

MANITOWOC ENGINEERING CO.

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



LIFTCRANE CAPACITIES

BOOM NO. 44A WITH HEAVY LIFT TOP
80 560 kg COUNTERWEIGHT
RATING OVER REAR OR 360 DEGREES
ON SPREAD OUTRIGGERS

MEETS
ANSI B30.5
REQUIREMENTS

M-250T

CAPACITIES FOR VARIOUS BOOM LENGTHS AND OPERATING RADIUS ARE FOR FREELY SUSPENDED LOADS AND DO NOT EXCEED 85% OF A STATIC TIPPING LOAD. CAPACITIES BASED ON STRUCTURAL COMPETENCE ARE DENOTED BY AN ASTERISK (*).

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

82.3m THRU 91.4m BOOM LENGTHS REQUIRE ONLY THE MIDDLE 3 SHEAVES TO BE USED ON THE LOWER BOOM POINT. ALL OTHER SHEAVES MUST BE REMOVED FROM THE LOWER BOOM POINT.

WEIGHT OF JIB, ALL LOAD BLOCKS, HOOKS, WEIGHT BALL, SLINGS, HOIST LINES, ETC., BENEATH BOOM AND JIB POINT SHEAVES, IS CONSIDERED PART OF THE MAIN BOOM LOAD. BOOM IS NOT TO BE LOWERED BEYOND 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 AND OUTRIGGERS FULLY SPREAD AND SET. RADIUS LESS THAN 12.2m NOT RECOMMENDED WHEN LIFTING OVER FRONT OF MACHINE. MINIMUM BOOM ANGLE OVER TRUCK CAB IS 5 DEGREES. REFER TO BOOM RIGGING NO. 173379, WIRE ROPE SPECIFICATION CHART NO. 7632-A, AND OPERATING RANGE DIAGRAM CHART NO. 7636-A. CRANE OPERATOR JUDGMENT MUST BE USED TO ALLOW FOR DYNAMIC LOAD EFFECTS OF SWINGING, HOISTING OR LOWERING, WIND CONDITIONS, AS WELL AS ADVERSE OPERATING CONDITIONS AND PHYSICAL MACHINE DEPRECIATION.

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

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

MACHINE EQUIPPED WITH MANITOWOC 16 X 8 CARRIER, 9 906 mm WHEELBASE, 2 610 mm FRONT AXLE TRACK, 2 610 mm REAR AXLE TRACK, 385/95 R 25 TIRES, 4 686 mm OUTRIGGERS, 8 534 mm RETRACTABLE GANTRY, 12 PART BOOM HOIST REEVING, FOUR 38 mm BOOM PENDANTS AND 80 560 kg COUNTERWEIGHT.

WIND LIMITS DURING OPERATION			MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED OVER SIDE OR REAR ON SPREAD OUTRIGGERS		DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED	
MAXIMUM WIND VELOCITY	BOOM LENGTH	JIB LENGTH	BOOM LGTH.	JIB NO. 132	JIB LGTH.	JIB NO. 132
m/s	METERS	METERS				
13	21.3 - 61.0	---	91.4m	---	12.2m	2 900 kg
11	64.0 - 73.2	---	88.4m	---	18.3m	3 720 kg
9	76.2 - 91.4	---	85.3m	---	24.4m	4 670 kg
11	39.6 - 64.0	12.2 - 24.4	82.3m	---	30.5m	5 810 kg
9	67.1 - 76.2	12.2 - 24.4	79.2m	18.3m	36.6m	6 940 kg
7	79.2	12.2 - 18.3	76.2m	24.4m		
11	39.6 - 61.0	30.5 - 36.6	73.2m	30.5m		
9	64.0 - 70.1	30.5 - 36.6	70.1m	36.6m		
9	73.2	30.5	LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START. UPPER BOOM POINT CANNOT BE USED ON 91.4m BOOM.			

