

MANITOWOC ENGINEERING CO.

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



LIFTCRANE BOOM CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

888 SERIES 2

NEW YORK CITY CODE

BOOM NO. 22E WITH OPEN THROAT TOP

OFFSET 4-1/2 DEGREES

179,100 LB. CRANE COUNTERWEIGHT

44,000 LB. CARBODY COUNTERWEIGHT

360 DEGREE RATING

CAPACITIES FOR VARIOUS BOOM LENGTHS AND OPERATING RADII ARE FOR FREELY SUSPENDED LOADS AND DO NOT EXCEED 75% OF A STATIC TIPPING LOAD FOR BOOM LENGTHS THRU 250' AND NEW YORK CITY CRITERIA OF 1.4 FACTOR APPLIED TO TOTAL MACHINE MOMENT FOR BOOM LENGTHS 260' ON UP. 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 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. 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, 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. 7771-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, 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 WITHOUT AUXILIARY DRUM IN BOOM BUTT

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) 290'	---	(a) 290'	---	(a) 260'	---	240'	---
(a) 280'	---	(a) 280'	---	250'	---	230'	30'
270'	---	270'	---	240'	50'	220'	60'
260'	50'	260'	50'	230'	60'		
250'	60'	250'	60'				

LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START. (a) UPPER BOOM POINT CANNOT BE USED ON 290' AND 280' BOOM AND CANNOT BE LIFTED OVER SIDE OF EXTENDED CRAWLERS ON 260' BOOM. WIRE ROPE GUIDE ASSEMBLY 179061 UPPER AND MIDDLE SHEAVES AND SHAFTS OR ASSEMBLY 92671 UPPER SHEAVE AND SHAFT MUST BE REMOVED ON 290' BOOM.

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED WITH AUXILIARY DRUM IN BOOM BUTT

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'	40'	220'	50'
260'	40'	260'	40'	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.

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360 DEGREE RATING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY CRAWLERS RETRACTED POUNDS	BOOM CAPACITY CRAWLERS EXTENDED POUNDS
70	17	82.8	77.3		410,700*
	18	82.0	77.1		389,300*
	19	81.2	76.9		370,000*
	20	80.3	76.7		352,400*
	22	78.7	76.2		321,600*
	24	77.0	75.7		295,600*
	26	75.3	75.1		273,300*
	28	73.6	74.4		254,000*
	30	71.8	73.7		237,100*
	32	70.1	72.9		218,300
	34	68.3	72.0		199,100
	36	66.5	71.1		182,900
	38	64.7	70.1		169,000
	40	62.8	69.0		157,000
	42	60.9	67.8		146,500
	44	59.0	66.5		137,200
	46	57.0	65.1		128,900
	48	54.9	63.6		121,500
	50	52.8	62.0	98,400	114,800
	55	47.3	57.4	86,600	100,700
80	60	41.1	51.8	77,000	89,400
	65	34.0	44.6	69,100	80,200
	70	25.0	34.7	62,400	72,400
	18	83.0	87.2		343,900*
	19	82.3	87.1		338,400*
	20	81.6	86.9		333,200*
	22	80.1	86.5		321,000*
	24	78.6	86.0		295,000*
	26	77.2	85.5		272,700*
	28	75.7	84.9		253,400*
	30	74.2	84.3		236,500*
	32	72.7	83.6		218,300
	34	71.2	82.9		199,200
	36	69.6	82.1		182,900
	38	68.1	81.2		169,000
	40	66.5	80.3		157,000
	42	64.9	79.3		146,400
	44	63.3	78.2		137,100
	46	61.6	77.0		128,800
	48	59.9	75.8	103,800	121,400
90	50	58.2	74.5	98,300	114,700
	55	53.8	70.8	86,400	100,600
	60	49.1	66.5	76,900	89,300
	65	43.9	61.3	69,000	80,100
	70	38.2	55.1	62,300	72,300
	75	31.6	47.3	56,700	65,700
	80	23.2	36.6	51,700	60,000
	20	82.5	97.0		301,700*
	22	81.2	96.7		292,300*
	24	79.9	96.3		283,500*
	26	78.6	95.8		271,900*
	28	77.3	95.3		252,700*
	30	76.0	94.8		235,800*
	32	74.7	94.2		218,300
	34	73.3	93.5		199,100
	36	72.0	92.8		182,800
	38	70.6	92.0		168,900
	40	69.3	91.2		156,800
	42	67.9	90.4		146,200
	44	66.5	89.4	116,600	136,900
100	46	65.1	88.4	109,700	128,600
	48	63.6	87.4	103,600	121,200
	20	82.8	117.0		266,400*
	24	81.8	116.6		258,000*
	26	80.7	116.3		250,200*
	28	79.7	115.9		242,800*
	30	78.6	115.4		234,500*
	32	77.5	114.9		218,200
	34	76.5	114.4		199,000
	36	75.4	113.8		182,600
110	38	74.3	113.2		168,600
	40	73.2	112.6		156,500
	42	72.1	111.9	123,800	145,900
	44	71.0	111.2	116,100	136,500
	46	69.9	110.4	109,200	128,200
	48	68.7	109.6	103,000	120,700
	50	67.6	108.7	97,400	114,000
	55	64.7	106.3	85,600	99,900
	60	61.8	103.6	76,000	88,500
	65	58.7	100.5	68,100	79,200
120	70	55.6	97.1	61,400	71,500
	75	52.3	93.2	55,800	64,900
	80	48.8	88.8	50,900	59,300
	85	45.2	83.9	46,700	54,400
	90	41.2	78.2	42,900	50,100
	95	37.0	71.7	39,600	46,300
	100	32.2	63.9	36,700	42,900
	105	26.6	54.4	34,000	39,900
	110	19.4	41.6	31,500	37,100

