

MANITOWOC ENGINEERING CO.

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



LIFTCRANE CAPACITIES

BOOM NO. 44 WITH LONG REACH TOP
167,000 LB. COUNTERWEIGHT
360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS

M-250

CAPACITIES FOR VARIOUS BOOM LENGTHS AND OPERATING RADII ARE FOR FREELY SUSPENDED LOADS AND DO NOT EXCEED 75% OF A STATIC TIPPING LOAD. 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.

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. 172612 AND WIRE ROPE SPECIFICATION CHART NO. 7581-B. 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, AND 167,000 LB. COUNTERWEIGHT.

WIND LIMITS DURING OPERATION		
MAXIMUM WIND VELOCITY	BOOM LENGTH	JIB LENGTH
MPH	FEET	FEET
30	190 - 210	---
25	220 - 250	---
20	260 - 330	---
25	190 - 210	40 - 80
20	220 - 280	40 - 60
20	220 - 250	80
15	260 - 270	80
25	190 - 200	100 - 120
20	210 - 250	100 - 120
15	260	100 - 120

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED						DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED	
OVER FRONT OF BLOCKED CRAWLERS		OVER REAR OF BLOCKED CRAWLERS		OVER SIDE OF CRAWLERS			
BOOM LGTH.	JIB NO. 132	BOOM LGTH.	JIB NO. 132	BOOM LGTH.	JIB NO. 132	JIB LGTH.	JIB NO. 132
330'	---	310'	---	290'	---	40'	6,400 LBS.
320'	---	300'	---	280'	---	60'	8,200 LBS.
310'	---	290'	---	270'	---	80'	10,300 LBS.
300'	---	280'	40'	260'	60'	100'	12,800 LBS.
290'	---	270'	60'	250'	80'	120'	15,300 LBS.
280'	60'	260'	100'	240'	100'		
270'	80'	250'	120'	230'	120'		
260'	120'						
LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START. UPPER BOOM POINT CANNOT BE USED ON 330' BOOM.							

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

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360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS

