

# MANITOWOC ENGINEERING CO.

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



## LIFTCRANE BOOM CAPACITIES

MEETS  
ANSI B30.5  
REQUIREMENTS

888 SERIES 1

**BOOM NO. 22E WITH LIGHT TAPERED TOP**  
**144,100 LB. COUNTERWEIGHT**  
**360 DEGREE RATING**

CAPACITIES FOR VARIOUS BOOM LENGTHS AND OPERATING RADIUS 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 (\*). CAPACITIES ARE NOT SHOWN FOR BOOM POSITIONS WHICH, WITHOUT LOAD, PROVIDE LESS THAN REQUIRED ANSI B30.5 BACKWARD STABILITY.

UPPER BOOM POINT CAPACITY FOR LIFTCRANE SERVICE WITH SINGLE PART WHIP LINE IS 29,500 LBS. 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 RADIUS 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. 176931 AND WIRE ROPE SPECIFICATION CHART NO. 7774-A. 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. REFER TO OPERATORS MANUAL FOR OPERATING GUIDELINES.

MACHINE TO TRAVEL ON A FIRM, LEVEL AND UNIFORMLY SUPPORTING SURFACE AND BOOM WITHIN BOOM ANGLE RANGE SHOWN IN CAPACITY CHART. REFER TO MAXIMUM ALLOWABLE TRAVEL SPECIFICATION CHART NO. 7772-A.

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 28' 2" EXTENDIBLE CRAWLERS, 48" TREADS, 10' 3" RETRACTABLE GANTRY, 30' LIVE MAST, 20 PART BOOM HOIST REEVING, FOUR 1-3/8" BOOM PENDANTS, AND 144,100 LB. COUNTERWEIGHT.

DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED	
JIB LENGTH	JIB NO. 123
30'	2,500 LBS.
40'	3,100 LBS.
50'	3,700 LBS.
60'	4,400 LBS.

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED							
OVER FRONT OF BLOCKED CRAWLERS		OVER REAR OF BLOCKED CRAWLERS		OVER SIDE OF EXTENDED CRAWLERS		OVER SIDE OF RETRACTED CRAWLERS	
BOOM LENGTH	JIB NO. 123	BOOM LENGTH	JIB NO. 123	BOOM LENGTH	JIB NO. 123	BOOM LENGTH	JIB NO. 123
(a) 280'	---	(a) 280'	---	250'	---	230'	---
270'	---	270'	---	240'	30'	220'	50'
260'	50'	260'	30'	230'	60'	210'	60'
250'	60'	250'	60'				

LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START. (a) UPPER BOOM POINT CANNOT BE USED ON 280' 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	BOOM
				CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS
<b>1 1 0</b>	24	80.1	116.4		265,500*
	26	79.0	116.0		246,300
	28	77.9	115.6		217,900
	30	76.9	115.2		195,200
	32	75.8	114.7		176,700
	34	74.7	114.2		161,200
	36	73.6	113.6		148,100
	38	72.5	113.0		136,800
	40	71.4	112.4		127,100
	42	70.3	111.7		118,600
	44	69.2	110.9		111,100
	46	68.1	110.1		104,400
	48	67.0	109.3		98,400

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM	BOOM
				CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS
<b>1 1 0</b>	50	65.9	108.4		93,000
	55	63.0	106.0	70,300	81,600
	60	60.0	103.3	62,500	72,500
	65	56.9	100.3	56,200	65,100
	70	53.8	96.8	50,900	58,800
	75	50.5	92.9	46,300	53,600
	80	47.0	88.5	42,400	49,000
	85	43.3	83.6	39,000	45,100
	90	39.4	77.9	36,000	41,700
	95	35.1	71.3	33,300	38,600
	100	30.3	63.5	30,900	35,900
	105	24.6	53.9	28,800	33,400
	110	17.3	40.9	26,800	31,200

