

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 LIGHT TAPERED 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 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. 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, 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.

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED OVER FRONT OF BLOCKED CRAWLERS	
BOOM LENGTH	JIB NO. 123
(a) 310'	---
300'	30'
290'	60'
LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START. (a) UPPER BOOM POINT CANNOT BE USED ON 310' BOOM.	

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.

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 CAPACITY POUNDS
110	24	80.1	116.4	265,500*
	26	79.0	116.0	265,500*
	28	77.9	115.6	256,400*
	30	76.9	115.2	239,600*
	32	75.8	114.7	224,700*
	34	74.7	114.2	211,500*
	36	73.6	113.6	199,700*
	38	72.5	113.0	189,000*
	40	71.4	112.4	179,400*
	42	70.3	111.7	170,700*
	44	69.2	110.9	162,700*
	46	68.1	110.1	155,400*
	48	67.0	109.3	148,600*
	50	65.9	108.4	142,400*
	55	63.0	106.0	127,300
	60	60.0	103.3	113,000
	65	56.9	100.3	101,400
	70	53.8	96.8	91,700
	75	50.5	92.9	83,700

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
110	80	47.0	88.5	76,700
	85	43.3	83.6	70,800
	90	39.4	77.9	65,600
	95	35.1	71.3	61,000
	100	30.3	63.5	56,900
120	105	24.6	53.9	53,300
	110	17.3	40.9	48,300*
120	24	80.9	126.6	265,500*
	26	79.9	126.2	265,500*
	28	78.9	125.8	255,700*
	30	78.0	125.4	238,900*
	32	77.0	125.0	224,000*
	34	76.0	124.5	210,800*
	36	75.0	124.0	198,900*
	38	74.0	123.4	188,300*
	40	73.0	122.9	178,700*
	42	72.0	122.2	169,900*
	44	71.0	121.6	161,900*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
120	46	70.0	120.8	154,600*
	48	69.0	120.1	147,900*
	50	68.0	119.3	141,700*
	55	65.4	117.2	127,200
	60	62.7	114.7	112,800
	65	60.0	112.0	101,100
	70	57.2	108.9	91,400
	75	54.3	105.5	83,300
	80	51.3	101.7	76,400
	85	48.2	97.5	70,400
	90	44.9	92.8	65,200
	95	41.4	87.4	60,600
	100	37.7	81.4	56,500
	105	33.6	74.4	52,900
	110	29.0	66.2	49,600
	115	23.6	56.0	46,600
	120	16.6	42.3	42,100*