M-250

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
190	32	82.7	196.3	210,000*
	34	82.1	196.0	210,000*
	36	81.5	195.7	210,000*
	38	80.8	195.4	210,000*
	40	80.2	195.0	202,100
	42	79.6	194.7	187,900
	44	79.0	194.3	175,400
	46	78.4	193.9	164,300
	48	77.8	193.4	154,500
	50	77.2	193.0	145,700
	55	75.6	191.7	127,100
	60	74.0	190.3	112,400
	65	72.5	188.8	100,400
	70	70.9	187.1	90,500
	75	69.3	185.2	82,100
	80	67.6	183.2	75,000
	85	66.0	181.0	68,800
	90	64.3	178.7	63,400
	95	62.6	176.1	58,600
	100	60.9	173.4	54,400
200	105	59.2	170.5	50,700
	110	57.4	167.3	47,300
	115	55.6	164.0	44,200
	120	53.7	160.4	41,400
	125	51.8	156.5	38,900
	130	49.8	152.4	36,600
	135	47.8	148.0	34,500
	140	45.8	143.2	32,500
	145	43.6	138.1	30,700
	150	41.3	132.5	29,000
	155	39.0	126.5	27,400
	160	36.5	120.0	25,900
	165	33.9	112.8	24,600
	170	31.0	104.8	23,300
	175	27.9	95.8	22,100
210	32	83.0	206.4	210,000*
	34	82.5	206.1	210,000*
	36	81.9	205.8	210,000*
	38	81.3	205.5	210,000*
	40	80.7	205.2	201,600
	42	80.1	204.8	187,300
	44	79.6	204.5	174,800
	46	79.0	204.1	163,800
	48	78.4	203.7	153,900
	50	77.8	203.2	145,100
	55	76.3	202.0	126,500
	60	74.9	200.7	111,800
	65	73.4	199.3	99,800
	70	71.9	197.7	89,900
	75	70.3	195.9	81,500
	80	68.8	194.0	74,300
	85	67.3	192.0	68,100
	90	65.7	189.7	62,700
	95	64.1	187.4	58,000
	100	62.5	184.8	53,700
220	105	60.9	182.1	50,000
	110	59.2	179.1	46,600
	115	57.5	176.0	43,500
	120	55.8	172.7	40,700
	125	54.0	169.1	38,200
	130	52.2	165.3	35,900
	135	50.4	161.3	33,800
	140	48.5	156.9	31,800
	145	46.5	152.3	30,000
230	150	44.5	147.3	28,300
	155	42.4	142.0	26,700
	160	40.2	136.2	25,200
	165	38.0	130.0	23,900
	170	35.5	123.2	22,600
	175	33.0	115.8	21,400
	180	30.2	107.5	20,200
	185	27.2	98.2	19,200
	34	82.8	216.2	210,000*
	36	82.3	215.9	210,000*
	38	81.7	215.6	210,000*
	40	81.2	215.3	201,400
	42	80.6	215.0	187,100
	44	80.1	214.6	174,600
	46	79.5	214.3	163,500
	48	79.0	213.9	153,700
	50	78.4	213.5	144,800
	55	77.0	212.3	126,300
	60	75.6	211.1	111,600
	65	74.2	209.7	99,600
	70	72.8	208.2	89,600
	75	71.3	206.5	81,200
200	80	69.9	204.7	74,100
	85	68.4	202.8	67,900
	90	66.9	200.7	62,500
	95	65.4	198.4	57,700
	100	63.9	196.0	53,500
	105	62.4	193.5	49,700
	110	60.8	190.7	46,400
	115	59.2	187.8	43,300
	120	57.6	184.7	40,500
	125	56.0	181.4	38,000
	130	54.3	177.9	35,700
	135	52.6	174.1	33,500
	140	50.9	170.1	31,600
	145	49.1	165.9	29,700
	150	47.2	161.3	28,000
	155	45.4	156.5	26,500
	160	43.4	151.3	25,000
	165	41.3	145.8	23,600
	170	39.2	139.8	22,300
	175	37.0	133.3	21,100
	180	34.6	126.3	20,000
210	185	32.1	118.6	18,900
	190	29.4	110.1	17,900
	195	26.5	100.6	17,000
	36	82.6	226.0	210,000*
	38	82.1	225.7	210,000*
	40	81.6	225.4	200,800
	42	81.1	225.1	186,600
	44	80.5	224.8	174,000
	46	80.0	224.4	163,000
	48	79.5	224.1	153,100
	50	78.9	223.7	144,300
	55	77.6	222.6	125,700
	60	76.3	221.4	110,900
	65	74.9	220.1	98,900
	70	73.6	218.6	89,000
	75	72.2	217.1	80,600
	80	70.8	215.4	73,400
	85	69.4	213.5	67,200
	90	68.0	211.5	61,800
	95	66.6	209.4	57,100
	100	65.2	207.2	52,800
	105	63.7	204.7	49,100
	110	62.3	202.1	45,700
	115	60.8	199.4	42,600
	120	59.3	196.5	39,800
220	125	57.7	193.4	37,300
	130	56.2	190.1	35,000
	135	54.6	186.6	32,800
	140	53.0	182.9	30,900
	145	51.3	178.9	29,000
	150	49.6	174.8	27,400
	155	47.9	170.3	25,800
	160	46.1	165.6	24,300
	165	44.2	160.6	22,900
	170	42.3	155.2	21,700
	175	40.3	149.5	20,400
	180	38.3	143.3	19,300
	185	36.1	136.6	18,200
	190	33.8	129.4	17,200
	195	31.4	121.4	16,300
	200	28.8	112.7	15,400
	205	25.9	102.9	14,500
	36	83.0	236.1	196,300*
	38	82.5	235.8	194,300*
	40	81.9	235.6	192,400*
	42	81.4	235.3	186,100
	44	80.9	234.9	173,500
	46	80.4	234.6	162,500
	48	79.9	234.2	152,600
	50	79.4	233.9	143,700
	55	78.1	232.8	125,200
	60	76.9	231.7	110,400
	65	75.6	230.4	98,400
	70	74.3	229.1	88,400
	75	73.0	227.6	80,000
	80	71.7	225.9	72,900
	85	70.4	224.2	66,700
	90	69.0	222.3	61,300
	95	67.7	220.3	56,500
	100	66.3	218.1	52,300
	105	65.0	215.8	48,500
	110	63.6	213.4	45,100
	115	62.2	210.8	42,000
	120	60.8	208.1	39,300
	125	59.3	205.1	36,700
	130	57.8	202.0	34,400
	135	56.4	198.8	32,300
	140	54.8	195.3	30,300
	145	53.3	191.6	28,500
	150	51.7	187.8	26,800
	155	50.1	183.6	25,200
	160	48.5	179.3	23,700
	165	46.8	174.7	22,300
	170	45.0	169.8	21,100
	175	43.2	164.6	19,900
	180	41.4	159.0	18,700
	185	39.4	153.1	17,600
	190	37.4	146.7	16,600
	195	35.3	139.8	15,700
	200	33.0	132.3	14,800
	205	30.7	124.2	13,900
	210	28.1	115.2	13,100
	215	25.3	105.1	12,300

