

S/N: 2501052 1

MANITOWOC ENGINEERING CO.

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



LIFTCRANE CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

M-250 SERIES 2

**BOOM NO. 44 WITH HEAVY LIFT TOP
207,000 LB. CRANE COUNTERWEIGHT
60,000 LB. CARBODY COUNTERWEIGHT
360 DEGREE RATING**

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

UPPER BOOM POINT CAPACITY FOR LIFTCRANE SERVICE WITH SINGLE PART WHIP LINE IS 30,000 LBS. OR 60,000 LBS. WITH TWO PART WHIP LINE. IN ALL CASES, UPPER BOOM POINT CAPACITIES CANNOT EXCEED THOSE LISTED FOR THE MAIN BOOM CAPACITY.

250' THRU 300' BOOM LENGTHS REQUIRE ONLY THE MIDDLE 3 SHEAVES TO BE USED ON THE LOWER BOOM POINT. ALL OTHER SHEAVES MUST BE REMOVED FROM THE LOWER BOOM POINT.

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

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

MACHINE MAY BE OPERATED WITHIN WIND LIMITS SHOWN IN TABLE PROVIDED CRANE OPERATOR JUDGMENT IS USED TO ALLOW FOR WIND EFFECT ON THE LIFTED LOAD AND OTHER CONSIDERATIONS NOTED ON THE CAPACITY CHART ARE FOLLOWED. WIND WILL HAVE A CONSIDERABLE EFFECT ON A LOAD WITH A LARGE 'SAIL AREA' AND MUST BE COMPENSATED FOR ACCORDINGLY BY REDUCING LOAD RATINGS, REDUCING OPERATING SPEEDS OR BY A COMBINATION OF BOTH. RECOMMEND STOPPING OPERATION AND LOWERING BOOM AND JIB TO APPROXIMATELY 70 DEGREE BOOM ANGLE WHEN WIND EXCEEDS THOSE SHOWN IN TABLE TO PREVENT JIB BEING BLOWN OVER BACKWARDS. LOWER BOOM AND JIB TO GROUND WHEN WIND IS ABOVE 50 MPH.

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

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

MACHINE EQUIPPED WITH 30' 9" CRAWLERS, 48" TREADS, 28' RETRACTABLE GANTRY, 12 PART BOOM HOIST REEVING, FOUR 1-1/2" BOOM PENDANTS, 207,000 LB. CRANE COUNTERWEIGHT, AND TWO 30,000 LB. CARBODY COUNTERWEIGHTS.

WIND LIMITS DURING OPERATION		
MAXIMUM WIND VELOCITY MPH	BOOM LENGTH FEET	JIB LENGTH FEET
30	70 - 200	---
25	210 - 240	---
20	250 - 300	---
25	130 - 210	40 - 80
20	220 - 250	40 - 80
15	260	40 - 80
25	130 - 200	100 - 120
20	210 - 250	100 - 120

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED OVER FRONT SIDE OR REAR OF CRAWLERS			
BOOM LGTH.	JIB NO. 132	DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED	
		JIB LGTH.	JIB NO. 132
300'	---	40'	6,400 LBS.
290'	---	60'	8,200 LBS.
280'	---	80'	10,300 LBS.
270'	---	100'	12,800 LBS.
260'	80'	120'	15,300 LBS.
250'	120'		

LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START.

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

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
70	18	82.9	77.1	600,000*
	19	82.1	76.9	547,900*
	20	81.3	76.8	545,600*
	21	80.4	76.5	543,400*
	22	79.6	76.3	525,800*
	23	78.8	76.1	504,300*
	24	77.9	75.8	484,400*
	25	77.1	75.6	465,900*
	26	76.2	75.3	448,800*
	27	75.4	75.0	432,900*
	28	74.5	74.7	418,000*
	29	73.7	74.4	404,100*
	30	72.8	74.0	391,000*
	32	71.0	73.3	356,300
34	69.3	72.4	323,500	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
70	36	67.5	71.6	296,100
	38	65.7	70.6	272,700
	40	63.8	69.5	252,700
	42	61.9	68.4	235,200
	44	60.0	67.2	219,900
	46	58.1	65.9	206,400
	48	56.1	64.5	194,300
	50	54.0	62.9	183,500
	55	48.6	58.6	160,700
	60	42.6	53.2	142,700
	65	35.8	46.6	128,000
70	27.4	37.6	110,200*	