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888 SERIES 2

BOOM NO. 22E WITH LIGHT TAPERED 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
130	26	80.7	136.4	265,500*
	28	79.8	136.0	254,900*
	30	78.9	135.6	238,000*
	32	78.0	135.2	223,100*
	34	77.1	134.8	209,900*
	36	76.2	134.3	198,100*
	38	75.3	133.8	187,500*
	40	74.4	133.3	177,800*
	42	73.5	132.7	169,100*
	44	72.5	132.1	161,100*
	46	71.6	131.4	153,800*
	48	70.7	130.8	147,000*
	50	69.7	130.0	140,800*
	55	67.4	128.1	126,800
140	60	65.0	125.9	112,400
	65	62.5	123.4	100,700
	70	60.0	120.7	91,100
	75	57.4	117.6	82,900
	80	54.8	114.3	76,000
	85	52.0	110.5	70,000
	90	49.2	106.4	64,800
	95	46.2	101.9	60,200
	100	43.0	96.8	56,100
	105	39.7	91.1	52,500
	110	36.1	84.7	49,200
	115	32.2	77.4	46,200
	120	27.8	68.7	43,500
	125	22.6	58.1	41,000
	130	15.9	43.8	36,900*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
150	30	80.4	156.0	227,300*
	32	79.6	155.6	221,600*
	34	78.9	155.2	208,400*
	36	78.1	154.8	196,600*
	38	77.3	154.4	185,900*
	40	76.5	153.9	176,300*
	42	75.7	153.4	167,600*
	44	74.9	152.9	159,600*
	46	74.1	152.4	152,300*
	48	73.3	151.8	145,600*
	50	72.5	151.2	139,400*
	55	70.5	149.5	125,700*
	60	68.5	147.6	111,700
	65	66.4	145.5	100,000
160	70	64.3	143.3	90,300
	75	62.2	140.7	82,200
	80	60.0	138.0	75,200
	85	57.8	135.0	69,200
	90	55.5	131.7	64,000
	95	53.1	128.1	59,400
	100	50.7	124.2	55,300
	105	48.2	119.9	51,700
	110	45.6	115.2	48,400
	115	42.8	110.0	45,500
	120	39.9	104.4	42,800
	125	36.9	98.1	40,300
	130	33.6	91.0	38,100
	135	29.9	82.9	36,000
	140	25.8	73.5	34,100
	145	21.0	61.9	32,000*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
170	32	80.9	175.9	201,800*
	34	80.2	175.6	198,300*
	36	79.5	175.2	194,900*
	38	78.8	174.8	184,700*
	40	78.1	174.4	175,100*
	42	77.4	174.0	166,400*
	44	76.7	173.5	158,400*
	46	76.0	173.1	151,100*
	48	75.3	172.5	144,400*
	50	74.7	172.0	138,200*
	55	72.9	170.5	124,600*
	60	71.1	168.9	111,100
	65	69.3	167.1	99,400
	70	67.5	165.2	89,700
180	75	65.7	163.0	81,500
	80	63.8	160.6	74,600
	85	61.9	158.1	68,600
	90	60.0	155.3	63,400
	95	58.0	152.3	58,800
	100	56.0	149.0	54,700
	105	54.0	145.5	51,000
	110	51.9	141.8	47,800
	115	49.7	137.7	44,800
	120	47.4	133.3	42,100
	125	45.1	128.5	39,700
	130	42.7	123.3	37,500
	135	40.1	117.6	35,400
	140	37.4	111.4	33,500
	145	34.6	104.5	31,700
	150	31.5	96.8	30,100
190	155	28.1	88.1	28,600
	160	24.2	77.9	27,100
	165	19.7	65.5	24,900*
	34	80.7	185.7	189,800*
	36	80.1	185.4	186,600*
	38	79.4	185.0	183,400*
	40	78.8	184.6	174,400*
	42	78.1	184.2	165,700*
	44	77.5	183.8	157,700*
	46	76.8	183.3	150,400*
	48	76.2	182.9	143,700*
	50	75.5	182.4	137,500*
	55	73.9	181.0	123,900*
	60	72.2	179.5	110,700
	65	70.5	177.8	99,000
	70	68.8	175.9	89,300
	75	67.1	173.9	81,100
	80	65.4	171.7	74,200
	85	63.6	169.3	68,200
	90	61.8	166.7	63,000
	95	60.0	164.0	58,400
	100	58.1	161.0	54,300
	105	56.3	157.7	50,600
	110	54.3	154.3	47,400
	115	52.3	150.5	44,400
	120	50.3	146.5	41,700
	125	48.2	142.2	39,300
	130	46.0	137.6	37,100
	135	43.8	132.6	35,000
	140	41.4	127.1	33,100
	145	38.9	121.2	31,300
	150	36.3	114.7	29,700
	155	33.6	107.6	28,200
	160	30.6	99.6	26,700
	165	27.3	90.5	25,400
	170	23.6	80.0	24,100*
	175	19.2	67.2	21,700*