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BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY CRAWLERS	
				RETRACTED POUNDS	EXTENDED POUNDS
<b>120</b>	24	80.9	126.6		265,500*
	26	79.9	126.2		246,800
	28	78.9	125.8		218,300
	30	78.0	125.4		195,500
	32	77.0	125.0		176,800
	34	76.0	124.5		161,200
	36	75.0	124.0		148,100
	38	74.0	123.4		136,800
	40	73.0	122.9		127,000
	42	72.0	122.2		118,500
	44	71.0	121.6		110,900
	46	70.0	120.8		104,200
	48	69.0	120.1	84,100	98,200
	50	68.0	119.3	79,500	92,800
	55	65.4	117.2	69,900	81,400
	60	62.7	114.7	62,200	72,200
	65	60.0	112.0	55,800	64,700
	70	57.2	108.9	50,500	58,500
75	54.3	105.5	45,900	53,200	
80	51.3	101.7	42,000	48,600	
85	48.2	97.5	38,500	44,700	
90	44.9	92.8	35,500	41,200	
95	41.4	87.4	32,900	38,200	
100	37.7	81.4	30,500	35,500	
105	33.6	74.4	28,300	33,000	
110	29.0	66.2	26,400	30,800	
115	23.6	56.0	24,600	28,800	
120	16.6	42.3	22,900	26,900	
<b>130</b>	26	80.7	136.4		246,800
	28	79.8	136.0		218,200
	30	78.9	135.6		195,300
	32	78.0	135.2		176,600
	34	77.1	134.8		161,000
	36	76.2	134.3		147,900
	38	75.3	133.8		136,500
	40	74.4	133.3		126,700
	42	73.5	132.7		118,200
	44	72.5	132.1		110,600
	46	71.6	131.4	88,700	103,900
	48	70.7	130.8	83,700	97,800
	50	69.7	130.0	79,100	92,400
	55	67.4	128.1	69,500	81,000
	60	65.0	125.9	61,800	71,800
	65	62.5	123.4	55,400	64,300
	70	60.0	120.7	50,000	58,000
	75	57.4	117.6	45,400	52,700
80	54.8	114.3	41,500	48,200	
85	52.0	110.5	38,100	44,300	
90	49.2	106.4	35,100	40,800	
95	46.2	101.9	32,400	37,700	
100	43.0	96.8	30,000	35,000	
105	39.7	91.1	27,900	32,600	
110	36.1	84.7	25,900	30,400	
115	32.2	77.4	24,200	28,400	
120	27.8	68.7	22,500	26,500	
125	22.6	58.1	21,000	24,800	
130	15.9	43.8	19,600	23,300	
<b>140</b>	28	80.5	146.2		218,000
	30	79.7	145.8		195,100
	32	78.9	145.4		176,400
	34	78.0	145.0		160,800
	36	77.2	144.6		147,600
	38	76.4	144.1		136,200
	40	75.5	143.6	107,100	126,400
	42	74.7	143.1	100,100	117,900
	44	73.8	142.5	93,900	110,300
	46	73.0	141.9	88,300	103,500
	48	72.1	141.3	83,300	97,500
	50	71.3	140.6	78,800	92,100
	55	69.1	138.8	69,200	80,600
	60	66.9	136.8	61,400	71,500
	65	64.6	134.6	55,000	64,000
	70	62.3	132.1	49,600	57,700
	75	60.0	129.3	45,100	52,400
	80	57.6	126.3	41,100	47,900
<b>150</b>	30	80.4	156.0		194,900
	32	79.6	155.6		176,200
	34	78.9	155.2		160,500
	36	78.1	154.8		147,300
	38	77.3	154.4		136,000
	40	76.5	153.9	106,700	126,100
	42	75.7	153.4	99,700	117,500
	44	74.9	152.9	93,500	109,900
	46	74.1	152.4	87,900	103,200
	48	73.3	151.8	82,900	97,100
	50	72.5	151.2	78,400	91,700
	55	70.5	149.5	68,700	80,200
	60	68.5	147.6	60,900	71,000
	65	66.4	145.5	54,500	63,500
	70	64.3	143.3	49,100	57,200
	75	62.2	140.7	44,600	51,900
	80	60.0	138.0	40,600	47,400
	85	57.8	135.0	37,200	43,400
90	55.5	131.7	34,200	40,000	
95	53.1	128.1	31,500	36,900	
100	50.7	124.2	29,200	34,200	
105	48.2	119.9	27,000	31,700	
110	45.6	115.2	25,100	29,500	
115	42.8	110.0	23,300	27,600	
120	39.9	104.4	21,700	25,700	
125	36.9	98.1	20,300	24,100	
130	33.6	91.0	18,900	22,500	
135	29.9	82.9	17,700	21,100	
140	25.8	73.5	16,500	19,800	
145	21.0	61.9	15,400	18,600	
<b>160</b>	30	81.0	166.1		194,600
	32	80.3	165.8		175,900
	34	79.6	165.4		160,200
	36	78.8	165.0	123,500	147,000
	38	78.1	164.6	114,300	135,600
	40	77.4	164.2	106,400	125,800
	42	76.6	163.7	99,300	117,200
	44	75.9	163.2	93,100	109,600
	46	75.2	162.7	87,500	102,800
	48	74.4	162.2	82,500	96,800
	50	73.7	161.6	77,900	91,300
	55	71.8	160.1	68,300	79,800
	60	69.9	158.3	60,500	70,600
	65	68.0	156.4	54,100	63,100
	70	66.0	154.3	48,700	56,800
	75	64.1	151.9	44,200	51,500
	80	62.0	149.4	40,200	47,000
	85	60.0	146.6	36,800	43,000
90	57.9	143.6	33,800	39,600	
95	55.8	140.4	31,100	36,500	
100	53.6	136.8	28,700	33,800	
105	51.3	133.0	26,600	31,300	
110	49.0	128.8	24,700	29,100	
115	46.6	124.3	22,900	27,200	
120	44.0	119.3	21,300	25,300	
125	41.4	113.9	19,900	23,700	
130	38.6	107.9	18,500	22,200	
135	35.7	101.3	17,300	20,800	
140	32.5	93.9	16,100	19,500	
145	29.0	85.5	15,000	18,200	
150	25.0	75.7	14,000	17,100	
155	20.4	63.7	13,100	16,000	