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

BOOM LGTH. METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM POINT ELEV. METERS	BOOM POINT ELEV. FEET	CAPACITY 360 DEGREES KILOGRAMS	CAPACITY REAR KILOGRAMS
2 1 3	7 0	5.5	82.9	23.9	272 100*	272 100*
		6.0	81.5	23.9	245 300*	245 300*
		6.5	80.2	23.7	246 100*	246 100*
		7.0	78.8	23.6	236 700*	236 700*
		7.5	77.4	23.5	221 600*	221 600*
		8.0	76.0	23.4	208 300*	208 300*
		8.5	74.6	23.2	196 500*	196 500*
		9.0	73.2	23.0	185 800*	185 800*
		10.0	70.3	22.7	164 800*	164 800*
		11.0	67.4	22.2	147 900*	147 900*
		12.0	64.4	21.7	133 800*	133 800*
		13.0	61.3	21.2	120 200*	120 200*
		14.0	58.1	20.5	108 100*	108 100*
		15.0	54.8	19.8	97 900*	97 900*
		16.0	51.4	19.0	89 200*	89 200*
		18.0	43.8	17.0	74 300*	74 300*
		20.0	34.8	14.3	59 000*	59 000*
2 4 4	8 0	6.1	82.4	26.9	238 700*	238 700*
		6.5	81.4	26.9	237 100*	237 100*
		7.0	80.2	26.8	235 100*	235 100*
		7.5	79.0	26.6	221 200*	221 200*
		8.0	77.8	26.5	207 900*	207 900*
		8.5	76.6	26.4	196 100*	196 100*
		9.0	75.4	26.2	185 400*	185 400*
		10.0	72.9	25.9	164 400*	164 400*
		11.0	70.4	25.5	147 400*	147 400*
		12.0	67.8	25.1	133 400*	133 400*
		13.0	65.2	24.6	121 700*	121 700*
		14.0	62.6	24.1	110 900*	110 900*
		15.0	59.8	23.5	100 500*	100 500*
		16.0	57.0	22.8	91 400*	91 600*
		18.0	51.1	21.3	76 400*	77 200*
		20.0	44.5	19.3	65 400*	66 000*
		22.0	37.0	16.8	55 700*	55 600*
		24.0	27.6	13.4	43 900*	43 900*

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BOOM LGTH. METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	CAPACITY 360 DEGREES KILOGRAMS	CAPACITY REAR KILOGRAMS
27.4	90	6.4	82.6	30.0	226 100*	226 100*
		6.5	82.4	29.9	225 700*	225 700*
		7.0	81.3	29.9	223 400*	223 400*
		7.5	80.3	29.8	219 700*	219 700*
		8.0	79.2	29.7	207 600*	207 600*
		8.5	78.1	29.5	195 900*	195 900*
		9.0	77.0	29.4	185 100*	185 100*
		10.0	74.9	29.1	164 200*	164 200*
		11.0	72.7	28.8	147 200*	147 200*
		12.0	70.4	28.4	133 200*	133 200*
		13.0	68.2	28.0	121 600*	121 600*
		14.0	65.9	27.6	111 600*	111 600*
		15.0	63.5	27.0	101 200*	102 800*
		16.0	61.1	26.5	91 300*	94 000*
		18.0	56.1	25.2	76 400*	79 200*
		20.0	50.8	23.6	65 400*	68 000*
		22.0	45.0	21.7	56 800*	59 000*
		24.0	38.5	19.3	50 100*	51 300*
30.5	100	6.7	82.8	33.0	217 400*	217 400*
		7.0	82.2	33.0	216 000*	216 000*
		7.5	81.2	32.9	213 900*	213 900*
		8.0	80.3	32.8	207 500*	207 500*
		8.5	79.3	32.7	195 400*	195 400*
		9.0	78.4	32.6	184 600*	184 600*
		10.0	76.4	32.3	163 800*	163 800*
		11.0	74.5	32.0	146 800*	146 800*
		12.0	72.5	31.7	132 800*	132 800*
		13.0	70.5	31.3	121 100*	121 100*
		14.0	68.5	30.9	111 200*	111 200*
		15.0	66.4	30.5	101 100*	102 700*
		16.0	64.3	30.0	91 200*	95 000*
		18.0	60.0	28.8	76 200*	80 900*
		20.0	55.4	27.5	65 200*	69 300*
		22.0	50.6	25.9	56 600*	60 200*
		24.0	45.4	24.0	49 900*	52 800*
		26.0	39.7	21.7	44 400*	46 500*
		28.0	33.1	18.8	39 500*	40 300*
33.5	110	7.0	82.9	36.0	201 300*	201 300*
		7.5	82.0	36.0	199 100*	199 100*
		8.0	81.2	35.9	197 000*	197 000*
		8.5	80.3	35.8	194 500*	194 500*
		9.0	79.4	35.7	184 400*	184 400*
		10.0	77.7	35.4	163 400*	163 400*
		11.0	75.9	35.2	146 400*	146 400*
		12.0	74.1	34.9	132 500*	132 500*
		13.0	72.3	34.6	120 800*	120 800*
		14.0	70.5	34.2	110 900*	110 900*
		15.0	68.7	33.8	101 000*	102 400*
		16.0	66.8	33.3	91 100*	94 900*
		18.0	63.0	32.3	76 100*	82 100*
		20.0	59.0	31.2	65 000*	70 600*
		22.0	54.9	29.8	56 500*	61 400*
		24.0	50.5	28.2	49 800*	53 900*
		26.0	45.8	26.3	44 300*	47 700*
		28.0	40.6	24.0	39 700*	42 300*
		30.0	34.9	21.3	35 800*	37 500*
		32.0	28.0	17.8	31 500*	31 500*
36.6	120	7.3	83.0	39.1	195 000*	195 000*
		7.5	82.7	39.0	194 300*	194 300*
		8.0	81.9	39.0	192 300*	192 300*
		8.5	81.1	38.9	190 400*	190 400*
		9.0	80.3	38.8	184 300*	184 300*
		10.0	78.7	38.6	162 900*	162 900*
		11.0	77.1	38.3	146 000*	146 000*
		12.0	75.5	38.1	132 000*	132 000*
		13.0	73.9	37.8	120 300*	120 300*
		14.0	72.2	37.4	110 400*	110 400*
		15.0	70.5	37.1	100 800*	101 900*
		16.0	68.9	36.7	90 800*	94 500*
		18.0	65.4	35.8	75 900*	82 300*

