



LIFTCRANE CAPACITIES
BOOM NO. 44A WITH HEAVY LIFT TOP
123,200 LB. COUNTERWEIGHT
RATING OVER REAR OR 360 DEGREES
ON SPREAD OUTRIGGERS

MEETS
ANSI B30.5
REQUIREMENTS

M-250T

CAPACITIES FOR VARIOUS BOOM LENGTHS AND OPERATING RADII 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 30,000 LBS. OR 60,000 LBS. WITH TWO PART LINE. IN ALL CASES, UPPER BOOM POINT CAPACITIES CANNOT EXCEED THOSE LISTED FOR THE MAIN BOOM CAPACITY.

270' AND 280' 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 OUTRIGGERS FULLY SPREAD AND SET. RADII LESS THAN 40' 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 50 MPH.

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, 390" WHEELBASE, 102-3/4" FRONT AXLE TRACK, 102-3/4" REAR AXLE TRACK, 14.00 X 25 TIRES, 184-1/2" OUTRIGGERS, 28' RETRACTABLE GANTRY, 12 PART BOOM HOIST REEVING, FOUR 1-1/2" BOOM PENDANTS AND 123,200 LB. COUNTERWEIGHT.

WIND LIMITS DURING OPERATION		
WIND VELOCITY	BOOM LENGTH	JIB LENGTH
MPH	FEET	FEET
30	70 - 200	---
25	210 - 240	---
20	250 - 280	---
25	130 - 210	40 - 80
20	220 - 230	40 - 80
20	240	60
20	250	40
25	130 - 200	100 - 120
20	210 - 220	100 - 120
20	230	100

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED				DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED	
OVER REAR ON SPREAD OUTRIGGERS		OVER SIDE ON SPREAD OUTRIGGERS			
BOOM LGTH.	JIB NO. 132	BOOM LGTH.	JIB NO. 132	JIB LGTH.	JIB NO. 132
280'	---	260'	---	40'	6,400 LBS.
270'	---	250'	---	60'	8,200 LBS.
260'	---	240'	---	80'	10,300 LBS.
250'	40'	230'	60'	100'	12,800 LBS.
240'	60'	220'	80'	120'	15,300 LBS.
230'	100'	210'	120'		
220'	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.

MANITOWOC ENGINEERING CO.

