

MANITOWOC CRANES, INC.

Manitowoc, Wisconsin 54220 U.S.A.



LIFTCRANE BOOM CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

M-250T

**BOOM NO. 44A WITH LONG REACH TOP
177,600 LB. COUNTERWEIGHT
RATING OVER REAR OR 360 DEGREES
ON SPREAD OUTRIGGERS**

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 MAIN BOOM CAPACITY.

WEIGHT OF JIB, ALL LOAD BLOCKS, HOOKS, WEIGHT BALL, SLINGS, HOIST LINES, ETC., BENEATH BOOM AND JIB POINT SHEAVES, IS CONSIDERED PART OF 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. 174247, WIRE ROPE SPECIFICATION CHART NO. 7632-B, 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 LIFTED LOAD AND OTHER CONSIDERATIONS NOTED ON CAPACITY CHART ARE FOLLOWED. WIND WILL HAVE A CONSIDERABLE EFFECT ON A LOAD WITH A LARGE 'SAIL AREA' AND MUST BE COMPENSATED FOR ACCORDINGLY BY REDUCING LOAD RATINGS, REDUCING OPERATING SPEEDS OR BY A COMBINATION OF BOTH. RECOMMEND STOPPING OPERATION 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 HORIZONTAL DISTANCE FROM AXIS OF ROTATION TO CENTER OF VERTICAL HOIST LINE OR LOAD BLOCK. BOOM ANGLE IS ANGLE BETWEEN HORIZONTAL AND CENTERLINE OF BOOM BUTT AND INSERTS, AND IS AN INDICATION OF OPERATING RADIUS. IN ALL CASES, OPERATING RADIUS SHALL GOVERN CAPACITY. BOOM POINT ELEVATION IS VERTICAL DISTANCE FROM GROUND LEVEL TO CENTERLINE OF BOOM POINT SHAFT.

MACHINE EQUIPPED WITH 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 177,600 LB. COUNTERWEIGHT.

WIND LIMITS DURING OPERATION		
MAXIMUM WIND VELOCITY MPH	BOOM LENGTH FEET	JIB LENGTH FEET
30	190 - 210	---
25	220 - 250	---
20	260 - 320	---
25	190 - 210	40 - 80
20	220 - 270	40 - 60
20	220 - 250	80
25	190 - 200	100 - 120
20	210 - 250	100 - 120
15	260 - 270	80 - 100
15	260	120

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED OVER SIDE OR REAR ON SPREAD OUTRIGGERS		DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED	
BOOM LGTH.	JIB NO. 132	JIB LGTH.	JIB NO. 132
320'	---	40'	6,400 LBS.
310'	---	60'	8,200 LBS.
300'	---	80'	10,300 LBS.
290'	---	100'	12,800 LBS.
280'	---	120'	15,300 LBS.
270'	100'		
260'	120'		
LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START. UPPER BOOM POINT CANNOT BE USED ON 320' BOOM.			

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	BOOM CAPACITY 360 DEGREES POUNDS	BOOM CAPACITY REAR POUNDS
190	32	82.7	197.7	210,000*	210,000*
	34	82.1	197.4	210,000*	210,000*
	36	81.5	197.1	210,000*	210,000*
	38	80.8	196.8	210,000*	210,000*
	40	80.2	196.5	210,000*	210,000*
	42	79.6	196.1	210,000*	210,000*
	44	79.0	195.7	210,000*	210,000*
	46	78.4	195.3	210,000*	210,000*
	48	77.8	194.9	210,000*	210,000*
	50	77.2	194.4	210,000*	210,000*
	55	75.6	193.2	188,400	192,300*
	60	74.0	191.8	165,200	174,300*
	65	72.5	190.2	146,700	159,300*
	70	70.9	188.5	131,600	146,700*
	75	69.3	186.7	119,000	135,700*
	80	67.6	184.7	108,300	125,700
	85	66.0	182.5	99,200	115,400
	90	64.3	180.1	91,300	106,400

