

MANITOWOC ENGINEERING CO.

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



LIFTCRANE BOOM CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

888 SERIES 2

BOOM NO. 22E WITH OPEN THROAT TOP
179,100 LB. CRANE COUNTERWEIGHT
44,000 LB. CARBODY COUNTERWEIGHT
28' 2" CRAWLERS EXTENDED
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 EXTENDED AND BLOCKED. CAPACITIES BASED ON STRUCTURAL COMPETENCE ARE DENOTED BY AN ASTERISK (*).

UPPER BOOM POINT CAPACITY FOR LIFTCRANE SERVICE WITH SINGLE PART WHIP LINE OR COMBINATION OF TWO SINGLE PART LINES 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 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, CRAWLERS FULLY EXTENDED, AND FRONT TUMBLER PROPERLY BLOCKED SO THAT CENTERLINE OF IDLER TUMBLER BECOMES TIPPING FULCRUM. DRIVE MOTORS MUST BE TO REAR OF MACHINE. SWING IS LIMITED TO THAT SECTOR SHOWN ON OPERATING RANGE DIAGRAM NO. 7770-A. REFER TO BOOM RIGGING NO. 176519 AND WIRE ROPE SPECIFICATION CHART NO. 7773-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. REFER TO OPERATORS MANUAL FOR OPERATING GUIDELINES.

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, 179,100 LB. CRANE COUNTERWEIGHT, AND 44,000 LB. CARBODY 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.

DEDUCT 4,000 LBS. FROM CAPACITIES
WHEN BOOM BUTT IS EQUIPPED
WITH AUXILIARY DRUM.

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED OVER FRONT OF BLOCKED CRAWLERS WITHOUT AUXILIARY DRUM IN BOOM BUTT	
BOOM LENGTH	JIB NO. 123
(a) 290'	---
280'	---
270'	30'
260'	60'
LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START. (a) UPPER BOOM POINT CANNOT BE USED ON 290' BOOM.	

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED OVER FRONT OF BLOCKED CRAWLERS WITH AUXILIARY DRUM IN BOOM BUTT	
BOOM LENGTH	JIB NO. 123
(a) 280'	---
270'	---
260'	50'
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.