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



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REQUIREMENTS

M-250T

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY 360 DEGREES POUNDS		
				REAR POUNDS	REAR POUNDS	
70	18	82.9	78.6	600,000*	600,000*	
	19	82.1	78.4	547,900*	547,900*	
	20	81.3	78.2	545,600*	545,600*	
	21	80.4	78.0	535,400*	535,400*	
	22	79.6	77.8	512,500*	512,500*	
	23	78.8	77.5	489,900*	489,900*	
	24	77.9	77.3	466,100*	466,100*	
	25	77.1	77.0	444,500*	444,500*	
	26	76.2	76.7	424,700*	424,700*	
	27	75.4	76.4	406,500*	406,500*	
	28	74.5	76.1	389,700*	389,700*	
	29	73.7	75.8	374,200*	374,200*	
	30	72.8	75.4	359,900*	359,900*	
	32	71.0	74.7	334,100*	334,100*	
	34	69.3	73.9	311,600*	311,600*	
	36	67.5	73.0	291,700*	291,700*	
	38	65.7	72.0	271,600*	271,600*	
	40	63.8	71.0	248,200*	258,400*	
	42	61.9	69.8	228,300*	244,300*	
	44	60.0	68.6	211,100*	231,600*	
46	58.1	67.3	196,200*	220,000*		
48	56.1	65.9	183,100*	209,400*		
50	54.0	64.4	171,600*	199,700*		
55	48.6	60.0	147,800*	176,100*		
60	42.6	54.7	129,300*	154,500*		
65	35.8	48.0	114,500*	133,300*		
70	27.4	39.0	102,400*	109,700*		
80	20	82.4	88.3	526,400*	526,400*	
	21	81.7	88.2	523,600*	523,600*	
	22	80.9	88.0	511,500*	511,500*	
	23	80.2	87.8	488,900*	488,900*	
	24	79.5	87.6	465,200*	465,200*	
	25	78.7	87.3	443,500*	443,500*	
	26	78.0	87.1	423,700*	423,700*	
	27	77.3	86.8	405,600*	405,600*	
	28	76.5	86.6	388,800*	388,800*	
	29	75.8	86.3	373,300*	373,300*	
	30	75.0	86.0	359,000*	359,000*	
	32	73.5	85.3	333,200*	333,200*	
	34	72.0	84.6	310,700*	310,700*	
	36	70.5	83.9	290,900*	290,900*	
	38	68.9	83.0	271,700*	273,300*	
	40	67.3	82.1	248,200*	257,600*	
	42	65.8	81.2	228,200*	243,500*	
	44	64.2	80.2	211,000*	230,700*	
	46	62.5	79.1	196,100*	219,100*	
	48	60.9	77.9	183,000*	208,600*	
50	59.2	76.6	171,400*	198,900*		
55	54.8	73.1	147,500*	175,900*		
60	50.2	69.0	129,000*	154,200*		
65	45.1	64.1	114,200*	136,900*		
70	39.6	58.2	102,100*	122,700*		
75	33.3	50.9	92,000*	110,900*		
80	25.4	41.2	83,500*	92,400*		
90	21	82.6	98.3	498,600*	498,600*	
	22	81.9	98.1	495,600*	495,600*	
	23	81.3	98.0	488,400*	488,400*	
	24	80.6	97.8	464,600*	464,600*	
	25	80.0	97.6	443,000*	443,000*	
	26	79.3	97.4	423,200*	423,200*	
	27	78.7	97.1	405,000*	405,000*	
	28	78.0	96.9	388,300*	388,300*	
	29	77.4	96.6	372,800*	372,800*	
	30	76.7	96.4	358,400*	358,400*	
	32	75.4	95.8	332,700*	332,700*	
	34	74.1	95.2	310,200*	310,200*	
	36	72.7	94.5	290,400*	290,400*	
