

MANITOWOC CRANES, INC.

Manitowoc, Wisconsin 54220 U.S.A.



M-250T

LIFTCRANE BOOM CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

**BOOM NO. 44A WITH LONG REACH TOP
123,200 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 123,200 LB. COUNTERWEIGHT.

WIND LIMITS DURING OPERATION		
WIND VELOCITY	BOOM LENGTH	JIB LENGTH
MPH	FEET	FEET
30	190 - 210	---
25	220 - 250	---
20	260 - 310	---
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	80

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
310'	---	290'	---	40'	6,400 LBS.
300'	---	280'	---	60'	8,200 LBS.
290'	---	270'	---	80'	10,300 LBS.
280'	---	260'	40'	100'	12,800 LBS.
270'	60'	250'	80'	120'	15,300 LBS.
260'	80'	240'	100'		
250'	120'	230'	120'		
LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START. UPPER BOOM POINT CANNOT BE USED ON 310' BOOM.					

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

LIFTCRANE BOOM CAPACITIES

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**BOOM NO. 44A WITH LONG REACH 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	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	197,100	210,000*	
	48	77.8	194.9	183,900	210,000*	
	50	77.2	194.4	172,200	204,700	
	55	75.6	193.2	148,200	176,500	
	60	74.0	191.8	129,500	154,700	
	65	72.5	190.2	114,600	137,200	
	70	70.9	188.5	102,400	123,000	
	75	69.3	186.7	92,200	111,100	
	80	67.6	184.7	83,700	101,100	
	85	66.0	182.5	76,300	92,500	
	90	64.3	180.1	70,000	85,000	
	95	62.6	177.6	64,400	78,500	
	100	60.9	174.8	59,500	72,800	
200	105	59.2	171.9	55,200	67,700	
	110	57.4	168.8	51,300	63,100	
	115	55.6	165.4	47,700	59,000	
	120	53.7	161.8	44,600	55,300	
	125	51.8	158.0	41,700	52,000	
	130	49.8	153.8	39,100	48,900	
	135	47.8	149.4	36,700	46,100	
	140	45.8	144.6	34,400	43,500	
	145	43.6	139.5	32,400	41,100	
	150	41.3	134.0	30,500	38,800	
	155	39.0	128.0	28,700	36,800	
	160	36.5	121.4	27,100	34,900	
	165	33.9	114.2	25,600	33,100	
	170	31.0	106.2	24,100	31,400	
	175	27.9	97.2	22,800	29,800	
	210	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	196,700	210,000*	
48		78.4	205.1	183,400	210,000*	
50		77.8	204.7	171,700	204,200	
55		76.3	203.5	147,600	176,000	
60		74.9	202.2	128,900	154,100	
65		73.4	200.7	113,900	136,600	
70		71.9	199.1	101,700	122,300	
75		70.3	197.3	91,600	110,400	
80		68.8	195.4	83,000	100,400	
85		67.3	193.4	75,600	91,800	
90		65.7	191.2	69,300	84,300	
95		64.1	188.8	63,700	77,800	
100		62.5	186.2	58,800	72,100	

