

MANITOWOC ENGINEERING CO.

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



LIFTCRANE CAPACITIES

BOOM NO. 44 WITH HEAVY LIFT TOP

75 750 kg COUNTERWEIGHT

RATING OVER FRONT OF BLOCKED CRAWLERS

NO TRAVEL - LIMITED SWING

MEETS
ANSI B30.5
REQUIREMENTS

M-250

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

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

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

WEIGHT OF JIB, ALL LOAD BLOCKS, HOOKS, WEIGHT BALL, SLINGS, HOIST LINES, ETC., BENEATH BOOM AND JIB POINT SHEAVES, IS CONSIDERED PART OF THE MAIN BOOM LOAD. BOOM IS NOT TO BE LOWERED BEYOND RADII WHERE COMBINED WEIGHTS ARE GREATER THAN RATED CAPACITY. WHERE NO CAPACITY IS SHOWN, OPERATION IS NOT INTENDED OR APPROVED.

MACHINE TO OPERATE IN A LEVEL POSITION ON A FIRM UNIFORMLY SUPPORTING SURFACE WITH GANTRY UP AND FRONT TUMBLER PROPERLY BLOCKED SO THAT THE CENTERLINE OF THE IDLER TUMBLER BECOMES THE TIPPING FULCRUM. DRIVE MOTORS MUST BE TO THE REAR OF THE MACHINE. SWING IS LIMITED TO THAT SECTOR SHOWN ON OPERATING RANGE DIAGRAM NO. 7582-A. REFER TO BOOM RIGGING NO. 172610 AND WIRE ROPE SPECIFICATION CHART NO. 7581-A. CRANE OPERATOR JUDGMENT MUST BE USED TO ALLOW FOR DYNAMIC LOAD EFFECTS OF SWINGING, HOISTING OR LOWERING, 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 9 373 mm CRAWLERS, 1 219 mm TREADS, 8 534 mm RETRACTABLE GANTRY, 12 PART BOOM HOIST REEVING, FOUR 38 mm BOOM PENDANTS, AND 75 750 kg COUNTERWEIGHT.

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

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED OVER FRONT OF BLOCKED CRAWLERS		DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED	
BOOM LGTH.	JIB NO. 132	JIB LGTH.	JIB NO. 132
91.4m	---	12.2m	2 900 kg
88.4m	---	18.3m	3 720 kg
85.3m	---	24.4m	4 670 kg
82.3m	---	30.5m	5 810 kg
79.2m	18.3m	36.6m	6 940 kg
76.2m	24.4m		
73.2m	30.5m		
70.1m	36.6m		
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 ANG. DEG.	BOOM POINT ELEV. METERS	CAPACITY KILOGRAMS
21.3	70	5.5	82.9	23.5	250 000*
		6.0	81.5	23.4	247 700*
		6.5	80.2	23.3	235 900*
		7.0	78.8	23.2	219 700*
		7.5	77.4	23.1	205 800*
		8.0	76.0	22.9	193 500*
		8.5	74.6	22.8	182 500*
		9.0	73.2	22.6	172 700*

BOOM LGTH. METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	CAPACITY KILOGRAMS
21.3	70	10.0	70.3	22.2	155 800*
		11.0	67.4	21.8	136 700
		12.0	64.4	21.3	118 400
		13.0	61.3	20.7	104 200
		14.0	58.1	20.1	92 900
		15.0	54.8	19.4	83 700
		16.0	51.4	18.5	76 000
		18.0	43.8	16.6	64 100
		20.0	34.8	13.9	55 100