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REQUIREMENTS

M-250

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
240	38	82.8	245.9	188,100*
	40	82.3	245.7	186,300*
	42	81.8	245.4	184,600*
	44	81.3	245.1	173,000
	46	80.8	244.7	161,900
	48	80.4	244.4	152,000
	50	79.9	244.0	143,200
	55	78.6	243.1	124,600
	60	77.4	242.0	109,800
	65	76.2	240.8	97,800
	70	75.0	239.5	87,800
	75	73.7	238.0	79,400
	80	72.5	236.5	72,200
	85	71.2	234.8	66,000
	90	69.9	233.0	60,600
	95	68.7	231.1	55,800
	100	67.4	229.0	51,600
	105	66.1	226.9	47,800
	110	64.8	224.5	44,400
	115	63.4	222.1	41,300
	120	62.1	219.5	38,600
	125	60.7	216.7	36,000
	130	59.3	213.8	33,700
	135	57.9	210.7	31,600
	140	56.5	207.5	29,600
	145	55.1	204.0	27,800
	150	53.6	200.4	26,100
	155	52.1	196.5	24,500
	160	50.5	192.5	23,000
	165	49.0	188.2	21,600
	170	47.4	183.7	20,400
	175	45.7	178.9	19,100
	180	44.0	173.8	18,000
	185	42.3	168.4	16,900
	190	40.4	162.7	15,900
	195	38.6	156.6	15,000
	200	36.6	150.0	14,100
	205	34.5	142.9	13,200
	210	32.3	135.2	12,400
	215	30.0	126.9	11,600
	220	27.5	117.6	10,900

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
250	40	82.6	255.8	178,800*
	42	82.1	255.5	177,200*
	44	81.7	255.2	172,700
	46	81.2	254.9	161,600
	48	80.7	254.5	151,700
	50	80.3	254.2	142,800
	55	79.1	253.3	124,200
	60	77.9	252.2	109,500
	65	76.8	251.1	97,500
	70	75.6	249.8	87,500
	75	74.4	248.4	79,100
	80	73.2	247.0	71,900
	85	72.0	245.4	65,700
	90	70.8	243.7	60,300
	95	69.6	241.8	55,500
	100	68.3	239.9	51,300
	105	67.1	237.8	47,500
	110	65.8	235.6	44,100
	115	64.6	233.2	41,000
	120	63.3	230.8	38,200
	125	62.0	228.1	35,700
	130	60.7	225.4	33,400
	135	59.4	222.5	31,200
	140	58.0	219.4	29,300
	145	56.7	216.1	27,400
	150	55.3	212.7	25,700
	155	53.9	209.1	24,200
	160	52.4	205.3	22,700
	165	51.0	201.3	21,300
	170	49.5	197.1	20,000
	175	47.9	192.7	18,800
	180	46.3	188.0	17,700
	185	44.7	183.0	16,600
	190	43.1	177.8	15,600
	195	41.4	172.2	14,600
	200	39.6	166.3	13,700
	205	37.7	160.0	12,900
	210	35.8	153.2	12,100
	215	33.8	146.0	11,300
	220	31.6	138.1	10,500
	225	29.4	129.5	9,800
	230	26.9	120.0	9,200