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207,000 LB. CRANE COUNTERWEIGHT
60,000 LB. CARBODY COUNTERWEIGHT
360 DEGREE RATING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS	
80	20	82.4	86.9	526,400	100	55	62.7	95.5	159,700	130	26	82.7	136.6	350,700	
	21	81.7	86.7	523,600		60	59.3	92.5	141,600		27	82.2	136.4	348,700	
	22	80.9	86.5	521,000		65	55.9	89.2	126,900		28	81.8	136.2	346,700	
	23	80.2	86.3	503,300		70	52.3	85.3	114,700		29	81.3	136.1	344,800	
	24	79.5	86.1	483,400		75	48.5	80.9	104,400		30	80.9	135.9	343,000	
	25	78.7	85.9	465,000		80	44.4	75.9	95,600		32	80.0	135.5	339,500	
	26	78.0	85.6	447,900		85	40.0	70.0	88,000		34	79.1	135.1	322,300	
	27	77.3	85.4	432,000		90	35.1	63.1	81,300		36	78.2	134.6	294,700	
	28	76.5	85.1	417,100		95	29.5	54.7	75,500		38	77.3	134.2	271,300	
	29	75.8	84.8	403,200		110	23	82.9	116.8		374,400	40	76.4	133.6	251,100
	30	75.0	84.5	390,200			24	82.4	116.6		371,800	42	75.4	133.1	233,600
	32	73.5	83.9	356,100			25	81.8	116.5		369,400	44	74.5	132.5	218,200
	34	72.0	83.2	323,300			26	81.3	116.3		367,000	46	73.6	131.9	204,600
	36	70.5	82.4	295,800			27	80.8	116.1		364,700	48	72.7	131.2	192,500
	38	68.9	81.6	272,500			28	80.3	115.9		362,500	50	71.7	130.5	181,600
	40	67.3	80.7	252,400			29	79.7	115.7		360,300	55	69.4	128.7	158,800
42	65.8	79.8	234,900	30	79.2		115.5	358,200	60	67.0	126.5	140,700			
44	64.2	78.7	219,600	32	78.1		115.0	354,300	65	64.5	124.1	125,900			
46	62.5	77.6	206,000	34	77.0		114.6	322,700	70	62.1	121.5	113,700			
48	60.9	76.5	194,000	36	76.0		114.0	295,100	75	59.5	118.5	103,400			
50	59.2	75.2	183,100	38	74.9		113.4	271,700	80	56.9	115.3	94,600			
55	54.8	71.7	160,400	40	73.8		112.8	251,600	85	54.2	111.7	87,000			
60	50.2	67.6	142,300	42	72.7		112.2	234,100	90	51.3	107.7	80,300			
65	45.1	62.7	127,600	44	71.6		111.5	218,800	95	48.4	103.3	74,500			
70	39.6	56.8	115,400	46	70.5		110.7	205,200	100	45.3	98.4	69,300			
75	33.3	49.4	105,100	48	69.4	109.9	193,100	105	42.0	92.9	64,600				
80	25.4	39.7	92,700	50	68.2	109.1	182,200	110	38.5	86.7	60,400				
90	21	82.6	96.9	498,600	55	65.4	106.8	159,400	115	34.7	79.7	56,700			
	22	81.9	96.7	495,600	60	62.4	104.2	141,300	120	30.5	71.5	53,200			
	23	81.3	96.5	492,600	65	59.4	101.2	126,600	125	25.6	61.5	50,100			
	24	80.6	96.3	482,900	70	56.3	97.9	114,400	140	27	82.8	146.5	341,800		
	25	80.0	96.1	464,500	75	53.0	94.1	104,100		28	82.4	146.4	340,000		
	26	79.3	95.9	447,400	80	49.6	89.9	95,300		29	81.9	146.2	338,200		
	27	78.7	95.7	431,400	85	46.0	85.1	87,600		30	81.5	146.0	336,400		
	28	78.0	95.4	416,600	90	42.2	79.7	81,000		32	80.7	145.7	333,900		
	29	77.4	95.2	402,700	95	38.0	73.4	75,100		34	79.9	145.3	321,900		
	30	76.7	94.9	389,600	100	33.3	66.0	69,900		36	79.0	144.9	294,300		
	32	75.4	94.4	356,100	105	28.0	57.1	65,300		38	78.2	144.4	270,800		
	34	74.1	93.7	323,200	24	83.0	126.8	363,700		40	77.4	144.0	250,600		
	36	72.7	93.1	295,800	25	82.5	126.6	361,400		42	76.5	143.5	233,100		
	38	71.4	92.4	272,400	26	82.0	126.4	359,200		44	75.7	142.9	217,700		
	40	70.0	91.6	252,300	27	81.6	126.3	357,000		46	74.8	142.3	204,100		
	42	68.6	90.8	234,800	28	81.1	126.1	354,900		48	74.0	141.7	191,900		
44	67.2	89.9	219,500	29	80.6	125.9	352,900	50		73.1	141.1	181,100			
46	65.8	88.9	205,900	30	80.1	125.7	350,900	55		70.9	139.4	158,200			
48	64.4	87.9	193,800	32	79.1	125.3	347,200	60		68.7	137.4	140,100			
50	63.0	86.8	183,000	34	78.1	124.8	322,300	65	66.5	135.2	125,300				
55	59.3	83.9	160,200	36	77.2	124.4	294,700	70	64.2	132.8	113,100				
60	55.4	80.4	142,200	38	76.2	123.8	271,300	75	61.9	130.1	102,800				
65	51.3	76.5	127,400	40	75.2	123.3	251,100	80	59.5	127.7	93,900				
70	47.0	71.8	115,200	42	74.2	122.7	233,600	85	57.1	124.0	86,300				
75	42.3	66.5	104,900	44	73.2	122.0	218,200	90	54.6	120.4	79,700				
80	37.1	60.0	96,100	46	72.2	121.4	204,600	95	52.0	116.5	73,800				
85	31.2	52.1	88,500	48	71.2	120.6	192,500	100	49.3	112.2	68,600				
100	22	82.8	106.8	479,300	50	70.1	119.9	181,700	105	46.5	107.5	63,900			
	23	82.2	106.7	476,300	55	67.6	117.8	158,900	110	43.5	102.3	59,800			
	24	81.6	106.5	473,400	60	64.9	115.5	140,700	115	40.4	96.5	56,000			
	25	81.0	106.3	463,500	65	62.2	112.8	126,000	120	37.0	90.0	52,600			
	26	80.4	106.1	446,400	70	59.5	109.9	113,800	125	33.4	82.6	49,400			
	27	79.8	105.9	430,500	75	56.6	106.6	103,500	130	29.3	74.0	46,600			
	28	79.3	105.7	415,600	80	53.6	102.9	94,700							
	29	78.7	105.5	401,700	85	50.6	98.8	87,000							
	30	78.1	105.2	388,700	90	47.3	94.2	80,400							
	32	76.9	104.7	355,700	95	43.9	89.1	74,500							
	34	75.7	104.2	322,900	100	40.2	83.3	69,300							
	36	74.5	103.6	295,400	105	36.2	76.6	64,700							
	38	73.3	103.0	272,000	110	31.8	68.8	60,500							
	40	72.1	102.3	251,900	115	26.7	59.3	56,700							
	42	70.9	101.5	234,400											
	44	69.7	100.8	219,000											
46	68.4	99.9	205,500												
48	67.2	99.0	193,400												
50	65.9	98.1	182,500												