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BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY CRAWLERS RETRACTED POUNDS	BOOM CAPACITY CRAWLERS EXTENDED POUNDS
1 2 0	24	82.5	126.8		249,700*
	26	81.5	126.4		242,000*
	28	80.5	126.1		234,800*
	30	79.6	125.7		228,000*
	32	78.6	125.2		218,000
	34	77.6	124.7		198,700
	36	76.6	124.2		182,400
	38	75.6	123.7	142,000	168,400
	40	74.6	123.1	132,100	156,200
	42	73.6	122.4	123,500	145,600
	44	72.6	121.8	115,800	136,200
	46	71.6	121.1	108,900	127,900
	48	70.6	120.3	102,700	120,500
	50	69.6	119.5	97,100	113,700
	55	67.0	117.4	85,200	99,600
	60	64.3	115.0	75,600	88,200
	65	61.6	112.2	67,700	78,900
	70	58.8	109.2	61,100	71,200
	75	56.0	105.8	55,500	64,600
	80	53.0	102.0	50,600	59,000
1 3 0	85	49.8	97.8	46,400	54,100
	90	46.6	93.1	42,700	49,800
	95	43.1	87.8	39,400	46,000
	100	39.4	81.7	36,400	42,700
	105	35.3	74.8	33,800	39,600
	110	30.7	66.6	31,300	36,900
	115	25.4	56.6	29,200	34,400
	120	18.5	43.1	27,100	32,100
	26	82.2	136.6		234,800*
	28	81.3	136.2		227,800*
	30	80.4	135.9		221,200*
	32	79.5	135.4		214,900*
	34	78.6	135.0		198,700
	36	77.7	134.5	153,200	182,400
	38	76.8	134.0	141,900	168,400
	40	75.9	133.5	132,100	156,200
	42	74.9	132.9	123,400	145,600
	44	74.0	132.3	115,700	136,200
	46	73.1	131.7	108,800	127,900
	48	72.2	131.0	102,600	120,400
	50	71.2	130.3	97,000	113,700
1 4 0	55	68.9	128.3	85,100	99,500
	60	66.5	126.1	75,500	88,100
	65	64.0	123.6	67,600	78,800
	70	61.5	120.9	61,000	71,100
	75	58.9	117.9	55,400	64,500
	80	56.3	114.5	50,500	58,900
	85	53.5	110.8	46,300	54,000
	90	50.7	106.7	42,500	49,700
	95	47.7	102.2	39,200	46,000
	100	44.6	97.1	36,300	42,600
	105	41.3	91.5	33,700	39,600
	110	37.7	85.1	31,300	36,800
	115	33.8	77.7	29,100	34,400
	120	29.4	69.1	27,100	32,100
1 5 0	125	24.3	58.6	25,300	30,000
	130	17.7	44.5	23,600	28,100
	28	82.4	156.5		215,300*
	30	81.7	156.2		209,100*
	32	80.9	155.8		203,200*
	34	80.1	155.4	165,600	197,600*
	36	79.3	155.0	152,500	181,800
	38	78.6	154.6	141,200	167,800
	40	77.8	154.1	131,400	155,600
	42	77.0	153.6	122,700	145,000
1 6 0	44	76.2	153.1	115,000	135,500
	46	75.4	152.6	108,100	127,200
	48	74.6	152.0	101,900	119,700
	50	73.8	151.4	96,200	113,000
	55	71.8	149.7	84,300	98,700
	60	69.8	147.8	74,700	87,400
	65	67.7	145.8	66,800	78,100
	70	65.6	143.5	60,100	70,300
	75	63.5	141.0	54,500	63,700
	80	61.3	138.2	49,600	58,100
	85	59.1	135.2	45,400	53,200
	90	56.8	131.9	41,700	48,900
	95	54.4	128.3	38,400	45,100
	100	52.0	124.4	35,400	41,700
1 7 0	105	49.5	120.1	32,800	38,700
	110	46.9	115.5	30,400	36,000
	115	44.2	110.3	28,300	33,600
	120	41.3	104.7	26,300	31,300
	125	38.2	98.4	24,500	29,300
	130	34.9	91.4	22,800	27,400
	135	31.3	83.3	21,300	25,600
	140	27.3	73.9	19,800	24,000
	145	22.5	62.5	18,500	22,500
	150	16.4	47.3	17,200	21,100