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28' 2" CRAWLERS EXTENDED

RATING OVER FRONT OF BLOCKED CRAWLERS

NO TRAVEL - LIMITED SWING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
70	15	81.8	77.4	460,000*
	16	81.0	77.2	434,600*
	17	80.1	77.0	410,800*
	18	79.3	76.9	389,300*
	19	78.5	76.7	370,000*
	20	77.6	76.4	352,400*
	22	75.9	76.0	321,600*
	24	74.3	75.4	295,600*
	26	72.5	74.8	273,300*
	28	70.8	74.2	254,000*
	30	69.1	73.5	237,200*
	32	67.3	72.7	222,300*
	34	65.5	71.8	209,000*
	36	63.7	70.8	197,200*
80	38	61.9	69.8	186,500*
	40	60.0	68.7	176,900*
	42	58.1	67.5	168,100*
	44	56.1	66.2	160,100*
	46	54.1	64.8	152,700*
	48	52.1	63.3	146,000*
	50	50.0	61.7	139,700*
	55	44.4	57.1	124,400
	60	38.2	51.4	110,000
	65	31.0	44.1	96,900*
	70	21.8	34.0	75,500*
90	17	81.4	87.2	410,100*
	18	80.6	87.0	388,700*
	19	79.9	86.8	369,300*
	20	79.2	86.7	351,800*
	22	77.7	86.2	321,000*
	24	76.3	85.8	295,000*
	26	74.8	85.3	272,700*
	28	73.3	84.7	253,400*
	30	71.8	84.1	236,500*
	32	70.3	83.4	221,600*
	34	68.7	82.6	208,400*
	36	67.2	81.8	196,600*
	38	65.6	80.9	185,900*
	40	64.1	80.0	176,300*
100	42	62.5	79.0	167,500*
	44	60.8	77.9	159,500*
	46	59.2	76.8	152,200*
	48	57.5	75.5	145,400*
	50	55.8	74.2	139,200*
	55	51.3	70.5	124,300
	60	46.6	66.2	110,000
	65	41.4	61.0	98,300
	70	35.7	54.7	88,700
	75	29.0	46.8	80,300*
	80	20.4	35.9	65,600*
110	18	81.7	97.1	378,000*
	19	81.1	97.0	368,600*
	20	80.4	96.8	351,000*
	22	79.1	96.4	320,300*
	24	77.8	96.0	294,200*
	26	76.5	95.6	272,000*
	28	75.2	95.1	252,700*
	30	73.9	94.5	235,800*
	32	72.5	93.9	220,900*
	34	71.2	93.3	207,700*
	36	69.9	92.6	195,900*
	38	68.5	91.8	185,200*
	40	67.1	91.0	175,600*
	42	65.7	90.1	166,800*
	44	64.3	89.2	158,800*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
90	46	62.9	88.2	151,500*
	48	61.5	87.1	144,700*
	50	60.0	86.0	138,500*
	55	56.3	82.9	124,100
	60	52.3	79.3	109,800
	65	48.2	75.2	98,100
	70	43.8	70.3	88,500
	75	38.9	64.6	80,400
	80	33.6	57.8	73,400
	85	27.3	49.3	67,400
	90	19.2	37.6	57,100*
100	19	82.0	107.1	364,000*
	20	81.4	106.9	350,600*
	22	80.2	106.6	319,800*
	24	79.0	106.2	293,800*
	26	77.9	105.8	271,500*
	28	76.7	105.4	252,200*
	30	75.5	104.9	235,300*
	32	74.3	104.4	220,400*
	34	73.1	103.8	207,200*
	36	71.9	103.1	195,400*
	38	70.7	102.5	184,700*
	40	69.5	101.7	175,100*
	42	68.3	101.0	166,300*
	44	67.0	100.2	158,300*
