

MANITOWOC ENGINEERING CO.

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



LIFTCRANE CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

M-250

**BOOM NO. 44 WITH LONG REACH TOP
167,000 LB. COUNTERWEIGHT
RATING OVER FRONT OF BLOCKED CRAWLERS
NO TRAVEL - LIMITED SWING**

CAPACITIES FOR VARIOUS BOOM LENGTHS AND OPERATING RADII ARE FOR FREELY SUSPENDED LOADS AND DO NOT EXCEED 75% OF A STATIC TIPPING LOAD OVER FRONT OF MACHINE WITH CRAWLERS BLOCKED. 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 AND FRONT TUMBLER PROPERLY BLOCKED SO THAT THE CENTERLINE OF THE IDLER TUMBLER BECOMES THE TIPPING FULCRUM. DRIVE MOTORS MUST BE TO THE REAR OF THE MACHINE. SWING IS LIMITED TO THAT SECTOR SHOWN ON OPERATING RANGE DIAGRAM NO. 7582-A. 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, 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 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 OVER FRONT OF BLOCKED CRAWLERS		DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED	
BOOM LGTH.	JIB NO. 132	JIB LGTH.	JIB NO. 132
330'	---	40'	6,400 LBS.
320'	---	60'	8,200 LBS.
310'	---	80'	10,300 LBS.
300'	---	100'	12,800 LBS.
290'	---	120'	15,300 LBS.
280'	60'		
270'	80'		
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.

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
190	32	82.7	196.3	210,000*	190	105	59.2	170.5	62,000
	34	82.1	196.0	210,000*		110	57.4	167.3	57,900
	36	81.5	195.7	210,000*		115	55.6	164.0	54,200
	38	80.8	195.4	210,000*		120	53.7	160.4	50,900
	40	80.2	195.0	210,000*		125	51.8	156.5	47,900
	42	79.6	194.7	210,000*		130	49.8	152.4	45,200
	44	79.0	194.3	210,000*		135	47.8	148.0	42,600
	46	78.4	193.9	204,500		140	45.8	143.2	40,300
	48	77.8	193.4	191,700		145	43.6	138.1	38,200
	50	77.2	193.0	180,200		150	41.3	132.5	36,200
	55	75.6	191.7	156,400		155	39.0	126.5	34,300
	60	74.0	190.3	137,800		160	36.5	120.0	32,600
	65	72.5	188.8	122,800		165	33.9	112.8	31,000
	70	70.9	187.1	110,500		170	31.0	104.8	29,500
	75	69.3	185.2	100,200		175	27.9	95.8	28,100
	80	67.6	183.2	91,400					
85	66.0	181.0	83,900						
90	64.3	178.7	77,300						
95	62.6	176.1	71,600						
100	60.9	173.4	66,500						

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

RATING OVER FRONT OF BLOCKED CRAWLERS

NO TRAVEL - LIMITED SWING

MEETS
ANSI B30.5
REQUIREMENTS

M-250

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
200	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	210,000*
	42	80.1	204.8	210,000*
	44	79.6	204.5	210,000*
	46	79.0	204.1	204,000
	48	78.4	203.7	191,200
	50	77.8	203.2	179,700
	55	76.3	202.0	155,900
	60	74.9	200.7	137,300
	65	73.4	199.3	122,200
	70	71.9	197.7	109,900
	75	70.3	195.9	99,500
	80	68.8	194.0	90,800
	85	67.3	192.0	83,200
	90	65.7	189.7	76,700
	95	64.1	187.4	70,900
	100	62.5	184.8	65,800
210	105	60.9	182.1	61,300
	110	59.2	179.1	57,200
	115	57.5	176.0	53,600
	120	55.8	172.7	50,300
	125	54.0	169.1	47,300
	130	52.2	165.3	44,500
	135	50.4	161.3	42,000
	140	48.5	156.9	39,600
	145	46.5	152.3	37,500
	150	44.5	147.3	35,500
	155	42.4	142.0	33,600
	160	40.2	136.2	31,900
	165	38.0	130.0	30,300
	170	35.5	123.2	28,800
	175	33.0	115.8	27,400
	180	30.2	107.5	26,000
	185	27.2	98.2	24,800
	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	210,000*
	42	80.6	215.0	210,000*
	44	80.1	214.6	210,000*
	46	79.5	214.3	203,800
	48	79.0	213.9	190,900
	50	78.4	213.5	179,500
	55	77.0	212.3	155,700
	60	75.6	211.1	137,000
	65	74.2	209.7	122,000
	70	72.8	208.2	109,700
	75	71.3	206.5	99,300
	80	69.9	204.7	90,500
	85	68.4	202.8	83,000
	90	66.9	200.7	76,400
	95	65.4	198.4	70,700
	100	63.9	196.0	65,600
	105	62.4	193.5	61,100
	110	60.8	190.7	57,000
	115	59.2	187.8	53,400
	120	57.6	184.7	50,000
	125	56.0	181.4	47,000
	130	54.3	177.9	44,300
	135	52.6	174.1	41,700
	140	50.9	170.1	39,400
	145	49.1	165.9	37,300
	150	47.2	161.3	35,300
	155	45.4	156.5	33,400