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY CRAWLERS RETRACTED POUNDS	BOOM CAPACITY CRAWLERS EXTENDED POUNDS
1 4 0	26	82.7	146.7		228,400*
	28	81.9	146.4		221,600*
	30	81.1	146.0		215,100*
	32	80.2	145.7		209,000*
	34	79.4	145.2	165,900	198,500
	36	78.6	144.8	152,800	182,100
	38	77.7	144.3	141,600	168,100
	40	76.9	143.8	131,700	155,900
	42	76.0	143.3	123,100	145,300
	44	75.2	142.7	115,400	135,900
	46	74.3	142.1	108,500	127,500
	48	73.5	141.5	102,300	120,100
	50	72.6	140.9	96,700	113,400
	55	70.4	139.1	84,800	99,200
	60	68.2	137.0	75,200	87,800
	65	66.0	134.8	67,300	78,500
	70	63.7	132.3	60,600	70,700
	75	61.4	129.5	55,000	64,200
	80	59.0	126.5	50,100	58,500
	85	56.5	123.2	45,900	53,700
1 5 0	90	54.0	119.6	42,200	49,400
	95	51.4	115.6	38,900	45,600
	100	48.7	111.2	36,000	42,200
	105	45.8	106.3	33,300	39,200
	110	42.8	101.0	30,900	36,500
	115	39.7	95.0	28,800	34,000
	120	36.2	88.3	26,800	31,800
	125	32.5	80.6	25,000	29,700
	130	28.3	71.6	23,300	27,800
	135	23.3	60.6	21,700	26,100
	140	17.0	45.9	20,300	24,400
	28	82.4	156.5		215,300*
	30	81.7	156.2		209,100*
	32	80.9	155.8		203,200*
	34	80.1	155.4	165,600	197,600*
	36	79.3	155.0	152,500	181,800
	38	78.6	154.6	141,200	167,800
	40	77.8	154.1	131,400	155,600
	42	77.0	153.6	122,700	145,000
	44	76.2	153.1	115,000	135,500
	46	75.4	152.6	108,100	127,200
1 6 0	48	74.6	152.0	101,900	119,700
	50	73.8	151.4	96,200	113,000
	55	71.8	149.7	84,300	98,700
	60	69.8	147.8	74,700	87,400
	65	67.7	145.8	66,800	78,100
	70	65.6	143.5	60,100	70,300
	75	63.5	141.0	54,500	63,700
	80	61.3	138.2	49,600	58,100
	85	59.1	135.2	45,400	53,200
	90	56.8	131.9	41,700	48,900
	95	54.4	128.3	38,400	45,100
	100	52.0	124.4	35,400	41,700
	105	49.5	120.1	32,800	38,700
	110	46.9	115.5	30,400	36,000
1 7 0	115	44.2	110.3	28,300	33,600
	120	41.3	104.7	26,300	31,300
	125	38.2	98.4	24,500	29,300
	130	34.9	91.4	22,800	27,400
	135	31.3	83.3	21,300	25,600
	140	27.3	73.9	19,800	24,000
	145	22.5	62.5	18,500	22,500
	150	16.4	47.3	17,200	21,100