110	46	65.8	99.3	151,000*
	48	64.5	98.4	144,300*
	50	63.3	97.4	138,000*
	55	60.0	94.7	124,100
	60	56.6	91.6	109,700
	65	53.1	88.1	98,000
	70	49.5	84.1	88,400
	75	45.6	79.5	80,300
	80	41.4	74.2	73,300
	85	36.9	68.1	67,300
	90	31.8	60.7	62,100
	95	25.8	51.7	57,500
	100	18.2	39.3	50,000*
120	22	81.1	116.7	314,400*
	24	80.1	116.4	292,900*
	26	79.0	116.0	270,700*
	28	77.9	115.6	251,400*
	30	76.9	115.2	234,500*
	32	75.8	114.7	219,600*
	34	74.7	114.2	206,400*
	36	73.6	113.6	194,500*
	38	72.5	113.0	183,900*
	40	71.4	112.4	174,300*
	42	70.3	111.7	165,500*
	44	69.2	110.9	157,500*
	46	68.1	110.1	150,200*
	48	67.0	109.3	143,400*
130	50	65.9	108.4	137,200*
	55	63.0	106.0	123,600*
	60	60.0	103.3	109,400*
	65	56.9	100.3	97,700
	70	53.8	96.8	88,000
	75	50.5	92.9	79,900
	80	47.0	88.5	73,000
	85	43.3	83.6	67,000
	90	39.4	77.9	61,700
	95	35.1	71.3	57,100
	100	30.3	63.5	53,000
	105	24.6	53.9	49,200*
	110	17.3	40.9	42,900*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
120	22	81.9	126.9	305,900*
	24	80.9	126.6	292,300*
	26	79.9	126.2	270,000*
	28	78.9	125.8	250,700*
	30	78.0	125.4	233,800*
	32	77.0	125.0	219,000*
	34	76.0	124.5	205,700*
	36	75.0	124.0	193,900*
	38	74.0	123.4	183,300*
	40	73.0	122.9	173,600*
	42	72.0	122.2	164,900*
	44	71.0	121.6	156,900*
	46	70.0	120.8	149,600*
	48	69.0	120.1	142,800*
130	50	68.0	119.3	136,600*
	55	65.4	117.2	123,000*
	60	62.7	114.7	109,100
	65	60.0	112.0	97,400
	70	57.2	108.9	87,700
	75	54.3	105.5	79,600
	80	51.3	101.7	72,700
	85	48.2	97.5	66,700
	90	44.9	92.8	61,500
	95	41.4	87.4	56,900
	100	37.7	81.4	52,800
	105	33.6	74.4	49,200
	110	29.0	66.2	45,900
	115	23.6	56.0	42,500*
140	120	16.6	42.3	37,100*
	24	81.6	136.7	277,300*
	26	80.7	136.4	269,600*
	28	79.8	136.0	250,400*
	30	78.9	135.6	233,500*
	32	78.0	135.2	218,600*
	34	77.1	134.8	205,400*
	36	76.2	134.3	193,600*
	38	75.3	133.8	182,900*
	40	74.4	133.3	173,300*
	42	73.5	132.7	164,600*
	44	72.5	132.1	156,600*
	46	71.6	131.4	149,300*
	48	70.7	130.8	142,500*
	50	69.7	130.0	136,300*
	55	67.4	128.1	122,700*
	60	65.0	125.9	109,000
	65	62.5	123.4	97,300
	70	60.0	120.7	87,700
	75	57.4	117.6	79,500
	80	54.8	114.3	72,600
	85	52.0	110.5	66,600
	90	49.2	106.4	61,400
	95	46.2	101.9	56,800
	100	43.0	96.8	52,700
	105	39.7	91.1	49,100
	110	36.1	84.7	45,800
	115	32.2	77.4	42,800
	120	27.8	68.7	40,100
	125	22.6	58.1	37,000*
	130	15.9	43.8	32,400*