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BOOM LGTH. METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	CAPACITY KILOGRAMS	BOOM LGTH. METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	CAPACITY KILOGRAMS
2 4 · 4	8 0	6.1	82.4	26.5	238 700*	3 3 · 5	1 1 0	7.0	82.9	35.6	169 800*
		6.5	81.4	26.4	235 300*			7.5	82.0	35.5	167 900*
		7.0	80.2	26.3	219 300*			8.0	81.2	35.4	166 200*
		7.5	79.0	26.2	205 400*			8.5	80.3	35.3	164 500*
		8.0	77.8	26.1	193 100*			9.0	79.4	35.2	162 900*
		8.5	76.6	26.0	182 100*			10.0	77.7	35.0	155 300*
		9.0	75.4	25.8	172 300*			11.0	75.9	34.7	136 600
		10.0	72.9	25.5	155 400*			12.0	74.1	34.4	118 100
		11.0	70.4	25.1	136 700			13.0	72.3	34.1	103 900
		12.0	67.8	24.7	118 300			14.0	70.5	33.8	92 500
		13.0	65.2	24.2	104 100			15.0	68.7	33.3	83 300
		14.0	62.6	23.7	92 800			16.0	66.8	32.9	75 600
		15.0	59.8	23.1	83 600			18.0	63.0	31.9	63 600
		16.0	57.0	22.4	75 900			20.0	59.0	30.7	54 600
		18.0	51.1	20.8	63 900			22.0	54.9	29.3	47 600
		20.0	44.5	18.9	55 000			24.0	50.5	27.7	42 000
		22.0	37.0	16.4	48 000			26.0	45.8	25.8	37 500
		24.0	27.6	13.0	42 400			28.0	40.6	23.6	33 700
2 7 · 4	9 0	6.4	82.6	29.5	226 100*	3 6 · 6	1 2 0	7.3	83.0	38.6	164 900*
		6.5	82.4	29.5	225 700*			7.5	82.7	38.6	164 300*
		7.0	81.3	29.4	219 000*			8.0	81.9	38.5	162 600*
		7.5	80.3	29.3	205 100*			8.5	81.1	38.4	161 000*
		8.0	79.2	29.2	192 800*			9.0	80.3	38.3	159 500*
		8.5	78.1	29.1	181 900*			10.0	78.7	38.1	154 800*
		9.0	77.0	29.0	172 100*			11.0	77.1	37.9	136 500
		10.0	74.9	28.7	155 200*			12.0	75.5	37.6	117 900
		11.0	72.7	28.4	136 700			13.0	73.9	37.3	103 700
		12.0	70.4	28.0	118 300			14.0	72.2	37.0	92 300
		13.0	68.2	27.6	104 100			15.0	70.5	36.6	83 100
		14.0	65.9	27.1	92 800			16.0	68.9	36.2	75 300
		15.0	63.5	26.6	83 600			18.0	65.4	35.3	63 300
		16.0	61.1	26.0	75 900			20.0	61.9	34.3	54 300
		18.0	56.1	24.7	63 900			22.0	58.2	33.1	47 300
		20.0	50.8	23.1	54 900			24.0	54.4	31.7	41 800
		22.0	45.0	21.2	48 000			26.0	50.4	30.0	37 200
		24.0	38.5	18.8	42 400			28.0	46.1	28.2	33 400
3 0 · 5	1 0 0	6.7	82.8	32.6	217 400*	3 9 · 6	1 3 0	30.0	41.4	26.0	30 200
		7.0	82.2	32.5	216 000*			32.0	36.3	23.4	27 500
		7.5	81.2	32.4	204 900*			34.0	30.3	20.1	25 100
		8.0	80.3	32.3	192 400*			7.9	82.7	41.6	159 000*
		8.5	79.3	32.2	181 500*			8.0	82.6	41.6	158 800*
		9.0	78.4	32.1	171 600*			8.5	81.8	41.5	157 300*
		10.0	76.4	31.9	154 800*			9.0	81.1	41.4	155 900*
		11.0	74.5	31.6	136 600			10.0	79.6	41.3	152 200*
		12.0	72.5	31.2	118 200			11.0	78.1	41.0	136 500
		13.0	70.5	30.9	104 000			12.0	76.6	40.8	117 900
		14.0	68.5	30.5	92 600			13.0	75.1	40.5	103 700
		15.0	66.4	30.0	83 400			14.0	73.6	40.2	92 300
		16.0	64.3	29.5	75 700			15.0	72.1	39.9	83 100
		18.0	60.0	28.4	63 700			16.0	70.6	39.5	75 300
		20.0	55.4	27.0	54 700			18.0	67.4	38.7	63 300
		22.0	50.6	25.4	47 700			20.0	64.2	37.7	54 300
		24.0	45.4	23.5	42 200			22.0	60.9	36.6	47 300
		26.0	39.7	21.2	37 600			24.0	57.5	35.4	41 700
		28.0	33.1	18.3	33 900			26.0	54.0	34.0	37 200
								28.0	50.3	32.3	33 400
								30.0	46.3	30.5	30 200
								32.0	42.0	28.3	27 400
								34.0	37.4	25.8	25 000
								36.0	32.2	22.8	23 000
								38.0	25.9	19.0	21 100