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BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY CRAWLERS RETRACTED POUNDS	BOOM CAPACITY CRAWLERS EXTENDED POUNDS
160	28	82.9	166.6		208,400*
	30	82.2	166.3		203,100*
	32	81.5	166.0	180,400	197,900*
	34	80.7	165.6	165,200	192,600*
	36	80.0	165.2	152,100	181,500
	38	79.3	164.8	140,800	167,400
	40	78.6	164.4	131,000	155,200
	42	77.8	163.9	122,300	144,600
	44	77.1	163.5	114,600	135,200
	46	76.3	162.9	107,700	126,800
	48	75.6	162.4	101,400	119,300
	50	74.9	161.8	95,800	112,600
	55	73.0	160.3	83,900	98,400
	60	71.1	158.5	74,300	87,000
	65	69.2	156.6	66,400	77,600
	70	67.2	154.5	59,700	69,900
	75	65.3	152.2	54,100	63,300
	80	63.3	149.6	49,200	57,700
	85	61.2	146.9	45,000	52,800
	90	59.1	143.9	41,300	48,500
170	95	57.0	140.6	38,000	44,700
	100	54.8	137.1	35,000	41,300
	105	52.5	133.2	32,400	38,300
	110	50.2	129.1	30,000	35,600
	115	47.8	124.5	27,900	33,200
	120	45.3	119.6	25,900	30,900
	125	42.7	114.2	24,100	28,900
	130	39.9	108.3	22,400	27,000
	135	36.9	101.7	20,900	25,300
	140	33.7	94.3	19,500	23,600
	145	30.3	85.9	18,100	22,200
	150	26.3	76.2	16,900	20,800
	155	21.7	64.3	15,700	19,400
	160	15.8	48.6	14,600	18,200
	30	82.7	176.4	195,500*	195,500*
	32	82.0	176.1	180,200	191,100*
	34	81.3	175.8	165,000	186,700*
	36	80.6	175.4	151,900	181,300
	38	79.9	175.0	140,600	167,200
	40	79.2	174.6	130,700	155,000
	42	78.5	174.2	122,000	144,400
	44	77.9	173.7	114,300	134,900
	46	77.2	173.3	107,400	126,600
	48	76.5	172.7	101,200	119,100
180	50	75.8	172.2	95,600	112,300
	55	74.0	170.8	83,600	98,100
	60	72.3	169.1	74,000	86,700
	65	70.5	167.3	66,100	77,400
	70	68.7	165.4	59,400	69,600
	75	66.8	163.2	53,800	63,000
	80	65.0	160.9	48,900	57,400
	85	63.1	158.3	44,700	52,500
	90	61.1	155.5	41,000	48,200
	95	59.2	152.5	37,700	44,400
	100	57.2	149.3	34,700	41,100
	105	55.1	145.8	32,100	38,100
	110	53.0	142.0	29,700	35,300
	115	50.8	137.9	27,600	32,900
	120	48.6	133.5	25,600	30,700
	125	46.3	128.8	23,800	28,600
	130	43.8	123.6	22,200	26,700
	135	41.3	117.9	20,600	25,000
	140	38.6	111.7	19,200	23,400
	145	35.8	104.9	17,900	21,900
190	150	32.7	97.2	16,700	20,500
	155	29.3	88.5	15,500	19,200
	160	25.5	78.4	14,400	18,000
	165	21.0	66.1	13,400	16,900
	170	15.3	49.8	12,400	15,800
	32	82.8	196.3	174,400*	174,400*
	34	82.2	196.0	164,300	171,300*
	36	81.6	195.7	151,200	168,100*
	38	81.0	195.4	139,900	165,000*
	40	80.4	195.0	130,000	154,400
200	42	79.8	194.6	121,300	143,700
	44	79.2	194.2	113,500	134,200
	46	78.5	193.8	106,600	125,800
	48	77.9	193.3	100,400	118,300
	50	77.3	192.9	94,700	111,600
	55	75.7	191.6	82,800	97,300
	60	74.2	190.1	73,100	85,900
	65	72.6	188.6	65,200	76,500
	70	71.0	186.8	58,500	68,700
	75	69.4	184.9	52,900	62,200
210	80	67.8	182.9	48,000	56,500
	85	66.1	180.6	43,700	51,600
	90	64.4	178.2	40,000	47,300
	95	62.7	175.6	36,700	43,500
	100	61.0	172.8	33,800	40,100
	105	59.3	169.9	31,200	37,100
	110	57.5	166.7	28,800	34,400
	115	55.7	163.2	26,600	32,000
	120	53.8	159.6	24,700	29,700
	125	51.9	155.6	22,900	27,700
220	130	49.9	151.4	21,200	25,800
	135	47.9	146.9	19,700	24,100
	140	45.8	142.0	18,300	22,500
	145	43.6	136.8	17,000	21,000
	150	41.3	131.2	15,700	19,600
	155	38.9	125.0	14,600	18,300
	160	36.4	118.3	13,500	17,100
	165	33.7	110.9	12,500	16,000
	170	30.8	102.7	11,600	14,900
	175	27.6	93.4	10,700	13,900
230	180	24.0	82.6	9,800	13,000
	185	19.8	69.5	9,000	12,100