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ON SPREAD OUTRIGGERS**

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY 360 DEGREES POUNDS	BOOM CAPACITY REAR POUNDS
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	195,800	207,000*
	48	79.5	225.5	182,500	204,200*
	50	78.9	225.1	170,800	199,200*
	55	77.6	224.0	146,600	175,000
	60	76.3	222.8	127,900	153,100
	65	74.9	221.5	112,900	135,600
	70	73.6	220.1	100,700	121,300
	75	72.2	218.5	90,500	109,300
	80	70.8	216.8	81,900	99,300
	85	69.4	215.0	74,500	90,700
	90	68.0	213.0	68,100	83,200
	95	66.6	210.9	62,500	76,700
	100	65.2	208.6	57,600	70,900
	105	63.7	206.2	53,200	65,800
	110	62.3	203.6	49,300	61,200
230	115	60.8	200.8	45,800	57,100
	120	59.3	197.9	42,600	53,400
	125	57.7	194.8	39,700	50,000
	130	56.2	191.5	37,100	46,900
	135	54.6	188.0	34,700	44,100
	140	53.0	184.3	32,500	41,500
	145	51.3	180.4	30,400	39,100
	150	49.6	176.2	28,500	36,800
	155	47.9	171.8	26,700	34,800
	160	46.1	167.0	25,100	32,900
	165	44.2	162.0	23,500	31,100
	170	42.3	156.6	22,100	29,400
	175	40.3	150.9	20,800	27,800
	180	38.3	144.7	19,500	26,300
	185	36.1	138.0	18,300	24,900
	190	33.8	130.8	17,200	23,600
	195	31.4	122.9	16,100	22,400
	200	28.8	114.1	15,100	21,200
	205	25.9	104.3	14,200	20,100
240	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	182,000	185,400*
	50	79.4	235.3	170,300	183,800*
	55	78.1	234.3	146,100	174,500
	60	76.9	233.1	127,300	152,500
	65	75.6	231.9	112,300	135,000
	70	74.3	230.5	100,100	120,700
	75	73.0	229.0	89,900	108,700
	80	71.7	227.4	81,300	98,700
	85	70.4	225.6	73,900	90,000
	90	69.0	223.8	67,500	82,600
	95	67.7	221.7	61,900	76,000
	100	66.3	219.6	57,000	70,300
	105	65.0	217.3	52,600	65,100
	110	63.6	214.8	48,700	60,600
250	115	62.2	212.2	45,200	56,400
	120	60.8	209.5	42,000	52,700
230	125	59.3	206.6	39,100	49,300
	130	57.8	203.5	36,400	46,200
	135	56.4	200.2	34,000	43,400
	140	54.8	196.7	31,800	40,800
	145	53.3	193.1	29,700	38,400
	150	51.7	189.2	27,800	36,200
	155	50.1	185.1	26,100	34,100
	160	48.5	180.7	24,400	32,200
	165	46.8	176.1	22,900	30,400
	170	45.0	171.2	21,400	28,700
240	175	43.2	166.0	20,100	27,100
	180	41.4	160.4	18,800	25,700
	185	39.4	154.5	17,600	24,300
	190	37.4	148.1	16,500	22,900
	195	35.3	141.2	15,400	21,700
	200	33.0	133.8	14,400	20,500
	205	30.7	125.6	13,500	19,400
	210	28.1	116.6	12,600	18,400
	215	25.3	106.5	11,700	17,400
250	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	169,800	178,000*
	55	78.6	244.5	145,500	170,700*
	60	77.4	243.4	126,700	151,900
	65	76.2	242.2	111,700	134,400
260	70	75.0	240.9	99,400	120,000
	75	73.7	239.5	89,200	108,100
	80	72.5	237.9	80,600	98,000
	85	71.2	236.2	73,200	89,300
	90	69.9	234.5	66,800	81,900
	95	68.7	232.5	61,200	75,300
	100	67.4	230.5	56,200	69,500
	105	66.1	228.3	51,900	64,400
	110	64.8	226.0	47,900	59,800
	115	63.4	223.5	44,400	55,700
270	120	62.1	220.9	41,200	52,000
	125	60.7	218.1	38,300	48,600
	130	59.3	215.2	35,700	45,500
	135	57.9	212.1	33,200	42,600
	140	56.5	208.9	31,000	40,000
	145	55.1	205.4	28,900	37,600
	150	53.6	201.8	27,000	35,400
	155	52.1	198.0	25,300	33,300
	160	50.5	193.9	23,600	31,400
	165	49.0	189.7	22,100	29,600
280	170	47.4	185.1	20,600	27,900
	175	45.7	180.3	19,300	26,300
	180	44.0	175.3	18,000	24,900
	185	42.3	169.9	16,800	23,500
	190	40.4	164.1	15,700	22,100
	195	38.6	158.0	14,600	20,900
	200	36.6	151.4	13,600	19,700
	205	34.5	144.3	12,700	18,600
	210	32.3	136.7	11,800	17,600
	215	30.0	128.3	10,900	16,600
290	220	27.5	119.1	10,100	15,600