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BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
190	36	80.6	195.5	173,300*
	38	80.0	195.2	170,600*
	40	79.4	194.8	167,900*
	42	78.8	194.4	164,800*
	44	78.2	194.0	156,900*
	46	77.5	193.6	149,600*
	48	76.9	193.1	142,900*
	50	76.3	192.7	136,700*
	55	74.7	191.4	123,100*
	60	73.2	189.9	110,400
	65	71.6	188.3	98,600
	70	70.0	186.6	88,900
	75	68.4	184.7	80,700
	80	66.8	182.6	73,700
	85	65.1	180.4	67,700
	90	63.4	178.0	62,500
	95	61.7	175.4	57,900
	100	60.0	172.6	53,800
	105	58.2	169.6	50,200
	110	56.5	166.4	46,900
200	115	54.6	163.0	43,900
	120	52.8	159.3	41,200
	125	50.8	155.4	38,800
	130	48.9	151.2	36,600
	135	46.8	146.6	34,500
	140	44.7	141.8	32,600
	145	42.5	136.5	30,800
	150	40.3	130.8	29,200
	155	37.9	124.7	27,700
	160	35.3	118.0	26,200
	165	32.6	110.5	24,900
	170	29.7	102.3	23,700
	175	26.5	92.9	22,500
	180	22.9	82.1	20,800*
	185	18.7	68.9	18,700*
	38	80.5	205.3	162,600*
	40	79.9	205.0	160,100*
	42	79.3	204.6	157,600*
	44	78.8	204.2	155,200*
	46	78.2	203.8	148,900*
	48	77.6	203.4	142,100*
	50	77.0	202.9	135,900*
	55	75.5	201.7	122,400*
	60	74.0	200.4	110,000
	65	72.5	198.9	98,200
	70	71.0	197.2	88,500
	75	69.5	195.4	80,300
	80	68.0	193.5	73,300
	85	66.4	191.4	67,300
	90	64.8	189.1	62,100
	95	63.3	186.7	57,500
	100	61.6	184.1	53,400
	105	60.0	181.3	49,700
	110	58.3	178.3	46,400
	115	56.6	175.1	43,500
	120	54.9	171.7	40,800
	125	53.1	168.1	38,400
	130	51.3	164.2	36,100
	135	49.5	160.1	34,100
	140	47.5	155.6	32,200
	145	45.6	150.9	30,400
	150	43.5	145.8	28,800
	155	41.4	140.4	27,200

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
200	160	39.2	134.5	25,800
	165	36.9	128.1	24,500
	170	34.4	121.1	23,200
	175	31.8	113.4	22,100
	180	29.0	104.9	21,000
	185	25.8	95.2	19,900*
	190	22.3	84.1	18,000*
	195	18.2	70.5	16,100*
	38	81.0	215.5	154,800*
	40	80.4	215.1	152,500*
210	42	79.9	214.8	150,100*
	44	79.3	214.4	147,800*
	46	78.7	214.0	145,600*
	48	78.2	213.6	141,600*
	50	77.6	213.2	135,400*
	55	76.2	212.0	121,800*
	60	74.8	210.7	109,700
	65	73.4	209.3	97,900
	70	72.0	207.8	88,200
	75	70.5	206.1	80,000
	80	69.1	204.2	73,000
	85	67.6	202.2	67,000
	90	66.1	200.1	61,700
	95	64.6	197.8	57,100
	100	63.1	195.4	53,000
	105	61.6	192.7	49,400
	110	60.0	189.9	46,100
	115	58.4	187.0	43,100
	120	56.8	183.8	40,400
	125	55.2	180.4	38,000
	130	53.5	176.8	35,700
	135	51.8	173.0	33,700
	140	50.0	168.9	31,800
	145	48.2	164.6	30,000
	150	46.3	160.0	28,400
	155	44.4	155.0	26,900
	160	42.4	149.8	25,400
	165	40.4	144.1	24,100
	170	38.2	138.0	22,900
	175	36.0	131.4	21,700
	180	33.6	124.2	20,600
	185	31.0	116.2	19,500
	190	28.2	107.4	18,600
	195	25.2	97.5	17,200*
	200	21.8	86.0	15,400*
	205	17.8	72.1	13,600*
220	40	80.8	225.3	143,300*
	42	80.3	224.9	141,100*
	44	79.8	224.6	139,000*
	46	79.3	224.2	136,900*
	48	78.7	223.8	134,800*
	50	78.2	223.4	132,700*
	55	76.9	222.3	121,100*
	60	75.5	221.1	109,200
	65	74.2	219.7	97,500
	70	72.8	218.2	87,700
	75	71.4	216.6	79,500
	80	70.1	214.9	72,500
	85	68.7	213.0	66,500
	90	67.3	211.0	61,300
	95	65.9	208.8	56,700
	100	64.4	206.5	52,600