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BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY	BOOM CAPACITY
				CRAWLERS RETRACTED POUNDS	CRAWLERS EXTENDED POUNDS
170	32	80.9	175.9		175,700
	34	80.2	175.6	133,800	160,000
	36	79.5	175.2	123,200	146,800
	38	78.8	174.8	114,100	135,400
	40	78.1	174.4	106,100	125,600
	42	77.4	174.0	99,100	116,900
	44	76.7	173.5	92,800	109,300
	46	76.0	173.1	87,200	102,600
	48	75.3	172.5	82,200	96,500
	50	74.7	172.0	77,700	91,100
	55	72.9	170.5	68,000	79,600
	60	71.1	168.9	60,200	70,400
	65	69.3	167.1	53,800	62,900
	70	67.5	165.2	48,500	56,600
	75	65.7	163.0	43,900	51,300
	80	63.8	160.6	39,900	46,700
	85	61.9	158.1	36,500	42,700
	90	60.0	155.3	33,500	39,300
	95	58.0	152.3	30,800	36,200
	100	56.0	149.0	28,500	33,500
105	54.0	145.5	26,300	31,100	
110	51.9	141.8	24,400	28,900	
115	49.7	137.7	22,700	26,900	
120	47.4	133.3	21,100	25,100	
125	45.1	128.5	19,600	23,400	
130	42.7	123.3	18,300	21,900	
135	40.1	117.6	17,000	20,500	
140	37.4	111.4	15,900	19,200	
145	34.6	104.5	14,800	18,000	
150	31.5	96.8	13,800	16,900	
155	28.1	88.1	12,900	15,800	
160	24.2	77.9	12,000	14,800	
165	19.7	65.5	11,200	13,900	
180	34	80.7	185.7	133,400	159,700
	36	80.1	185.4	122,800	146,400
	38	79.4	185.0	113,700	135,000
	40	78.8	184.6	105,700	125,200
	42	78.1	184.2	98,700	116,600
	44	77.5	183.8	92,400	109,000
	46	76.8	183.3	86,800	102,200
	48	76.2	182.9	81,800	96,100
	50	75.5	182.4	77,300	90,700
	55	73.9	181.0	67,600	79,200
	60	72.2	179.5	59,800	70,000
	65	70.5	177.8	53,400	62,400
	70	68.8	175.9	48,000	56,200
	75	67.1	173.9	43,500	50,800
	80	65.4	171.7	39,500	46,300
	85	63.6	169.3	36,100	42,300
	90	61.8	166.7	33,100	38,900
	95	60.0	164.0	30,400	35,800
	100	58.1	161.0	28,000	33,100
	105	56.3	157.7	25,900	30,700
110	54.3	154.3	24,000	28,500	
115	52.3	150.5	22,200	26,500	
120	50.3	146.5	20,600	24,700	
125	48.2	142.2	19,200	23,000	
130	46.0	137.6	17,800	21,500	
135	43.8	132.6	16,600	20,100	
140	41.4	127.1	15,500	18,800	
145	38.9	121.2	14,400	17,600	
150	36.3	114.7	13,400	16,500	
155	33.6	107.6	12,500	15,400	
160	30.6	99.6	11,600	14,500	
165	27.3	90.5	10,800	13,500	
170	23.6	80.0	10,000	12,700	
175	19.2	67.2	9,300	11,800	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY	BOOM CAPACITY