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY 360 DEGREES POUNDS	BOOM CAPACITY REAR POUNDS
190	95	62.6	177.6	84,400	98,500
	100	60.9	174.8	78,300	91,600
	105	59.2	171.9	72,900	85,500
	110	57.4	168.8	68,100	80,000
	115	55.6	165.4	63,700	75,000
	120	53.7	161.8	59,800	70,600
	125	51.8	158.0	56,200	66,500
	130	49.8	153.8	53,000	62,400*
	135	47.8	149.4	50,000	58,500*
	140	45.8	144.6	47,200	54,900*
	145	43.6	139.5	44,700	51,600*
	150	41.3	134.0	42,300	48,500*
	155	39.0	128.0	40,200	45,600*
	160	36.5	121.4	38,100	42,900*
	165	33.9	114.2	36,200	40,300*
	170	31.0	106.2	34,400	37,900*
	175	27.9	97.2	32,800	35,500*



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BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY 360 DEGREES POUNDS	BOOM CAPACITY REAR POUNDS
200	32	83.0	207.8	210,000*	210,000*
	34	82.5	207.5	210,000*	210,000*
	36	81.9	207.3	210,000*	210,000*
	38	81.3	206.9	210,000*	210,000*
	40	80.7	206.6	210,000*	210,000*
	42	80.1	206.3	210,000*	210,000*
	44	79.6	205.9	210,000*	210,000*
	46	79.0	205.5	210,000*	210,000*
	48	78.4	205.1	210,000*	210,000*
	50	77.8	204.7	210,000*	210,000*
	55	76.3	203.5	187,800	188,800*
	60	74.9	202.2	164,600	171,000*
	65	73.4	200.7	146,100	156,300*
	70	71.9	199.1	130,900	143,800*
	75	70.3	197.3	118,300	133,000*
	80	68.8	195.4	107,600	123,700*
	85	67.3	193.4	98,500	114,700
	90	65.7	191.2	90,600	105,700
	95	64.1	188.8	83,700	97,800
	100	62.5	186.2	77,600	90,900
105	60.9	183.5	72,200	84,800	
110	59.2	180.6	67,400	79,200	
115	57.5	177.5	63,000	74,300	
120	55.8	174.1	59,100	69,800	
125	54.0	170.6	55,500	65,700	
130	52.2	166.8	52,200	62,000	
135	50.4	162.7	49,200	58,400*	
140	48.5	158.4	46,500	54,800*	
145	46.5	153.7	43,900	51,400*	
150	44.5	148.8	41,600	48,300*	
155	42.4	143.4	39,400	45,500*	
160	40.2	137.7	37,300	42,700*	
165	38.0	131.4	35,400	40,200*	
170	35.5	124.6	33,700	37,800*	
175	33.0	117.2	32,000	35,500*	
180	30.2	108.9	30,400	33,300*	
185	27.2	99.7	29,000	31,200*	
210	34	82.8	217.6	210,000*	210,000*
	36	82.3	217.4	210,000*	210,000*
	38	81.7	217.1	210,000*	210,000*
	40	81.2	216.8	210,000*	210,000*
	42	80.6	216.4	210,000*	210,000*
	44	80.1	216.1	210,000*	210,000*
	46	79.5	215.7	210,000*	210,000*
	48	79.0	215.3	210,000*	210,000*
	50	78.4	214.9	205,700*	205,700*
	55	77.0	213.8	185,900*	185,900*
	60	75.6	212.5	164,200	168,300*
	65	74.2	211.1	145,600	153,700*
	70	72.8	209.6	130,500	141,400*
	75	71.3	208.0	117,900	130,800*
	80	69.9	206.2	107,200	121,600*
	85	68.4	204.2	98,100	113,500*
	90	66.9	202.1	90,200	105,300
	95	65.4	199.9	83,300	97,400
	100	63.9	197.5	77,200	90,500
	105	62.4	194.9	71,800	84,300