	38	71.4	93.8	271,800*	272,800*	
	40	70.0	93.0	248,300*	257,100*	
	100	42	68.6	92.2	228,300*	243,000*
		44	67.2	91.3	211,100*	230,300*
		46	65.8	90.4	196,100*	218,700*
		48	64.4	89.4	183,000*	208,100*
		50	63.0	88.3	171,400*	198,500*
55		59.3	85.3	147,500*	175,900*	
60		55.4	81.9	129,000*	154,200*	
65		51.3	77.9	114,100*	136,800*	
70		47.0	73.3	102,000*	122,600*	
75		42.3	67.9	92,000*	110,800*	
80		37.1	61.5	83,400*	100,800*	
85		31.2	53.6	76,100*	92,300*	
110		22	82.8	108.3	479,300*	479,300*
		23	82.2	108.1	476,300*	476,300*
		24	81.6	107.9	463,500*	463,500*
		25	81.0	107.8	441,900*	441,900*
		26	80.4	107.6	422,100*	422,100*
		27	79.8	107.4	404,000*	404,000*
		28	79.3	107.1	387,200*	387,200*
		29	78.7	106.9	371,800*	371,800*
	30	78.1	106.7	357,400*	357,400*	
	32	76.9	106.2	331,600*	331,600*	
	34	75.7	105.6	309,200*	309,200*	
	36	74.5	105.0	289,400*	289,400*	
	38	73.3	104.4	271,600*	271,800*	
	40	72.1	103.7	248,100*	256,100*	
	42	70.9	103.0	228,000*	242,000*	
	44	69.7	102.2	210,800*	229,300*	
	46	68.4	101.4	195,800*	217,700*	
	48	67.2	100.5	182,700*	207,200*	
	50	65.9	99.5	171,000*	197,500*	
	55	62.7	96.9	147,100*	175,500*	
60	59.3	94.0	128,500*	153,700*		
65	55.9	90.6	113,700*	136,300*		
70	52.3	86.7	101,600*	122,100*		
75	48.5	82.4	91,500*	110,300*		
80	44.4	77.3	82,900*	100,300*		
85	40.0	71.5	75,600*	91,800*		
90	35.1	64.5	69,200*	84,300*		
95	29.5	56.1	63,700*	77,800*		
110	23	82.9	118.2	443,800*	443,800*	
	24	82.4	118.1	440,800*	440,800*	
	25	81.8	117.9	437,900*	437,900*	
	26	81.3	117.7	421,400*	421,400*	
	27	80.8	117.6	403,300*	403,300*	
	28	80.3	117.4	386,500*	386,500*	
	29	79.7	117.2	371,100*	371,100*	
	30	79.2	116.9	356,700*	356,700*	
	32	78.1	116.5	331,000*	331,000*	
	34	77.0	116.0	308,500*	308,500*	
	36	76.0	115.5	288,700*	288,700*	
	38	74.9	114.9	271,100*	271,100*	
	40	73.8	114.3	248,000*	255,500*	
	42	72.7	113.6	227,900*	241,400*	
	44	71.6	112.9	210,600*	228,600*	
	46	70.5	112.1	195,600*	217,100*	
	48	69.4	111.4	182,500*	206,500*	
	50	68.2	110.5	170,800*	196,900*	
	55	65.4	108.2	146,900*	175,200*	
	60	62.4	105.6	128,300*	153,500*	
65	59.4	102.6	113,400*	136,100*		
70	56.3	99.3	101,300*	121,800*		
75	53.0	95.6	91,100*	110,000*		
80	49.6	91.3	82,600*	100,000*		
85	46.0	86.6	75,300*	91,400*		
90	42.2	81.1	68,900*	84,000*		
95	38.0	74.8	63,400*	77,500*		
100	33.3	67.5	58,500*	71,800*		
105	28.0	58.5	54,100*	66,700*		

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MEETS
ANSI B30.5
REQUIREMENTS