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BOOM LGTH. METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	CAPACITY KILOGRAMS	BOOM LGTH. METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	CAPACITY KILOGRAMS	
42.7	140	8.2	82.8	44.7	155 000*	51.8	170	9.1	83.1	53.8	128 800*	
		8.5	82.4	44.6	154 300*			10.0	82.1	53.6	126 900*	
		9.0	81.7	44.5	152 900*			11.0	81.0	53.5	124 900*	
		10.0	80.4	44.4	150 100*			12.0	79.8	53.3	118 300	
		11.0	79.0	44.2	136 300			13.0	78.7	53.1	103 100	
		12.0	77.6	43.9	117 800			14.0	77.6	52.9	91 700	
		13.0	76.2	43.7	103 500			15.0	76.4	52.6	82 400	
		14.0	74.8	43.4	92 100			16.0	75.3	52.3	74 600	
		15.0	73.4	43.1	82 800			18.0	73.0	51.7	62 600	
		16.0	72.0	42.8	75 100			20.0	70.6	51.0	53 500	
		18.0	69.1	42.0	63 100			22.0	68.3	50.2	46 500	
		20.0	66.2	41.1	54 100			24.0	65.8	49.4	40 900	
		22.0	63.2	40.1	47 100			26.0	63.4	48.4	36 400	
		24.0	60.1	39.0	41 500			28.0	60.8	47.3	32 500	
		26.0	56.9	37.7	36 900			30.0	58.3	46.0	29 300	
		28.0	53.6	36.3	33 100			32.0	55.6	44.7	26 600	
		30.0	50.2	34.6	29 900			34.0	52.8	43.2	24 200	
		32.0	46.5	32.8	27 200			36.0	50.0	41.5	22 100	
		34.0	42.6	30.7	24 800			38.0	47.0	39.7	20 300	
		36.0	38.3	28.2	22 700			40.0	43.8	37.7	18 600	
38.0	33.6	25.3	20 900	42.0	40.4	35.4	17 200					
45.7	150	8.5	82.9	47.7	137 100*	54.9	180	9.8	82.7	56.8	124 500*	
		9.0	82.3	47.6	135 800*			10.0	82.5	56.7	124 000*	
		10.0	81.0	47.5	133 100*			11.0	81.5	56.6	122 200*	
		11.0	79.7	47.3	130 600*			12.0	80.4	56.4	117 100	
		12.0	78.5	47.1	118 300*			13.0	79.3	56.2	102 900	
		13.0	77.2	46.8	103 300			14.0	78.3	56.0	91 500	
		14.0	75.9	46.6	92 000			15.0	77.2	55.7	82 200	
		15.0	74.6	46.3	82 700			16.0	76.1	55.5	74 400	
		16.0	73.3	46.0	74 900			18.0	74.0	54.9	62 300	
		18.0	70.6	45.3	62 800			20.0	71.8	54.3	53 300	
		20.0	67.9	44.5	53 900			22.0	69.5	53.5	46 200	
		22.0	65.2	43.6	46 800			24.0	67.3	52.7	40 600	
		24.0	62.3	42.5	41 300			26.0	65.0	51.8	36 100	
		26.0	59.4	41.4	36 700			28.0	62.6	50.7	32 300	
		28.0	56.4	40.0	32 900			30.0	60.2	49.6	29 000	
		30.0	53.3	38.6	29 700			32.0	57.8	48.4	26 300	
		32.0	50.1	36.9	26 900			34.0	55.2	47.0	23 900	
		34.0	46.7	35.1	24 500			36.0	52.6	45.5	21 800	
		36.0	43.0	33.0	22 400			38.0	49.9	43.8	20 000	
		38.0	39.1	30.6	20 600			40.0	47.1	42.0	18 300	
40.0	34.9	27.8	19 000	42.0	44.1	40.0	16 900					
42.0	30.1	24.6	17 500	44.0	41.0	37.7	15 500					
48.8	160	8.8	83.0	50.7	132 400*	50.0	29.9	46.0	37.6	35.2	14 300	
		9.0	82.8	50.7	132 000*			48.0	33.9	32.3	13 300	
		10.0	81.6	50.6	129 600*			50.0	29.9	29.0	12 300	
		11.0	80.4	50.4	127 400*							
		12.0	79.2	50.2	118 400*							
		13.0	78.0	50.0	103 100							
		14.0	76.8	49.7	91 700							
		15.0	75.6	49.4	82 400							
		16.0	74.3	49.2	74 700							
		18.0	71.9	48.5	62 600							
		20.0	69.4	47.8	53 600							
		22.0	66.8	46.9	46 600							
		24.0	64.2	46.0	41 000							
		26.0	61.5	44.9	36 400							
		28.0	58.8	43.7	32 600							
		30.0	56.0	42.4	29 400							
		32.0	53.1	40.9	26 600							
		34.0	50.0	39.2	24 200							
		36.0	46.8	37.4	22 200							
		38.0	43.4	35.3	20 300							
40.0	39.8	33.0	18 700									
42.0	35.9	30.3	17 200									
44.0	31.6	27.2	15 900									