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
220	105	63.0	204.0	48,900
	110	61.5	201.4	45,600
	115	60.0	198.6	42,700
	120	58.5	195.6	40,000
	125	56.9	192.5	37,600
	130	55.4	189.1	35,300
	135	53.8	185.6	33,300
	140	52.1	181.8	31,400
	145	50.5	177.8	29,600
	150	48.8	173.5	28,000
230	155	47.0	169.0	26,500
	160	45.2	164.2	25,000
	165	43.3	159.1	23,700
	170	41.4	153.6	22,500
	175	39.4	147.7	21,300
	180	37.3	141.4	20,200
	185	35.1	134.6	19,200
	190	32.8	127.1	18,200
	195	30.3	119.0	17,200
	200	27.6	109.9	16,200*
240	205	24.6	99.7	14,700*
	210	21.3	87.9	13,100*
	215	17.3	73.6	11,500*
	42	80.7	235.1	131,800*
	44	80.2	234.7	131,200*
	46	79.7	234.4	129,400*
	48	79.2	234.0	127,600*
	50	78.7	233.6	125,700*
	55	77.4	232.6	120,200*
	60	76.2	231.4	108,800*
250	65	74.9	230.1	97,100
	70	73.6	228.7	87,300
	75	72.3	227.2	79,100
	80	71.0	225.5	72,100
	85	69.6	223.7	66,100
	90	68.3	221.8	60,800
	95	67.0	219.7	56,200
	100	65.6	217.5	52,100
	105	64.2	215.2	48,400
	110	62.8	212.7	45,200
260	115	61.4	210.1	42,200
	120	60.0	207.3	39,500
	125	58.6	204.3	37,100
	130	57.1	201.1	34,800
	135	55.6	197.8	32,700
	140	54.1	194.3	30,800
	145	52.5	190.6	29,100
	150	50.9	186.6	27,500
	155	49.3	182.4	25,900
	160	47.6	178.0	24,500
270	165	45.9	173.3	23,200
	170	44.2	168.3	21,900
	175	42.3	163.0	20,800
	180	40.5	157.3	19,700
	185	38.5	151.2	18,600
	190	36.5	144.7	17,700
	195	34.3	137.7	16,700
	200	32.0	130.0	15,800
	205	29.6	121.6	15,000*
	210	27.0	112.4	13,600*
280	215	24.1	101.9	12,100*
	220	20.8	89.8	10,700*
	225	17.0	75.2	9,200*