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
210	160	43.4	151.3	31,700
	165	41.3	145.8	30,100
	170	39.2	139.8	28,600
	175	37.0	133.3	27,100
	180	34.6	126.3	25,800
	185	32.1	118.6	24,500
	190	29.4	110.1	23,400
	195	26.5	100.6	22,200
	36	82.6	226.0	210,000*
	38	82.1	225.7	210,000*
220	40	81.6	225.4	210,000*
	42	81.1	225.1	210,000*
	44	80.5	224.8	208,900*
	46	80.0	224.4	203,400
	48	79.5	224.1	190,500
	50	78.9	223.7	179,000
	55	77.6	222.6	155,200
	60	76.3	221.4	136,500
	65	74.9	220.1	121,400
	70	73.6	218.6	109,100
	75	72.2	217.1	98,700
	80	70.8	215.4	89,900
	85	69.4	213.5	82,400
	90	68.0	211.5	75,800
	95	66.6	209.4	70,100
	100	65.2	207.2	65,000
	105	63.7	204.7	60,400
	110	62.3	202.1	56,400
	115	60.8	199.4	52,700
	120	59.3	196.5	49,400
230	125	57.7	193.4	46,400
	130	56.2	190.1	43,600
	135	54.6	186.6	41,100
	140	53.0	182.9	38,700
	145	51.3	178.9	36,600
	150	49.6	174.8	34,600
	155	47.9	170.3	32,700
	160	46.1	165.6	31,000
	165	44.2	160.6	29,400
	170	42.3	155.2	27,900
	175	40.3	149.5	26,500
	180	38.3	143.3	25,100
	185	36.1	136.6	23,900
	190	33.8	129.4	22,700
	195	31.4	121.4	21,600
	200	28.8	112.7	20,500
	205	25.9	102.9	19,500
	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	190,500*
	44	80.9	234.9	188,800*
	46	80.4	234.6	187,000*
	48	79.9	234.2	185,400*
	50	79.4	233.9	178,500
	55	78.1	232.8	154,700
	60	76.9	231.7	136,000
	65	75.6	230.4	120,900
	70	74.3	229.1	108,500
	75	73.0	227.6	98,200
	80	71.7	225.9	89,400
	85	70.4	224.2	81,800
	90	69.0	222.3	75,300
	95	67.7	220.3	69,500
	100	66.3	218.1	64,400
	105	65.0	215.8	59,900
	110	63.6	213.4	55,800
	115	62.2	210.8	52,100
	120	60.8	208.1	48,800
	125	59.3	205.1	45,800
	130	57.8	202.0	43,000
	135	56.4	198.8	40,500