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY 360 DEGREES POUNDS	BOOM CAPACITY REAR POUNDS	
210	110	60.8	192.2	66,900	78,800	
	115	59.2	189.2	62,600	73,800	
	120	57.6	186.1	58,600	69,400	
	125	56.0	182.8	55,000	65,300	
	130	54.3	179.3	51,800	61,600	
	135	52.6	175.5	48,800	58,200	
	140	50.9	171.5	46,000	55,000*	
	145	49.1	167.3	43,500	51,600*	
	150	47.2	162.8	41,100	48,500*	
	155	45.4	157.9	38,900	45,600*	
	160	43.4	152.8	36,900	42,900*	
	165	41.3	147.2	35,000	40,400*	
	170	39.2	141.2	33,200	38,000*	
	175	37.0	134.8	31,500	35,800*	
	180	34.6	127.8	30,000	33,600*	
	185	32.1	120.1	28,500	31,600*	
	190	29.4	111.6	27,100	29,600*	
	195	26.5	102.0	25,800	27,600*	
	220	36	82.6	227.5	210,000*	210,000*
		38	82.1	227.2	210,000*	210,000*
40		81.6	226.9	210,000*	210,000*	
42		81.1	226.6	210,000*	210,000*	
44		80.5	226.2	208,900*	208,900*	
46		80.0	225.9	207,000*	207,000*	
48		79.5	225.5	204,200*	204,200*	
50		78.9	225.1	199,200*	199,200*	
55		77.6	224.0	182,700*	182,700*	
60		76.3	222.8	163,600	165,300*	
65		74.9	221.5	145,000	150,900*	
70		73.6	220.1	129,800	138,700*	
75		72.2	218.5	117,200	128,200*	
80		70.8	216.8	106,500	119,100*	
85		69.4	215.0	97,400	111,100*	
90		68.0	213.0	89,500	104,100*	
95		66.6	210.9	82,600	96,700	
100		65.2	208.6	76,500	89,700	
105		63.7	206.2	71,000	83,600	
110		62.3	203.6	66,200	78,100	
115	60.8	200.8	61,800	73,100		
120	59.3	197.9	57,900	68,600		
125	57.7	194.8	54,300	64,500		
130	56.2	191.5	51,000	60,800		
135	54.6	188.0	48,000	57,400		
140	53.0	184.3	45,200	54,300		
145	51.3	180.4	42,700	51,300*		
150	49.6	176.2	40,300	48,200*		
155	47.9	171.8	38,100	45,300*		
160	46.1	167.0	36,100	42,600*		
165	44.2	162.0	34,200	40,100*		
170	42.3	156.6	32,400	37,700*		
175	40.3	150.9	30,800	35,500*		
180	38.3	144.7	29,200	33,300*		
185	36.1	138.0	27,700	31,300*		
190	33.8	130.8	26,300	29,400*		
195	31.4	122.9	25,000	27,600*		
200	28.8	114.1	23,800	25,800*		
205	25.9	104.3	22,600	23,900*		