BOOM LGTH. METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	CAPACITY 360 DEGREES KILOGRAMS	CAPACITY REAR KILOGRAMS
36.6	120	20.0	61.9	34.7	64 800*	71 600*
		22.0	58.2	33.5	56 200*	62 200*
		24.0	54.4	32.1	49 500*	54 600*
		26.0	50.4	30.5	44 000*	48 400*
		28.0	46.1	28.6	39 400*	43 000*
		30.0	41.4	26.4	35 600*	38 400*
		32.0	36.3	23.8	32 300*	34 400*
		34.0	30.3	20.6	29 300*	30 200*
		7.9	82.7	42.1	183 300*	183 300*
		8.0	82.6	42.1	183 000*	183 000*
		8.5	81.8	42.0	181 100*	181 100*
		9.0	81.1	41.9	179 200*	179 200*
		10.0	79.6	41.7	162 900*	162 900*
		11.0	78.1	41.5	145 700*	145 700*
		12.0	76.6	41.2	131 700*	131 700*
		13.0	75.1	40.9	120 100*	120 100*
		14.0	73.6	40.6	110 100*	110 100*
		15.0	72.1	40.3	100 800*	101 600*
39.6	130	16.0	70.6	39.9	90 700*	94 200*
		18.0	67.4	39.1	75 700*	82 000*
		20.0	64.2	38.2	64 700*	72 300*
		22.0	60.9	37.1	56 100*	63 100*
		24.0	57.5	35.8	49 300*	55 500*
		26.0	54.0	34.4	43 800*	49 100*
		28.0	50.3	32.8	39 200*	43 700*
		30.0	46.3	30.9	35 400*	39 100*
		32.0	42.0	28.8	32 100*	35 200*
		34.0	37.4	26.2	29 300*	31 700*
		36.0	32.2	23.2	26 800*	28 300*
		38.0	25.9	19.4	23 900*	24 000*
		8.2	82.8	45.1	176 200*	176 200*
		8.5	82.4	45.1	175 200*	175 200*
		9.0	81.7	45.0	173 500*	173 500*
		10.0	80.4	44.8	163 000*	163 000*
		11.0	79.0	44.6	145 200*	145 200*
42.7	140	12.0	77.6	44.4	131 200*	131 200*
		13.0	76.2	44.1	119 600*	119 600*
		14.0	74.8	43.8	109 600*	109 600*
		15.0	73.4	43.5	100 400*	101 100*
		16.0	72.0	43.2	90 600*	93 700*
		18.0	69.1	42.4	75 500*	81 500*
		20.0	66.2	41.6	64 400*	71 800*
		22.0	63.2	40.6	55 800*	63 700*
		24.0	60.1	39.4	49 000*	56 000*
		26.0	56.9	38.2	43 500*	49 600*
		28.0	53.6	36.7	38 900*	44 100*
		30.0	50.2	35.1	35 100*	39 500*
		32.0	46.5	33.2	31 800*	35 600*
		34.0	42.6	31.1	29 000*	32 000*
		36.0	38.3	28.7	26 500*	29 000*
		38.0	33.6	25.8	24 300*	26 100*
45.7	150	8.5	82.9	48.1	161 700*	161 700*
		9.0	82.3	48.1	160 200*	160 200*
		10.0	81.0	47.9	156 800*	156 800*
		11.0	79.7	47.7	144 600*	144 600*
		12.0	78.5	47.5	130 400*	130 400*
		13.0	77.2	47.3	118 700*	118 700*
		14.0	75.9	47.0	109 000*	109 000*
		15.0	74.6	46.7	100 000*	100 600*
		16.0	73.3	46.4	90 600*	93 400*
		18.0	70.6	45.7	75 200*	81 200*
		20.0	67.9	44.9	64 200*	71 500*
		22.0	65.2	44.0	55 600*	63 600*
		24.0	62.3	43.0	48 800*	56 600*
		26.0	59.4	41.8	43 300*	50 000*
		28.0	56.4	40.5	38 700*	44 600*
		30.0	53.3	39.0	34 800*	40 000*
		32.0	50.1	37.4	31 600*	35 900*
		34.0	46.7	35.5	28 700*	32 400*
		36.0	43.0	33.4	26 200*	29 300*
		38.0	39.1	31.1	24 000*	26 600*
		40.0	34.9	28.3	22 100*	24 000*
		42.0	30.1	25.0	20 400*	21 600*