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY CRAWLERS RETRACTED POUNDS	BOOM CAPACITY CRAWLERS EXTENDED POUNDS
180	32	82.4	186.2	179,800	183,400*
	34	81.8	185.9	164,600	179,700*
	36	81.1	185.6	151,500	175,900*
	38	80.5	185.2	140,200	166,900
	40	79.8	184.8	130,300	154,700
	42	79.2	184.4	121,600	144,000
	44	78.5	184.0	113,900	134,600
	46	77.9	183.5	107,000	126,200
	48	77.2	183.1	100,800	118,700
	50	76.6	182.6	95,200	111,900
	55	74.9	181.2	83,200	97,700
	60	73.3	179.7	73,600	86,300
	65	71.6	178.0	65,700	77,000
	70	69.9	176.1	59,000	69,200
	75	68.2	174.1	53,400	62,600
	80	66.4	171.9	48,500	57,000
	85	64.7	169.5	44,300	52,100
	90	62.9	167.0	40,500	47,800
	95	61.1	164.2	37,300	44,000
	100	59.2	161.2	34,300	40,700
190	105	57.3	158.0	31,700	37,600
	110	55.4	154.5	29,300	34,900
	115	53.4	150.8	27,200	32,500
	120	51.4	146.8	25,200	30,200
	125	49.3	142.5	23,400	28,200
	130	47.1	137.9	21,700	26,300
	135	44.9	132.9	20,200	24,600
	140	42.5	127.4	18,800	23,000
	145	40.1	121.5	17,500	21,500
	150	37.5	115.1	16,300	20,100
	155	34.7	107.9	15,100	18,800
	160	31.7	100.0	14,100	17,600
	165	28.4	91.0	13,100	16,500
	170	24.7	80.5	12,100	15,400
	175	20.4	67.8	11,200	14,400
	32	82.8	196.3	174,400*	174,400*
	34	82.2	196.0	164,300	171,300*
	36	81.6	195.7	151,200	168,100*
	38	81.0	195.4	139,900	165,000*
	40	80.4	195.0	130,000	154,400
	42	79.8	194.6	121,300	143,700
	44	79.2	194.2	113,500	134,200
	46	78.5	193.8	106,600	125,800
	48	77.9	193.3	100,400	118,300
	50	77.3	192.9	94,700	111,600
200	55	75.7	191.6	82,800	97,300
	60	74.2	190.1	73,100	85,900
	65	72.6	188.6	65,200	76,500
	70	71.0	186.8	58,500	68,700
	75	69.4	184.9	52,900	62,200
	80	67.8	182.9	48,000	56,500
	85	66.1	180.6	43,700	51,600
	90	64.4	178.2	40,000	47,300
	95	62.7	175.6	36,700	43,500
	100	61.0	172.8	33,800	40,100
	105	59.3	169.9	31,200	37,100
	110	57.5	166.7	28,800	34,400
	115	55.7	163.2	26,600	32,000
	120	53.8	159.6	24,700	29,700
	125	51.9	155.6	22,900	27,700
	130	49.9	151.4	21,200	25,800
	135	47.9	146.9	19,700	24,100
	140	45.8	142.0	18,300	22,500
	145	43.6	136.8	17,000	21,000
	150	41.3	131.2	15,700	19,600
210	155	38.9	125.0	14,600	18,300
	160	36.4	118.3	13,500	17,100
	165	33.7	110.9	12,500	16,000
	170	30.8	102.7	11,600	14,900
	175	27.6	93.4	10,700	13,900
	180	24.0	82.6	9,800	13,000
	185	19.8	69.5	9,000	12,100

MANITOWOC ENGINEERING CO.