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BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
140	26	81.4	146.5	260,300*
	28	80.5	146.2	249,700*
	30	79.7	145.8	232,800*
	32	78.9	145.4	217,900*
	34	78.0	145.0	204,700*
	36	77.2	144.6	192,900*
	38	76.4	144.1	182,300*
	40	75.5	143.6	172,700*
	42	74.7	143.1	163,900*
	44	73.8	142.5	155,900*
	46	73.0	141.9	148,600*
	48	72.1	141.3	141,900*
	50	71.3	140.6	135,700*
	55	69.1	138.8	122,100*
	60	66.9	136.8	108,700*
	65	64.6	134.6	97,000*
	70	62.3	132.1	87,400*
	75	60.0	129.3	79,200*
	80	57.6	126.3	72,300*
	85	55.2	123.0	66,300*
150	90	52.6	119.3	61,100*
	95	50.0	115.3	56,500*
	100	47.3	110.9	52,400*
	105	44.4	106.0	48,800*
	110	41.4	100.7	45,500*
	115	38.2	94.7	42,500*
	120	34.8	87.9	39,900*
	125	31.0	80.2	37,400*
	130	26.8	71.1	35,100*
	135	21.8	60.0	32,100*
	140	15.4	45.2	28,000*
	26	82.0	156.6	240,500*
	28	81.2	156.3	235,500*
	30	80.4	156.0	230,700*
	32	79.6	155.6	217,100*
	34	78.9	155.2	203,900*
	36	78.1	154.8	192,000*
	38	77.3	154.4	181,400*
	40	76.5	153.9	171,800*
	42	75.7	153.4	163,100*
	44	74.9	152.9	155,100*
160	46	74.1	152.4	147,800*
	48	73.3	151.8	141,000*
	50	72.5	151.2	134,800*
	55	70.5	149.5	121,200*
	60	68.5	147.6	108,300*
	65	66.4	145.5	96,600*
	70	64.3	143.3	86,900*
	75	62.2	140.7	78,800*
	80	60.0	138.0	71,800*
	85	57.8	135.0	65,800*
	90	55.5	131.7	60,600*
	95	53.1	128.1	56,000*
	100	50.7	124.2	51,900*
	105	48.2	119.9	48,300*
	110	45.6	115.2	45,000*
	115	42.8	110.0	42,100*
	120	39.9	104.4	39,400*
	125	36.9	98.1	36,900*
	130	33.6	91.0	34,700*
	135	29.9	82.9	32,600*
170	140	25.8	73.5	30,700*
	145	21.0	61.9	27,500*
	28	81.7	166.4	225,000*
	30	81.0	166.1	220,500*
	32	80.3	165.8	216,100*
	34	79.6	165.4	203,100*
	36	78.8	165.0	191,300*
	38	78.1	164.6	180,700*
	40	77.4	164.2	171,100*
	42	76.6	163.7	162,400*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
160	44	75.9	163.2	154,400*
	46	75.2	162.7	147,100*
	48	74.4	162.2	140,300*
	50	73.7	161.6	134,100*
	55	71.8	160.1	120,500*
	60	69.9	158.3	108,000*
	65	68.0	156.4	96,200*
	70	66.0	154.3	86,500*
	75	64.1	151.9	78,400*
	80	62.0	149.4	71,400*
	85	60.0	146.6	65,500*
	90	57.9	143.6	60,200*
	95	55.8	140.4	55,600*
	100	53.6	136.8	51,600*
	105	51.3	133.0	47,900*
	110	49.0	128.8	44,600*
	115	46.6	124.3	41,700*
	120	44.0	119.3	39,000*
	125	41.4	113.9	36,600*
	130	38.6	107.9	34,300*
170	135	35.7	101.3	32,200*
	140	32.5	93.9	30,300*
	145	29.0	85.5	28,600*
	150	25.0	75.7	26,600*
	155	20.4	63.7	23,600*
	30	81.5	176.2	208,300*
	32	80.9	175.9	204,500*
	34	80.2	175.6	200,900*