M-250T

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY 360 DEGREES POUNDS		BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY 360 DEGREES POUNDS	
				DEGREES	REAR POUNDS					DEGREES	REAR POUNDS
120	24	83.0	128.2	430,000*	430,000*	140	27	82.8	148.0	388,500*	388,500*
	25	82.5	128.0	427,300*	427,300*		28	82.4	147.8	383,600*	383,600*
	26	82.0	127.9	420,300*	420,300*		29	81.9	147.7	368,200*	368,200*
	27	81.6	127.7	402,200*	402,200*		30	81.5	147.5	353,900*	353,900*
	28	81.1	127.5	385,400*	385,400*		32	80.7	147.1	328,100*	328,100*
	29	80.6	127.3	370,000*	370,000*		34	79.9	146.7	305,700*	305,700*
	30	80.1	127.2	355,600*	355,600*		36	79.0	146.3	285,900*	285,900*
	32	79.1	126.7	329,900*	329,900*		38	78.2	145.9	268,300*	268,300*
	34	78.1	126.3	307,400*	307,400*		40	77.4	145.4	247,200*	252,700*
	36	77.2	125.8	287,600*	287,600*		42	76.5	144.9	227,100*	238,600*
	38	76.2	125.3	270,100*	270,100*		44	75.7	144.4	209,700*	225,900*
	40	75.2	124.7	247,700*	254,400*		46	74.8	143.8	194,600*	214,300*
	42	74.2	124.1	227,600*	240,300*		48	74.0	143.2	181,400*	203,800*
	44	73.2	123.5	210,300*	227,600*		50	73.1	142.5	169,700*	194,100*
	46	72.2	122.8	195,300*	216,000*		55	70.9	140.8	145,600*	173,200*
	48	71.2	122.1	182,100*	205,500*		60	68.7	138.8	126,900*	152,100*
	50	70.1	121.3	170,400*	195,800*		65	66.5	136.7	112,000*	134,600*
	55	67.8	119.2	146,400*	174,800*		70	64.2	134.2	99,800*	120,400*
	60	64.9	116.9	127,700*	152,900*		75	61.9	131.6	89,600*	108,500*
	65	62.2	114.3	112,900*	135,500*		80	59.5	128.6	81,000*	98,400*
70	59.5	111.3	100,700*	121,300*	85	57.1	125.4	73,700*	89,800*		
75	56.6	108.0	90,600*	109,400*	90	54.6	121.9	67,300*	82,400*		
80	53.6	104.3	82,000*	99,400*	95	52.0	118.0	61,700*	75,800*		
85	50.6	100.2	74,700*	90,800*	100	49.3	113.7	56,800*	70,100*		
90	47.3	95.7	68,300*	83,400*	105	46.5	109.0	52,400*	65,000*		
95	43.9	90.5	62,800*	76,900*	110	43.5	103.8	48,500*	60,400*		
100	40.2	84.7	57,800*	71,100*	115	40.4	98.0	45,000*	56,300*		
105	36.2	78.0	53,500*	66,000*	120	37.0	91.5	41,800*	52,600*		
110	31.8	70.2	49,600*	61,500*	125	33.4	84.0	38,900*	49,200*		
115	26.7	60.8	46,000*	57,300*	130	29.3	75.4	36,300*	46,100*		
130	26	82.7	138.0	404,300*	404,300*	150	28	82.9	157.9	356,600*	356,600*
	27	82.2	137.8	401,500*	401,500*		29	82.5	157.8	354,400*	354,400*
	28	81.8	137.7	384,800*	384,800*		30	82.1	157.6	352,200*	352,200*
	29	81.3	137.5	369,300*	369,300*		32	81.3	157.3	327,300*	327,300*
	30	80.9	137.3	355,000*	355,000*		34	80.6	156.9	304,900*	304,900*
	32	80.0	136.9	329,200*	329,200*		36	79.8	156.5	285,100*	285,100*
	34	79.1	136.5	306,800*	306,800*		38	79.0	156.1	267,500*	267,500*
	36	78.2	136.1	287,000*	287,000*		40	78.2	155.7	246,900*	251,900*
	38	77.3	135.6	269,400*	269,400*		42	77.4	155.2	226,700*	237,800*
	40	76.4	135.1	247,600*	253,800*		44	76.6	154.7	209,400*	225,100*
	42	75.4	134.5	227,400*	239,700*		46	75.8	154.2	194,300*	213,500*
	44	74.5	133.9	210,100*	227,000*		48	75.1	153.6	181,000*	203,000*
	46	73.6	133.3	195,100*	215,400*		50	74.3	153.0	169,300*	193,300*
	48	72.7	132.7	181,900*	204,900*		55	72.3	151.4	145,200*	172,400*
	50	71.7	132.0	170,200*	195,200*		60	70.2	149.6	126,400*	151,600*
	55	69.4	130.1	146,100*	174,300*		65	68.2	147.6	111,500*	134,100*
	60	67.0	128.0	127,500*	152,700*		70	66.1	145.4	99,300*	119,900*
	65	64.5	125.6	112,600*	135,200*		75	63.9	142.9	89,100*	108,000*
	70	62.1	122.9	100,400*	121,000*		80	61.8	140.2	80,500*	97,900*
	75	59.5	120.0	90,200*	109,100*		85	59.6	137.3	73,100*	89,300*
80	56.9	116.7	81,700*	99,100*	90	57.3	134.1	66,800*	81,800*		
85	54.2	113.1	74,300*	90,500*	95	55.0	130.6	61,200*	75,300*		
90	51.3	109.1	68,000*	83,000*	100	52.6	126.8	56,300*	69,500*		
95	48.4	104.7	62,400*	76,500*	105	50.1	122.6	51,900*	64,400*		
100	45.3	99.8	57,500*	70,800*	110	47.5	118.1	48,000*	59,900*		
105	42.0	94.3	53,100*	65,700*	115	44.8	113.1	44,400*	55,700*		
110	38.5	88.2	49,200*	61,100*	120	42.0	107.6	41,300*	52,000*		
115	34.7	81.1	45,700*	57,000*	125	38.9	101.5	38,400*	48,600*		
120	30.5	72.9	42,500*	53,300*	130	35.7	94.6	35,700*	45,500*		
125	25.6	63.0	39,600*	49,900*	135	32.2	86.9	33,300*	42,700*		
					140	28.3	77.9	31,000*	40,100*		