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BOOM LGTH. METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	CAPACITY 360 DEGREES KILOGRAMS	CAPACITY REAR KILOGRAMS	BOOM LGTH. METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	CAPACITY 360 DEGREES KILOGRAMS	CAPACITY REAR KILOGRAMS
48.8	160	8.8	83.0	51.2	156 500*	156 500*	57.9	190	10.4	82.5	60.2	128 600*	128 600*
		9.0	82.8	51.1	156 000*	156 000*			11.0	81.9	60.1	127 200*	127 200*
		10.0	81.6	51.0	153 200*	153 200*			12.0	80.9	59.9	122 400*	122 400*
		11.0	80.4	50.8	141 900*	141 900*			13.0	79.9	59.7	111 000*	111 000*
		12.0	79.2	50.6	127 800*	127 800*			14.0	78.9	59.5	101 600*	101 600*
		13.0	78.0	50.4	116 300*	116 300*			15.0	77.9	59.3	93 700*	93 700*
		14.0	76.8	50.1	106 700*	106 700*			16.0	76.9	59.1	86 900*	86 900*
		15.0	75.6	49.9	98 600*	98 600*			18.0	74.8	58.5	74 400*	75 800*
		16.0	74.3	49.6	90 600*	91 500*			20.0	72.8	57.9	63 200*	67 200*
		18.0	71.9	48.9	75 000*	80 100*			22.0	70.7	57.2	54 600*	60 200*
		20.0	69.4	48.2	63 900*	71 000*			24.0	68.5	56.4	47 800*	54 300*
		22.0	66.8	47.4	55 300*	63 200*			26.0	66.4	55.6	42 200*	49 400*
		24.0	64.2	46.4	48 500*	56 500*			28.0	64.2	54.6	37 600*	44 300*
		26.0	61.5	45.3	42 900*	50 300*			30.0	61.9	53.6	33 800*	39 900*
		28.0	58.8	44.1	38 400*	44 800*			32.0	59.7	52.4	30 400*	36 200*
		30.0	56.0	42.8	34 500*	40 100*			34.0	57.3	51.1	27 600*	32 900*
		32.0	53.1	41.3	31 200*	36 100*			36.0	54.9	49.8	25 100*	30 000*
		34.0	50.0	39.7	28 400*	32 600*			38.0	52.4	48.2	22 900*	27 200*
		36.0	46.8	37.8	25 900*	29 500*			40.0	49.9	46.6	21 000*	24 700*
		38.0	43.4	35.8	23 700*	26 700*			42.0	47.2	44.7	19 200*	22 400*
51.8	170	40.0	39.8	33.4	21 800*	24 200*	61.0	200	44.0	44.4	42.7	17 700*	20 400*
		42.0	35.9	30.8	20 000*	22 000*			46.0	41.4	40.5	16 300*	18 500*
		44.0	31.6	27.6	18 500*	19 900*			48.0	38.3	38.0	15 000*	16 800*
		9.1	83.1	54.2	147 500*	147 500*			50.0	34.9	35.3	13 800*	15 300*
		10.0	82.1	54.1	145 100*	145 100*			52.0	31.2	32.1	12 700*	13 800*
		11.0	81.0	53.9	140 100*	140 100*			10.4	82.9	63.3	124 600*	124 600*
		12.0	79.8	53.7	126 000*	126 000*			11.0	82.3	63.2	123 400*	123 400*
		13.0	78.7	53.5	114 600*	114 600*			12.0	81.4	63.0	119 700*	119 700*
		14.0	77.6	53.3	105 100*	105 100*			13.0	80.4	62.8	109 200*	109 200*
		15.0	76.4	53.0	97 000*	97 000*			14.0	79.5	62.6	99 900*	99 900*
		16.0	75.3	52.8	89 500*	90 100*			15.0	78.5	62.4	92 000*	92 000*
		18.0	73.0	52.2	75 000*	78 800*			16.0	77.5	62.2	85 300*	85 300*
		20.0	70.6	51.5	63 700*	69 900*			18.0	75.6	61.7	73 800*	74 400*
		22.0	68.3	50.7	55 100*	62 600*			20.0	73.6	61.1	62 900*	65 800*
		24.0	65.8	49.8	48 300*	56 300*			22.0	71.7	60.5	54 300*	58 900*
		26.0	63.4	48.8	42 800*	50 100*			24.0	69.7	59.7	47 400*	53 100*
		28.0	60.8	47.7	38 200*	44 900*			26.0	67.6	58.9	41 900*	48 300*
		30.0	58.3	46.5	34 300*	40 500*			28.0	65.6	58.0	37 300*	44 000*
		32.0	55.6	45.1	31 100*	36 500*			30.0	63.5	57.0	33 400*	39 600*
54.9	180	34.0	52.8	43.6	28 200*	32 900*			32.0	61.3	55.9	30 100*	35 800*
		36.0	50.0	42.0	25 700*	29 800*			34.0	59.2	54.8	27 200*	32 600*
		38.0	47.0	40.1	23 500*	27 100*			36.0	56.9	53.5	24 800*	29 700*
		40.0	43.8	38.1	21 600*	24 600*			38.0	54.6	52.1	22 600*	27 100*
		42.0	40.4	35.8	19 900*	22 300*			40.0	52.3	50.5	20 600*	24 600*
		44.0	36.8	33.2	18 300*	20 300*			42.0	49.8	48.9	18 900*	22 300*
		46.0	32.8	30.2	16 900*	18 400*			44.0	47.3	47.1	17 300*	20 300*
		48.0	28.4	26.7	15 600*	16 500*			46.0	44.6	45.1	15 900*	18 400*
		9.8	82.7	57.2	141 600*	141 600*			48.0	41.8	42.9	14 600*	16 700*
		10.0	82.5	57.2	141 000*	141 000*			50.0	38.9	40.4	13 400*	15 200*
		11.0	81.5	57.0	137 800*	137 800*			52.0	35.7	37.7	12 400*	13 700*
		12.0	80.4	56.8	123 800*	123 800*			54.0	32.3	34.7	11 400*	12 400*
		13.0	79.3	56.6	112 500*	112 500*			56.0	28.5	31.1	10 500*	11 100*
		14.0	78.3	56.4	103 100*	103 100*							
		15.0	77.2	56.2	95 200*	95 200*							
		16.0	76.1	55.9	88 200*	88 300*							
		18.0	74.0	55.4	74 900*	77 200*							
		20.0	71.8	54.7	63 400*	68 400*							
		22.0	69.5	54.0	54 800*	61 300*							
		24.0	67.3	53.1	48 000*	55 400*							
		26.0	65.0	52.2	42 500*	49 800*							
		28.0	62.6	51.2	37 900*	44 500*							
		30.0	60.2	50.1	34 000*	40 200*							
		32.0	57.8	48.8	30 800*	36 400*							
		34.0	55.2	47.4	27 900*	33 000*							
		36.0	52.6	45.9	25 400*	29 900*							
		38.0	49.9	44.3	23 200*	27 100*							
		40.0	47.1	42.4	21 300*	24 600*							
		42.0	44.1	40.4	19 500*	22 300*							
		44.0	41.0	38.2	18 000*	20 300*							
		46.0	37.6	35.6	16 500*	18 400*							
		48.0	33.9	32.8	15 300*	16 700*							
		50.0	29.9	29.4	14 100*	15 100*							