	36	79.5	175.2	190,800*
	38	78.8	174.8	180,200*
	40	78.1	174.4	170,600*
	42	77.4	174.0	161,900*
	44	76.7	173.5	153,900*
	46	76.0	173.1	146,600*
	48	75.3	172.5	139,900*
	50	74.7	172.0	133,700*
	55	72.9	170.5	120,100*
	60	71.1	168.9	107,700*
	65	69.3	167.1	96,000*
	70	67.5	165.2	86,300*
180	75	65.7	163.0	78,100*
	80	63.8	160.6	71,200*
	85	61.9	158.1	65,200*
	90	60.0	155.3	60,000*
	95	58.0	152.3	55,400*
	100	56.0	149.0	51,300*
	105	54.0	145.5	47,700*
	110	51.9	141.8	44,400*
	115	49.7	137.7	41,400*
	120	47.4	133.3	38,800*
	125	45.1	128.5	36,300*
	130	42.7	123.3	34,100*
	135	40.1	117.6	32,000*
	140	37.4	111.4	30,100*
	145	34.6	104.5	28,300*
	150	31.5	96.8	26,700*
	155	28.1	88.1	25,200*
	160	24.2	77.9	23,000*
	165	19.7	65.5	20,400*
	30	82.0	186.3	197,700*
	32	81.4	186.0	194,200*
	34	80.7	185.7	190,800*
	36	80.1	185.4	187,400*
	38	79.4	185.0	179,500*
190	40	78.8	184.6	169,900*
	42	78.1	184.2	161,200*
	44	77.5	183.8	153,200*
	46	76.8	183.3	145,900*
	48	76.2	182.9	139,200*
	50	75.5	182.4	133,000*
	55	73.9	181.0	119,400*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
180	60	72.2	179.5	107,400*
	65	70.5	177.8	95,600*
	70	68.8	175.9	85,900*
	75	67.1	173.9	77,800*
	80	65.4	171.7	70,800*
	85	63.6	169.3	64,800*
	90	61.8	166.7	59,600*
	95	60.0	164.0	55,000*
	100	58.1	161.0	50,900*
	105	56.3	157.7	47,200*
	110	54.3	154.3	44,000*
	115	52.3	150.5	41,000*
	120	50.3	146.5	38,300*
	125	48.2	142.2	35,900*
	130	46.0	137.6	33,700*
	135	43.8	132.6	31,600*
	140	41.4	127.1	29,700*
	145	38.9	121.2	27,900*
	150	36.3	114.7	26,300*
	155	33.6	107.6	24,800*
190	160	30.6	99.6	23,400*
	165	27.3	90.5	21,900*
	170	23.6	80.0	19,600*
	175	19.2	67.2	17,200*
	32	81.8	196.1	181,000*
	34	81.2	195.8	178,100*
	36	80.6	195.5	175,200*
	38	80.0	195.2	172,400*
	40	79.4	194.8	169,000*
	42	78.8	194.4	160,300*
	44	78.2	194.0	152,300*
	46	77.5	193.6	145,000*
	48	76.9	193.1	138,300*
	50	76.3	192.7	132,100*
	55	74.7	191.4	118,500*
	60	73.2	189.9	107,000*
	65	71.6	188.3	95,200*
	70	70.0	186.6	85,500*
	75	68.4	184.7	77,300*
	80	66.8	182.6	70,400*
200	85	65.1	180.4	64,300*
	90	63.4	178.0	59,100*
	95	61.7	175.4	54,500*
	100	60.0	172.6	50,400*
	105	58.2	169.6	46,800*
	110	56.5	166.4	43,500*
	115	54.6	163.0	40,500*
	120	52.8	159.3	37,800*
	125	50.8	155.4	35,400*
	130	48.9	151.2	33,200*
	135	46.8	146.6	31,100*
	140	44.7	141.8	29,200*
	145	42.5	136.5	27,400*
	150	40.3	130.8	25,800*
	155	37.9	124.7	24,300*
	160	35.3	118.0	22,900*
	165	32.6	110.5	21,500*
	170	29.7	102.3	20,300*
	175	26.5	92.9	18,400*
	180	22.9	82.1	16,300*
	185	18.7	68.9	14,200*