				CRAWLERS RETRACTED POUNDS	CRAWLERS EXTENDED POUNDS
190	36	80.6	195.5	122,500	146,200
	38	80.0	195.2	113,400	134,800
	40	79.4	194.8	105,400	124,900
	42	78.8	194.4	98,300	116,300
	44	78.2	194.0	92,000	108,600
	46	77.5	193.6	86,400	101,800
	48	76.9	193.1	81,400	95,800
	50	76.3	192.7	76,900	90,300
	55	74.7	191.4	67,200	78,800
	60	73.2	189.9	59,400	69,600
	65	71.6	188.3	52,900	62,000
	70	70.0	186.6	47,500	55,700
	75	68.4	184.7	43,000	50,400
	80	66.8	182.6	39,000	45,800
	85	65.1	180.4	35,600	41,800
	90	63.4	178.0	32,600	38,400
	95	61.7	175.4	29,900	35,300
	100	60.0	172.6	27,500	32,600
	105	58.2	169.6	25,400	30,100
	110	56.5	166.4	23,500	28,000
115	54.6	163.0	21,700	26,000	
120	52.8	159.3	20,100	24,200	
125	50.8	155.4	18,700	22,500	
130	48.9	151.2	17,300	21,000	
135	46.8	146.6	16,100	19,600	
140	44.7	141.8	14,900	18,300	
145	42.5	136.5	13,900	17,100	
150	40.3	130.8	12,900	16,000	
155	37.9	124.7	11,900	14,900	
160	35.3	118.0	11,100	13,900	
165	32.6	110.5	10,300	13,000	
170	29.7	102.3	9,500	12,200	
175	26.5	92.9	8,800	11,300	
180	22.9	82.1	8,100	10,600	
185	18.7	68.9	7,400	9,800	
200	38	80.5	205.3	113,000	134,400
	40	79.9	205.0	104,900	124,500
	42	79.3	204.6	97,900	115,900
	44	78.8	204.2	91,600	108,200
	46	78.2	203.8	86,000	101,400
	48	77.6	203.4	81,000	95,400
	50	77.0	202.9	76,400	89,900
	55	75.5	201.7	66,700	78,400
	60	74.0	200.4	58,900	69,100
	65	72.5	198.9	52,500	61,600
	70	71.0	197.2	47,100	55,300
	75	69.5	195.4	42,500	49,900
	80	68.0	193.5	38,600	45,400
	85	66.4	191.4	35,100	41,400
	90	64.8	189.1	32,100	37,900
	95	63.3	186.7	29,400	34,900
	100	61.6	184.1	27,100	32,100
	105	60.0	181.3	24,900	29,700
	110	58.3	178.3	23,000	27,500
	115	56.6	175.1	21,300	25,500
120	54.9	171.7	19,700	23,700	
125	53.1	168.1	18,200	22,100	
130	51.3	164.2	16,900	20,500	
135	49.5	160.1	15,600	19,100	
140	47.5	155.6	14,500	17,800	
145	45.6	150.9	13,400	16,600	
150	43.5	145.8	12,400	15,500	
155	41.4	140.4	11,500	14,500	
160	39.2	134.5	10,600	13,500	
165	36.9	128.1	9,800	12,600	
170	34.4	121.1	9,100	11,700	
175	31.8	113.4	8,300	10,900	
180	29.0	104.9	7,700	10,200	
185	25.8	95.2	7,000	9,400	
190	22.3	84.1	6,400	8,700	
195	18.2	70.5	5,800	8,100	