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BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY 360 DEGREES POUNDS	BOOM CAPACITY REAR POUNDS
230	36	83.0	237.5	196,300*	196,300*
	38	82.5	237.3	194,300*	194,300*
	40	81.9	237.0	192,400*	192,400*
	42	81.4	236.7	190,500*	190,500*
	44	80.9	236.4	188,800*	188,800*
	46	80.4	236.0	187,000*	187,000*
	48	79.9	235.7	185,400*	185,400*
	50	79.4	235.3	183,800*	183,800*
	55	78.1	234.3	179,500*	179,500*
	60	76.9	233.1	162,500*	162,500*
	65	75.6	231.9	144,400	148,200*
	70	74.3	230.5	129,200	136,200*
	75	73.0	229.0	116,600	125,800*
	80	71.7	227.4	105,900	116,900*
	85	70.4	225.6	96,800	109,000*
	90	69.0	223.8	88,800	102,000*
	95	67.7	221.7	81,900	95,800*
	100	66.3	219.6	75,800	89,100
	105	65.0	217.3	70,400	82,900
	110	63.6	214.8	65,500	77,400
	115	62.2	212.2	61,200	72,400
120	60.8	209.5	57,200	68,000	
125	59.3	206.6	53,600	63,900	
130	57.8	203.5	50,300	60,200	
135	56.4	200.2	47,300	56,700	
140	54.8	196.7	44,600	53,600	
145	53.3	193.1	42,000	50,700	
150	51.7	189.2	39,700	48,000*	
155	50.1	185.1	37,500	45,100*	
160	48.5	180.7	35,400	42,400*	
165	46.8	176.1	33,500	39,900*	
170	45.0	171.2	31,700	37,500*	
175	43.2	166.0	30,100	35,300*	
180	41.4	160.4	28,500	33,100*	
185	39.4	154.5	27,000	31,100*	
190	37.4	148.1	25,600	29,200*	
195	35.3	141.2	24,300	27,400*	
200	33.0	133.8	23,100	25,700*	
205	30.7	125.6	21,900	24,000*	
210	28.1	116.6	20,800	22,400*	
215	25.3	106.5	19,700	20,600*	
240	38	82.8	247.4	188,100*	188,100*
	40	82.3	247.1	186,300*	186,300*
	42	81.8	246.8	184,600*	184,600*
	44	81.3	246.5	183,000*	183,000*
	46	80.8	246.2	181,400*	181,400*
	48	80.4	245.8	179,900*	179,900*
	50	79.9	245.5	178,000*	178,000*
	55	78.6	244.5	170,700*	170,700*
	60	77.4	243.4	159,700*	159,700*
	65	76.2	242.2	143,800	145,600*
	70	75.0	240.9	128,600	133,600*
	75	73.7	239.5	115,900	123,400*
	80	72.5	237.9	105,200	114,500*
	85	71.2	236.2	96,100	106,700*
	90	69.9	234.5	88,100	99,800*
	95	68.7	232.5	81,200	93,700*
	100	67.4	230.5	75,100	88,100*
	105	66.1	228.3	69,600	82,200*
	110	64.8	226.0	64,800	76,700
	115	63.4	223.5	60,400	71,700
	120	62.1	220.9	56,500	67,200
250	125	60.7	218.1	52,900	63,100
	130	59.3	215.2	49,600	59,400
	135	57.9	212.1	46,600	56,000
	140	56.5	208.9	43,800	52,800
	145	55.1	205.4	41,200	49,900
	150	53.6	201.8	38,900	47,200
	155	52.1	198.0	36,700	44,700*
	160	50.5	193.9	34,600	42,000*
	165	49.0	189.7	32,700	39,400*
	170	47.4	185.1	31,000	37,100*
	175	45.7	180.3	29,300	34,800*
	180	44.0	175.3	27,700	32,700*
	185	42.3	169.9	26,200	30,700*
	190	40.4	164.1	24,800	28,800*
	195	38.6	158.0	23,500	27,000*
	200	36.6	151.4	22,300	25,300*
	205	34.5	144.3	21,100	23,700*
	210	32.3	136.7	20,000	22,100*
	215	30.0	128.3	18,900	20,600*
	220	27.5	119.1	17,900	19,100*
	250	40	82.6	257.2	178,800*
42		82.1	256.9	177,200*	177,200*
44		81.7	256.6	175,700*	175,700*
46		81.2	256.3	174,300*	174,300*
48		80.7	256.0	172,900*	172,900*
50		80.3	255.6	170,100*	170,100*
55		79.1	254.7	163,200*	163,200*
60		77.9	253.7	156,400*	156,400*
65		76.8	252.5	143,600	144,500*
70		75.6	251.2	128,400	132,500*
75		74.4	249.9	115,800	122,300*
80		73.2	248.4	105,000	113,400*
85		72.0	246.8	95,900	105,700*
90		70.8	245.1	87,900	98,800*
95		69.6	243.3	81,000	92,700*
100		68.3	241.3	74,900	87,200*
105		67.1	239.2	69,500	82,000
110		65.8	237.0	64,600	76,500
115		64.6	234.7	60,200	71,500
120		63.3	232.2	56,300	67,000
125		62.0	229.6	52,700	62,900
130	60.7	226.8	49,400	59,200	
135	59.4	223.9	46,400	55,800	
140	58.0	220.8	43,600	52,600	
145	56.7	217.6	41,100	49,700	
150	55.3	214.2	38,700	47,000	
155	53.9	210.6	36,500	44,500	
160	52.4	206.8	34,400	42,200	
165	51.0	202.8	32,500	39,800*	
170	49.5	198.6	30,800	37,400*	
175	47.9	194.1	29,100	35,200*	
180	46.3	189.4	27,500	33,000*	
185	44.7	184.5	26,000	31,000*	
190	43.1	179.2	24,600	29,100*	
195	41.4	173.7	23,300	27,300*	
200	39.6	167.7	22,100	25,600*	
205	37.7	161.4	20,900	24,000*	
210	35.8	154.7	19,800	22,500*	
215	33.8	147.4	18,700	21,000*	
220	31.6	139.5	17,700	19,500*	
225	29.4	130.9	16,700	18,200*	
230	26.9	121.5	15,800	16,800*	