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BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY 360 DEGREES POUNDS	CAPACITY REAR POUNDS
160	29	83.0	167.9	345,100*	345,100*
	30	82.6	167.7	343,100*	343,100*
	32	81.9	167.4	326,200*	326,200*
	34	81.1	167.1	303,700*	303,700*
	36	80.4	166.7	284,000*	284,000*
	38	79.7	166.3	266,400*	266,400*
	40	79.0	165.9	246,600*	250,800*
	42	78.2	165.5	226,300*	236,700*
	44	77.5	165.0	208,900*	224,000*
	46	76.8	164.5	193,800*	212,400*
	48	76.0	164.0	180,500*	201,900*
	50	75.3	163.4	168,800*	192,200*
	55	73.4	161.9	144,600*	171,400*
	60	71.5	160.3	125,800*	151,000*
	65	69.6	158.4	110,900*	133,500*
70	67.7	156.3	98,600*	119,200*	
75	65.7	154.1	88,400*	107,300*	
80	63.7	151.6	79,800*	97,200*	
85	61.7	148.9	72,400*	88,600*	
90	59.6	146.0	66,100*	81,100*	
95	57.5	142.8	60,500*	74,600*	
100	55.3	139.3	55,500*	68,800*	
105	53.1	135.6	51,200*	63,700*	
110	50.7	131.5	47,200*	59,100*	
115	48.4	127.1	43,700*	55,000*	
120	45.9	122.3	40,500*	51,300*	
125	43.3	117.0	37,600*	47,900*	
130	40.5	111.2	35,000*	44,800*	
135	37.6	104.8	32,500*	41,900*	
140	34.5	97.7	30,300*	39,300*	
145	31.1	89.6	28,200*	36,900*	
150	27.3	80.3	26,300*	34,700*	
170	30	83.0	177.8	325,200*	325,200*
	32	82.4	177.5	321,500*	321,500*
	34	81.7	177.2	303,200*	303,200*
	36	81.0	176.9	283,400*	283,400*
	38	80.3	176.5	265,900*	265,900*
	40	79.6	176.1	246,300*	250,300*
	42	78.9	175.7	226,100*	236,200*
	44	78.2	175.3	208,700*	223,500*
	46	77.5	174.8	193,500*	211,900*
	48	76.9	174.3	180,200*	201,400*
	50	76.2	173.8	168,500*	191,700*
	55	74.4	172.4	144,300*	170,900*
	60	72.6	170.8	125,500*	150,700*
	65	70.9	169.1	110,500*	133,200*
	70	69.1	167.2	98,300*	118,900*
75	67.2	165.1	88,100*	107,000*	
80	65.4	162.8	79,500*	96,900*	
85	63.5	160.3	72,100*	88,300*	
90	61.6	157.5	65,700*	80,800*	
95	59.6	154.6	60,100*	74,200*	
100	57.6	151.4	55,200*	68,500*	
105	55.6	148.0	50,800*	63,300*	
110	53.5	144.3	46,900*	58,800*	
115	51.3	140.3	43,400*	54,600*	
120	49.1	136.0	40,200*	50,900*	
125	46.8	131.4	37,300*	47,500*	
130	44.4	126.3	34,600*	44,400*	
135	41.9	120.8	32,200*	41,600*	
140	39.2	114.7	29,900*	39,000*	
145	36.4	108.1	27,900*	36,500*	
150	33.4	100.6	26,000*	34,300*	
155	30.1	92.2	24,200*	32,200*	
160	26.5	82.6	22,500*	30,300*	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY 360 DEGREES POUNDS	CAPACITY REAR POUNDS
180	32	82.8	187.6	312,300*	312,300*
	34	82.1	187.4	302,100*	302,100*
	36	81.5	187.0	282,300*	282,300*
	38	80.9	186.7	264,800*	264,800*
	40	80.2	186.3	246,000*	249,100*
	42	79.6	185.9	225,700*	235,100*
	44	78.9	185.5	208,300*	222,400*
	46	78.3	185.1	193,100*	210,800*
	48	77.6	184.6	179,800*	200,300*
	50	76.9	184.1	168,000*	190,700*
	55	75.3	182.8	143,800*	169,800*
	60	73.6	181.3	124,900*	150,100*
	65	72.0	179.7	109,900*	132,600*
	70	70.3	177.9	97,700*	118,200*
	75	68.6	175.9	87,400*	106,300*
80	66.8	173.8	78,800*	96,200*	
85	65.1	171.4	71,400*	87,600*	
90	63.3	168.9	65,000*	80,100*	
95	61.5	166.2	59,400*	73,500*	
100	59.6	163.3	54,500*	67,800*	
105	57.8	160.1	50,100*	62,600*	
110	55.8	156.7	46,100*	58,000*	
115	53.9	153.1	42,600*	53,900*	
120	51.8	149.2	39,400*	50,200*	
125	49.8	145.0	36,500*	46,800*	
130	47.6	140.4	33,900*	43,700*	
135	45.4	135.5	31,400*	40,800*	
140	43.1	130.2	29,200*	38,200*	
145	40.6	124.4	27,100*	35,800*	
150	38.1	118.1	25,200*	33,500*	
155	35.4	111.2	23,400*	31,500*	
160	32.4	103.5	21,800*	29,500*	
165	29.2	94.8	20,200*	27,700*	
170	25.7	84.8	18,700*	26,000*	
190	34	82.6	197.5	283,600*	283,600*
	36	81.9	197.2	280,700*	280,700*
	38	81.3	196.8	263,900*	263,900*
	40	80.7	196.5	245,600*	248,300*
	42	80.1	196.1	225,300*	234,200*
	44	79.5	195.7	207,800*	221,500*
	46	78.9	195.3	192,600*	210,000*
	48	78.3	194.9	179,300*	199,400*
	50	77.6	194.4	167,500*	189,800*
	55	76.1	193.2	143,200*	168,900*
	60	74.5	191.8	124,400*	149,600*
	65	72.9	190.2	109,400*	132,000*
	70	71.4	188.5	97,100*	117,700*
	75	69.7	186.7	86,900*	105,700*
	80	68.1	184.7	78,200*	95,600*
85	66.5	182.5	70,800*	87,000*	
90	64.8	180.1	64,400*	79,500*	
95	63.1	177.6	58,800*	72,900*	
100	61.4	174.9	53,800*	67,100*	
105	59.7	171.9	49,500*	62,000*	
110	57.9	168.8	45,500*	57,400*	
115	56.1	165.4	42,000*	53,300*	
120	54.2	161.8	38,800*	49,500*	
125	52.3	158.0	35,900*	46,100*	
130	50.3	153.9	33,200*	43,000*	
135	48.3	149.4	30,800*	40,200*	
140	46.2	144.7	28,500*	37,600*	
145	44.1	139.5	26,500*	35,100*	
150	41.8	134.0	24,600*	32,900*	
155	39.5	128.0	22,800*	30,800*	
160	37.0	121.5	21,100*	28,900*	
165	34.4	114.3	19,600*	27,100*	
170	31.5	106.3	18,100*	25,400*	
175	28.4	97.3	16,800*	23,800*	

