,400 |
| | 34 | 79.7 | 132.1 | 184,900 |
| | 36 | 78.7 | 131.6 | 163,600 |
| | 38 | 77.8 | 131.1 | 145,400 |
| | 40 | 76.8 | 130.5 | 129,800 |
| | 42 | 75.9 | 130.0 | 116,300 |
| 44 | 74.9 | 129.4 | 104,400 | |
| 46 | 74.0 | 128.7 | 93,800 | |
| 48 | 73.0 | 128.0 | 84,500 | |
| 50 | 72.0 | 127.3 | 76,100 | |
| 55 | 69.6 | 125.3 | 58,400 | |
| 60 | 67.0 | 123.1 | 44,400 | |
| 65 | 64.5 | 120.6 | 33,000 | |
| 70 | 61.9 | 117.8 | 23,500 | |
| 75 | 59.2 | 114.7 | 15,500 | |

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACITY POUNDS |
|-----------------|-----------------|----------------|-----------------------|----------------------|
| 135 | 28 | 83.0 | 143.4 | 226,500* |
| | 29 | 82.6 | 143.2 | 224,600* |
| | 30 | 82.2 | 143.0 | 222,700* |
| | 32 | 81.3 | 142.7 | 212,200 |
| | 34 | 80.4 | 142.3 | 186,700 |
| | 36 | 79.6 | 141.8 | 165,300 |
| | 38 | 78.7 | 141.4 | 147,100 |
| | 40 | 77.8 | 140.9 | 131,400 |
| | 42 | 77.0 | 140.4 | 117,800 |
| | 44 | 76.1 | 139.8 | 105,900 |
| 46 | 75.2 | 139.2 | 95,300 | |
| 48 | 74.3 | 138.6 | 85,900 | |
| 50 | 73.4 | 137.9 | 77,500 | |
| 55 | 71.2 | 136.1 | 59,800 | |
| 60 | 68.9 | 134.1 | 45,700 | |
| 65 | 66.5 | 131.8 | 34,300 | |
| 70 | 64.2 | 129.2 | 24,800 | |
| 75 | 61.7 | 126.4 | 16,800 | |
| 80 | 59.2 | 123.4 | 10,000 | |
| 145 | 30 | 82.7 | 153.2 | 219,200* |
| | 32 | 81.9 | 152.8 | 213,700 |
| | 34 | 81.1 | 152.5 | 188,100 |
| | 36 | 80.3 | 152.1 | 166,700 |
| | 38 | 79.5 | 151.6 | 148,600 |
| | 40 | 78.7 | 151.2 | 132,900 |
| | 42 | 77.9 | 150.7 | 119,300 |
| | 44 | 77.1 | 150.2 | 107,400 |
| | 46 | 76.2 | 149.6 | 96,800 |
| | 48 | 75.4 | 149.0 | 87,400 |
| 50 | 74.6 | 148.4 | 79,000 | |
| 55 | 72.5 | 146.8 | 61,300 | |
| 60 | 70.4 | 144.9 | 47,200 | |
| 65 | 68.3 | 142.8 | 35,800 | |
| 70 | 66.1 | 140.5 | 26,300 | |
| 75 | 63.9 | 137.9 | 18,300 | |
| 80 | 61.6 | 135.1 | 11,400 | |
| 155 | 32 | 82.4 | 163.0 | 212,800* |
| | 34 | 81.7 | 162.6 | 189,500 |
| | 36 | 80.9 | 162.3 | 168,000 |
| | 38 | 80.2 | 161.9 | 149,800 |
| | 40 | 79.4 | 161.4 | 134,100 |
| | 42 | 78.7 | 161.0 | 120,400 |
| | 44 | 77.9 | 160.5 | 108,500 |
| | 46 | 77.2 | 160.0 | 97,900 |
| | 48 | 76.4 | 159.4 | 88,400 |
| | 50 | 75.6 | 158.9 | 80,000 |
| 55 | 73.7 | 157.3 | 62,200 | |
| 60 | 71.7 | 155.6 | 48,100 | |
| 65 | 69.7 | 153.6 | 36,600 | |
| 70 | 67.7 | 151.5 | 27,100 | |
| 75 | 65.7 | 149.1 | 19,100 | |
| 80 | 63.6 | 146.6 | 12,200 | |

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M-250

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SET AT 168 DEGREE BOOM TO LUFFING JIB ANGLE
167,000 LB. COUNTERWEIGHT
360 DEGREE RATING**

**MEETS
ANSI B30.5
REQUIREMENTS**

| BOOM LGTH. FEET | OPER. RAD. FEET | BOOM ANG. DEG. | BOOM POINT ELEV. FEET | BOOM CAPACI TY POUNDS |
|-----------------------|-----------------------|----------------------|--------------------------------|-----------------------------|
| 1 6 5 | 32 | 82.9 | 173.1 | 189,400* |
| | 34 | 82.2 | 172.8 | 186,500* |
| | 36 | 81.5 | 172.4 | 168,900 |
| | 38 | 80.8 | 172.1 | 150,600 |
| | 40 | 80.1 | 171.7 | 134,900 |
| | 42 | 79.4 | 171.2 | 121,300 |
| | 44 | 78.7 | 170.8 | 109,300 |
| | 46 | 77.9 | 170.3 | 98,700 |
| | 48 | 77.2 | 169.8 | 89,200 |
| | 50 | 76.5 | 169.3 | 80,700 |
| | 55 | 74.7 | 167.8 | 63,000 |
| | 60 | 72.9 | 166.2 | 48,800 |
| | 65 | 71.0 | 164.4 | 37,400 |
| | 70 | 69.2 | 162.4 | 27,800 |
| | 75 | 67.3 | 160.2 | 19,800 |
| 80 | 65.4 | 157.8 | 12,900 | |