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BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
150	28	82.9	156.5	302,400#	170	30	83.0	176.4	284,100#	190	34	82.6	196.0	241,300#
	29	82.5	156.3	300,500#		32	82.4	176.1	281,100#		36	81.9	195.7	238,800#
	30	82.1	156.2	298,600#		34	81.7	175.8	278,300#		38	81.3	195.4	236,500#
	32	81.3	155.8	295,000#		36	81.0	175.5	275,600#		40	80.7	195.1	234,200#
	34	80.6	155.5	291,500#		38	80.3	175.1	269,800#		42	80.1	194.7	231,100#
	36	79.8	155.1	288,300#		40	79.6	174.7	249,600#		44	79.5	194.3	215,600#
	38	79.0	154.7	270,400#		42	78.9	174.3	232,000#		46	78.9	193.9	202,000#
	40	78.2	154.2	250,200#		44	78.2	173.8	216,600#		48	78.3	193.4	189,800#
	42	77.4	153.8	232,700#		46	77.5	173.4	203,000#		50	77.6	193.0	178,900#
	44	76.6	153.3	217,300#		48	76.9	172.9	190,800#		55	76.1	191.7	156,000#
	46	75.8	152.7	203,600#		50	76.2	172.4	179,900#		60	74.5	190.3	137,800#
	48	75.1	152.2	191,500#		55	74.4	171.0	157,100#		65	72.9	188.8	123,000#
	50	74.3	151.6	180,600#		60	72.6	169.4	138,900#		70	71.4	187.1	110,700#
	55	72.3	150.0	157,800#		65	70.9	167.6	124,100#		75	69.7	185.3	100,300#
	60	70.2	148.2	139,600#		70	69.1	165.7	111,800#		80	68.1	183.2	91,500#
	65	68.2	146.2	124,900#		75	67.2	163.6	101,500#		85	66.5	181.1	83,800#
	70	66.1	143.9	112,600#		80	65.4	161.3	92,700#		90	64.8	178.7	77,200#
	75	63.9	141.5	102,300#		85	63.5	158.8	85,000#		95	63.1	176.2	71,300#
	80	61.8	138.8	93,400#		90	61.6	156.1	78,400#		100	61.4	173.4	66,100#
	85	59.6	135.9	85,800#		95	59.6	153.2	72,500#		105	59.7	170.5	61,400#
90	57.3	132.6	79,200#	100	57.6	150.0	67,300#	110	57.9	167.4	57,200#			
95	55.0	129.1	73,300#	105	55.6	146.6	62,600#	115	56.1	164.0	53,400#			
100	52.6	125.3	68,100#	110	53.5	142.9	58,500#	120	54.2	160.4	50,000#			
105	50.1	121.2	63,400#	115	51.3	138.9	54,700#	125	52.3	156.6	46,900#			
110	47.5	116.6	59,300#	120	49.1	134.6	51,200#	130	50.3	152.4	44,000#			
115	44.8	111.6	55,500#	125	46.8	129.9	48,100#	135	48.3	148.0	41,400#			
120	42.0	106.1	52,100#	130	44.4	124.9	45,200#	140	46.2	143.2	38,900#			
125	38.9	100.0	48,900#	135	41.9	119.3	42,600#	145	44.1	138.1	36,700#			
130	35.7	93.2	46,100#	140	39.2	113.3	40,200#	150	41.8	132.6	34,600#			
135	32.2	85.4	43,400#	145	36.4	106.6	37,900#	155	39.5	126.6	32,600#			
140	28.3	76.5	41,000#	150	33.4	99.2	35,800#	160	37.0	120.0	30,800#			
160	29	83.0	166.4	292,100#	155	30.1	90.8	33,900#	165	34.4	112.8	29,100#		
	30	82.6	166.3	290,300#	160	26.5	81.1	32,100#	170	31.5	104.8	27,500#		