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

888 SERIES 2

BOOM NO. 22E WITH OPEN THROAT TOP

179,100 LB. CRANE COUNTERWEIGHT

44,000 LB. CARBODY COUNTERWEIGHT

28' 2" CRAWLERS EXTENDED

RATING OVER FRONT OF BLOCKED CRAWLERS

NO TRAVEL - LIMITED SWING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
200	34	81.7	206.0	168,000*
	36	81.1	205.7	165,400*
	38	80.5	205.3	162,800*
	40	79.9	205.0	160,200*
	42	79.3	204.6	157,600*
	44	78.8	204.2	151,600*
	46	78.2	203.8	144,300*
	48	77.6	203.4	137,600*
	50	77.0	202.9	131,400*
	55	75.5	201.7	117,800*
	60	74.0	200.4	106,400*
	65	72.5	198.9	94,800
	70	71.0	197.2	85,100
	75	69.5	195.4	76,900
	80	68.0	193.5	69,900
	85	66.4	191.4	63,900
	90	64.8	189.1	58,700
	95	63.3	186.7	54,100
	100	61.6	184.1	50,000
	105	60.0	181.3	46,300
210	110	58.3	178.3	43,000
	115	56.6	175.1	40,100
	120	54.9	171.7	37,400
	125	53.1	168.1	35,000
	130	51.3	164.2	32,700
	135	49.5	160.1	30,700
	140	47.5	155.6	28,800
	145	45.6	150.9	27,000
	150	43.5	145.8	25,400
	155	41.4	140.4	23,800
	160	39.2	134.5	22,400
	165	36.9	128.1	21,100
	170	34.4	121.1	19,800
	175	31.8	113.4	18,700
	180	29.0	104.9	17,200*
	185	25.8	95.2	15,300*
	190	22.3	84.1	13,500*
	195	18.2	70.5	11,500*
220	36	81.5	215.8	157,000*
	38	81.0	215.5	154,800*
	40	80.4	215.1	152,600*
	42	79.9	214.8	150,200*
	44	79.3	214.4	147,800*
	46	78.7	214.0	143,800*
	48	78.2	213.6	137,000*
	50	77.6	213.2	130,800*
	55	76.2	212.0	117,300*
	60	74.8	210.7	105,900*
	65	73.4	209.3	94,500
	70	72.0	207.8	84,800
	75	70.5	206.1	76,600
	80	69.1	204.2	69,600
	85	67.6	202.2	63,600
	90	66.1	200.1	58,300
	95	64.6	197.8	53,700
	100	63.1	195.4	49,600
	105	61.6	192.7	46,000
	110	60.0	189.9	42,700
230	115	58.4	187.0	39,800
	120	56.8	183.8	37,100
	125	55.2	180.4	34,600
	130	53.5	176.8	32,400
	135	51.8	173.0	30,300
	140	50.0	168.9	28,400
	145	48.2	164.6	26,700
	150	46.3	160.0	25,000
	155	44.4	155.0	23,500
	160	42.4	149.8	22,100
240	38	81.8	235.7	135,000*
	40	81.2	235.4	134,200*
	42	80.7	235.1	132,400*
	44	80.2	234.7	130,600*
	46	79.7	234.4	128,800*
	48	79.2	234.0	127,000*
	50	78.7	233.6	125,200*
	55	77.4	232.6	115,700*
	60	76.2	231.4	104,300*
	65	74.9	230.1	93,700
	70	73.6	228.7	83,900
	75	72.3	227.2	75,700
	80	71.0	225.5	68,700
	85	69.6	223.7	62,700
	90	68.3	221.8	57,400
	95	67.0	219.7	52,800
	100	65.6	217.5	48,700
250	105	64.2	215.2	45,100
	110	62.8	212.7	41,800
	115	61.4	210.1	38,800
	120	60.0	207.3	36,100
	125	58.6	204.3	33,700
	130	57.1	201.1	31,400
	135	55.6	197.8	29,400
	140	54.1	194.3	27,500
	145	52.5	190.6	25,700
	150	50.9	186.6	24,100
	155	49.3	182.4	22,600
	160	47.6	178.0	21,100
	165	45.9	173.3	19,800
	170	44.2	168.3	18,600
	175	42.3	163.0	17,400
	180	40.5	157.3	16,300
	185	38.5	151.2	15,300
	190	36.5	144.7	14,300
	195	34.3	137.7	13,300
	200	32.0	130.0	11,900*
260	205	29.6	121.6	10,500*
	210	27.0	112.4	9,000*
	215	24.1	101.9	7,600*
	220	20.8	89.8	6,200*
	225	17.0	75.2	4,600*
270	40	81.6	245.5	122,500*
	42	81.1	245.2	122,100*
	44	80.6	244.9	121,700*
	46	80.2	244.5	121,300*
	48	79.7	244.2	120,900*
	50	79.2	243.8	118,400*
	55	78.0	242.8	114,200*
	60	76.8	241.7	103,700*
	65	75.5	240.4	93,400
	70	74.3	239.1	83,600
	75	73.0	237.6	75,400
	80	71.8	236.0	68,400
	85	70.5	234.3	62,300
	90	69.3	232.5	57,100
	95	68.0	230.6	52,400
	100	66.7	228.5	48,300
	105	65.4	226.2	44,700
	110	64.1	223.9	41,400
	115	62.7	221.4	38,400
	120	61.4	218.7	35,700
280	125	60.0	215.9	33,300
	130	58.6	212.9	31,000
	135	57.2	209.8	29,000
	140	55.8	206.5	27,100
	145	54.3	203.0	25,300
	150	52.8	199.3	23,700
	155	51.3	195.4	22,200
	160	49.8	191.3	20,700
	165	48.2	187.0	19,400
	170	46.6	182.4	18,200
	175	44.9	177.5	17,000
	180	43.2	172.3	15,900
	185	41.4	166.8	14,900
	190	39.6	161.0	13,900
	195	37.7	154.7	12,900
	200	35.7	148.0	12,100
	205	33.6	140.7	10,700*
	210	31.3	132.9	9,400*
	215	29.0	124.3	8,100*
	220	26.4	114.7	6,700*
	225	23.6	104.0	5,400*
	230	20.4	91.6	4,100*

MANITOWOC ENGINEERING CO.