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BOOM NO. 22E WITH LIGHT TAPERED 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
240	44	80.6	244.9	120,100*
	46	80.2	244.5	119,700*
	48	79.7	244.2	119,200*
	50	79.2	243.8	118,700*
	55	78.0	242.8	114,800*
	60	76.8	241.7	108,100*
	65	75.5	240.4	96,600
	70	74.3	239.1	86,900
	75	73.0	237.6	78,700
	80	71.8	236.0	71,700
	85	70.5	234.3	65,600
	90	69.3	232.5	60,400
	95	68.0	230.6	55,700
	100	66.7	228.5	51,600
	105	65.4	226.2	48,000
	110	64.1	223.9	44,700
	115	62.7	221.4	41,700
	120	61.4	218.7	39,000
	125	60.0	215.9	36,600
	130	58.6	212.9	34,300
	135	57.2	209.8	32,300
	140	55.8	206.5	30,400
	145	54.3	203.0	28,600
	150	52.8	199.3	27,000
	155	51.3	195.4	25,500
250	160	49.8	191.3	24,000
	165	48.2	187.0	22,700
	170	46.6	182.4	21,500
	175	44.9	177.5	20,300
	180	43.2	172.3	19,200
	185	41.4	166.8	18,200
	190	39.6	161.0	17,200
	195	37.7	154.7	16,300
	200	35.7	148.0	15,400
	205	33.6	140.7	14,600
	210	31.3	132.9	13,800
	215	29.0	124.3	12,500*
	220	26.4	114.7	11,200*
	225	23.6	104.0	9,900*
	230	20.4	91.6	8,600*
	235	16.6	76.6	7,100*
	44	81.0	255.0	109,300*
	46	80.6	254.7	108,900*
	48	80.1	254.3	108,500*
	50	79.6	254.0	108,100*
	55	78.5	253.0	107,000*
	60	77.3	251.9	103,300*
	65	76.1	250.8	96,400
	70	74.9	249.5	86,600
	75	73.7	248.1	78,400
	80	72.5	246.6	71,400
	85	71.3	244.9	65,400
	90	70.1	243.2	60,100
	95	68.9	241.3	55,500
	100	67.7	239.3	51,400
	105	66.4	237.2	47,700
	110	65.2	235.0	44,400

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
250	115	63.9	232.6	41,500
	120	62.6	230.0	38,800
	125	61.3	227.4	36,300
	130	60.0	224.6	34,100
	135	58.7	221.6	32,000
	140	57.3	218.5	30,100
	145	55.9	215.2	28,300
	150	54.5	211.7	26,700
	155	53.1	208.1	25,200
	160	51.7	204.2	23,800
	165	50.2	200.2	22,400
	170	48.7	195.9	21,200
	175	47.2	191.4	20,000
	180	45.6	186.6	18,900
	185	43.9	181.6	17,900
	190	42.3	176.2	16,900
	195	40.5	170.5	16,000
	200	38.7	164.5	15,100
	205	36.9	158.1	14,300
	210	34.9	151.2	13,500
	215	32.9	143.7	12,700
	220	30.7	135.6	11,600*
	225	28.4	126.8	10,400*
	230	25.8	117.0	9,200*
	235	23.1	106.0	8,000*
260	240	19.9	93.4	6,800*
	245	16.3	78.1	5,500*
	46	80.9	264.8	100,000*
	48	80.5	264.5	99,600*
	50	80.0	264.1	99,200*
	55	78.9	263.2	98,100*
	60	77.8	262.2	97,100*
	65	76.7	261.1	94,100*
	70	75.5	259.8	86,200
	75	74.4	258.5	78,000
	80	73.2	257.0	71,000
	85	72.1	255.5	64,900
	90	70.9	253.8	59,600
	95	69.7	252.0	55,000
	100	68.6	250.1	50,900
	105	67.4	248.1	47,200
	110	66.2	245.9	44,000
	115	65.0	243.7	41,000
	120	63.7	241.3	38,300
	125	62.5	238.7	35,800
	130	61.3	236.0	33,600
	135	60.0	233.2	31,500
	140	58.7	230.3	29,600
	145	57.4	227.2	27,900
	150	56.1	223.9	26,200
	155	54.8	220.4	24,700
	160	53.4	216.8	23,300
270	165	52.0	213.0	22,000
	170	50.6	209.0	20,700
	175	49.2	204.8	19,600
	180	47.7	200.4	18,500
	185	46.2	195.7	17,400