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BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY	BOOM CAPACITY	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY	BOOM CAPACITY
				RETRACTED POUNDS	EXTENDED POUNDS					RETRACTED POUNDS	EXTENDED POUNDS
<b>210</b>	38	81.0	215.5	112,800	134,200	<b>230</b>	42	80.7	235.1	96,800	114,800
	40	80.4	215.1	104,700	124,300		44	80.2	234.7	90,500	107,200
	42	79.9	214.8	97,600	115,700		46	79.7	234.4	84,800	100,400
	44	79.3	214.4	91,400	108,000		48	79.2	234.0	79,800	94,300
	46	78.7	214.0	85,700	101,200		50	78.7	233.6	75,200	88,800
	48	78.2	213.6	80,700	95,100		55	77.4	232.6	65,500	77,200
	50	77.6	213.2	76,100	89,700		60	76.2	231.4	57,700	67,900
	55	76.2	212.0	66,400	78,100		65	74.9	230.1	51,200	60,400
	60	74.8	210.7	58,600	68,800		70	73.6	228.7	45,800	54,000
	65	73.4	209.3	52,200	61,300		75	72.3	227.2	41,200	48,700
	70	72.0	207.8	46,800	55,000		80	71.0	225.5	37,200	44,100
	75	70.5	206.1	42,200	49,600		85	69.6	223.7	33,800	40,100
	80	69.1	204.2	38,200	45,000		90	68.3	221.8	30,800	36,600
	85	67.6	202.2	34,800	41,100		95	67.0	219.7	28,100	33,600
	90	66.1	200.1	31,700	37,600		100	65.6	217.5	25,700	30,800
	95	64.6	197.8	29,100	34,500		105	64.2	215.2	23,600	28,400
	100	63.1	195.4	26,700	31,800		110	62.8	212.7	21,600	26,200
	105	61.6	192.7	24,500	29,300		115	61.4	210.1	19,900	24,200
	110	60.0	189.9	22,600	27,100		120	60.0	207.3	18,300	22,400
	115	58.4	187.0	20,900	25,100		125	58.6	204.3	16,800	20,700
120	56.8	183.8	19,300	23,300	130	57.1	201.1	15,500	19,200		
125	55.2	180.4	17,800	21,700	135	55.6	197.8	14,300	17,800		
130	53.5	176.8	16,500	20,200	140	54.1	194.3	13,100	16,500		
135	51.8	173.0	15,200	18,800	145	52.5	190.6	12,100	15,300		
140	50.0	168.9	14,100	17,500	150	50.9	186.6	11,100	14,200		
145	48.2	164.6	13,000	16,300	155	49.3	182.4	10,100	13,100		
150	46.3	160.0	12,000	15,100	160	47.6	178.0	9,300	12,200		
155	44.4	155.0	11,100	14,100	165	45.9	173.3	8,500	11,300		
160	42.4	149.8	10,300	13,100	170	44.2	168.3	7,700	10,400		
165	40.4	144.1	9,400	12,200	175	42.3	163.0	7,000	9,600		
170	38.2	138.0	8,700	11,400	180	40.5	157.3	6,300	8,900		
175	36.0	131.4	8,000	10,600	185	38.5	151.2	5,700	8,100		
180	33.6	124.2	7,300	9,800	190	36.5	144.7	5,100	7,500		
185	31.0	116.2	6,600	9,100	195	34.3	137.7	4,500	6,800		
190	28.2	107.4	6,000	8,400	200	32.0	130.0	4,000	6,200		
195	25.2	97.5	5,400	7,700	205	29.6	121.6		5,600		