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
260	40	82.9	265.8	172,600*
	42	82.4	265.6	171,100*
	44	82.0	265.3	169,800*
	46	81.5	265.0	161,000
	48	81.1	264.7	151,100
	50	80.7	264.3	142,300
	55	79.5	263.4	123,700
	60	78.4	262.4	108,900
	65	77.3	261.3	96,800
	70	76.1	260.1	86,900
	75	75.0	258.8	78,400
	80	73.9	257.4	71,300
	85	72.7	255.9	65,000
	90	71.6	254.2	59,600
	95	70.4	252.5	54,800
	100	69.2	250.6	50,600
	105	68.0	248.6	46,800
	110	66.8	246.5	43,400
	115	65.6	244.3	40,400
	120	64.4	241.9	37,600
	125	63.2	239.4	35,000
	130	61.9	236.8	32,700
	135	60.7	234.0	30,600
	140	59.4	231.1	28,600
	145	58.1	228.0	26,800
	150	56.8	224.8	25,100
	155	55.5	221.4	23,500

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
260	160	54.1	217.9	22,000
	165	52.7	214.1	20,600
	170	51.3	210.2	19,300
	175	49.9	206.0	18,100
	180	48.4	201.7	17,000
	185	46.9	197.1	15,900
	190	45.4	192.2	14,900
	195	43.8	187.1	13,900
	200	42.2	181.7	13,000
	205	40.5	175.9	12,200
	210	38.8	169.8	11,400
	215	37.0	163.3	10,600
	220	35.1	156.4	9,800
	225	33.1	148.9	9,100
	230	31.0	140.9	8,500
	235	28.8	132.1	7,800
	240	26.4	122.4	7,200
	42	82.7	275.7	154,500*
	44	82.3	275.4	153,700*
	46	81.9	275.1	152,900*
	48	81.4	274.8	150,600
	50	81.0	274.5	141,700
	55	79.9	273.6	123,100
	60	78.8	272.7	108,300
	65	77.8	271.6	96,300
	70	76.7	270.4	86,300
	75	75.6	269.2	77,900
	80	74.5	267.8	70,700
	85	73.4	266.3	64,500
	90	72.3	264.8	59,000
	95	71.1	263.1	54,300
	100	70.0	261.3	50,000
	105	68.9	259.4	46,200
	110	67.7	257.4	42,800
	115	66.6	255.2	39,800
	120	65.4	253.0	37,000
	125	64.2	250.6	34,400
	130	63.1	248.1	32,100
	135	61.9	245.5	30,000
	140	60.6	242.7	28,000
	145	59.4	239.8	26,100
	150	58.2	236.7	24,500
	155	56.9	233.5	22,900
	160	55.6	230.1	21,400
	165	54.3	226.6	20,000
	170	53.0	222.9	18,700
	175	51.7	219.0	17,500
	180	50.3	214.9	16,400
	185	48.9	210.6	15,300
	190	47.5	206.1	14,300
	195	46.0	201.3	13,300
	200	44.5	196.3	12,400
	205	43.0	191.0	11,600
	210	41.4	185.5	10,700
	215	39.7	179.6	10,000
	220	38.0	173.3	9,200
	225	36.3	166.6	8,500
	230	34.4	159.5	7,800
	235	32.5	151.8	7,200
	240	30.4	143.6	6,600
	245	28.2	134.6	6,000
	250	25.9	124.7	5,400

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MEETS
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REQUIREMENTS

M-250

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
280	42	83.0	285.7	143,000*
	44	82.6	285.5	142,300*
	46	82.2	285.2	141,600*
	48	81.7	284.9	140,900*
	50	81.3	284.6	140,200*
	55	80.3	283.8	122,500
	60	79.2	282.8	107,700
	65	78.2	281.8	95,600
	70	77.2	280.7	85,600
	75	76.1	279.5	77,200
	80	75.0	278.2	70,000
	85	74.0	276.8	63,800
	90	72.9	275.3	58,400
	95	71.8	273.7	53,600
	100	70.8	271.9	49,300
	105	69.7	270.1	45,600
	110	68.6	268.2	42,200
	115	67.5	266.1	39,100
	120	66.4	264.0	36,300
	125	65.2	261.7	33,700
	130	64.1	259.3	31,400
	135	62.9	256.8	29,300
	140	61.8	254.1	27,300
	145	60.6	251.4	25,500
	150	59.4	248.4	23,800
	155	58.2	245.4	22,200
	160	57.0	242.2	20,700
	165	55.8	238.8	19,300
	170	54.5	235.3	18,000
	175	53.3	231.6	16,800
	180	52.0	227.8	15,700
	185	50.7	223.7	14,600
	190	49.3	219.5	13,600
	195	47.9	215.1	12,600
	200	46.5	210.4	11,700
	205	45.1	205.5	10,900
	210	43.6	200.3	10,000
	215	42.1	194.9	9,300
	220	40.6	189.2	8,500
	225	39.0	183.1	7,800
	230	37.3	176.7	7,100
	235	35.6	169.8	6,500
	240	33.8	162.5	5,900
	245	31.9	154.7	5,300
	250	29.8	146.2	4,700
	255	27.7	137.0	4,200