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BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY 360 DEGREES	BOOM CAPACITY REAR
				POUNDS	POUNDS
260	40	82.9	267.3	172,600*	172,600*
	42	82.4	267.0	171,100*	171,100*
	44	82.0	266.7	169,800*	169,800*
	46	81.5	266.4	167,100*	167,100*
	48	81.1	266.1	164,300*	164,300*
	50	80.7	265.8	161,600*	161,600*
	55	79.5	264.9	154,900*	154,900*
	60	78.4	263.9	148,500*	148,500*
	65	77.3	262.8	142,000*	142,000*
	70	76.1	261.6	127,800	130,100*
	75	75.0	260.3	115,100	120,000*
	80	73.9	258.8	104,400	111,200*
	85	72.7	257.3	95,200	103,500*
	90	71.6	255.7	87,300	96,700*
	95	70.4	253.9	80,300	90,600*
	100	69.2	252.1	74,200	85,200*
	105	68.0	250.1	68,700	80,300*
	110	66.8	248.0	63,900	75,700*
	115	65.6	245.7	59,500	70,800
	120	64.4	243.4	55,500	66,300
	125	63.2	240.9	51,900	62,200
	130	61.9	238.2	48,600	58,400
	135	60.7	235.5	45,600	55,000
	140	59.4	232.6	42,800	51,900
145	58.1	229.5	40,300	49,000	
150	56.8	226.3	37,900	46,300	
155	55.5	222.9	35,700	43,800	
160	54.1	219.3	33,700	41,500	
165	52.7	215.5	31,800	39,300*	
170	51.3	211.6	30,000	36,900*	
175	49.9	207.5	28,300	34,600*	
180	48.4	203.1	26,700	32,500*	
185	46.9	198.5	25,300	30,500*	
190	45.4	193.6	23,900	28,600*	
195	43.8	188.5	22,500	26,800*	
200	42.2	183.1	21,300	25,100*	
205	40.5	177.4	20,100	23,500*	
210	38.8	171.3	19,000	22,000*	
215	37.0	164.8	17,900	20,500*	
220	35.1	157.8	16,900	19,100*	
225	33.1	150.4	15,900	17,700*	
230	31.0	142.3	15,000	16,400*	
235	28.8	133.5	14,100	15,100*	
240	26.4	123.8	13,300	13,900*	
270	42	82.7	277.1	154,500*	154,500*
	44	82.3	276.8	153,700*	153,700*
	46	81.9	276.5	152,900*	152,900*
	48	81.4	276.2	151,700*	151,700*
	50	81.0	275.9	150,600*	150,600*
	55	79.9	275.1	144,900*	144,900*
	60	78.8	274.1	139,000*	139,000*
	65	77.8	273.0	133,200*	133,200*
	70	76.7	271.9	127,200	127,600*
	75	75.6	270.6	114,500	117,900*
	80	74.5	269.2	103,700	109,100*
	85	73.4	267.8	94,600	101,500*
	90	72.3	266.2	86,600	94,800*
	95	71.1	264.5	79,600	88,800*
	100	70.0	262.7	73,500	83,400*
	105	68.9	260.8	68,100	78,500*
	110	67.7	258.8	63,200	74,100*
	115	66.6	256.7	58,800	70,000*
	120	65.4	254.4	54,800	65,600
	125	64.2	252.1	51,200	61,500
	130	63.1	249.5	47,900	57,800
	135	61.9	246.9	44,900	54,300
	140	60.6	244.1	42,200	51,200
	145	59.4	241.2	39,600	48,300