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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 POUNDS	BOOM CAPACITY REAR POUNDS
250	40	82.6	257.2	178,800*	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	169,600	170,100*
	55	79.1	254.7	145,300	163,200*
	60	77.9	253.7	126,500	151,700
	65	76.8	252.5	111,500	134,200
	70	75.6	251.2	99,200	119,800
	75	74.4	249.9	89,000	107,900
	80	73.2	248.4	80,400	97,800
	85	72.0	246.8	73,000	89,100
	90	70.8	245.1	66,600	81,700
	95	69.6	243.3	61,000	75,100
	100	68.3	241.3	56,100	69,300
	105	67.1	239.2	51,700	64,200
	110	65.8	237.0	47,700	59,600
	115	64.6	234.7	44,200	55,500
	120	63.3	232.2	41,000	51,800
	125	62.0	229.6	38,100	48,400
	130	60.7	226.8	35,500	45,300
	135	59.4	223.9	33,000	42,500
	140	58.0	220.8	30,800	39,800
	145	56.7	217.6	28,800	37,400
260	150	55.3	214.2	26,800	35,200
	155	53.9	210.6	25,100	33,100
	160	52.4	206.8	23,400	31,200
	165	51.0	202.8	21,900	29,400
	170	49.5	198.6	20,500	27,700
	175	47.9	194.1	19,100	26,100
	180	46.3	189.4	17,800	24,700
	185	44.7	184.5	16,600	23,300
	190	43.1	179.2	15,500	22,000
	195	41.4	173.7	14,500	20,700
	200	39.6	167.7	13,400	19,500
	205	37.7	161.4	12,500	18,400
	210	35.8	154.7	11,600	17,400
	215	33.8	147.4	10,700	16,400
	220	31.6	139.5	9,900	15,400
	225	29.4	130.9	9,100	14,500
	230	26.9	121.5	8,400	13,600
	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	144,800	154,900*
	60	78.4	263.9	125,900	148,500*
	65	77.3	262.8	110,900	133,600
	70	76.1	261.6	98,600	119,200
	75	75.0	260.3	88,400	107,200
	80	73.9	258.8	79,700	97,100
	85	72.7	257.3	72,300	88,500
	90	71.6	255.7	65,900	81,000
	95	70.4	253.9	60,300	74,400
	100	69.2	252.1	55,300	68,600
	105	68.0	250.1	50,900	63,500
	110	66.8	248.0	47,000	58,900
	115	65.6	245.7	43,500	54,800
	120	64.4	243.4	40,300	51,000
	125	63.2	240.9	37,400	47,600
	130	61.9	238.2	34,700	44,500
	135	60.7	235.5	32,300	41,700
	140	59.4	232.6	30,100	39,100
270	145	58.2	232.2	28,800	37,400
	150	56.9	234.9	23,600	31,700
	155	55.6	231.6	22,000	29,700
	160	54.3	228.0	20,400	27,900
	165	53.0	224.3	19,000	26,300
	170	51.7	220.4	17,600	24,700
	175	50.3	216.3	16,400	23,200
	180	48.9	212.0	15,200	21,800
	185	47.5	207.5	14,000	20,500
	190	46.0	202.8	13,000	19,200
	195	44.5	197.7	12,000	18,000
	200	43.0	192.5	11,000	16,900
	205	41.4	186.9	10,100	15,900
	210	39.7	181.0	9,200	14,900
	215	38.0	174.7	8,400	13,900
	220	36.3	168.1	7,600	13,000
	225	34.4	160.9	6,900	12,100
	230	32.5	153.3	6,200	11,300
	235	30.4	145.0	5,500	10,500
	240	28.2	136.0	4,900	9,800
	245	25.9	126.1	4,200	9,000
	250	25.9	126.1	4,200	9,000