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
290	44	82.8	295.6	132,600*
	46	82.4	295.3	131,900*
	48	82.0	295.0	131,300*
	50	81.6	294.7	130,600*
	55	80.6	293.9	122,100
	60	79.6	293.0	107,300
	65	78.6	292.0	95,300
	70	77.6	291.0	85,300
	75	76.6	289.8	76,800
	80	75.6	288.5	69,600
	85	74.5	287.2	63,400
	90	73.5	285.7	58,000
	95	72.5	284.2	53,200
	100	71.4	282.5	49,000
	105	70.4	280.8	45,200
	110	69.3	278.9	41,800
	115	68.3	276.9	38,700
	120	67.2	274.9	35,900
	125	66.1	272.7	33,400
	130	65.1	270.4	31,000
	135	64.0	268.0	28,900
	140	62.8	265.5	26,900
	145	61.7	262.8	25,100
	150	60.6	260.0	23,400
	155	59.5	257.1	21,800
	160	58.3	254.1	20,300
	165	57.1	250.9	18,900
	170	55.9	247.5	17,700
	175	54.7	244.0	16,400
	180	53.5	240.4	15,300
	185	52.3	236.6	14,200
	190	51.0	232.6	13,200
	195	49.7	228.4	12,300
	200	48.4	224.0	11,300
	205	47.1	219.4	10,500
	210	45.7	214.6	9,700
	215	44.3	209.6	8,900
	220	42.8	204.3	8,100
	225	41.4	198.7	7,400
	230	39.8	192.8	6,800
	235	38.3	186.6	6,100
	240	36.6	180.0	5,500
	245	34.9	173.0	4,900
	250	33.2	165.5	4,300
300	46	82.7	305.4	119,900*
	48	82.3	305.1	119,200*
	50	81.9	304.8	118,500*
	55	80.9	304.1	115,700*
	60	80.0	303.2	106,700
	65	79.0	302.2	94,600
	70	78.0	301.2	84,600
	75	77.0	300.1	76,200
	80	76.1	298.9	69,000
	85	75.1	297.6	62,700
	90	74.1	296.2	57,300
	95	73.1	294.7	52,500
	100	72.1	293.1	48,300
	105	71.1	291.4	44,500
	110	70.1	289.6	41,100
	115	69.0	287.7	38,000
	120	68.0	285.7	35,200
	125	67.0	283.6	32,600
	130	65.9	281.4	30,300
	135	64.9	279.1	28,100
	140	63.8	276.7	26,200
	145	62.8	274.1	24,300
	150	61.7	271.5	22,600
	155	60.6	268.7	21,000
	160	59.5	265.8	19,600