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LIFT CRANE BOOM CAPACITIES

MEETS
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888 SERIES 2

BOOM NO. 22E WITH OPEN THROAT TOP

179,100 LB. CRANE COUNTERWEIGHT

44,000 LB. CARBODY COUNTERWEIGHT

28' 2" CRAWLERS EXTENDED

RATING OVER FRONT OF BLOCKED CRAWLERS

NO TRAVEL - LIMITED SWING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
250	40	82.0	255.6	110,900*
	42	81.5	255.3	110,500*
	44	81.0	255.0	110,100*
	46	80.6	254.7	109,800*
	48	80.1	254.3	109,400*
	50	79.6	254.0	109,000*
	55	78.5	253.0	106,300*
	60	77.3	251.9	102,500*
	65	76.1	250.8	93,000
	70	74.9	249.5	83,200
	75	73.7	248.1	75,000
	80	72.5	246.6	68,000
	85	71.3	244.9	62,000
	90	70.1	243.2	56,700
	95	68.9	241.3	52,100
	100	67.7	239.3	48,000
	105	66.4	237.2	44,300
	110	65.2	235.0	41,000
	115	63.9	232.6	38,100
	120	62.6	230.0	35,400
	125	61.3	227.4	32,900
	130	60.0	224.6	30,700
	135	58.7	221.6	28,600
	140	57.3	218.5	26,700
	145	55.9	215.2	24,900
260	150	54.5	211.7	23,300
	155	53.1	208.1	21,800
	160	51.7	204.2	20,400
	165	50.2	200.2	19,000
	170	48.7	195.9	17,800
	175	47.2	191.4	16,600
	180	45.6	186.6	15,500
	185	43.9	181.6	14,500
	190	42.3	176.2	13,500
	195	40.5	170.5	12,600
	200	38.7	164.5	11,700
	205	36.9	158.1	10,900
	210	34.9	151.2	9,600*
	215	32.9	143.7	8,300*
	220	30.7	135.6	7,100*
	225	28.4	126.8	5,900*
	230	25.8	117.0	4,700*
	42	81.8	265.4	101,000*
	44	81.4	265.1	100,600*
	46	80.9	264.8	100,200*
	48	80.5	264.5	99,900*
	50	80.0	264.1	99,500*
	55	78.9	263.2	98,500*
	60	77.8	262.2	96,600*
	65	76.7	261.1	92,600
	70	75.5	259.8	82,800
	75	74.4	258.5	74,600
	80	73.2	257.0	67,600
	85	72.1	255.5	61,500
	90	70.9	253.8	56,200
	95	69.7	252.0	51,600
	100	68.6	250.1	47,500
	105	67.4	248.1	43,800
	110	66.2	245.9	40,600
	115	65.0	243.7	37,600
	120	63.7	241.3	34,900
	125	62.5	238.7	32,400
	130	61.3	236.0	30,200
	135	60.0	233.2	28,100
	140	58.7	230.3	26,200
	145	57.4	227.2	24,500
	150	56.1	223.9	22,800
	155	54.8	220.4	21,300
	160	53.4	216.8	19,900
	165	52.0	213.0	18,600
	170	50.6	209.0	17,300
	175	49.2	204.8	16,200
	180	47.7	200.4	15,100
	185	46.2	195.7	14,000