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



LIFTCRANE BOOM CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

888 SERIES 2

NEW YORK CITY CODE

BOOM NO. 22E WITH OPEN THROAT TOP

OFFSET 4-1/2 DEGREES

179,100 LB. CRANE COUNTERWEIGHT

44,000 LB. CARBODY COUNTERWEIGHT

360 DEGREE RATING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY CRAWLERS RETRACTED POUNDS	BOOM CAPACITY CRAWLERS EXTENDED POUNDS
200	34	82.6	206.2	163,100*	163,100*
	36	82.0	205.8	150,800	160,500*
	38	81.5	205.5	139,400	157,800*
	40	80.9	205.2	129,500	154,000
	42	80.3	204.8	120,800	143,300
	44	79.7	204.4	113,100	133,800
	46	79.1	204.0	106,200	125,400
	48	78.5	203.6	99,900	117,900
	50	77.9	203.1	94,300	111,100
	55	76.5	201.9	82,300	96,900
	60	75.0	200.6	72,700	85,400
	65	73.5	199.1	64,700	76,100
	70	72.0	197.4	58,100	68,300
	75	70.5	195.6	52,400	61,700
	80	68.9	193.7	47,500	56,000
	85	67.4	191.6	43,300	51,100
	90	65.8	189.3	39,600	46,900
	95	64.2	186.9	36,300	43,100
	100	62.6	184.3	33,300	39,700
	105	61.0	181.5	30,700	36,700
210	110	59.3	178.5	28,300	34,000
	115	57.6	175.3	26,200	31,500
	120	55.9	171.9	24,200	29,300
	125	54.1	168.3	22,400	27,200
	130	52.3	164.4	20,700	25,300
	135	50.4	160.3	19,200	23,600
	140	48.5	155.9	17,800	22,000
	145	46.6	151.2	16,500	20,500
	150	44.5	146.1	15,300	19,200
	155	42.4	140.6	14,200	17,900
	160	40.2	134.8	13,100	16,700
	165	37.9	128.4	12,100	15,600
	170	35.4	121.4	11,200	14,500
	175	32.8	113.8	10,300	13,500
	180	30.0	105.3	9,400	12,600
	185	26.9	95.7	8,600	11,700
	190	23.4	84.6	7,900	10,800
	195	19.3	71.1	7,200	10,000
	36	82.4	216.0	150,500	152,400*
	38	81.9	215.7	139,100	150,100*
	40	81.3	215.3	129,200	147,800*
	42	80.8	215.0	120,500	143,000
	44	80.2	214.6	112,800	133,500
	46	79.6	214.2	105,800	125,100
	48	79.1	213.8	99,600	117,600
	50	78.5	213.4	94,000	110,800
	55	77.1	212.2	82,000	96,600
	60	75.7	210.9	72,300	85,100
	65	74.3	209.5	64,400	75,800
	70	72.9	208.0	57,700	68,000
	75	71.4	206.3	52,100	61,400
	80	70.0	204.4	47,200	55,700
	85	68.5	202.4	42,900	50,800
	90	67.0	200.3	39,200	46,500
	95	65.5	198.0	35,900	42,700
	100	64.0	195.6	33,000	39,400
	105	62.5	192.9	30,300	36,300
	110	60.9	190.2	28,000	33,600
	115	59.3	187.2	25,800	31,200

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY CRAWLERS RETRACTED POUNDS	BOOM CAPACITY CRAWLERS EXTENDED POUNDS
210	120	57.7	184.0	23,800	28,900
	125	56.1	180.6	22,100	26,900
	130	54.4	177.1	20,400	25,000
	135	52.7	173.2	18,900	23,300
	140	50.9	169.2	17,500	21,700
	145	49.1	164.9	16,200	20,200
	150	47.3	160.2	14,900	18,800
	155	45.4	155.3	13,800	17,600
	160	43.4	150.0	12,800	16,400
	165	41.3	144.4	11,800	15,200
	170	39.2	138.3	10,800	14,200
	175	36.9	131.7	9,900	13,200
	180	34.5	124.5	9,100	12,200
	185	32.0	116.6	8,300	11,400
	190	29.2	107.8	7,600	10,500
	195	26.2	98.0	6,900	9,700
	200	22.8	86.5	6,200	9,000
	205	18.8	72.7	5,500	8,200
	36	82.8	226.1	142,500*	142,500*
	38	82.2	225.8	138,700	142,100*
	40	81.7	225.5	128,800	140,100*
	42	81.2	225.1	120,100	138,200*
220	44	80.7	224.8	112,300	133,100
	46	80.1	224.4	105,400	124,700
	48	79.6	224.0	99,200	117,200
	50	79.1	223.6	93,500	110,400
	55	77.7	222.5	81,600	96,100
	60	76.4	221.3	71,900	84,700
	65	75.0	219.9	63,900	75,300
	70	73.7	218.4	57,300	67,500
	75	72.3	216.8	51,600	60,900
	80	70.9	215.1	46,700	55,300
	85	69.5	213.2	42,500	50,400
	90	68.1	211.2	38,800	46,100
	95	66.7	209.0	35,500	42,300
	100	65.3	206.7	32,500	38,900
	105	63.8	204.2	29,900	35,900
	110	62.4	201.6	27,500	33,200
	115	60.9	198.8	25,400	30,700
	120	59.4	195.8	23,400	28,500
	125	57.8	192.7	21,600	26,400
	130	56.3	189.3	19,900	24,600
	135	54.7	185.8	18,400	22,800
	140	53.0	182.0	17,000	21,200
	145	51.4	178.0	15,700	19,800
	150	49.7	173.8	14,500	18,400
	155	47.9	169.3	13,400	17,100
	160	46.1	164.5	12,300	15,900
	165	44.2	159.3	11,300	14,800
	170	42.3	153.9	10,400	13,700
	175	40.3	148.0	9,500	12,700
	180	38.2	141.7	8,700	11,800
	185	36.0	134.9	7,900	10,900
	190	33.7	127.5	7,100	10,100
	195	31.2	119.4	6,400	9,300
	200	28.5	110.3	5,800	8,500
	205	25.6	100.2	5,100	7,800
	210	22.3	88.4	4,500	7,100
	215	18.4	74.3		6,500