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BOOM LGTH. METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	CAPACITY KILOGRAMS	BOOM LGTH. METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	CAPACITY KILOGRAMS
57.9	190	10.4	82.5	59.7	109 400*	64.0	210	11.0	82.7	65.8	102 100*
		11.0	81.9	59.7	108 200*			12.0	81.8	65.7	100 800*
		12.0	80.9	59.5	106 500*			13.0	80.9	65.5	98 800*
		13.0	79.9	59.3	103 500*			14.0	80.0	65.3	91 000
		14.0	78.9	59.1	91 300			15.0	79.1	65.1	81 600
		15.0	77.9	58.9	82 000			16.0	78.1	64.9	73 800
		16.0	76.9	58.6	74 200			18.0	76.3	64.4	61 700
		18.0	74.8	58.1	62 100			20.0	74.4	63.9	52 700
		20.0	72.8	57.5	53 000			22.0	72.6	63.2	45 600
		22.0	70.7	56.8	46 000			24.0	70.7	62.5	40 000
		24.0	68.5	56.0	40 400			26.0	68.8	61.8	35 500
		26.0	66.4	55.1	35 800			28.0	66.8	60.9	31 600
		28.0	64.2	54.2	32 000			30.0	64.8	60.0	28 400
		30.0	61.9	53.1	28 800			32.0	62.8	59.0	25 600
		32.0	59.7	52.0	26 000			34.0	60.8	57.9	23 200
		34.0	57.3	50.7	23 600			36.0	58.7	56.7	21 100
		36.0	54.9	49.3	21 500			38.0	56.6	55.4	19 300
		38.0	52.4	47.8	19 700			40.0	54.4	53.9	17 700
		40.0	49.9	46.1	18 100			42.0	52.1	52.4	16 200
		42.0	47.2	44.3	16 600			44.0	49.8	50.7	14 900
61.0	200	44.0	44.4	42.3	15 300	67.1	220	46.0	47.4	48.9	13 700
		46.0	41.4	40.1	14 100			48.0	44.8	46.9	12 600
		48.0	38.3	37.6	13 000			50.0	42.2	44.8	11 600
		50.0	34.9	34.8	12 000			52.0	39.4	42.4	10 700
		52.0	31.2	31.6	11 100			54.0	36.4	39.7	9 800
		10.4	82.9	62.8	105 800*			56.0	33.2	36.8	9 100
		11.0	82.3	62.7	104 800*			58.0	29.7	33.4	8 400
		12.0	81.4	62.6	103 200*			11.6	82.5	68.8	98 500*
		13.0	80.4	62.4	101 000*			12.0	82.2	68.7	97 700*
		14.0	79.5	62.2	91 200			13.0	81.3	68.6	94 400*
		15.0	78.5	62.0	81 800			14.0	80.4	68.4	90 700
		16.0	77.5	61.8	74 000			15.0	79.6	68.2	81 400
		18.0	75.6	61.3	61 800			16.0	78.7	68.0	73 700
		20.0	73.6	60.7	52 800			18.0	76.9	67.6	61 500
		22.0	71.7	60.0	45 700			20.0	75.2	67.0	52 400
		24.0	69.7	59.3	40 100			22.0	73.4	66.4	45 400
		26.0	67.6	58.5	35 500			24.0	71.6	65.8	39 800
		28.0	65.6	57.6	31 700			26.0	69.8	65.1	35 200
		30.0	63.5	56.6	28 500			28.0	67.9	64.2	31 300
		32.0	61.3	55.5	25 700			30.0	66.1	63.4	28 100
		34.0	59.2	54.3	23 400			32.0	64.2	62.4	25 400
		36.0	56.9	53.0	21 200			34.0	62.2	61.4	23 000
		38.0	54.6	51.6	19 400			36.0	60.3	60.2	20 800
		40.0	52.3	50.1	17 800			38.0	58.3	59.0	19 000
		42.0	49.8	48.4	16 300			40.0	56.2	57.7	17 300
		44.0	47.3	46.6	15 000			42.0	54.1	56.3	15 900
		46.0	44.6	44.6	13 800			44.0	52.0	54.7	14 500
		48.0	41.8	42.4	12 700			46.0	49.7	53.0	13 400
		50.0	38.9	40.0	11 700			48.0	47.4	51.2	12 300
		52.0	35.7	37.3	10 800			50.0	45.0	49.3	11 300
		54.0	32.3	34.2	9 900			52.0	42.5	47.1	10 400
		56.0	28.5	30.7	9 200			54.0	39.9	44.8	9 500
								56.0	37.1	42.2	8 800
								58.0	34.1	39.3	8 000
								60.0	30.9	36.1	7 400
								62.0	27.3	32.4	6 800