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY 360 DEGREES	BOOM CAPACITY REAR	
				POUNDS	POUNDS	
270	150	58.2	238.2	37,200	45,600	
	155	56.9	234.9	35,000	43,100	
	160	55.6	231.6	33,000	40,800	
	165	54.3	228.0	31,100	38,600	
	170	53.0	224.3	29,300	36,500*	
	175	51.7	220.4	27,600	34,200*	
	180	50.3	216.3	26,000	32,100*	
	185	48.9	212.0	24,600	30,100*	
	190	47.5	207.5	23,200	28,200*	
	195	46.0	202.8	21,800	26,400*	
	200	44.5	197.7	20,600	24,700*	
	205	43.0	192.5	19,400	23,100*	
	210	41.4	186.9	18,300	21,600*	
	215	39.7	181.0	17,200	20,100*	
	220	38.0	174.7	16,200	18,700*	
	225	36.3	168.1	15,200	17,300*	
	230	34.4	160.9	14,300	16,000*	
	235	32.5	153.3	13,400	14,800*	
	240	30.4	145.0	12,600	13,600*	
	245	28.2	136.0	11,800	12,400*	
	250	25.9	126.1	11,000	11,300*	
	280	42	83.0	287.2	143,000*	143,000*
		44	82.6	286.9	142,300*	142,300*
		46	82.2	286.6	141,600*	141,600*
48		81.7	286.4	140,900*	140,900*	
50		81.3	286.0	140,200*	140,200*	
55		80.3	285.2	137,300*	137,300*	
60		79.2	284.3	131,700*	131,700*	
65		78.2	283.3	126,200*	126,200*	
70		77.2	282.1	120,700*	120,700*	
75		76.1	280.9	113,800	115,400*	
80		75.0	279.6	103,100	107,600*	
85		74.0	278.2	93,900	100,000*	
90		72.9	276.7	85,900	93,200*	
95		71.8	275.1	78,900	87,200*	
100		70.8	273.4	72,800	81,800*	
105		69.7	271.5	67,300	77,000*	
110		68.6	269.6	62,500	72,600*	
115		67.5	267.6	58,100	68,500*	
120		66.4	265.4	54,100	64,800*	
125		65.2	263.1	50,500	60,700	
130		64.1	260.7	47,200	57,000	
135		62.9	258.2	44,200	53,600	
140		61.8	255.6	41,400	50,400	
145		60.6	252.8	38,800	47,500	
150	59.4	249.9	36,500	44,800		
155	58.2	246.8	34,300	42,300		
160	57.0	243.6	32,200	40,000		
165	55.8	240.3	30,300	37,800		
170	54.5	236.7	28,500	35,800		
175	53.3	233.1	26,800	33,700*		
180	52.0	229.2	25,200	31,600*		
185	50.7	225.2	23,800	29,600*		
190	49.3	220.9	22,400	27,700*		
195	47.9	216.5	21,000	25,900*		
200	46.5	211.8	19,800	24,200*		
205	45.1	206.9	18,600	22,500*		
210	43.6	201.8	17,500	21,000*		
215	42.1	196.3	16,400	19,500*		
220	40.6	190.6	15,400	18,100*		
225	39.0	184.5	14,400	16,800*		
230	37.3	178.1	13,500	15,500*		
235	35.6	171.3	12,600	14,300*		
240	33.8	164.0	11,800	13,100*		
245	31.9	156.1	11,000	11,900*		
250	29.8	147.7	10,200	10,600*		
255	27.7	138.5	9,000*	9,000*		
260	25.4	128.3	7,300*	7,300*		