MANITOWOC ENGINEERING CO.

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



LIFTCRANE CAPACITIES

BOOM NO. 44A WITH HEAVY LIFT TOP
123,200 LB. COUNTERWEIGHT
RATING OVER REAR OR 360 DEGREES
ON SPREAD OUTRIGGERS

MEETS
ANSI B30.5
REQUIREMENTS

M-250T

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY 360 DEGREES POUNDS	CAPACITY REAR POUNDS
200	34	82.9	207.6	274,800*	274,800*
	36	82.4	207.3	272,300*	272,300*
	38	81.8	207.0	262,800*	262,800*
	40	81.2	206.6	245,200	247,200*
	42	80.6	206.3	224,900	233,100*
	44	80.0	205.9	207,400	220,400*
	46	79.4	205.5	192,200	208,800*
	48	78.9	205.1	178,800	198,300*
	50	78.3	204.7	167,000	188,700*
	55	76.8	203.5	142,700	167,800*
	60	75.3	202.2	123,800	149,000
	65	73.8	200.7	108,700	131,400
	70	72.3	199.1	96,400	117,000
	75	70.8	197.4	86,200	105,100
	80	69.3	195.5	77,500	94,900
	85	67.7	193.4	70,100	86,300
	90	66.2	191.2	63,700	78,800
	95	64.6	188.8	58,100	72,200
100	63.0	186.3	53,100	66,400	
105	61.3	183.5	48,700	61,300	
110	59.7	180.6	44,800	56,700	
115	58.0	177.5	41,200	52,500	
120	56.3	174.1	38,000	48,800	
125	54.5	170.6	35,100	45,400	
130	52.7	166.8	32,400	42,300	
135	50.9	162.7	30,000	39,400	
140	49.0	158.4	27,800	36,800	
145	47.0	153.8	25,700	34,400	
150	45.0	148.8	23,800	32,100	
155	42.9	143.4	22,000	30,000	
160	40.7	137.7	20,300	28,100	
165	38.4	131.4	18,800	26,300	
170	36.0	124.7	17,300	24,600	
175	33.4	117.2	16,000	23,000	
180	30.7	109.0	14,700	21,500	
185	27.7	99.7	13,500	20,100	
210	36	82.7	217.4	257,900*	257,900*
	38	82.2	217.1	255,600*	255,600*
	40	81.6	216.8	245,200	247,000*
	42	81.1	216.4	224,900	233,000*
	44	80.5	216.1	207,400	220,300*
	46	80.0	215.7	192,100	208,700*
	48	79.4	215.3	178,800	198,200*
	50	78.8	214.9	167,000	188,600*
	55	77.4	213.8	142,600	167,700*
	60	76.0	212.5	123,800	149,000
	65	74.6	211.1	108,700	131,400
	70	73.2	209.6	96,400	117,000
	75	71.8	208.0	86,100	105,000
	80	70.3	206.2	77,500	94,900
	85	68.8	204.2	70,100	86,200
	90	67.4	202.1	63,600	78,700
	95	65.9	199.9	58,000	72,100
	100	64.4	197.5	53,100	66,300
105	62.8	194.9	48,600	61,200	
110	61.3	192.2	44,700	56,600	
115	59.7	189.3	41,200	52,500	
120	58.1	186.1	38,000	48,700	
125	56.4	182.8	35,000	45,300	
130	54.8	179.3	32,400	42,200	
135	53.1	175.6	29,900	39,300	
140	51.3	171.6	27,700	36,700	
145	49.5	167.3	25,600	34,300	
150	47.7	162.8	23,700	32,100	
155	45.8	158.0	21,900	30,000	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY 360 DEGREES POUNDS	CAPACITY REAR POUNDS	
210	160	43.8	152.8	20,300	28,000	
	165	41.8	147.2	18,700	26,200	
	170	39.7	141.3	17,300	24,500	
	175	37.4	134.8	15,900	23,000	
	180	35.1	127.8	14,600	21,500	
	185	32.6	120.1	13,400	20,100	
	190	29.9	111.6	12,300	18,700	
	195	27.0	102.0	11,200	17,500	
	220	38	82.5	227.2	247,000*	247,000*
		40	82.0	226.9	244,900	245,100*
42		81.5	226.6	224,500	231,900*	
44		80.9	226.2	206,900	219,200*	
46		80.4	225.9	191,700	207,600*	
48		79.9	225.5	178,300	197,100*	
50		79.4	225.1	166,500	187,500*	
55		78.0	224.0	142,100	166,600*	
60		76.7	222.9	123,200	148,400	
65		75.3	221.5	108,100	130,800	
70		74.0	220.1	95,800	116,300	
75		72.6	218.5	85,500	104,300	
80		71.2	216.8	76,800	94,200	
85		69.9	215.0	69,400	85,500	
90		68.5	213.0	62,900	78,000	
95		67.0	210.9	57,300	71,400	
100		65.6	208.6	52,300	65,600	
105		64.2	206.2	47,900	60,500	
110	62.7	203.6	44,000	55,900		
115	61.2	200.8	40,400	51,700		
120	59.7	197.9	37,200	48,000		
125	58.2	194.8	34,300	44,600		
130	56.6	191.5	31,600	41,400		
135	55.0	188.0	29,200	38,600		
140	53.4	184.3	26,900	36,000		
145	51.7	180.4	24,900	33,500		
150	50.1	176.2	22,900	31,300		
155	48.3	171.8	21,200	29,200		
160	46.5	167.1	19,500	27,300		
165	44.7	162.0	17,900	25,500		
170	42.8	156.7	16,500	23,800		
175	40.8	150.9	15,100	22,200		
180	38.7	144.7	13,800	20,700		
185	36.5	138.1	12,600	19,300		
190	34.2	130.8	11,500	17,900		
195	31.8	122.9	10,400	16,700		
200	29.2	114.2	9,400	15,500		
205	26.3	104.3	8,400	14,400		

MANITOWOC ENGINEERING CO.