MANITOWOC ENGINEERING CO.

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



LIFT CRANE CAPACITIES

BOOM NO. 44A WITH HEAVY LIFT TOP
80 580 kg COUNTERWEIGHT
RATING OVER REAR OR 360 DEGREES
ON SPREAD OUTRIGGERS

MEETS
ANSI B30.5
REQUIREMENTS

M-250T

BOOM LGTH. METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	CAPACITY 360 DEGREES KILOGRAMS	CAPACITY REAR KILOGRAMS
64.0	21.0	11.0	82.7	66.3	116 900*	116 900*
		12.0	81.8	66.1	115 200*	115 200*
		13.0	80.9	65.9	108 500*	108 500*
		14.0	80.0	65.8	99 000*	99 000*
		15.0	79.1	65.6	91 200*	91 200*
		16.0	78.1	65.3	84 500*	84 500*
		18.0	76.3	64.9	73 500*	73 500*
		20.0	74.4	64.3	62 900*	65 000*
		22.0	72.6	63.7	54 300*	58 200*
		24.0	70.7	63.0	47 400*	52 500*
		26.0	68.8	62.2	41 900*	47 700*
		28.0	66.8	61.4	37 300*	43 600*
		30.0	64.8	60.4	33 400*	39 600*
		32.0	62.8	59.4	30 100*	35 800*
		34.0	60.8	58.3	27 300*	32 500*
		36.0	58.7	57.1	24 700*	29 700*
		38.0	56.6	55.8	22 500*	27 200*
		40.0	54.4	54.4	20 600*	24 900*
		42.0	52.1	52.8	18 900*	22 700*
		44.0	49.8	51.2	17 300*	20 600*
67.1	22.0	46.0	47.4	49.4	15 900*	18 700*
		48.0	44.8	47.4	14 600*	17 100*
		50.0	42.2	45.2	13 400*	15 500*
		52.0	39.4	42.8	12 400*	14 100*
		54.0	36.4	40.2	11 400*	12 800*
		56.0	33.2	37.2	10 500*	11 500*
		58.0	29.7	33.9	9 600*	10 300*
		11.6	82.5	69.2	112 000*	112 000*
		12.0	82.2	69.2	111 400*	111 400*
		13.0	81.3	69.0	107 100*	107 100*
		14.0	80.4	68.9	97 400*	97 400*
		15.0	79.6	68.7	89 700*	89 700*
		16.0	78.7	68.5	83 000*	83 000*
		18.0	76.9	68.0	72 200*	72 200*
		20.0	75.2	67.5	62 700*	63 800*
		22.0	73.4	66.9	53 900*	56 900*
		24.0	71.6	66.2	47 100*	51 400*
		26.0	69.8	65.5	41 600*	46 700*
		28.0	67.9	64.7	37 000*	42 600*
70.1	23.0	30.0	66.1	63.8	33 100*	39 100*
		32.0	64.2	62.8	29 800*	35 500*
		34.0	62.2	61.8	26 900*	32 200*
		36.0	60.3	60.7	24 400*	29 400*
		38.0	58.3	59.4	22 200*	26 900*
		40.0	56.2	58.1	20 200*	24 600*
		42.0	54.1	56.7	18 500*	22 500*
		44.0	52.0	55.1	17 000*	20 500*
		46.0	49.7	53.5	15 500*	18 600*
		48.0	47.4	51.7	14 300*	16 900*
		50.0	45.0	49.7	13 100*	15 400*
		52.0	42.5	47.5	12 000*	13 900*
		54.0	39.9	45.2	11 000*	12 600*
		56.0	37.1	42.6	10 100*	11 400*
		58.0	34.1	39.7	9 300*	10 200*
		60.0	30.9	36.5	8 500*	9 100*
		62.0	27.3	32.8	7 700*	8 100*
		11.6	82.8	72.3	102 400*	102 400*
		12.0	82.5	72.3	100 500*	100 500*
73.2	24.0	13.0	81.7	72.1	96 000*	96 000*
		14.0	80.9	71.9	91 800*	91 800*
		15.0	80.0	71.8	87 800*	87 800*
		16.0	79.2	71.6	82 800*	82 800*
		18.0	77.5	71.1	71 200*	71 200*
		20.0	75.8	70.6	62 400*	62 800*
		22.0	74.1	70.1	53 700*	56 000*
		24.0	72.4	69.4	46 800*	50 400*
		26.0	70.7	68.7	41 300*	45 800*
		28.0	68.9	68.0	36 700*	41 800*
		30.0	67.2	67.1	32 800*	38 300*
		32.0	65.4	66.2	29 500*	35 200*
		34.0	63.6	65.2	26 600*	31 900*
		36.0	61.7	64.2	24 100*	29 100*
		38.0	59.8	63.0	21 900*	26 600*
		40.0	57.9	61.8	20 000*	24 400*
		42.0	55.9	60.4	18 200*	22 400*
		11.6	82.5	72.3	102 400*	102 400*
		12.0	82.2	72.3	100 500*	100 500*