MANITOWOC ENGINEERING CO.

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



M-250

LIFT CRANE CAPACITIES

BOOM NO. 44 WITH HEAVY LIFT TOP

75 750 kg COUNTERWEIGHT

RATING OVER FRONT OF BLOCKED CRAWLERS

NO TRAVEL - LIMITED SWING

MEETS
ANSI B30.5
REQUIREMENTS

BOOM LGTH. METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	CAPACITY KILOGRAMS	BOOM LGTH. METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	CAPACITY KILOGRAMS
70.1	230	11.6	82.8	71.9	87 600*	76.2	250	12.2	83.0	78.0	81 200*
		12.0	82.5	71.8	87 100*			13.0	82.4	77.8	80 300*
		13.0	81.7	71.7	85 900*			14.0	81.6	77.7	77 800*
		14.0	80.9	71.5	84 800*			15.0	80.8	77.5	75 300*
		15.0	80.0	71.3	81 200			16.0	80.1	77.3	72 100*
		16.0	79.2	71.1	73 900			18.0	78.5	76.9	61 700
		18.0	77.5	70.7	61 300			20.0	77.0	76.5	52 300
		20.0	75.8	70.2	52 200			22.0	75.4	76.0	45 200
		22.0	74.1	69.6	45 100			24.0	73.9	75.4	39 600
		24.0	72.4	69.0	39 500			26.0	72.3	74.8	35 000
		26.0	70.7	68.3	34 900			28.0	70.7	74.1	31 200
		28.0	68.9	67.5	31 100			30.0	69.1	73.3	27 900
		30.0	67.2	66.7	27 900			32.0	67.5	72.5	25 200
		32.0	65.4	65.8	25 100			34.0	65.8	71.6	22 800
		34.0	63.6	64.8	22 700			36.0	64.2	70.6	20 700
		36.0	61.7	63.7	20 600			38.0	62.5	69.6	18 800
		38.0	59.8	62.6	18 700			40.0	60.7	68.5	17 200
		40.0	57.9	61.3	17 100			42.0	59.0	67.3	15 700
		42.0	55.9	60.0	15 600			44.0	57.2	66.0	14 400
		44.0	53.9	58.6	14 300			46.0	55.4	64.6	13 200
		46.0	51.8	57.0	13 100			48.0	53.5	63.2	12 100
		48.0	49.7	55.3	12 000			50.0	51.6	61.6	11 100
		50.0	47.5	53.5	11 000			52.0	49.6	59.9	10 200
		52.0	45.2	51.6	10 100			54.0	47.6	58.1	9 400
		54.0	42.8	49.4	9 300			56.0	45.5	56.2	8 600
73.2	240	56.0	40.3	47.1	8 500	79.2	260	58.0	43.4	54.1	7 900
		58.0	37.7	44.6	7 800			60.0	41.1	51.8	7 200
		60.0	34.9	41.8	7 100			62.0	38.7	49.4	6 600
		62.0	31.8	38.7	6 500			64.0	36.2	46.7	6 000
		64.0	28.5	35.1	5 900			66.0	33.5	43.8	5 400
		12.2	82.7	74.9	84 200*			68.0	30.6	40.5	4 900
		13.0	82.0	74.8	83 300*			70.0	27.5	36.8	4 500
		14.0	81.2	74.6	80 900*			12.8	82.8	81.0	76 800*
		15.0	80.4	74.4	78 300*			13.0	82.7	80.9	76 300*
		16.0	79.6	74.2	73 900*			14.0	81.9	80.8	73 800*
		18.0	78.0	73.8	61 100			15.0	81.2	80.6	71 500*
		20.0	76.4	73.3	51 900			16.0	80.5	80.4	69 100*
		22.0	74.8	72.8	44 900			18.0	79.0	80.1	61 400
		24.0	73.2	72.2	39 200			20.0	77.5	79.6	52 000
		26.0	71.5	71.5	34 600			22.0	76.0	79.1	45 000
		28.0	69.9	70.8	30 800			24.0	74.5	78.6	39 300
		30.0	68.2	70.0	27 600			26.0	73.0	78.0	34 700
		32.0	66.5	69.2	24 800			28.0	71.5	77.3	30 900
		34.0	64.7	68.2	22 400			30.0	69.9	76.6	27 700
		36.0	63.0	67.2	20 300			32.0	68.4	75.8	24 900
		38.0	61.2	66.1	18 500			34.0	66.8	74.9	22 500
		40.0	59.4	64.9	16 800			36.0	65.2	74.0	20 400
		42.0	57.5	63.7	15 300			38.0	63.6	73.0	18 500
		44.0	55.6	62.3	14 000			40.0	62.0	72.0	16 900
		46.0	53.7	60.9	12 800			42.0	60.3	70.8	15 400
		48.0	51.7	59.3	11 700			44.0	58.6	69.6	14 100
		50.0	49.7	57.6	10 700			46.0	56.9	68.3	12 900
		52.0	47.6	55.8	9 800			48.0	55.1	67.0	11 800
		54.0	45.4	53.9	8 900			50.0	53.3	65.5	10 800
		56.0	43.1	51.8	8 200			52.0	51.5	63.9	9 900
		58.0	40.7	49.5	7 400			54.0	49.6	62.2	9 000
		60.0	38.2	47.0	6 800			56.0	47.7	60.4	8 300
		62.0	35.6	44.3	6 200			58.0	45.7	58.5	7 500
		64.0	32.7	41.2	5 600			60.0	43.6	56.4	6 900
		66.0	29.6	37.8	5 000			62.0	41.4	54.2	6 300
		68.0	26.2	34.0	4 500			64.0	39.1	51.8	5 700
								66.0	36.8	49.2	5 100
								68.0	34.2	46.3	4 600
								70.0	31.5	43.1	4 100
								72.0	28.6	39.6	3 700