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



LIFT CRANE CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

M-250T

BOOM NO. 44A WITH HEAVY LIFT TOP
123,200 LB. COUNTERWEIGHT
RATING OVER REAR OR 360 DEGREES
ON SPREAD OUTRIGGERS

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY 360 DEGREES POUNDS	
				CAPACITY REAR POUNDS	CAPACITY 360 DEGREES POUNDS
230	38	82.9	237.3	225,900	225,900
	40	82.4	237.0	219,700	219,700
	42	81.8	236.7	213,700	213,700
	44	81.3	236.4	206,500	207,900
	46	80.8	236.0	191,200	202,300
	48	80.3	235.7	177,800	196,200
	50	79.8	235.3	166,000	186,600
	55	78.6	234.3	141,600	165,700
	60	77.3	233.2	122,600	147,800
	65	76.0	231.9	107,500	130,200
	70	74.7	230.5	95,200	115,700
	75	73.4	229.0	84,900	103,700
	80	72.1	227.4	76,200	93,600
	85	70.8	225.6	68,700	84,900
	90	69.4	223.8	62,300	77,400
	95	68.1	221.8	56,700	70,800
	100	66.7	219.6	51,700	65,000
	105	65.4	217.3	47,300	59,800
	110	64.0	214.9	43,300	55,200
	115	62.6	212.3	39,800	51,100
	120	61.2	209.5	36,600	47,300
125	59.7	206.6	33,600	43,900	
130	58.3	203.5	31,000	40,800	
135	56.8	200.2	28,500	37,900	
140	55.2	196.8	26,300	35,300	
145	53.7	193.1	24,200	32,900	
150	52.1	189.2	22,300	30,600	
155	50.5	185.1	20,500	28,500	
160	48.9	180.7	18,800	26,600	
165	47.2	176.1	17,300	24,800	
170	45.4	171.2	15,800	23,100	
175	43.6	166.0	14,400	21,500	
180	41.8	160.5	13,200	20,000	
185	39.8	154.5	12,000	18,600	
190	37.8	148.1	10,800	17,300	
195	35.7	141.3	9,700	16,000	
200	33.5	133.8	8,700	14,800	
205	31.1	125.7	7,800	13,700	
210	28.5	116.7	6,800	12,600	
215	25.7	106.6	6,000	11,600	
240	40	82.7	247.1	210,500	210,500
	42	82.2	246.8	204,800	204,800
	44	81.7	246.5	199,300	199,300
	46	81.2	246.2	190,800	194,000
	48	80.7	245.8	177,300	188,800
	50	80.3	245.5	165,500	183,800
	55	79.0	244.5	141,000	164,600
	60	77.8	243.4	122,000	147,200
	65	76.6	242.2	106,900	129,600
	70	75.4	240.9	94,500	115,100
	75	74.1	239.5	84,200	103,100
	80	72.9	237.9	75,500	92,900
	85	71.6	236.3	68,100	84,200
	90	70.3	234.5	61,600	76,700
	95	69.1	232.5	55,900	70,100
	100	67.8	230.5	51,000	64,300
	105	66.5	228.3	46,500	59,100
	110	65.2	226.0	42,600	54,500
	115	63.8	223.5	39,000	50,300
	120	62.5	220.9	35,800	46,500
	125	61.1	218.2	32,900	43,100
130	59.7	215.2	30,200	40,000	
135	58.3	212.2	27,700	37,100	
140	56.9	208.9	25,500	34,500	
145	55.5	205.5	23,400	32,100	
150	54.0	201.8	21,500	29,800	
155	52.5	198.0	19,700	27,700	
160	50.9	194.0	18,000	25,800	
165	49.4	189.7	16,500	24,000	
170	47.8	185.2	15,000	22,300	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY 360 DEGREES POUNDS	
				CAPACITY REAR POUNDS	CAPACITY 360 DEGREES POUNDS
240	175	46.1	180.4	13,700	20,700
	180	44.4	175.3	12,400	19,200
	185	42.6	169.9	11,200	17,800
	190	40.8	164.2	10,000	16,500
	195	38.9	158.0	8,900	15,200
	200	37.0	151.4	7,900	14,000
	205	34.9	144.4	7,000	12,900
	210	32.7	136.7	6,000	11,800
	215	30.4	128.3	5,200	10,800
	220	27.9	119.1	4,300	9,800
	225	25.1	108.8		8,900
250	40	83.0	257.2	202,000	202,000
	42	82.5	256.9	196,700	196,700
	44	82.0	256.6	191,500	191,500
	46	81.6	256.3	186,500	186,500
	48	81.1	256.0	177,200	181,600
	50	80.6	255.6	165,300	176,800
	55	79.5	254.7	140,800	164,400
	60	78.3	253.7	121,900	147,100
	65	77.1	252.5	106,700	129,400
	70	76.0	251.3	94,300	114,900
	75	74.8	249.9	84,000	102,900
	80	73.6	248.4	75,300	92,700
	85	72.4	246.8	67,900	84,000
	90	71.2	245.1	61,400	76,500
	95	69.9	243.3	55,700	69,900
	100	68.7	241.3	50,800	64,100
	105	67.5	239.2	46,300	58,900
	110	66.2	237.0	42,400	54,300
	115	64.9	234.7	38,800	50,100
	120	63.7	232.2	35,600	46,300
	125	62.4	229.6	32,700	42,900
	130	61.1	226.8	30,000	39,800
	135	59.7	223.9	27,500	36,900
140	58.4	220.8	25,300	34,300	
145	57.0	217.6	23,200	31,900	
150	55.6	214.2	21,300	29,600	
155	54.2	210.6	19,500	27,500	
160	52.8	206.8	17,800	25,600	
165	51.3	202.8	16,300	23,800	
170	49.8	198.6	14,800	22,100	
175	48.3	194.1	13,500	20,500	
180	46.7	189.5	12,200	19,000	
185	45.1	184.5	11,000	17,600	
190	43.4	179.3	9,800	16,300	
195	41.7	173.7	8,800	15,000	
200	40.0	167.8	7,700	13,800	
205	38.1	161.4	6,800	12,700	
210	36.2	154.7	5,900	11,600	
215	34.2	147.4	5,000	10,600	
220	32.0	139.5	4,200	9,700	
225	29.7	131.0		8,700	
230	27.3	121.5		7,800	

MANITOWOC ENGINEERING CO.