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
260	190	44.6	190.8	16,400
	195	43.0	185.6	15,500
	200	41.4	180.0	14,600
	205	39.7	174.2	13,800
	210	38.0	168.0	13,000
	215	36.1	161.4	12,300
	220	34.2	154.3	11,500
	225	32.2	146.6	10,500*
	230	30.1	138.4	9,400*
	235	27.8	129.3	8,300*
270	240	25.3	119.3	7,100*
	245	22.6	108.1	6,000*
	250	19.6	95.1	4,900*
	48	80.8	274.6	91,300*
	50	80.4	274.3	90,900*
	55	79.3	273.4	90,000*
	60	78.2	272.4	89,000*
	65	77.2	271.3	88,000*
	70	76.1	270.1	85,500*
	75	75.0	268.8	77,600
	80	73.9	267.4	70,500
	85	72.8	265.9	64,500
	90	71.7	264.3	59,200
	95	70.5	262.6	54,600
	100	69.4	260.8	50,400
	105	68.3	258.9	46,800
	110	67.1	256.8	43,500
	115	66.0	254.6	40,500
	120	64.8	252.4	37,800
	125	63.6	249.9	35,300
	130	62.4	247.4	33,100
	135	61.2	244.7	31,000
	140	60.0	241.9	29,100
	145	58.8	238.9	27,300
	150	57.5	235.8	25,700
	155	56.3	232.6	24,200
	160	55.0	229.1	22,800
	165	53.7	225.6	21,400
	170	52.3	221.8	20,200
	175	51.0	217.8	19,000
	180	49.6	213.7	17,900
	185	48.2	209.3	16,900
	190	46.7	204.7	15,900
	195	45.3	199.9	15,000
	200	43.8	194.8	14,100
	205	42.2	189.5	13,300
	210	40.6	183.8	12,500
	215	38.9	177.8	11,700
	220	37.2	171.4	11,000
	225	35.4	164.6	10,300
	230	33.6	157.3	9,300*
	235	31.6	149.5	8,200*
	240	29.5	141.0	7,100*
	245	27.3	131.8	6,100*
	250	24.9	121.5	5,100*
	255	22.2	110.0	4,000*

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 LIGHT TAPERED 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
280	50	80.8	284.4	82,800*
	55	79.7	283.6	81,900*
	60	78.7	282.6	81,000*
	65	77.6	281.6	80,100*
	70	76.6	280.4	78,200*
	75	75.5	279.2	75,800*
	80	74.5	277.8	70,100
	85	73.4	276.4	64,000
	90	72.3	274.9	58,700
	95	71.3	273.2	54,100
	100	70.2	271.5	50,000
	105	69.1	269.6	46,300
	110	68.0	267.6	43,000
	115	66.9	265.6	40,000
	120	65.8	263.4	37,300
	125	64.6	261.1	34,900
	130	63.5	258.6	32,600
	135	62.3	256.1	30,500
	140	61.2	253.4	28,600
	145	60.0	250.6	26,900
290	150	58.8	247.6	25,200
	155	57.6	244.5	23,700
	160	56.4	241.3	22,300
	165	55.2	237.9	21,000
	170	53.9	234.3	19,700
	175	52.6	230.6	18,500
	180	51.3	226.6	17,400
	185	50.0	222.5	16,400
	190	48.6	218.2	15,400
	195	47.3	213.7	14,500
	200	45.9	209.0	13,600
	205	44.4	204.0	12,800
	210	42.9	198.8	12,000
	215	41.4	193.3	11,200
	220	39.8	187.4	10,500
	225	38.2	181.3	9,800
	230	36.5	174.7	9,200*
	235	34.8	167.8	8,100*
	240	32.9	160.3	7,100*
	245	31.0	152.3	6,100*
300	250	29.0	143.6	5,100*
	255	26.8	134.2	4,200*
310	55	80.1	293.7	75,300*
	60	79.1	292.8	74,400*
	65	78.1	291.8	73,300*
	70	77.0	290.7	71,100*
	75	76.0	289.5	69,100*
	80	75.0	288.2	67,200*
	85	74.0	286.8	63,600
	90	73.0	285.3	58,300
	95	71.9	283.8	53,700
	100	70.9	282.1	49,600
	105	69.8	280.3	45,900
	110	68.8	278.4	42,600
	115	67.7	276.4	39,600
	120	66.6	274.3	36,900
	125	65.6	272.1	34,500
	130	64.5	269.7	32,200
	135	63.4	267.3	30,100
	140	62.3	264.7	28,200
	145	61.1	262.0	26,500
	150	60.0	259.2	24,800
320	155	58.9	256.3	23,300
	160	57.7	253.2	21,900
	165	56.5	249.9	20,500
	170	55.3	246.6	19,300
	175	54.1	243.0	18,100
	180	52.9	239.3	17,000
	185	51.6	235.4	16,000
	190	50.4	231.4	15,000