	32	81.9	166.0	287,100#	32	82.8	186.2	274,600#	175	28.4	95.8	26,000#		
	34	81.1	165.7	284,000#	34	82.1	185.9	272,100#	200	34	82.9	206.1	233,400#	
	36	80.4	165.3	281,100#	36	81.5	185.6	269,700#		36	82.4	205.8	231,200#	
	38	79.7	164.9	269,900#	38	80.9	185.3	267,400#		38	81.8	205.5	229,100#	
	40	79.0	164.5	249,700#	40	80.2	184.9	249,100#		40	81.2	205.2	227,100#	
	42	78.2	164.0	232,100#	42	79.6	184.5	231,500#		42	80.6	204.8	225,200#	
	44	77.5	163.6	216,700#	44	78.9	184.1	216,100#		44	80.0	204.5	215,100#	
	46	76.8	163.1	203,100#	46	78.3	183.6	202,400#		46	79.4	204.1	201,400#	
	48	76.0	162.6	190,900#	48	77.6	183.2	190,300#		48	78.9	203.7	189,200#	
	50	75.3	162.0	180,000#	50	76.9	182.7	179,400#		50	78.3	203.2	178,300#	
	55	73.4	160.5	157,200#	55	75.3	181.4	156,500#		55	76.8	202.1	155,400#	
	60	71.5	158.8	139,000#	60	73.6	179.9	138,300#		60	75.3	200.7	137,100#	
	65	69.6	157.0	124,200#	65	72.0	178.3	123,500#		65	73.8	199.3	122,300#	
	70	67.7	154.9	112,000#	70	70.3	176.5	111,200#		70	72.3	197.7	110,000#	
	75	65.7	152.6	101,600#	75	68.6	174.5	100,900#		75	70.8	195.9	99,700#	
	80	63.7	150.2	92,800#	80	66.8	172.3	92,000#		80	69.3	194.0	90,800#	
	85	61.7	147.5	85,100#	85	65.1	170.0	84,400#		85	67.7	192.0	83,200#	
	90	59.6	144.5	78,500#	90	63.3	167.5	77,700#		90	66.2	189.8	76,500#	
95	57.5	141.3	72,600#	95	61.5	164.8	71,800#	95		64.6	187.4	70,600#		
100	55.3	137.9	67,400#	100	59.6	161.8	66,600#	100		63.0	184.8	65,400#		
105	53.1	134.1	62,800#	105	57.8	158.7	62,000#	105		61.3	182.1	60,700#		
110	50.7	130.1	58,600#	110	55.8	155.3	57,800#	110	59.7	179.2	56,500#			
115	48.4	125.6	54,800#	115	53.9	151.7	54,000#	115	58.0	176.0	52,700#			
120	45.9	120.8	51,400#	120	51.8	147.7	50,600#	120	56.3	172.7	49,300#			
125	43.3	115.6	48,200#	125	49.8	143.5	47,400#	125	54.5	169.1	46,200#			
130	40.5	109.8	45,400#	130	47.6	139.0	44,600#	130	52.7	165.3	43,300#			
135	37.6	103.4	42,700#	135	45.4	134.1	41,900#	135	50.9	161.3	40,700#			
140	34.5	96.2	40,300#	140	43.1	128.8	39,500#	140	49.0	157.0	38,200#			
145	31.1	88.2	38,000#	145	40.6	123.0	37,200#	145	47.0	152.3	36,000#			
150	27.3	78.8	35,900#	150	38.1	116.7	35,100#	150	45.0	147.3	33,900#			
				155	35.4	109.8	33,200#	155	42.9	142.0	31,900#			
				160	32.4	102.1	31,400#	160	40.7	136.2	30,100#			
				165	29.2	93.4	29,700#	165	38.4	130.0	28,400#			
				170	25.7	83.3	28,100#	170	36.0	123.2	26,800#			
								175	33.4	115.8	25,300#			
								180	30.7	107.5	23,900#			
								185	27.7	98.3	22,600#			