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
230	140	54.8	195.3	38,200
	145	53.3	191.6	36,000
	150	51.7	187.8	34,000
	155	50.1	183.6	32,200
	160	48.5	179.3	30,400
	165	46.8	174.7	28,800
	170	45.0	169.8	27,300
	175	43.2	164.6	25,900
	180	41.4	159.0	24,500
	185	39.4	153.1	23,300
240	190	37.4	146.7	22,100
	195	35.3	139.8	21,000
	200	33.0	132.3	19,900
	205	30.7	124.2	18,900
	210	28.1	115.2	18,000
	215	25.3	105.1	17,000
	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	183,000*
250	46	80.8	244.7	181,400*
	48	80.4	244.4	179,900*
	50	79.9	244.0	178,000*
	55	78.6	243.1	154,100
	60	77.4	242.0	135,400
	65	76.2	240.8	120,300
	70	75.0	239.5	108,000
	75	73.7	238.0	97,600
	80	72.5	236.5	88,800
	85	71.2	234.8	81,200
	90	69.9	233.0	74,600
	95	68.7	231.1	68,900
	100	67.4	229.0	63,800
	105	66.1	226.9	59,200
	110	64.8	224.5	55,100
	115	63.4	222.1	51,500
	120	62.1	219.5	48,100
	125	60.7	216.7	45,100
	130	59.3	213.8	42,400
	135	57.9	210.7	39,800
	140	56.5	207.5	37,500
	145	55.1	204.0	35,300
	150	53.6	200.4	33,300
	155	52.1	196.5	31,500
	160	50.5	192.5	29,700
	165	49.0	188.2	28,100
	170	47.4	183.7	26,600
	175	45.7	178.9	25,200
	180	44.0	173.8	23,800
	185	42.3	168.4	22,600
	190	40.4	162.7	21,400
	195	38.6	156.6	20,300
	200	36.6	150.0	19,200
	205	34.5	142.9	18,200
	210	32.3	135.2	17,300
	215	30.0	126.9	16,300
	220	27.5	117.6	15,500

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
RATING OVER FRONT OF BLOCKED CRAWLERS
NO TRAVEL - LIMITED SWING

MEETS
ANSI B30.5
REQUIREMENTS

M-250

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	175,700*
	46	81.2	254.9	174,300*
	48	80.7	254.5	172,900*
	50	80.3	254.2	170,100*
	55	79.1	253.3	153,800
	60	77.9	252.2	135,100
	65	76.8	251.1	120,000
	70	75.6	249.8	107,600
	75	74.4	248.4	97,300
	80	73.2	247.0	88,500
	85	72.0	245.4	80,900
	90	70.8	243.7	74,300
	95	69.6	241.8	68,500
	100	68.3	239.9	63,400
	105	67.1	237.8	58,900
	110	65.8	235.6	54,800
	115	64.6	233.2	51,200
	120	63.3	230.8	47,800
	125	62.0	228.1	44,800
	130	60.7	225.4	42,000
	135	59.4	222.5	39,500
	140	58.0	219.4	37,200
	145	56.7	216.1	35,000
	150	55.3	212.7	33,000
	155	53.9	209.1	31,100
	160	52.4	205.3	29,400
	165	51.0	201.3	27,800
	170	49.5	197.1	26,300
	175	47.9	192.7	24,900
	180	46.3	188.0	23,500
	185	44.7	183.0	22,300
	190	43.1	177.8	21,100
	195	41.4	172.2	20,000
	200	39.6	166.3	18,900
	205	37.7	160.0	17,900
	210	35.8	153.2	16,900
	215	33.8	146.0	16,000
	220	31.6	138.1	15,200
	225	29.4	129.5	14,300
	230	26.9	120.0	13,600

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	167,100*
	48	81.1	264.7	164,300*
	50	80.7	264.3	161,600*
	55	79.5	263.4	153,300
	60	78.4	262.4	134,500
	65	77.3	261.3	119,500
	70	76.1	260.1	107,100
	75	75.0	258.8	96,700
	80	73.9	257.4	87,900
	85	72.7	255.9	80,300
	90	71.6	254.2	73,700
	95	70.4	252.5	67,900
	100	69.2	250.6	62,800
	105	68.0	248.6	58,300
	110	66.8	246.5	54,200
	115	65.6	244.3	50,500
	120	64.4	241.9	47,200
	125	63.2	239.4	44,200
	130	61.9	236.8	41,400
	135	60.7	234.0	38,800
	140	59.4	231.1	36,500
	145	58.1	228.0	34,300
	150	56.8	224.8	32,300
	155	55.5	221.4	30,500
	160	54.1	217.9	28,700
	165	52.7	214.1	27,100
	170	51.3	210.2	25,600
	175	49.9	206.0	24,200
	180	48.4	201.7	22,800
	185	46.9	197.1	21,600
	190	45.4	192.2	20,400
	195	43.8	187.1	19,300
	200	42.2	181.7	18,200
	205	40.5	175.9	17,200
	210	38.8	169.8	16,300
	215	37.0	163.3	15,300
	220	35.1	156.4	14,500
	225	33.1	148.9	13,700
	230	31.0	140.9	12,900
	235	28.8	132.1	12,100
	240	26.4	122.4	11,400