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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
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	124,700	131,700*
	65	78.2	283.3	109,700	126,200*
	70	77.2	282.1	97,300	117,900
	75	76.1	280.9	87,100	105,900
	80	75.0	279.6	78,400	95,800
	85	74.0	278.2	71,000	87,100
	90	72.9	276.7	64,500	79,600
	95	71.8	275.1	58,900	73,000
	100	70.8	273.4	54,000	67,200
	105	69.7	271.5	49,600	62,100
	110	68.6	269.6	45,600	57,500
	115	67.5	267.6	42,100	53,400
	120	66.4	265.4	38,900	49,600
	125	65.2	263.1	35,900	46,200
	130	64.1	260.7	33,300	43,100
	135	62.9	258.2	30,800	40,200
	140	61.8	255.6	28,600	37,600
	145	60.6	252.8	26,500	35,200
	150	59.4	249.9	24,600	33,000
	155	58.2	246.8	22,800	30,900
	160	57.0	243.6	21,200	29,000
	165	55.8	240.3	19,600	27,200
	170	54.5	236.7	18,200	25,500
	175	53.3	233.1	16,800	23,900
	180	52.0	229.2	15,600	22,400
	185	50.7	225.2	14,400	21,000
	190	49.3	220.9	13,200	19,700
	195	47.9	216.5	12,200	18,400
	200	46.5	211.8	11,200	17,300
	205	45.1	206.9	10,200	16,100
	210	43.6	201.8	9,300	15,100
	215	42.1	196.3	8,400	14,100
	220	40.6	190.6	7,600	13,100
	225	39.0	184.5	6,800	12,200
	230	37.3	178.1	6,100	11,300
	235	35.6	171.3	5,400	10,500
	240	33.8	164.0	4,700	9,700
	245	31.9	156.1	4,000	8,900
	250	29.8	147.7		8,200
	255	27.7	138.5		7,500
	260	25.4	128.3		6,900

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY 360 DEGREES POUNDS	BOOM CAPACITY REAR 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	124,500	125,000*
	65	78.6	293.5	109,400	119,700*
	70	77.6	292.4	97,100	114,500*
	75	76.6	291.2	86,800	105,700
	80	75.6	290.0	78,100	95,500
	85	74.6	288.6	70,700	86,900
	90	73.5	287.2	64,300	79,300
	95	72.5	285.6	58,600	72,800
	100	71.4	284.0	53,700	67,000
	105	70.4	282.2	49,300	61,800
	110	69.3	280.3	45,300	57,200
	115	68.3	278.4	41,800	53,100
	120	67.2	276.3	38,600	49,300
	125	66.1	274.1	35,600	45,900
	130	65.1	271.8	33,000	42,800
	135	64.0	269.4	30,500	39,900
	140	62.8	266.9	28,300	37,300
	145	61.7	264.2	26,200	34,900
	150	60.6	261.5	24,300	32,700
	155	59.5	258.5	22,500	30,600
	160	58.3	255.5	20,900	28,600
	165	57.1	252.3	19,300	26,800
	170	55.9	249.0	17,900	25,100
	175	54.7	245.5	16,500	23,600
	180	53.5	241.8	15,200	22,100
	185	52.3	238.0	14,000	20,700
	190	51.0	234.0	12,900	19,400
	195	49.7	229.8	11,800	18,100
	200	48.4	225.4	10,800	16,900
	205	47.1	220.9	9,900	15,800
	210	45.7	216.1	9,000	14,700
	215	44.3	211.0	8,100	13,700
	220	42.8	205.7	7,300	12,800
	225	41.4	200.1	6,500	11,900
	230	39.8	194.2	5,800	11,000
	235	38.3	188.0	5,000	10,200
	240	36.6	181.4	4,400	9,400
	245	34.9	174.4		8,600
	250	33.2	167.0		7,900
	255	31.3	158.9		7,200
	260	29.3	150.3		6,500
	265	27.2	140.9		5,900

MANITOWOC CRANES, INC.