MANITOWOC ENGINEERING CO.

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



LIFT CRANE CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

M-250 SERIES 2

BOOM NO. 44 WITH HEAVY LIFT TOP
207,000 LB. CRANE COUNTERWEIGHT
60,000 LB. CARBODY COUNTERWEIGHT
360 DEGREE RATING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS		
210	36	82.7	215.9	225,300#	220	170	42.8	155.2	25,900	240	150	54.0	200.4	31,600		
	38	82.2	215.6	223,500#		175	40.8	149.5	24,400		155	52.5	196.6	29,700		
	40	81.6	215.3	221,700#		180	38.7	143.3	23,000		160	50.9	192.5	27,900		
	42	81.1	215.0	219,300#		185	36.5	136.6	21,600		165	49.4	188.2	26,200		
	44	80.5	214.6	214,300#		190	34.2	129.4	20,400		170	47.8	183.7	24,600		
	46	80.0	214.3	201,200		195	31.8	121.5	19,200		175	46.1	178.9	23,100		
	48	79.4	213.9	189,000		200	29.2	112.7	18,100		180	44.4	173.9	21,700		
	50	78.8	213.5	178,100		205	26.3	102.9	17,000		185	42.6	168.5	20,300		
	55	77.4	212.3	155,100		230	38	82.9	235.9		193,200#	190	40.8	162.7	19,100	
	60	76.0	211.1	136,900			40	82.4	235.6		191,600#	195	38.9	156.6	17,900	
	65	74.6	209.7	122,100			42	81.8	235.3		190,000#	200	37.0	150.0	16,800	
	70	73.2	208.2	109,800			44	81.3	234.9		188,500#	205	34.9	142.9	15,700	
	75	71.8	206.5	99,400			46	80.8	234.6		187,100#	210	32.7	135.3	14,700	
	80	70.3	204.7	90,600			48	80.3	234.2		183,900#	215	30.4	126.9	13,700	
	85	68.8	202.8	82,900			50	79.8	233.9		177,000	220	27.9	117.7	12,800	
	90	67.4	200.7	76,200			55	78.6	232.9		154,000	225	25.1	107.3	11,900#	
	95	65.9	198.5	70,400			60	77.3	231.7		135,800	250	40	83.0	255.8	179,100#
	100	64.4	196.1	65,100			65	76.0	230.5		120,900		42	82.5	255.5	177,900#
	105	62.8	193.5	60,500			70	74.7	229.1		108,600		44	82.0	255.2	174,900#
	110	61.3	190.8	56,300			75	73.4	227.6		98,200		46	81.6	254.9	171,600#
115	59.7	187.8	52,500	80	72.1		226.0	89,400	48	81.1	254.6		168,200#			
120	58.1	184.7	49,100	85	70.8		224.2	81,700	50	80.6	254.2		164,900#			
125	56.4	181.4	45,900	90	69.4		222.3	75,000	55	79.5	253.3		154,200			
130	54.8	177.9	43,100	95	68.1		220.3	69,100	60	78.3	252.2		136,000			
135	53.1	174.1	40,400	100	66.7		218.2	63,900	65	77.1	251.1		121,100			
140	51.3	170.1	38,000	105	65.4		215.9	59,200	70	76.0	249.8		108,800			
145	49.5	165.9	35,700	110	64.0		213.4	55,000	75	74.8	248.5		98,400			
150	47.7	161.4	33,600	115	62.6		210.8	51,200	80	73.6	247.0		89,500			
155	45.8	156.5	31,700	120	61.2	208.1	47,800	85	72.4	245.4	81,900					
160	43.8	151.3	29,900	125	59.7	205.1	44,700	90	71.2	243.7	75,200					
165	41.8	145.8	28,200	130	58.3	202.1	41,900	95	69.9	241.8	69,300					
170	39.7	139.8	26,600	135	56.8	198.8	39,100	100	68.7	239.9	64,100					