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NEW YORK CITY CODE

BOOM NO. 22E WITH OPEN THROAT TOP

OFFSET 4-1/2 DEGREES

179,100 LB. CRANE COUNTERWEIGHT

44,000 LB. CARBODY COUNTERWEIGHT

360 DEGREE RATING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY CRAWLERS RETRACTED POUNDS	BOOM CAPACITY CRAWLERS EXTENDED POUNDS
230	38	82.6	235.9	128,900*	128,900*
	40	82.1	235.6	128,500	128,600*
	42	81.6	235.3	119,700	128,300*
	44	81.1	234.9	112,000	127,900*
	46	80.6	234.6	105,000	124,400
	48	80.1	234.2	98,800	116,800
	50	79.5	233.8	93,100	110,100
	55	78.3	232.8	81,100	95,700
	60	77.0	231.6	71,500	84,300
	65	75.7	230.3	63,500	74,900
	70	74.4	228.9	56,800	67,100
	75	73.1	227.4	51,100	60,500
	80	71.8	225.7	46,200	54,800
	85	70.5	223.9	42,000	49,900
	90	69.1	222.0	38,300	45,600
	95	67.8	219.9	34,900	41,800
	100	66.4	217.7	32,000	38,400
	105	65.1	215.4	29,400	35,400
	110	63.7	212.9	27,000	32,700
	115	62.3	210.3	24,800	30,200
	120	60.8	207.5	22,900	28,000
	125	59.4	204.5	21,100	25,900
	130	57.9	201.4	19,400	24,000
	135	56.4	198.0	17,900	22,300
	140	54.9	194.5	16,500	20,700
240	145	53.4	190.8	15,200	19,200
	150	51.8	186.9	13,900	17,800
	155	50.2	182.7	12,800	16,600
	160	48.5	178.3	11,800	15,400
	165	46.8	173.6	10,800	14,200
	170	45.0	168.6	9,800	13,200
	175	43.2	163.3	8,900	12,200
	180	41.3	157.6	8,100	11,300
	185	39.4	151.6	7,300	10,400
	190	37.3	145.0	6,600	9,600
	195	35.2	138.0	5,900	8,800
	200	32.9	130.4	5,200	8,000
	205	30.5	122.0	4,600	7,300
	210	27.9	112.8	4,000	6,600
	215	25.0	102.3		6,000
	220	21.7	90.3		5,300
	225	17.9	75.8		4,600*
	40	82.4	245.7	116,200*	116,200*
	42	81.9	245.4	115,900*	115,900*
	44	81.4	245.1	111,600	115,600*
	46	81.0	244.7	104,700	115,300*
	48	80.5	244.4	98,400	115,000*
	50	80.0	244.0	92,800	109,700
	55	78.8	243.0	80,800	95,400
	60	77.5	241.9	71,100	83,900
	65	76.3	240.6	63,100	74,500
	70	75.1	239.3	56,400	66,700
	75	73.8	237.8	50,700	60,100
	80	72.6	236.2	45,800	54,400
	85	71.3	234.5	41,600	49,500
	90	70.1	232.7	37,800	45,200
	95	68.8	230.8	34,500	41,400
	100	67.5	228.7	31,600	38,000
	105	66.2	226.5	28,900	35,000
	110	64.9	224.1	26,600	32,200
	115	63.5	221.6	24,400	29,800
	120	62.2	218.9	22,400	27,500
250	125	60.8	216.1	20,600	25,500
	130	59.4	213.2	19,000	23,600
	135	58.0	210.0	17,500	21,900
	140	56.6	206.7	16,000	20,300
	145	55.1	203.2	14,700	18,800
	150	53.6	199.6	13,500	17,400
	155	52.1	195.7	12,400	16,200
	160	50.6	191.6	11,300	15,000
	165	49.0	187.2	10,300	13,800
	170	47.4	182.6	9,400	12,800
	175	45.7	177.7	8,500	11,800
	180	44.0	172.6	7,700	10,900
	185	42.2	167.1	6,900	10,000
	190	40.4	161.3	6,200	9,100
	195	38.5	155.0	5,500	8,400
	200	36.5	148.3	4,800	7,600
	205	34.4	141.1	4,200	6,900
	210	32.2	133.2		6,200
	215	29.8	124.6		5,600
	220	27.3	115.1		4,900
	225	24.4	104.5		4,400
	40	82.7	255.8	105,800*	105,800*
	42	82.2	255.5	105,500*	105,500*
	44	81.8	255.2	105,200*	105,200*
	46	81.3	254.9	104,300	104,900*
	48	80.9	254.5	98,000	104,600*
	50	80.4	254.2	92,400	104,300*
	55	79.2	253.2	80,400	95,000
	60	78.1	252.1	70,700	83,500
	65	76.9	251.0	62,700	74,200
	70	75.7	249.7	56,000	66,300
	75	74.5	248.3	50,300	59,700
	80	73.3	246.8	45,400	54,000
	85	72.1	245.1	41,200	49,100
	90	70.9	243.4	37,500	44,800
	95	69.7	241.5	34,100	41,000
	100	68.4	239.5	31,200	37,600
	105	67.2	237.4	28,600	34,600
	110	65.9	235.2	26,200	31,900
	115	64.7	232.8	24,000	29,400
	120	63.4	230.3	22,000	27,200
	125	62.1	227.6	20,200	25,100
	130	60.8	224.8	18,600	23,200
	135	59.4	221.8	17,100	21,500
	140	58.1	218.7	15,700	19,900
	145	56.7	215.4	14,400	18,400
	150	55.3	212.0	13,100	17,000
	155	53.9	208.3	12,000	15,800
	160	52.5	204.5	10,900	14,600
	165	51.0	200.4	10,000	13,500
	170	49.5	196.1	9,000	12,400
	175	47.9	191.6	8,100	11,400
	180	46.4	186.9	7,300	10,500
	185	44.7	181.8	6,500	9,600
	190	43.1	176.5	5,800	8,800
	195	41.3	170.8	5,100	8,000
	200	39.5	164.8	4,400	7,200
	205	37.7	158.4		6,500
	210	35.7	151.5		5,800
	215	33.7	144.1		5,200
	220	31.5	136.0		4,600
	225	29.2	127.2		4,000