200	21.8	86.0	4,900	7,100	210	27.0	112.4		5,100		
205	17.8	72.1	4,300	6,500	215	24.1	101.9		4,500		
					220	20.8	89.8		4,000		
<b>220</b>	40	80.8	225.3	104,200	123,800	<b>240</b>	44	80.6	244.9	90,000	106,800
	42	80.3	224.9	97,100	115,100		46	80.2	244.5	84,400	99,900
	44	79.8	224.6	90,800	107,500		48	79.7	244.2	79,300	93,800
	46	79.3	224.2	85,200	100,700		50	79.2	243.8	74,800	88,400
	48	78.7	223.8	80,200	94,600		55	78.0	242.8	65,000	76,800
	50	78.2	223.4	75,600	89,100		60	76.8	241.7	57,200	67,500
	55	76.9	222.3	65,900	77,600		65	75.5	240.4	50,700	59,900
	60	75.5	221.1	58,100	68,300		70	74.3	239.1	45,300	53,600
	65	74.2	219.7	51,700	60,800		75	73.0	237.6	40,700	48,200
	70	72.8	218.2	46,300	54,500		80	71.8	236.0	36,800	43,600
	75	71.4	216.6	41,700	49,100		85	70.5	234.3	33,300	39,600
	80	70.1	214.9	37,700	44,600		90	69.3	232.5	30,300	36,200
	85	68.7	213.0	34,300	40,600		95	68.0	230.6	27,600	33,100
	90	67.3	211.0	31,300	37,100		100	66.7	228.5	25,200	30,400
	95	65.9	208.8	28,600	34,000		105	65.4	226.2	23,100	27,900
	100	64.4	206.5	26,200	31,300		110	64.1	223.9	21,200	25,700
	105	63.0	204.0	24,100	28,900		115	62.7	221.4	19,400	23,700
	110	61.5	201.4	22,200	26,700		120	61.4	218.7	17,800	21,900
	115	60.0	198.6	20,400	24,700		125	60.0	215.9	16,400	20,200
	120	58.5	195.6	18,800	22,900		130	58.6	212.9	15,000	18,700
125	56.9	192.5	17,400	21,200	135	57.2	209.8	13,800	17,300		
130	55.4	189.1	16,000	19,700	140	55.8	206.5	12,600	16,000		
135	53.8	185.6	14,800	18,300	145	54.3	203.0	11,600	14,800		
140	52.1	181.8	13,700	17,000	150	52.8	199.3	10,600	13,700		
145	50.5	177.8	12,600	15,800	155	51.3	195.4	9,700	12,700		
150	48.8	173.5	11,600	14,700	160	49.8	191.3	8,800	11,700		
155	47.0	169.0	10,700	13,700	165	48.2	187.0	8,000	10,800		
160	45.2	164.2	9,800	12,700	170	46.6	182.4	7,200	9,900		
165	43.3	159.1	9,000	11,800	175	44.9	177.5	6,500	9,100		
170	41.4	153.6	8,300	10,900	180	43.2	172.3	5,900	8,400		
175	39.4	147.7	7,600	10,100	185	41.4	166.8	5,200	7,700		
180	37.3	141.4	6,900	9,400	190	39.6	161.0	4,600	7,000		
185	35.1	134.6	6,200	8,700	195	37.7	154.7	4,000	6,400		
190	32.8	127.1	5,600	8,000	200	35.7	148.0		5,700		
195	30.3	119.0	5,100	7,300	205	33.6	140.7		5,200		
200	27.6	109.9	4,500	6,700	210	31.3	132.9		4,600		
205	24.6	99.7	4,000	6,100	215	29.0	124.3		4,100		
210	21.3	87.9		5,600							
215	17.3	73.6		5,000							