270	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	151,700*
	50	81.0	274.5	150,600*
	55	79.9	273.6	144,900*
	60	78.8	272.7	134,000
	65	77.8	271.6	118,900
	70	76.7	270.4	106,500
	75	75.6	269.2	96,100
	80	74.5	267.8	87,300
	85	73.4	266.3	79,700
	90	72.3	264.8	73,100
	95	71.1	263.1	67,300
	100	70.0	261.3	62,200
	105	68.9	259.4	57,700
	110	67.7	257.4	53,600
	115	66.6	255.2	49,900
	120	65.4	253.0	46,600
	125	64.2	250.6	43,600
	130	63.1	248.1	40,800
	135	61.9	245.5	38,300
	140	60.6	242.7	35,900
	145	59.4	239.8	33,700
	150	58.2	236.7	31,700
	155	56.9	233.5	29,900
	160	55.6	230.1	28,100
	165	54.3	226.6	26,500
	170	53.0	222.9	25,000

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
270	175	51.7	219.0	23,600
	180	50.3	214.9	22,200
	185	48.9	210.6	21,000
	190	47.5	206.1	19,800
	195	46.0	201.3	18,700
	200	44.5	196.3	17,600
	205	43.0	191.0	16,600
	210	41.4	185.5	15,600
	215	39.7	179.6	14,700
	220	38.0	173.3	13,900
	225	36.3	166.6	13,000
	230	34.4	159.5	12,300
	235	32.5	151.8	11,500
280	240	30.4	143.6	10,800
	245	28.2	134.6	10,100
	250	25.9	124.7	9,400
	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	137,300*
	60	79.2	282.8	131,700*
	65	78.2	281.8	118,400
	70	77.2	280.7	105,900
	75	76.1	279.5	95,500
	80	75.0	278.2	86,700
	85	74.0	276.8	79,100
	90	72.9	275.3	72,500
	95	71.8	273.7	66,700
	100	70.8	271.9	61,600
	105	69.7	270.1	57,000
	110	68.6	268.2	53,000
	115	67.5	266.1	49,300
	120	66.4	264.0	45,900
	125	65.2	261.7	42,900
	130	64.1	259.3	40,100
	135	62.9	256.8	37,600
	140	61.8	254.1	35,200
	145	60.6	251.4	33,100
	150	59.4	248.4	31,100
	155	58.2	245.4	29,200
	160	57.0	242.2	27,500
	165	55.8	238.8	25,800
	170	54.5	235.3	24,300
	175	53.3	231.6	22,900
	180	52.0	227.8	21,600
	185	50.7	223.7	20,300
	190	49.3	219.5	19,100
	195	47.9	215.1	18,000
	200	46.5	210.4	16,900
	205	45.1	205.5	15,900
	210	43.6	200.3	14,900
	215	42.1	194.9	14,000
	220	40.6	189.2	13,200
	225	39.0	183.1	12,300
	230	37.3	176.7	11,600
	235	35.6	169.8	10,800
	240	33.8	162.5	10,100
	245	31.9	154.7	9,400
	250	29.8	146.2	8,700
	255	27.7	137.0	8,100
	260	25.4	126.9	7,500