MANITOWOC ENGINEERING CO.

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



LIFTCRANE CAPACITIES

BOOM NO. 44 WITH HEAVY LIFT TOP

75 750 kg COUNTERWEIGHT

RATING OVER FRONT OF BLOCKED CRAWLERS

NO TRAVEL - LIMITED SWING

MEETS
ANSI B30.5
REQUIREMENTS

M-250

BOOM LGTH. METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	CAPACITY KILOGRAMS	BOOM LGTH. METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	CAPACITY KILOGRAMS
8 2 3	2 7 0	13.4	82.6	83.9	69 800*	8 8 4	2 9 0	14.0	82.8	90.0	59 800*
		14.0	82.2	83.9	68 800*			15.0	82.1	89.9	59 400*
		15.0	81.5	83.7	66 700*			16.0	81.5	89.7	59 000*
		16.0	80.8	83.5	64 600*			18.0	80.1	89.4	58 000*
		18.0	79.4	83.2	60 200			20.0	78.8	89.0	51 700
		20.0	78.0	82.7	51 800			22.0	77.5	88.5	44 500
		22.0	76.5	82.3	44 700			24.0	76.2	88.0	38 900
		24.0	75.1	81.7	39 100			26.0	74.8	87.5	34 200
		26.0	73.7	81.2	34 500			28.0	73.5	86.9	30 400
		28.0	72.2	80.5	30 600			30.0	72.1	86.3	27 200
		30.0	70.7	79.8	27 400			32.0	70.7	85.6	24 400
		32.0	69.2	79.1	24 600			34.0	69.3	84.8	22 000
		34.0	67.7	78.3	22 200			36.0	67.9	84.0	19 800
		36.0	66.2	77.4	20 100			38.0	66.5	83.2	18 000
		38.0	64.7	76.4	18 200			40.0	65.1	82.2	16 300
		40.0	63.1	75.4	16 600			42.0	63.7	81.3	14 900
		42.0	61.5	74.4	15 100			44.0	62.2	80.2	13 500
		44.0	59.9	73.2	13 800			46.0	60.7	79.1	12 300
		46.0	58.3	72.0	12 600			48.0	59.2	77.9	11 200
		48.0	56.6	70.7	11 500			50.0	57.7	76.7	10 200
		50.0	54.9	69.3	10 500			52.0	56.1	75.3	9 300
		52.0	53.2	67.8	9 600			54.0	54.5	73.9	8 500
		54.0	51.4	66.2	8 800			56.0	52.9	72.4	7 700
		56.0	49.6	64.5	8 000			58.0	51.3	70.8	7 000
		58.0	47.7	62.7	7 300			60.0	49.6	69.1	6 300
		60.0	45.8	60.8	6 600			62.0	47.8	67.3	5 700
		62.0	43.8	58.8	6 000			64.0	46.0	65.4	5 100
		64.0	41.7	56.5	5 400			66.0	44.2	63.4	4 600
		66.0	39.6	54.2	4 900			68.0	42.3	61.2	4 100