LIFTCRANE BOOM CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

M-250T

**BOOM NO. 44A WITH LONG REACH TOP
177,600 LB. COUNTERWEIGHT
RATING OVER REAR OR 360 DEGREES
ON SPREAD OUTRIGGERS**

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY 360 DEGREES	BOOM CAPACITY REAR
				POUNDS	POUNDS
290	44	82.8	297.0	132,600*	132,600*
	46	82.4	296.7	131,900*	131,900*
	48	82.0	296.5	131,300*	131,300*
	50	81.6	296.2	130,600*	130,600*
	55	80.6	295.4	128,900*	128,900*
	60	79.6	294.5	125,000*	125,000*
	65	78.6	293.5	119,700*	119,700*
	70	77.6	292.4	114,500*	114,500*
	75	76.6	291.2	109,400*	109,400*
	80	75.6	290.0	102,800	104,500*
	85	74.6	288.6	93,600	99,100*
	90	73.5	287.2	85,600	92,400*
	95	72.5	285.6	78,600	86,500*
	100	71.4	284.0	72,500	81,100*
	105	70.4	282.2	67,000	76,300*
	110	69.3	280.3	62,200	71,900*
	115	68.3	278.4	57,800	67,900*
	120	67.2	276.3	53,800	64,300*
	125	66.1	274.1	50,200	60,400
	130	65.1	271.8	46,900	56,700
135	64.0	269.4	43,900	53,300	
140	62.8	266.9	41,100	50,100	
145	61.7	264.2	38,500	47,200	
150	60.6	261.5	36,100	44,400*	
155	59.5	258.5	33,900	41,400*	
160	58.3	255.5	31,900	38,700*	
165	57.1	252.3	30,000	36,200*	
170	55.9	249.0	28,200	33,800*	
175	54.7	245.5	26,500	31,600*	
180	53.5	241.8	24,900	29,500*	
185	52.3	238.0	23,400	27,500*	
190	51.0	234.0	22,000	25,600*	
195	49.7	229.8	20,700	23,800*	
200	48.4	225.4	19,500	22,200*	
205	47.1	220.9	18,300	20,600*	
210	45.7	216.1	17,200	19,100*	
215	44.3	211.0	16,100	17,600*	
220	42.8	205.7	15,100	16,200*	
225	41.4	200.1	14,100	14,900*	
230	39.8	194.2	13,200	13,700*	
235	38.3	188.0	12,300	12,500*	
240	36.6	181.4	11,300*	11,300*	
245	34.9	174.4	10,200*	10,200*	
250	33.2	167.0	9,100*	9,100*	
255	31.3	158.9	8,100*	8,100*	
260	29.3	150.3	7,100*	7,100*	
265	27.2	140.9	6,100*	6,100*	
300	46	82.7	306.8	119,900*	119,900*
	48	82.3	306.6	119,200*	119,200*
	50	81.9	306.3	118,100*	118,100*
	55	80.9	305.5	115,200*	115,200*
	60	80.0	304.6	111,300*	111,300*
	65	79.0	303.7	107,400*	107,400*
	70	78.0	302.6	103,800*	103,800*
	75	77.0	301.5	100,400*	100,400*
	80	76.1	300.3	97,400*	97,400*
	85	75.1	299.0	92,900	94,500*
	90	74.1	297.6	84,900	91,100*
	95	73.1	296.1	77,900	85,100*
	100	72.1	294.5	71,800	79,700*
	105	71.1	292.8	66,300	74,900*
	110	70.1	291.0	61,400	70,500*
	115	69.0	289.1	57,000	66,500*
	120	68.0	287.1	53,000	62,800*
	125	67.0	285.0	49,400	59,400*
	130	65.9	282.8	46,100	55,900
	135	64.9	280.5	43,100	52,500
140	63.8	278.1	40,300	49,300	
145	62.8	275.6	37,700	46,400	
150	61.7	272.9	35,300	43,700	
155	60.6	270.1	33,100	41,200	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY 360 DEGREES	BOOM CAPACITY REAR
				POUNDS	POUNDS
300	160	59.5	267.2	31,100	38,700*
	165	58.4	264.2	29,200	36,100*
	170	57.2	261.0	27,400	33,700*
	175	56.1	257.7	25,700	31,400*
	180	54.9	254.2	24,100	29,300*
	185	53.7	250.6	22,600	27,300*
	190	52.5	246.8	21,200	25,400*
	195	51.3	242.8	19,900	23,600*
	200	50.1	238.7	18,600	21,900*
	205	48.8	234.4	17,500	20,300*
	210	47.5	229.9	16,300	18,700*
	215	46.2	225.1	15,300	17,300*
	220	44.9	220.2	14,200	15,900*
	225	43.5	215.0	13,300	14,600*
	230	42.1	209.6	12,400	13,300*
	235	40.6	203.8	11,500	12,100*
	240	39.1	197.8	10,600	10,900*
	245	37.6	191.4	9,800*	9,800*
	250	36.0	184.7	8,700*	8,700*
	255	34.3	177.5	7,700*	7,700*
260	32.6	169.9	6,700*	6,700*	
265	30.7	161.7	5,700*	5,700*	
270	28.8	152.9	4,800*	4,800*	
310	46	82.9	316.9	108,000*	108,000*
	48	82.5	316.7	107,500*	107,500*
	50	82.2	316.4	105,900*	105,900*
	55	81.2	315.6	101,600*	101,600*
	60	80.3	314.8	97,800*	97,800*
	65	79.4	313.9	94,300*	94,300*
	70	78.4	312.9	91,200*	91,200*
	75	77.5	311.8	88,300*	88,300*
	80	76.5	310.6	85,600*	85,600*
	85	75.6	309.3	83,100*	83,100*
	90	74.6	308.0	80,800*	80,800*
	95	73.7	306.5	77,200	78,600*
	100	72.7	305.0	71,100	76,500*
	105	71.7	303.4	65,600	73,200*
	110	70.7	301.7	60,700	68,800*
	115	69.8	299.8	56,300	64,900*
	120	68.8	297.9	52,300	61,200*
	125	67.8	295.9	48,700	57,900*
	130	66.8	293.8	45,400	54,800*
	135	65.8	291.6	42,400	51,800
140	64.7	289.2	39,600	48,600	
145	63.7	286.8	37,000	45,700	
150	62.7	284.2	34,600	43,000	
155	61.6	281.6	32,400	40,500	
160	60.6	278.8	30,300	37,900*	
165	59.5	275.9	28,400	35,300*	
170	58.4	272.8	26,600	32,900*	
175	57.3	269.7	24,900	30,600*	
180	56.2	266.3	23,400	28,500*	
185	55.1	262.9	21,900	26,500*	
190	53.9	259.3	20,500	24,600*	
195	52.8	255.5	19,200	22,800*	
200	51.6	251.6	17,900	21,100*	
205	50.4	247.6	16,700	19,500*	
210	49.2	243.3	15,600	18,000*	
215	48.0	238.9	14,500	16,500*	
220	46.7	234.2	13,500	15,100*	
225	45.4	229.3	12,500	13,800*	
230	44.1	224.3	11,600	12,500*	
235	42.8	218.9	10,700	11,300*	
240	41.4	213.4	9,900	10,200*	
245	39.9	207.5	9,100*	9,100*	
250	38.5	201.3	8,000*	8,000*	
255	37.0	194.8	7,000*	7,000*	
260	35.4	187.9	6,000*	6,000*	
265	33.7	180.6	5,000*	5,000*	
270	32.0	172.7	4,100*	4,100*	