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
300	165	58.4	262.7	18,200
	170	57.2	259.5	16,900
	175	56.1	256.2	15,700
	180	54.9	252.7	14,500
	185	53.7	249.1	13,500
	190	52.5	245.3	12,400
	195	51.3	241.4	11,500
	200	50.1	237.3	10,600
	205	48.8	232.9	9,700
	210	47.5	228.4	8,900
	215	46.2	223.7	8,100
	220	44.9	218.8	7,400
	225	43.5	213.6	6,700
	230	42.1	208.1	6,000
	235	40.6	202.4	5,300
	240	39.1	196.4	4,700
	245	37.6	190.0	4,100
	46	82.9	315.5	108,000*
	48	82.5	315.2	107,500*
	50	82.2	314.9	105,900*
	55	81.2	314.2	101,600*
	60	80.3	313.4	97,800*
	65	79.4	312.4	94,000
	70	78.4	311.4	84,000
	75	77.5	310.3	75,600
	80	76.5	309.2	68,300
	85	75.6	307.9	62,100
	90	74.6	306.5	56,700
	95	73.7	305.1	51,900
	100	72.7	303.6	47,600
	105	71.7	301.9	43,800
	110	70.7	300.2	40,400
	115	69.8	298.4	37,300
	120	68.8	296.5	34,500
	125	67.8	294.5	32,000
	130	66.8	292.3	29,600
	135	65.8	290.1	27,500
	140	64.7	287.8	25,500
	145	63.7	285.3	23,700
	150	62.7	282.8	22,000
	155	61.6	280.1	20,400
	160	60.6	277.3	18,900
	165	59.5	274.4	17,500
	170	58.4	271.4	16,200
	175	57.3	268.2	15,000
	180	56.2	264.9	13,900
	185	55.1	261.5	12,800
	190	53.9	257.9	11,800
	195	52.8	254.1	10,800
	200	51.6	250.2	9,900
	205	50.4	246.1	9,000
	210	49.2	241.9	8,200
	215	48.0	237.4	7,400
	220	46.7	232.8	6,700
	225	45.4	227.9	6,000
	230	44.1	222.8	5,300
	235	42.8	217.5	4,700
	240	41.4	211.9	4,100

MANITOWOC ENGINEERING CO.

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



LIFTCRANE CAPACITIES

BOOM NO. 44 WITH LONG REACH TOP
167,000 LB. COUNTERWEIGHT
360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS

M-250

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
320	48	82.8	325.3	99,700*	330	48	83.0	335.4	87,800*
	50	82.4	325.0	98,100*		50	82.6	335.1	86,400*
	55	81.5	324.3	94,500*		55	81.8	334.4	82,500*
	60	80.6	323.5	90,500*		60	80.9	333.6	78,900*
	65	79.7	322.6	86,900*		65	80.0	332.8	75,700*
	70	78.8	321.6	83,600*		70	79.1	331.8	72,700*
	75	77.9	320.6	75,100		75	78.2	330.8	70,000*
	80	77.0	319.5	67,900		80	77.4	329.7	67,500*
	85	76.0	318.2	61,700		85	76.5	328.5	62,500
	90	75.1	316.9	56,200		90	75.6	327.3	57,000
	95	74.2	315.5	51,400		95	74.7	325.9	52,200
	100	73.2	314.0	47,200		100	73.8	324.5	48,000
	105	72.3	312.5	43,400		105	72.9	323.0	44,200
	110	71.4	310.8	40,000		110	71.9	321.4	40,800
	115	70.4	309.1	36,900		115	71.0	319.7	37,700
	120	69.5	307.2	34,100		120	70.1	317.9	34,900
	125	68.5	305.3	31,500		125	69.2	316.0	32,300
	130	67.5	303.2	29,200		130	68.2	314.0	30,000
	135	66.6	301.1	27,000		135	67.3	312.0	27,800
	140	65.6	298.8	25,000		140	66.4	309.8	25,900
	145	64.6	296.5	23,200		145	65.4	307.5	24,000
	150	63.6	294.0	21,500		150	64.4	305.2	22,300
	155	62.6	291.5	19,900		155	63.5	302.7	20,700
	160	61.6	288.8	18,400		160	62.5	300.1	19,300
	165	60.5	286.0	17,100		165	61.5	297.5	17,900
	170	59.5	283.1	15,800		170	60.5	294.7	16,600
	175	58.5	280.1	14,500		175	59.5	291.7	15,400
	180	57.4	276.9	13,400		180	58.5	288.7	14,200
	185	56.3	273.6	12,300		185	57.5	285.6	13,200
	190	55.2	270.2	11,300		190	56.4	282.3	12,100
320	195	54.1	266.6	10,300	330	195	55.4	278.9	11,200
	200	53.0	262.9	9,400		200	54.3	275.3	10,300
	205	51.9	259.0	8,600		205	53.2	271.6	9,400
	210	50.7	255.0	7,700		210	52.2	267.8	8,600
	215	49.6	250.8	7,000		215	51.0	263.8	7,800
	220	48.4	246.4	6,200		220	49.9	259.6	7,100
	225	47.2	241.8	5,500		225	48.8	255.3	6,400
	230	45.9	237.0	4,800		230	47.6	250.8	5,700
	235	44.7	232.0	4,200		235	46.4	246.1	5,000
						240	45.2	241.2	4,400