# MANITOWOC ENGINEERING CO.

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



## LIFTCRANE BOOM CAPACITIES

MEETS  
ANSI B30.5  
REQUIREMENTS

## 888 SERIES 1

**BOOM NO. 22E WITH LIGHT TAPERED TOP**  
**144,100 LB. COUNTERWEIGHT**  
**360 DEGREE RATING**

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY	BOOM CAPACITY
				CRAWLERS RETRACTED POUNDS	CRAWLERS EXTENDED POUNDS
250	44	81.0	255.0	89,800	106,600
	46	80.6	254.7	84,100	99,700
	48	80.1	254.3	79,100	93,600
	50	79.6	254.0	74,500	88,100
	55	78.5	253.0	64,800	76,500
	60	77.3	251.9	56,900	67,200
	65	76.1	250.8	50,500	59,600
	70	74.9	249.5	45,000	53,300
	75	73.7	248.1	40,400	47,900
	80	72.5	246.6	36,500	43,300
	85	71.3	244.9	33,000	39,400
	90	70.1	243.2	30,000	35,900
	95	68.9	241.3	27,300	32,800
	100	67.7	239.3	24,900	30,100
	105	66.4	237.2	22,800	27,600
	110	65.2	235.0	20,900	25,400
	115	63.9	232.6	19,100	23,400
	120	62.6	230.0	17,500	21,600
	125	61.3	227.4	16,000	19,900
	130	60.0	224.6	14,700	18,400
	135	58.7	221.6	13,500	17,000
140	57.3	218.5	12,300	15,700	
145	55.9	215.2	11,300	14,500	
150	54.5	211.7	10,300	13,400	
155	53.1	208.1	9,400	12,400	
160	51.7	204.2	8,500	11,400	
165	50.2	200.2	7,700	10,500	
170	48.7	195.9	6,900	9,600	
175	47.2	191.4	6,200	8,800	
180	45.6	186.6	5,600	8,100	
185	43.9	181.6	4,900	7,400	
190	42.3	176.2	4,300	6,700	
195	40.5	170.5	6,100	6,100	
200	38.7	164.5	5,400	5,400	
205	36.9	158.1	4,900	4,900	
210	34.9	151.2	4,300	4,300	
260	46	80.9	264.8	83,700	99,300
	48	80.5	264.5	78,600	93,200
	50	80.0	264.1	74,100	87,700
	55	78.9	263.2	64,300	76,100
	60	77.8	262.2	56,500	66,800
	65	76.7	261.1	50,000	59,200
	70	75.5	259.8	44,600	52,800
	75	74.4	258.5	40,000	47,500
	80	73.2	257.0	36,000	42,900
	85	72.1	255.5	32,500	38,900
	90	70.9	253.8	29,500	35,400
	95	69.7	252.0	26,800	32,300
	100	68.6	250.1	24,400	29,600
	105	67.4	248.1	22,300	27,100
	110	66.2	245.9	20,400	24,900
	115	65.0	243.7	18,600	22,900
	120	63.7	241.3	17,000	21,100
	125	62.5	238.7	15,600	19,500
	130	61.3	236.0	14,200	17,900
	135	60.0	233.2	13,000	16,500
	140	58.7	230.3	11,800	15,200
145	57.4	227.2	10,800	14,000	
150	56.1	223.9	9,800	12,900	
155	54.8	220.4	8,900	11,900	
160	53.4	216.8	8,000	10,900	