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
RATING OVER FRONT OF BLOCKED CRAWLERS
NO TRAVEL - LIMITED SWING

MEETS
ANSI B30.5
REQUIREMENTS

M-250

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	128,900*
	60	79.6	293.0	125,000*
	65	78.6	292.0	118,000
	70	77.6	291.0	105,500
	75	76.6	289.8	95,100
	80	75.6	288.5	86,300
	85	74.5	287.2	78,700
	90	73.5	285.7	72,100
	95	72.5	284.2	66,300
	100	71.4	282.5	61,200
	105	70.4	280.8	56,700
	110	69.3	278.9	52,600
	115	68.3	276.9	48,900
	120	67.2	274.9	45,600
	125	66.1	272.7	42,500
	130	65.1	270.4	39,800
	135	64.0	268.0	37,200
	140	62.8	265.5	34,900
	145	61.7	262.8	32,700
	150	60.6	260.0	30,700
	155	59.5	257.1	28,800
	160	58.3	254.1	27,100
	165	57.1	250.9	25,500
	170	55.9	247.5	23,900
	175	54.7	244.0	22,500
	180	53.5	240.4	21,200
	185	52.3	236.6	19,900
	190	51.0	232.6	18,700
	195	49.7	228.4	17,600
	200	48.4	224.0	16,500
	205	47.1	219.4	15,500
	210	45.7	214.6	14,600
	215	44.3	209.6	13,700
	220	42.8	204.3	12,800
	225	41.4	198.7	12,000
	230	39.8	192.8	11,200
	235	38.3	186.6	10,400
	240	36.6	180.0	9,700
	245	34.9	173.0	9,000
	250	33.2	165.5	8,400
	255	31.3	157.5	7,700
	260	29.3	148.9	7,100
	265	27.2	139.5	6,300*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
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	111,300*
	65	79.0	302.2	107,400*
	70	78.0	301.2	103,800*
	75	77.0	300.1	94,500
	80	76.1	298.9	85,700
	85	75.1	297.6	78,100
	90	74.1	296.2	71,500
	95	73.1	294.7	65,700
	100	72.1	293.1	60,500
	105	71.1	291.4	56,000
	110	70.1	289.6	51,900
	115	69.0	287.7	48,200
	120	68.0	285.7	44,900
	125	67.0	283.6	41,800
	130	65.9	281.4	39,000
	135	64.9	279.1	36,500
	140	63.8	276.7	34,100
	145	62.8	274.1	32,000
	150	61.7	271.5	30,000
	155	60.6	268.7	28,100
	160	59.5	265.8	26,400
	165	58.4	262.7	24,700
	170	57.2	259.5	23,200
	175	56.1	256.2	21,800
	180	54.9	252.7	20,400
	185	53.7	249.1	19,200
	190	52.5	245.3	18,000
	195	51.3	241.4	16,900
	200	50.1	237.3	15,800
	205	48.8	232.9	14,800
	210	47.5	228.4	13,800
	215	46.2	223.7	12,900
	220	44.9	218.8	12,000
	225	43.5	213.6	11,200
	230	42.1	208.1	10,400
	235	40.6	202.4	9,700
	240	39.1	196.4	9,000
	245	37.6	190.0	8,300
	250	36.0	183.2	7,600
	255	34.3	176.1	7,000
	260	32.6	168.4	6,400
	265	30.7	160.3	5,800
	270	28.8	151.4	5,200
	275	26.7	141.8	4,400*
310	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	94,300*
	70	78.4	311.4	91,200*
	75	77.5	310.3	88,300*
	80	76.5	309.2	85,100
	85	75.6	307.9	77,500
	90	74.6	306.5	70,900
	95	73.7	305.1	65,100
	100	72.7	303.6	59,900
	105	71.7	301.9	55,400
	110	70.7	300.2	51,300
	115	69.8	298.4	47,600
	120	68.8	296.5	44,200
	125	67.8	294.5	41,200
	130	66.8	292.3	38,400
	135	65.8	290.1	35,900
	140	64.7	287.8	33,500
	145	63.7	285.3	31,300
	150	62.7	282.8	29,300
	155	61.6	280.1	27,500
	160	60.6	277.3	25,700