BOOM LGTH. METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	CAPACITY 360 DEGREES KILOGRAMS	CAPACITY REAR KILOGRAMS
70.1	23.0	44.0	53.9	59.0	16 700	20 400*
		46.0	51.8	57.4	15 200	18 500*
		48.0	49.7	55.8	13 900	16 800*
		50.0	47.5	54.0	12 800	15 300*
		52.0	45.2	52.0	11 700	13 800*
		54.0	42.8	49.9	10 700	12 500*
		56.0	40.3	47.6	9 800	11 300*
		58.0	37.7	45.0	8 900	10 200*
		60.0	34.9	42.2	8 200	9 100*
		62.0	31.8	39.1	7 500	8 000*
73.2	24.0	64.0	28.5	35.6	6 800	7 100*
		12.2	82.7	75.3	95 400*	95 400*
		13.0	82.0	75.2	92 000*	92 000*
		14.0	81.2	75.0	88 000*	88 000*
		15.0	80.4	74.9	84 200*	84 200*
		16.0	79.6	74.7	80 200*	80 200*
		18.0	78.0	74.3	70 400*	70 400*
		20.0	76.4	73.8	61 800*	61 800*
		22.0	74.8	73.2	53 400	55 100*
		24.0	73.2	72.6	46 500	49 500*
		26.0	71.5	72.0	40 900	44 900*
		28.0	69.9	71.3	36 300	40 900*
		30.0	68.2	70.5	32 500	37 500*
		32.0	66.5	69.6	29 100	34 500*
		34.0	64.7	68.7	26 300	31 600*
		36.0	63.0	67.6	23 700	28 700*
		38.0	61.2	66.6	21 600	26 200*
		40.0	59.4	65.4	19 600	24 000*
		42.0	57.5	64.1	17 900	22 000*
76.2	25.0	44.0	55.6	62.8	16 300	20 200*
		46.0	53.7	61.3	14 900	18 400*
		48.0	51.7	59.7	13 600	16 700*
		50.0	49.7	58.1	12 400	15 100*
		52.0	47.6	56.3	11 300	13 700*
		54.0	45.4	54.3	10 300	12 400*
		56.0	43.1	52.2	9 500	11 100*
		58.0	40.7	49.9	8 600	10 000*
		60.0	38.2	47.4	7 800	8 900*
		62.0	35.6	44.7	7 100	7 900*
		64.0	32.7	41.7	6 400	6 900*
		66.0	29.6	38.3	5 800	6 000*
		68.0	26.2	34.4	5 100*	5 200*
		12.2	83.0	78.4	91 600*	91 600*
		13.0	82.4	78.3	88 400*	88 400*
		14.0	81.6	78.1	84 600*	84 600*
		15.0	80.8	78.0	81 000*	81 000*
		16.0	80.1	77.8	77 500*	77 500*
		18.0	78.5	77.4	69 500*	69 500*
		20.0	77.0	76.9	61 000*	61 000*
		22.0	75.4	76.4	53 500	54 300*
		24.0	73.9	75.8	46 500	48 800*
		26.0	72.3	75.2	40 900	44 300*
		28.0	70.7	74.5	36 300	40 300*
		30.0	69.1	73.7	32 400	36 900*
		32.0	67.5	72.9	29 000	33 900*
		34.0	65.8	72.0	26 200	31 300*
		36.0	64.2	71.1	23 700	28 700*
		38.0	62.5	70.0	21 500	26 100*
		40.0	60.7	68.9	19 500	23 900*
		42.0	59.0	67.7	17 800	21 900*
		44.0	57.2	66.5	16 200	20 200*
		46.0	55.4	65.1	14 800	18 500*
		48.0	53.5	63.6	13 500	16 800*
		50.0	51.6	62.1	12 300	15 200*
		52.0	49.6	60.4	11 200	13 800*
		54.0	47.6	58.6	10 300	12 500*
		56.0	45.5	56.6	9 400	11 200*
		58.0	43.4	54.5	8 500	10 100*
		60.0	41.1	52.3	7 700	9 000*
		62.0	38.7	49.8	7 000	8 000*
		64.0	36.2	47.2	6 300	7 100*
		66.0	33.5	44.2	5 700	6 200*
		68.0	30.6	40.9	5 100	5 400*
		70.0	27.5	37.2	4 500	4 500*