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
290	195	49.1	227.2	14,100
	200	47.7	222.7	13,200
	205	46.4	218.1	12,400
	210	45.0	213.2	11,600
	215	43.6	208.1	10,800
	220	42.2	202.7	10,100
	225	40.7	197.0	9,400
	230	39.1	191.0	8,800
	235	37.5	184.7	8,100*
	240	35.9	178.0	7,100*
	245	34.1	170.9	6,100*
	250	32.3	163.2	5,200*
	255	30.5	155.0	4,200*
300	55	80.4	303.9	69,300*
	60	79.4	303.0	68,400*
	65	78.5	302.0	66,600*
	70	77.5	300.9	64,600*
	75	76.5	299.8	62,700*
	80	75.5	298.5	61,000*
	85	74.5	297.2	59,300*
	90	73.5	295.8	57,800*
	95	72.5	294.3	53,200
	100	71.5	292.6	49,100
	105	70.5	290.9	45,400
	110	69.5	289.1	42,100
	115	68.5	287.2	39,200
	120	67.5	285.2	36,400
	125	66.4	283.0	34,000
	130	65.4	280.8	31,700
	135	64.3	278.4	29,700
	140	63.3	276.0	27,700
	145	62.2	273.4	26,000
	150	61.1	270.7	24,300
310	155	60.0	267.9	22,800
	160	58.9	264.9	21,400
	165	57.8	261.8	20,100
	170	56.6	258.6	18,800
	175	55.5	255.3	17,700
	180	54.3	251.7	16,600
	185	53.1	248.1	15,500
	190	51.9	244.2	14,500
	195	50.7	240.2	13,600
	200	49.5	236.0	12,700
	205	48.2	231.7	11,900
	210	46.9	227.1	11,100
	215	45.6	222.3	10,400
	220	44.2	217.3	9,600
	225	42.8	212.0	9,000
	230	41.4	206.5	8,300
	235	39.9	200.7	7,500*
	240	38.4	194.5	6,500*
	245	36.9	188.1	5,500*
	250	35.2	181.2	4,500*
320	55	80.7	314.0	63,600*
	60	79.8	313.2	62,300*
	65	78.8	312.2	60,300*
	70	77.9	311.2	58,400*
	75	76.9	310.1	56,700*
	80	76.0	308.9	55,000*
	85	75.0	307.6	53,500*
	90	74.1	306.2	52,100*
	95	73.1	304.7	50,700*
	100	72.2	303.2	48,600
	105	71.2	301.5	45,000
	110	70.2	299.7	41,700
	115	69.2	297.9	38,700
	120	68.2	295.9	36,000
	125	67.2	293.9	33,500
	130	66.2	291.8	31,200

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
310	135	65.2	289.5	29,200
	140	64.2	287.1	27,200
	145	63.2	284.7	25,500
	150	62.1	282.1	23,800
	155	61.1	279.4	22,300
	160	60.0	276.5	20,900
	165	58.9	273.6	19,600
	170	57.8	270.5	18,300
	175	56.7	267.3	17,100
	180	55.6	263.9	16,000
	185	54.5	260.5	15,000
	190	53.4	256.8	14,000
	195	52.2	253.0	13,100
	200	51.0	249.1	12,200
	205	49.8	244.9	11,400
	210	48.6	240.6	10,600
	215	47.4	236.1	9,800*
	220	46.1	231.4	8,700*
	225	44.8	226.5	7,600*
	230	43.5	221.3	6,500*
320	235	42.1	215.9	5,500*
	240	40.7	210.2	4,500*