175	37.4	133.4	25,100	140	55.2	195.3	36,700	105	67.5	237.8	59,400					
180	35.1	126.4	23,700	145	53.7	191.7	34,400	110	66.2	235.6	55,200					
185	32.6	118.7	22,300	150	52.1	187.8	32,400	115	64.9	233.3	51,400					
190	29.9	110.2	21,100	155	50.5	183.7	30,400	120	63.7	230.8	48,000					
195	27.0	100.6	19,900	160	48.9	179.3	28,600	125	62.4	228.2	44,800					
220	38	82.5	225.8	217,300#	165	47.2	174.7	26,900	130	61.1	225.4	41,900				
	40	82.0	225.5	214,800#	170	45.4	169.8	25,300	135	59.7	222.5	39,300				
	42	81.5	225.1	209,800#	175	43.6	164.6	23,800	140	58.4	219.4	36,900				
	44	80.9	224.8	205,000#	180	41.8	159.0	22,400	145	57.0	216.2	34,600				
	46	80.4	224.4	200,200#	185	39.8	153.1	21,100	150	55.6	212.7	32,500				
	48	79.9	224.1	188,400	190	37.8	146.7	19,800	155	54.2	209.1	30,600				
	50	79.4	223.7	177,500	195	35.7	139.8	18,600	160	52.8	205.4	28,700				
	55	78.0	222.6	154,500	200	33.5	132.4	17,500	165	51.3	201.4	27,000				
	60	76.7	221.4	136,300	205	31.1	124.2	16,400	170	49.8	197.2	25,400				
	65	75.3	220.1	121,500	210	28.5	115.2	15,400	175	48.3	192.7	23,900				
	70	74.0	218.7	109,200	215	25.7	105.1	14,400	180	46.7	188.0	22,500				
	75	72.6	217.1	98,800	240	40	82.7	245.7	185,800#	185	45.1	183.1	21,200			
	80	71.2	215.4	89,900		42	82.2	245.4	184,400#	190	43.4	177.8	20,000			
	85	69.9	213.5	82,300		44	81.7	245.1	181,900#	195	41.7	172.2	18,800			
	90	68.5	211.6	75,600		46	81.2	244.7	178,400#	200	40.0	166.3	17,600			
	95	67.0	209.4	69,700		48	80.7	244.4	174,900#	205	38.1	160.0	16,600			
	100	65.6	207.2	64,500		50	80.3	244.0	171,300#	210	36.2	153.2	15,600			
	105	64.2	204.7	59,800		55	79.0	243.1	153,400	215	34.2	146.0	14,600			
	110	62.7	202.2	55,600		60	77.8	242.0	135,200	220	32.0	138.1	13,700			
	115	61.2	199.4	51,800		65	76.6	240.8	120,300	225	29.7	129.5	12,800			
120	59.7	196.5	48,400	70		75.4	239.5	108,000	230	27.3	120.1	12,000				
125	58.2	193.4	45,200	75		74.1	238.0	97,600								
130	56.6	190.1	42,400	80		72.9	236.5	88,700								
135	55.0	186.6	39,700	85		71.6	234.8	81,000								
140	53.4	182.9	37,300	90		70.3	233.0	74,400								
145	51.7	179.0	35,000	95		69.1	231.1	68,500								
150	50.1	174.8	32,900	100		67.8	229.1	63,200								
155	48.3	170.4	31,000	105		66.5	226.9	58,600								
160	46.5	165.6	29,200	110		65.2	224.6	54,400								
165	44.7	160.6	27,500	115		63.8	222.1	50,600								
				120		62.5	219.5	47,100								
				125	61.1	216.7	44,000									
				130	59.7	213.8	41,100									
				135	58.3	210.7	38,400									
				140	56.9	207.5	36,000									
				145	55.5	204.0	33,700									

MANITOWOC ENGINEERING CO.