Manitowoc, Wisconsin 54220 U.S.A.



LIFT CRANE BOOM CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

M-250T

BOOM NO. 44A WITH LONG REACH 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	BOOM CAPACITY 360 DEGREES POUNDS	BOOM CAPACITY REAR POUNDS
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	96,400	103,800*
	75	77.0	301.5	86,100	100,400*
	80	76.1	300.3	77,400	94,900
	85	75.1	299.0	70,000	86,200
	90	74.1	297.6	63,500	78,600
	95	73.1	296.1	57,900	72,000
	100	72.1	294.5	52,900	66,200
	105	71.1	292.8	48,500	61,100
	110	70.1	291.0	44,600	56,400
	115	69.0	289.1	41,000	52,300
	120	68.0	287.1	37,800	48,500
	125	67.0	285.0	34,900	45,100
	130	65.9	282.8	32,200	42,000
	135	64.9	280.5	29,800	39,200
	140	63.8	278.1	27,500	36,500
	145	62.8	275.6	25,400	34,100
	150	61.7	272.9	23,500	31,900
	155	60.6	270.1	21,700	29,800
	160	59.5	267.2	20,100	27,800
	165	58.4	264.2	18,500	26,000
	170	57.2	261.0	17,100	24,300
	175	56.1	257.7	15,700	22,800
	180	54.9	254.2	14,400	21,300
	185	53.7	250.6	13,200	19,900
	190	52.5	246.8	12,100	18,500
	195	51.3	242.8	11,000	17,300
	200	50.1	238.7	10,000	16,100
	205	48.8	234.4	9,100	15,000
	210	47.5	229.9	8,100	13,900
	215	46.2	225.1	7,300	12,900
	220	44.9	220.2	6,500	12,000
	225	43.5	215.0	5,700	11,000
	230	42.1	209.6	4,900	10,200
	235	40.6	203.8	4,200	9,300
	240	39.1	197.8		8,500
	245	37.6	191.4		7,800
	250	36.0	184.7		7,100
	255	34.3	177.5		6,400
	260	32.6	169.9		5,700
	265	30.7	161.7		5,000
	270	28.8	152.9		4,400

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY 360 DEGREES POUNDS	BOOM CAPACITY REAR POUNDS
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	85,500	88,300*
	80	76.5	310.6	76,800	85,600*
	85	75.6	309.3	69,300	83,100*
	90	74.6	308.0	62,900	77,900
	95	73.7	306.5	57,200	71,300
	100	72.7	305.0	52,200	65,500
	105	71.7	303.4	47,800	60,400
	110	70.7	301.7	43,900	55,700
	115	69.8	299.8	40,300	51,600
	120	68.8	297.9	37,100	47,800
	125	67.8	295.9	34,100	44,400
	130	66.8	293.8	31,500	41,300
	135	65.8	291.6	29,000	38,400
	140	64.7	289.2	26,800	35,800
	145	63.7	286.8	24,700	33,400
	150	62.7	284.2	22,800	31,100
	155	61.6	281.6	21,000	29,000
	160	60.6	278.8	19,300	27,100
	165	59.5	275.9	17,800	25,300
	170	58.4	272.8	16,300	23,600
	175	57.3	269.7	15,000	22,000
	180	56.2	266.3	13,700	20,500
	185	55.1	262.9	12,500	19,100
	190	53.9	259.3	11,300	17,800
	195	52.8	255.5	10,300	16,500
	200	51.6	251.6	9,300	15,400
	205	50.4	247.6	8,300	14,200
	210	49.2	243.3	7,400	13,200
	215	48.0	238.9	6,500	12,200
	220	46.7	234.2	5,700	11,200
	225	45.4	229.3	4,900	10,300
	230	44.1	224.3	4,200	9,400
	235	42.8	218.9		8,600
	240	41.4	213.4		7,800
	245	39.9	207.5		7,000
	250	38.5	201.3		6,300
	255	37.0	194.8		5,600
	260	35.4	187.9		4,900
	265	33.7	180.6		4,300