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
310	165	59.5	274.4	24,100
	170	58.4	271.4	22,600
	175	57.3	268.2	21,100
	180	56.2	264.9	19,800
	185	55.1	261.5	18,500
	190	53.9	257.9	17,300
	195	52.8	254.1	16,200
	200	51.6	250.2	15,100
	205	50.4	246.1	14,100
	210	49.2	241.9	13,200
	215	48.0	237.4	12,300
	220	46.7	232.8	11,400
	225	45.4	227.9	10,600
	230	44.1	222.8	9,800
	235	42.8	217.5	9,000
	240	41.4	211.9	8,300
	245	39.9	206.0	7,600
	250	38.5	199.9	7,000
	255	37.0	193.3	6,300
	260	35.4	186.4	5,700
	265	33.7	179.1	5,100
	270	32.0	171.3	4,600
320	48	82.8	325.3	99,700*
	50	82.4	325.0	98,100*
	55	81.5	324.3	94,500*
	60	80.6	323.5	90,500*
	65	79.7	322.6	86,900*
	70	78.8	321.6	83,600*
	75	77.9	320.6	80,700*
	80	77.0	319.5	77,900*
	85	76.0	318.2	75,300*
	90	75.1	316.9	70,500
	95	74.2	315.5	64,600
	100	73.2	314.0	59,500
	105	72.3	312.5	54,900
	110	71.4	310.8	50,800
	115	70.4	309.1	47,100
	120	69.5	307.2	43,800
	125	68.5	305.3	40,700
	130	67.5	303.2	38,000
	135	66.6	301.1	35,400
	140	65.6	298.8	33,100
	145	64.6	296.5	30,900
	150	63.6	294.0	28,900
	155	62.6	291.5	27,000
	160	61.6	288.8	25,300
	165	60.5	286.0	23,600
	170	59.5	283.1	22,100
	175	58.5	280.1	20,700
	180	57.4	276.9	19,300
	185	56.3	273.6	18,100
	190	55.2	270.2	16,900
	195	54.1	266.6	15,700
	200	53.0	262.9	14,700
	205	51.9	259.0	13,700
	210	50.7	255.0	12,700
	215	49.6	250.8	11,800
	220	48.4	246.4	10,900
	225	47.2	241.8	10,100
	230	45.9	237.0	9,300
	235	44.7	232.0	8,500
	240	43.4	226.8	7,800
	245	42.0	221.4	7,100
	250	40.7	215.6	6,500
	255	39.3	209.6	5,800
	260	37.8	203.3	5,200
	265	36.3	196.6	4,600
	270	34.8	189.6	4,000*

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

RATING OVER FRONT OF BLOCKED CRAWLERS

NO TRAVEL - LIMITED SWING

MEETS
ANSI B30.5
REQUIREMENTS

M-250

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
330	48	83.0	335.4	87,800*
	50	82.6	335.1	86,400*
	55	81.8	334.4	82,500*
	60	80.9	333.6	78,900*
	65	80.0	332.8	75,700*
	70	79.1	331.8	72,700*
	75	78.2	330.8	70,000*
	80	77.4	329.7	67,500*
	85	76.5	328.5	65,200*
	90	75.6	327.3	63,000*
	95	74.7	325.9	61,000*
	100	73.8	324.5	59,100*
	105	72.9	323.0	55,700
	110	71.9	321.4	51,600
	115	71.0	319.7	48,000
	120	70.1	317.9	44,600
	125	69.2	316.0	41,600
	130	68.2	314.0	38,800
	135	67.3	312.0	36,200
	140	66.4	309.8	33,900
	145	65.4	307.5	31,700
	150	64.4	305.2	29,700
	155	63.5	302.7	27,800
	160	62.5	300.1	26,100
	165	61.5	297.5	24,400
	170	60.5	294.7	22,900
	175	59.5	291.7	21,500
	180	58.5	288.7	20,200
	185	57.5	285.6	18,900
	190	56.4	282.3	17,700
	195	55.4	278.9	16,600
	200	54.3	275.3	15,500
	205	53.2	271.6	14,500
	210	52.2	267.8	13,500
	215	51.0	263.8	12,600
	220	49.9	259.6	11,700
	225	48.8	255.3	10,900
	230	47.6	250.8	10,100
	235	46.4	246.1	9,400
	240	45.2	241.2	8,700
	245	43.9	236.1	8,000
	250	42.7	230.7	7,300
	255	41.4	225.1	6,700
	260	40.0	219.3	6,100
	265	38.7	213.1	5,500
	270	37.2	206.7	4,900
	275	35.8	199.9	4,400