MANITOWOC ENGINEERING CO.

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LIFTCRANE CAPACITIES

BOOM NO. 44A WITH HEAVY LIFT TOP
80 560 kg COUNTERWEIGHT
RATING OVER REAR OR 360 DEGREES
ON SPREAD OUTRIGGERS

MEETS
ANSI B30.5
REQUIREMENTS

M-250T

BOOM LGTH. METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	CAPACITY 360 DEGREES KILOGRAMS	CAPACITY REAR KILOGRAMS
7 9 2	2 6 0	12.8	82.8	81.4	85 200*	85 200*
		13.0	82.7	81.4	84 500*	84 500*
		14.0	81.9	81.2	80 900*	80 900*
		15.0	81.2	81.1	77 500*	77 500*
		16.0	80.5	80.9	74 200*	74 200*
		18.0	79.0	80.5	67 800*	67 800*
		20.0	77.5	80.1	59 900*	59 900*
		22.0	76.0	79.6	53 000*	53 300*
		24.0	74.5	79.0	46 200*	47 800*
		26.0	73.0	78.4	40 600*	43 300*
		28.0	71.5	77.7	36 000*	39 400*
		30.0	69.9	77.0	32 000*	36 000*
		32.0	68.4	76.2	28 700*	33 100*
		34.0	66.8	75.4	25 800*	30 500*
		36.0	65.2	74.5	23 300*	28 100*
		38.0	63.6	73.5	21 100*	25 800*
		40.0	62.0	72.4	19 100*	23 600*
		42.0	60.3	71.3	17 400*	21 600*
		44.0	58.6	70.1	15 800*	19 800*
		46.0	56.9	68.8	14 500*	18 200*
		48.0	55.1	67.4	13 100*	16 600*
		50.0	53.3	65.9	12 000*	15 000*
		52.0	51.5	64.4	10 900*	13 600*
		54.0	49.6	62.7	9 900*	12 200*
		56.0	47.7	60.9	9 000*	11 000*
		58.0	45.7	58.9	8 200*	9 900*
		60.0	43.6	56.9	7 400*	8 800*
		62.0	41.4	54.6	6 700*	7 800*
		64.0	39.1	52.2	6 000*	6 800*
		66.0	36.8	49.6	5 300*	6 000*
		68.0	34.2	46.7	4 700*	5 200*
		70.0	31.5	43.6	4 200*	4 300*
		72.0	28.6	40.0	3 600*	3 600*
8 5 3	2 8 0	13.4	82.6	84.4	74 300*	74 300*
		14.0	82.2	84.3	72 700*	72 700*
		15.0	81.5	84.1	69 900*	69 900*
		16.0	80.8	84.0	67 200*	67 200*
		18.0	79.4	83.6	62 200*	62 200*
		20.0	78.0	83.2	57 500*	57 500*
		22.0	76.5	82.7	52 800*	53 000*
		24.0	75.1	82.2	46 600*	47 900*
		26.0	73.7	81.6	40 900*	43 300*
		28.0	72.2	81.0	36 200*	39 400*
		30.0	70.7	80.3	32 300*	36 000*
		32.0	69.2	79.5	29 000*	33 100*
		34.0	67.7	78.7	26 100*	30 500*
		36.0	66.2	77.8	23 600*	28 200*
		38.0	64.7	76.9	21 400*	26 100*
		40.0	63.1	75.9	19 500*	23 900*
		42.0	61.5	74.8	17 700*	21 900*
		44.0	59.9	73.6	16 200*	20 100*
		46.0	58.3	72.4	14 700*	18 500*
		48.0	56.6	71.1	13 400*	17 000*
		50.0	54.9	69.7	12 300*	15 600*
		52.0	53.2	68.2	11 200*	14 100*
		54.0	51.4	66.7	10 200*	12 800*
		56.0	49.6	65.0	9 300*	11 600*
		58.0	47.7	63.2	8 400*	10 400*
		60.0	45.8	61.2	7 700*	9 400*
		62.0	43.8	59.2	6 900*	8 300*
		64.0	41.7	57.0	6 300*	7 400*
		66.0	39.6	54.6	5 600*	6 500*
		68.0	37.3	52.0	5 000*	5 700*
		70.0	34.9	49.2	4 500*	4 900*
		72.0	32.3	46.1	3 900*	4 200*
		74.0	29.6	42.7	3 300*	3 400*
		76.0	26.5	38.9	2 300*	2 300*
8 8 4	2 9 0	14.0	82.8	90.5	64 600*	64 600*
		15.0	82.1	90.3	64 300*	64 300*
		16.0	81.5	90.2	64 000*	64 000*
		18.0	80.1	89.8	62 600*	62 600*
		20.0	78.8	89.4	59 300*	59 300*
		22.0	77.5	89.0	52 400*	52 400*
		24.0	76.2	88.5	46 500*	46 900*
		26.0	74.8	87.9	40 900*	42 400*
		28.0	73.5	87.4	36 200*	38 500*
		30.0	72.1	86.7	32 300*	35 200*
		32.0	70.7	86.0	29 000*	32 300*
		34.0	69.3	85.3	26 100*	29 800*
		36.0	67.9	84.5	23 600*	27 500*
		38.0	66.5	83.6	21 400*	25 400*
		40.0	65.1	82.7	19 400*	23 600*
		42.0	63.7	81.7	17 600*	21 900*
		44.0	62.2	80.6	16 100*	19 900*
		46.0	60.7	79.5	14 700*	18 100*
		48.0	59.2	78.4	13 400*	16 300*
		50.0	57.7	77.1	12 200*	14 800*
		52.0	56.1	75.8	11 100*	13 300*
		54.0	54.5	74.3	10 100*	12 000*
		56.0	52.9	72.8	9 200*	10 800*
		58.0	51.3	71.3	8 400*	9 700*
		60.0	49.6	69.6	7 600*	8 600*
		62.0	47.8	67.8	6 800*	7 600*
		64.0	46.0	65.9	6 200*	6 700*
		66.0	44.2	63.8	5 500*	5 900*
		68.0	42.3	61.7	4 900*	5 000*
		70.0	40.3	59.3	4 300*	4 300*
		72.0	38.2	56.8	3 600*	3 600*
		74.0	36.0	54.1	2 900*	2 900*
		76.0	33.7	51.2	2 200*	2 200*