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
260	190	44.6	190.8	13,000
	195	43.0	185.6	12,100
	200	41.4	180.0	11,200
	205	39.7	174.2	10,400
	210	38.0	168.0	9,600*
	215	36.1	161.4	8,400*
	220	34.2	154.3	7,200*
	225	32.2	146.6	6,000*
	230	30.1	138.4	4,800*
	44	81.7	275.2	91,900*
270	46	81.3	274.9	91,500*
	48	80.8	274.6	91,200*
	50	80.4	274.3	90,800*
	55	79.3	273.4	89,900*
	60	78.2	272.4	88,900*
	65	77.2	271.3	87,700*
	70	76.1	270.1	82,400
	75	75.0	268.8	74,200
	80	73.9	267.4	67,100
	85	72.8	265.9	61,100
280	90	71.7	264.3	55,800
	95	70.5	262.6	51,200
	100	69.4	260.8	47,000
	105	68.3	258.9	43,400
	110	67.1	256.8	40,100
	115	66.0	254.6	37,100
	120	64.8	252.4	34,400
	125	63.6	249.9	31,900
	130	62.4	247.4	29,700
	135	61.2	244.7	27,600
290	140	60.0	241.9	25,700
	145	58.8	238.9	23,900
	150	57.5	235.8	22,300
	155	56.3	232.6	20,800
	160	55.0	229.1	19,400
	165	53.7	225.6	18,000
	170	52.3	221.8	16,800
	175	51.0	217.8	15,600
	180	49.6	213.7	14,500
	185	48.2	209.3	13,500
300	190	46.7	204.7	12,500
	195	45.3	199.9	11,600
	200	43.8	194.8	10,700
	205	42.2	189.5	9,900
	210	40.6	183.8	9,100
	215	38.9	177.8	8,200*
	220	37.2	171.4	7,000*
	225	35.4	164.6	5,800*
	230	33.6	157.3	4,700*
	44	82.0	285.3	83,200*
310	46	81.6	285.1	82,900*
	48	81.2	284.7	82,600*
	50	80.8	284.4	82,300*
	55	79.7	283.6	81,400*
	60	78.7	282.6	80,500*
	65	77.6	281.6	79,600*
	70	76.6	280.4	77,500*
	75	75.5	279.2	73,700
	80	74.5	277.8	66,700
	85	73.4	276.4	60,600
320	90	72.3	274.9	55,300
	95	71.3	273.2	50,700
	100	70.2	271.5	46,600
	105	69.1	269.6	42,900
	110	68.0	267.6	39,600
	115	66.9	265.6	36,600
	120	65.8	263.4	33,900
	125	64.6	261.1	31,500
	130	63.5	258.6	29,200
	135	62.3	256.1	27,100
330	140	61.2	253.4	25,200
	145	60.0	250.6	23,500
	150	58.8	247.6	21,800

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
280	155	57.6	244.5	20,300
	160	56.4	241.3	18,900
	165	55.2	237.9	17,600
	170	53.9	234.3	16,300
	175	52.6	230.6	15,100
	180	51.3	226.6	14,000
	185	50.0	222.5	13,000
	190	48.6	218.2	12,000
	195	47.3	213.7	11,100
	200	45.9	209.0	10,200
290	205	44.4	204.0	9,400
	210	42.9	198.8	8,600
	215	41.4	193.3	7,800
	220	39.8	187.4	6,800*
	225	38.2	181.3	5,700*
	230	36.5	174.7	4,600*
	46	81.9	295.2	75,900*
	48	81.5	294.9	75,600*
	50	81.1	294.6	75,300*
	55	80.1	293.7	74,500*
300	60	79.1	292.8	73,600*
	65	78.1	291.8	72,800*
	70	77.0	290.7	71,900*
	75	76.0	289.5	70,000*
	80	75.0	288.2	66,300
	85	74.0	286.8	60,200
	90	73.0	285.3	54,900
	95	71.9	283.8	50,300
	100	70.9	282.1	46,200
	105	69.8	280.3	42,500
310	110	68.8	278.4	39,200
	115	67.7	276.4	36,200
	120	66.6	274.3	33,500
	125	65.6	272.1	31,100
	130	64.5	269.7	28,800
	135	63.4	267.3	26,700
	140	62.3	264.7	24,800
	145	61.1	262.0	23,100
	150	60.0	259.2	21,400
	155	58.9	256.3	19,900
320	160	57.7	253.2	18,500
	165	56.5	249.9	17,100
	170	55.3	246.6	15,900
	175	54.1	243.0	14,700
	180	52.9	239.3	13,600
	185	51.6	235.4	12,600
	190	50.4	231.4	11,600
	195	49.1	227.2	10,700
	200	47.7	222.7	9,800
	205	46.4	218.1	9,000
330	210	45.0	213.2	8,200
	215	43.6	208.1	7,400
	220	42.2	202.7	6,700
	225	40.7	197.0	5,600*
	230	39.1	191.0	4,600*