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



LIFT CRANE CAPACITIES

BOOM NO. 44 WITH HEAVY LIFT TOP
207,000 LB. CRANE COUNTERWEIGHT
60,000 LB. CARBODY COUNTERWEIGHT
360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS

M-250 SERIES 2

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
260	42	82.8	265.6	169,400#	270	190	47.8	206.1	18,600	290	115	68.6	277.0	49,500
	44	82.4	265.3	166,100#		195	46.3	201.3	17,500		120	67.5	274.9	46,100
	46	81.9	265.0	162,800#		200	44.8	196.3	16,300		125	66.5	272.7	42,900
	48	81.5	264.7	159,700#		205	43.3	191.1	15,300		130	65.4	270.4	40,100
	50	81.0	264.4	156,500#		210	41.7	185.5	14,300		135	64.3	268.0	37,400
	55	79.9	263.5	148,500#		215	40.1	179.6	13,300		140	63.2	265.5	35,000
	60	78.8	262.5	135,400		220	38.4	173.3	12,400		145	62.0	262.8	32,700
	65	77.6	261.4	120,500		225	36.6	166.6	11,500		150	60.9	260.0	30,600
	70	76.5	260.1	108,200		230	34.8	159.5	10,700		155	59.8	257.1	28,600
	75	75.4	258.8	97,800		235	32.8	151.9	9,900		160	58.6	254.1	26,800
	80	74.2	257.4	88,900		240	30.8	143.6	9,100		165	57.4	250.9	25,100
	85	73.1	255.9	81,200		245	28.6	134.6	8,100#		170	56.3	247.5	23,500
	90	71.9	254.2	74,500	250	26.2	124.7	6,400#	175		55.1	244.0	22,000	
	95	70.7	252.5	68,600	44	82.9	285.5	142,700#	180		53.8	240.4	20,600	
	100	69.6	250.6	63,400	46	82.5	285.2	142,000#	185		52.6	236.6	19,300	
	105	68.4	248.6	58,700	48	82.1	284.9	141,300#	190		51.3	232.6	18,000	
	110	67.2	246.5	54,500	50	81.7	284.6	138,600#	195		50.0	228.4	16,800	
	115	66.0	244.3	50,700	55	80.6	283.8	130,900#	200		48.7	224.0	15,700	
	120	64.8	241.9	47,300	60	79.6	282.9	129,100#	205		47.4	219.4	14,600	
	125	63.5	239.4	44,100	65	78.5	281.8	119,800	210		46.0	214.6	13,600	
	130	62.3	236.8	41,300	70	77.5	280.7	107,500	215		44.6	209.6	12,700	
	135	61.0	234.0	38,600	75	76.4	279.5	97,100	220		43.2	204.3	11,700	
	140	59.8	231.1	36,200	80	75.4	278.2	88,200	225		41.7	198.7	10,900	
	145	58.5	228.1	33,900	85	74.3	276.8	80,500	230		40.2	192.8	10,000	
150	57.1	224.8	31,800	90	73.2	275.3	73,800	235	38.6	186.6	9,000#			
155	55.8	221.4	29,900	95	72.2	273.7	67,900	240	37.0	180.0	7,800#			
160	54.5	217.9	28,000	100	71.1	271.9	62,600	245	35.3	173.0	6,700#			
165	53.1	214.1	26,300	105	70.0	270.1	58,000	250	33.5	165.5	5,600#			
170	51.7	210.2	24,700	110	68.9	268.2	53,700	255	31.6	157.5	4,600#			
175	50.2	206.0	23,200	115	67.8	266.1	49,900	46	83.0	305.4	123,300#			
180	48.8	201.7	21,800	120	66.7	264.0	46,500	48	82.6	305.1	122,900#			
185	47.3	197.1	20,500	125	65.6	261.7	43,300	50	82.2	304.8	122,600#			
190	45.8	192.2	19,300	130	64.4	259.3	40,500	55	81.3	304.1	120,400#			
195	44.2	187.1	18,100	135	63.3	256.8	37,800	60	80.3	303.2	116,000#			