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LIFT CRANE CAPACITIES

BOOM NO. 44A WITH HEAVY LIFT TOP
123,200 LB. COUNTERWEIGHT
RATING OVER REAR OR 360 DEGREES
ON SPREAD OUTRIGGERS

MEETS
ANSI B30.5
REQUIREMENTS

M-250T

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY 360 DEGREES POUNDS	CAPACITY REAR POUNDS
260	42	82.8	267.0	188,000*	188,000*
	44	82.4	266.7	183,200*	183,200*
	46	81.9	266.4	178,400*	178,400*
	48	81.5	266.1	173,800*	173,800*
	50	81.0	265.8	164,800	169,200*
	55	79.9	264.9	140,300	158,400*
	60	78.8	263.9	121,300	146,100*
	65	77.6	262.8	106,100	128,800
	70	76.5	261.6	93,700	114,300
	75	75.4	260.3	83,400	102,200
	80	74.2	258.9	74,700	92,100
	85	73.1	257.3	67,200	83,300
	90	71.9	255.7	60,700	75,800
	95	70.7	253.9	55,000	69,200
	100	69.6	252.1	50,100	63,300
	105	68.4	250.1	45,600	58,200
	110	67.2	248.0	41,700	53,500
	115	66.0	245.7	38,100	49,400
	120	64.8	243.4	34,900	45,600
	125	63.5	240.9	31,900	42,200
	130	62.3	238.3	29,200	39,100
	135	61.0	235.5	26,800	36,200
	140	59.8	232.6	24,500	33,600
	145	58.5	229.5	22,400	31,100
150	57.1	226.3	20,500	28,900	
155	55.8	222.9	18,700	26,800	
160	54.5	219.3	17,100	24,800	
165	53.1	215.6	15,500	23,000	
170	51.7	211.6	14,000	21,300	
175	50.2	207.5	12,700	19,700	
180	48.8	203.1	11,400	18,200	
185	47.3	198.5	10,200	16,800	
190	45.8	193.7	9,000	15,500	
195	44.2	188.5	8,000	14,200	
200	42.6	183.1	6,900	13,000	
205	40.9	177.4	6,000	11,900	
210	39.1	171.3	5,100	10,800	
215	37.3	164.8	4,200	9,800	
220	35.4	157.9		8,900	
225	33.5	150.4		7,900	
230	31.4	142.3		7,100	
235	29.1	133.5		6,200	
240	26.7	123.8		5,400	
270	44	82.6	276.8	164,000*	164,000*
	46	82.2	276.6	160,200*	160,200*
	48	81.8	276.2	156,500*	156,500*
	50	81.3	275.9	152,800*	152,800*
	55	80.3	275.1	141,000	144,000*
	60	79.2	274.1	122,000	135,600*
	65	78.1	273.0	106,800	127,700*
	70	77.0	271.9	94,400	115,000
	75	75.9	270.6	84,100	102,900
	80	74.8	269.3	75,300	92,700
	85	73.7	267.8	67,800	84,000
	90	72.6	266.2	61,400	76,400
	95	71.5	264.5	55,700	69,800
	100	70.4	262.8	50,700	64,000
	105	69.2	260.8	46,300	58,800
	110	68.1	258.8	42,300	54,200
	115	66.9	256.7	38,700	50,000
	120	65.8	254.4	35,500	46,300
	125	64.6	252.1	32,600	42,800
	130	63.4	249.6	29,900	39,700
	135	62.2	246.9	27,400	36,800
	140	61.0	244.1	25,200	34,200
	145	59.8	241.2	23,100	31,800
	150	58.5	238.2	21,200	29,500
155	57.3	235.0	19,400	27,400	
160	56.0	231.6	17,700	25,500	
165	54.7	228.0	16,100	23,700	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY 360 DEGREES POUNDS	CAPACITY REAR POUNDS
270	170	53.4	224.3	14,700	22,000
	175	52.0	220.4	13,300	20,400
	180	50.6	216.3	12,000	18,900
	185	49.2	212.0	10,800	17,500
	190	47.8	207.5	9,700	16,100
	195	46.3	202.8	8,600	14,900
	200	44.8	197.8	7,600	13,700
	205	43.3	192.5	6,600	12,600
	210	41.7	186.9	5,700	11,500
	215	40.1	181.0	4,800	10,500
	220	38.4	174.7	4,000	9,500
	225	36.6	168.1		8,600
	230	34.8	161.0		7,700
	235	32.8	153.3		6,900
	240	30.8	145.0		6,100
	245	28.6	136.0		5,300
250	26.2	126.1		4,600	
280	44	82.9	286.9	154,400*	154,400*
	46	82.5	286.7	152,600*	152,600*
	48	82.1	286.4	148,700*	148,700*
	50	81.7	286.1	146,300*	146,300*
	55	80.6	285.2	141,500	143,400*
	60	79.6	284.3	122,400	140,300*
	65	78.5	283.3	107,200	129,800
	70	77.5	282.2	94,700	115,300
	75	76.4	280.9	84,400	103,200
	80	75.4	279.6	75,600	93,000
	85	74.3	278.2	68,100	84,300
	90	73.2	276.7	61,600	76,700
	95	72.2	275.1	55,900	70,100
	100	71.1	273.4	50,900	64,200
	105	70.0	271.6	46,500	59,000
	110	68.9	269.6	42,500	54,400
	115	67.8	267.6	38,900	50,200
	120	66.7	265.4	35,700	46,400
	125	65.6	263.1	32,700	43,000
	130	64.4	260.7	30,100	39,900
	135	63.3	258.2	27,600	37,000
	140	62.1	255.6	25,300	34,400
	145	61.0	252.8	23,200	31,900
	150	59.8	249.9	21,300	29,700
155	58.6	246.8	19,500	27,600	
160	57.4	243.6	17,800	25,600	
165	56.1	240.3	16,300	23,800	
170	54.9	236.8	14,800	22,100	
175	53.6	233.1	13,400	20,500	
180	52.3	229.2	12,200	19,000	
185	51.0	225.2	10,900	17,600	
190	49.7	220.9	9,800	16,200	
195	48.3	216.5	8,700	15,000	
200	46.9	211.8	7,700	13,800	
205	45.5	206.9	6,700	12,700	
210	44.0	201.8	5,800	11,600	
215	42.5	196.4	4,900	10,600	
220	40.9	190.6	4,100	9,600	
225	39.3	184.6		8,700	
230	37.6	178.1		7,800	
235	35.9	171.3		7,000	
240	34.1	164.0		6,200	
245	32.2	156.2		5,400	
250	30.2	147.7		4,700	