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MEETS
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REQUIREMENTS

M-250T

BOOM LGTH. METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	CAPACITY 360 DEGREES KILOGRAMS	CAPACITY REAR KILOGRAMS
9 1 · 4	3 0 0	14.0	83.0	93.5	60 500*	60 500*
		15.0	82.4	93.4	60 300*	60 300*
		16.0	81.7	93.2	59 500*	59 500*
		18.0	80.5	92.9	56 700*	56 700*
		20.0	79.2	92.5	54 100*	54 100*
		22.0	77.9	92.1	51 300*	51 300*
		24.0	76.6	91.6	46 100	46 100*
		26.0	75.3	91.1	40 600	41 500*
		28.0	74.0	90.5	35 900	37 700*
		30.0	72.7	89.9	32 000	34 400*
		32.0	71.4	89.3	28 700	31 500*
		34.0	70.1	88.5	25 800	29 000*
		36.0	68.7	87.8	23 200	26 700*
		38.0	67.4	86.9	21 100	24 700*
		40.0	66.0	86.0	19 100	22 900*
		42.0	64.6	85.1	17 300	21 200*
		44.0	63.2	84.1	15 700	19 700
		46.0	61.8	83.0	14 300	18 100
		48.0	60.3	81.9	13 000	16 400*
		50.0	58.9	80.7	11 900	14 800*
		52.0	57.4	79.4	10 800	13 400*
		54.0	55.9	78.1	9 800	12 000*
		56.0	54.3	76.7	8 900	10 800*
		58.0	52.8	75.2	8 000	9 700*
		60.0	51.2	73.6	7 200	8 700*
		62.0	49.5	71.9	6 500	7 700*
		64.0	47.9	70.1	5 800	6 800*
		66.0	46.1	68.2	5 200	5 900*
		68.0	44.3	66.2	4 600	5 100*
		70.0	42.5	64.0	4 000	4 300*
		72.0	40.6	61.7	3 500	3 600*
		74.0	38.6	59.2	3 000*	2 900*
		76.0	36.5	56.6	2 300*	2 300*