200	42.6	181.7	16,900	140	62.1	254.1	35,400	65	79.3	302.3	111,900#			
205	40.9	176.0	15,900	145	61.0	251.4	33,100	70	78.3	301.2	106,500			
210	39.1	169.9	14,900	150	59.8	248.5	31,000	75	77.4	300.1	96,000			
215	37.3	163.4	13,900	155	58.6	245.4	29,000	80	76.4	298.9	87,100			
220	35.4	156.4	13,000	160	57.4	242.2	27,200	85	75.4	297.6	79,400			
225	33.5	149.0	12,100	165	56.1	238.8	25,500	90	74.4	296.2	72,700			
230	31.4	140.9	11,300	170	54.9	235.3	23,900	95	73.4	294.7	66,800			
235	29.1	132.1	10,500	175	53.6	231.6	22,400	100	72.4	293.1	61,600			
240	26.7	122.4	9,500#	180	52.3	227.8	21,000	105	71.4	291.4	56,900			
44	82.6	275.4	153,900#	185	51.0	223.7	19,700	110	70.4	289.6	52,700			
46	82.2	275.1	151,800#	190	49.7	219.5	18,400	115	69.4	287.7	48,800			
48	81.8	274.8	148,900#	195	48.3	215.1	17,200	120	68.3	285.7	45,400			
50	81.3	274.5	146,100#	200	46.9	210.4	16,100	125	67.3	283.6	42,200			
55	80.3	273.6	139,000#	205	45.5	205.5	15,000	130	66.2	281.4	39,300			
60	79.2	272.7	131,900#	210	44.0	200.3	14,000	135	65.2	279.1	36,700			
65	78.1	271.6	120,000	215	42.5	194.9	13,100	140	64.1	276.7	34,200			
70	77.0	270.4	107,600	220	40.9	189.2	12,100	145	63.1	274.1	32,000			
75	75.9	269.2	97,200	225	39.3	183.1	11,300	150	62.0	271.5	29,900			
80	74.8	267.8	88,300	230	37.6	176.7	10,400#	155	60.9	268.7	27,900			
85	73.7	266.4	80,700	235	35.9	169.9	9,200#	160	59.8	265.8	26,100			
90	72.6	264.8	74,000	240	34.1	162.6	8,000#	165	58.7	262.7	24,400			
95	71.5	263.1	68,100	245	32.2	154.7	6,900#	170	57.5	259.6	22,800			
100	70.4	261.3	62,800	250	30.2	146.3	5,800#	175	56.4	256.2	21,300			
105	69.2	259.4	58,100	255	28.0	137.1	4,700#	180	55.2	252.8	19,900			
110	68.1	257.4	53,900	46	82.7	295.3	132,000#	185	54.0	249.1	18,500			
115	66.9	255.3	50,100	48	82.3	295.0	131,400#	190	52.8	245.4	17,300			
120	65.8	253.0	46,700	50	81.9	294.7	130,800#	195	51.6	241.4	16,100			
125	64.6	250.6	43,500	55	80.9	293.9	129,600#	200	50.4	237.3	15,000			
130	63.4	248.1	40,700	60	79.9	293.0	127,400#	205	49.1	233.0	13,900			
135	62.2	245.5	38,000	65	78.9	292.1	119,500	210	47.8	228.4	12,900			
140	61.0	242.7	35,600	70	77.9	291.0	107,100	215	46.5	223.7	11,700#			
145	59.8	239.8	33,300	75	76.9	289.8	96,700	220	45.2	218.8	10,400#			
150	58.5	236.7	31,200	80	75.9	288.6	87,800	225	43.8	213.6	9,200#			
155	57.3	233.5	29,300	85	74.9	287.2	80,100	230	42.4	208.1	8,100#			
160	56.0	230.1	27,400	90	73.8	285.7	73,400	235	40.9	202.4	7,000#			
165	54.7	226.6	25,700	95	72.8	284.2	67,500	240	39.5	196.4	6,000#			
170	53.4	222.9	24,100	100	71.8	282.5	62,200	245	37.9	190.0	5,000#			
175	52.0	219.0	22,600	105	70.7	280.8	57,600	250	36.3	183.3	4,200#			
180	50.6	214.9	21,200	110	69.7	278.9	53,300							
185	49.2	210.6	19,900											