165	52.0	213.0	7,200	10,000	
170	50.6	209.0	6,500	9,200	
175	49.2	204.8	5,700	8,400	
180	47.7	200.4	5,100	7,600	
185	46.2	195.7	4,400	6,900	
190	44.6	190.8	6,200	6,200	
195	43.0	185.6	5,600	5,600	
200	41.4	180.0	5,000	5,000	
205	39.7	174.2	4,400	4,400	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY	BOOM CAPACITY
				CRAWLERS RETRACTED POUNDS	CRAWLERS EXTENDED POUNDS
270	48	80.8	274.6	78,300	91,300*
	50	80.4	274.3	73,700	87,300
	55	79.3	273.4	63,900	75,700
	60	78.2	272.4	56,000	66,400
	65	77.2	271.3	49,500	58,800
	70	76.1	270.1	44,100	52,400
	75	75.0	268.8	39,500	47,000
	80	73.9	267.4	35,500	42,400
	85	72.8	265.9	32,100	38,400
	90	71.7	264.3	29,000	34,900
	95	70.5	262.6	26,300	31,800
	100	69.4	260.8	23,900	29,100
	105	68.3	258.9	21,800	26,600
	110	67.1	256.8	19,900	24,400
	115	66.0	254.6	18,100	22,400
	120	64.8	252.4	16,500	20,600
	125	63.6	249.9	15,000	18,900
	130	62.4	247.4	13,700	17,400
	135	61.2	244.7	12,500	16,000
	140	60.0	241.9	11,300	14,700
	145	58.8	238.9	10,200	13,500
150	57.5	235.8	9,300	12,400	
155	56.3	232.6	8,300	11,400	
160	55.0	229.1	7,500	10,400	
165	53.7	225.6	6,700	9,500	
170	52.3	221.8	5,900	8,600	
175	51.0	217.8	5,200	7,800	
180	49.6	213.7	4,500	7,100	
185	48.2	209.3	6,400	6,400	
190	46.7	204.7	5,700	5,700	
195	45.3	199.9	5,000	5,000	
200	43.8	194.8	4,400	4,400	
280	50	80.8	284.4	73,200	82,800*
	55	79.7	283.6	63,400	75,200
	60	78.7	282.6	55,500	65,900
	65	77.6	281.6	49,100	58,300
	70	76.6	280.4	43,600	51,900
	75	75.5	279.2	39,000	46,600
	80	74.5	277.8	35,000	41,900
	85	73.4	276.4	31,600	37,900
	90	72.3	274.9	28,500	34,400
	95	71.3	273.2	25,800	31,400
	100	70.2	271.5	23,400	28,600
	105	69.1	269.6	21,300	26,200
	110	68.0	267.6	19,400	23,900
	115	66.9	265.6	17,600	21,900
	120	65.8	263.4	16,000	20,100
125	64.6	261.1	14,500	18,500	
130	63.5	258.6	13,200	16,900	
135	62.3	256.1	12,000	15,500	
140	61.2	253.4	10,800	14,200	
145	60.0	250.6	9,700	13,000	
150	58.8	247.6	8,800	11,900	
155	57.6	244.5	7,800	10,900	
160	56.4	241.3	7,000	9,900	
165	55.2	237.9	6,200	9,000	
170	53.9	234.3	5,400	8,100	
175	52.6	230.6	4,700	7,300	
180	51.3	226.6	4,000	6,600	
185	50.0	222.5	5,900	5,900	
190	48.6	218.2	5,200	5,200	
195	47.3	213.7	4,600	4,600	