MANITOWOC CRANES, INC.

Manitowoc, Wisconsin 54220 U.S.A.



LIFTCRANE BOOM CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

M-250T

**BOOM NO. 44A WITH LONG REACH TOP
177,600 LB. COUNTERWEIGHT
RATING OVER REAR OR 360 DEGREES
ON SPREAD OUTRIGGERS**

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM	BOOM
				CAPACITY 360 DEGREES POUNDS	CAPACITY REAR POUNDS
3 2 0	48	82.8	326.7	99,700*	99,700*
	50	82.4	326.5	98,100*	98,100*
	55	81.5	325.7	94,500*	94,500*
	60	80.6	324.9	90,500*	90,500*
	65	79.7	324.1	86,900*	86,900*
	70	78.8	323.1	83,600*	83,600*
	75	77.9	322.0	80,700*	80,700*
	80	77.0	320.9	77,900*	77,900*
	85	76.0	319.7	75,300*	75,300*
	90	75.1	318.4	72,900*	72,900*
	95	74.2	317.0	70,700*	70,700*
	100	73.2	315.5	68,600*	68,600*
	105	72.3	313.9	65,100	66,600*
	110	71.4	312.2	60,200	64,700*
	115	70.4	310.5	55,800	63,000*
	120	69.5	308.6	51,800	59,900*
	125	68.5	306.7	48,200	56,600*
	130	67.5	304.7	44,900	53,500*
	135	66.6	302.5	41,800	50,700*
	140	65.6	300.3	39,000	47,900*
	145	64.6	297.9	36,500	45,100
	150	63.6	295.5	34,100	42,400
	155	62.6	292.9	31,900	39,600*
	160	61.6	290.2	29,800	36,900*
	165	60.5	287.4	27,900	34,300*
	170	59.5	284.5	26,100	31,900*
	175	58.5	281.5	24,400	29,600*
	180	57.4	278.3	22,800	27,500*
	185	56.3	275.0	21,300	25,500*
	190	55.2	271.6	19,900	23,600*
195	54.1	268.0	18,600	21,800*	
200	53.0	264.3	17,400	20,100*	
205	51.9	260.4	16,200	18,500*	
210	50.7	256.4	15,000	17,000*	
215	49.6	252.2	14,000	15,600*	
220	48.4	247.8	12,900	14,200*	
225	47.2	243.2	12,000	12,900*	
230	45.9	238.5	11,000	11,700*	
235	44.7	233.5	10,200	10,500*	
240	43.4	228.3	9,300*	9,300*	
245	42.0	222.8	8,200*	8,200*	
250	40.7	217.1	7,200*	7,200*	
255	39.3	211.1	6,200*	6,200*	
260	37.8	204.7	5,200*	5,200*	
265	36.3	198.1	4,300*	4,300*	