		68.0	37.3	51.6	4 300			70.0	40.3	58.9	3 600
		70.0	34.9	48.8	3 900			72.0	38.2	56.4	3 100
		72.0	32.3	45.7	3 400			74.0	36.0	53.7	2 700
		74.0	29.6	42.3	3 000			76.0	33.7	50.8	2 300
		76.0	26.5	38.4	2 600						
8 5 3	2 8 0	13.4	82.9	87.0	64 700*	9 1 4	3 0 0	14.0	83.0	93.1	55 900*
		14.0	82.5	86.9	64 400*			15.0	82.4	93.0	55 600*
		15.0	81.8	86.8	63 400*			16.0	81.7	92.8	55 200*
		16.0	81.1	86.6	61 200*			18.0	80.5	92.5	53 000*
		18.0	79.8	86.3	58 500*			20.0	79.2	92.1	50 300*
		20.0	78.4	85.9	51 900			22.0	77.9	91.7	44 400
		22.0	77.0	85.4	44 700			24.0	76.6	91.2	38 600
		24.0	75.6	84.9	39 000			26.0	75.3	90.7	34 000
		26.0	74.3	84.3	34 400			28.0	74.0	90.1	30 100
		28.0	72.8	83.7	30 600			30.0	72.7	89.5	26 900
		30.0	71.4	83.1	27 300			32.0	71.4	88.8	24 100
		32.0	70.0	82.3	24 500			34.0	70.1	88.1	21 600
		34.0	68.6	81.6	22 100			36.0	68.7	87.3	19 500
		36.0	67.1	80.7	20 000			38.0	67.4	86.5	17 700
		38.0	65.6	79.8	18 200			40.0	66.0	85.6	16 000
		40.0	64.1	78.9	16 500			42.0	64.6	84.7	14 500
		42.0	62.6	77.8	15 000			44.0	63.2	83.7	13 200
		44.0	61.1	76.7	13 700			46.0	61.8	82.6	12 000
		46.0	59.5	75.6	12 500			48.0	60.3	81.5	10 900
		48.0	58.0	74.3	11 400			50.0	58.9	80.3	9 900
		50.0	56.4	73.0	10 400			52.0	57.4	79.0	9 000
		52.0	54.7	71.6	9 500			54.0	55.9	77.6	8 200
		54.0	53.0	70.1	8 700			56.0	54.3	76.2	7 400
		56.0	51.3	68.5	7 900			58.0	52.8	74.7	6 700
		58.0	49.6	66.8	7 200			60.0	51.2	73.1	6 000
		60.0	47.8	65.0	6 500			62.0	49.5	71.4	5 400
		62.0	45.9	63.1	5 900			64.0	47.9	69.6	4 800
		64.0	44.0	61.1	5 300			66.0	46.1	67.7	4 300
		66.0	42.0	58.9	4 800			68.0	44.3	65.7	3 800
		68.0	39.9	56.5	4 300			70.0	42.5	63.6	3 300
		70.0	37.8	54.0	3 800			72.0	40.6	61.3	2 800
		72.0	35.5	51.2	3 300			74.0	38.6	58.8	2 400*
		74.0	33.1	48.2	2 900			76.0	36.5	56.1	1 900*
		76.0	30.5	44.9	2 500						