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360 DEGREE RATING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY CRAWLERS RETRACTED POUNDS	BOOM CAPACITY CRAWLERS EXTENDED POUNDS
260	42	82.5	265.6	96,300*	96,300*
	44	82.1	265.3	96,000*	96,000*
	46	81.7	265.0	92,000	95,700*
	48	81.2	264.7	86,000	95,500*
	50	80.8	264.3	80,600	95,200*
	55	79.6	263.4	69,100	83,000
	60	78.5	262.4	59,800	72,100
	65	77.4	261.2	52,100	63,100
	70	76.3	260.0	45,700	55,600
	75	75.1	258.7	40,300	49,200
	80	74.0	257.2	35,600	43,800
	85	72.8	255.7	31,500	39,100
	90	71.7	254.0	27,900	34,900
	95	70.5	252.2	24,800	31,300
	100	69.3	250.3	21,900	28,100
	105	68.1	248.3	19,400	25,200
	110	66.9	246.1	17,100	22,600
	115	65.7	243.9	15,100	20,200
	120	64.5	241.5	13,200	18,000
	125	63.3	238.9	11,400	16,100
270	130	62.0	236.3	9,900	14,300
	135	60.7	233.5	8,400	12,600
	140	59.5	230.5	7,000	11,100
	145	58.2	227.4	5,800	9,700
	150	56.9	224.1	4,600	8,400
	155	55.5	220.7	7,100	
	160	54.2	217.0	6,000	
	165	52.8	213.2	4,900	
	44	82.4	275.4	86,700*	86,700*
	46	82.0	275.1	86,400*	86,400*
	48	81.5	274.8	85,500	86,200*
	50	81.1	274.5	80,000	85,900*
	55	80.0	273.6	68,500	82,500
	60	79.0	272.6	59,200	71,500
	65	77.9	271.5	51,500	62,500
	70	76.8	270.3	45,100	55,000
	75	75.7	269.0	39,600	48,600
	80	74.6	267.6	34,900	43,100
	85	73.5	266.1	30,800	38,400
	90	72.4	264.5	27,300	34,300
	95	71.2	262.8	24,100	30,600
	100	70.1	261.0	21,200	27,400
280	105	69.0	259.1	18,700	24,500
	110	67.8	257.0	16,400	21,900
	115	66.7	254.9	14,300	19,500
	120	65.5	252.6	12,400	17,300
	125	64.3	250.1	10,700	15,400
	130	63.1	247.6	9,100	13,600
	135	61.9	244.9	7,700	11,900
	140	60.7	242.1	6,300	10,400
	145	59.5	239.2	5,100	8,900
	150	58.2	236.1		7,600
	155	57.0	232.8		6,400
	160	55.7	229.4		5,200
	165	54.4	225.8		4,200
	44	82.7	285.5	79,300*	79,300*
	46	82.3	285.2	79,000*	79,000*
	48	81.8	284.9	78,800*	78,800*
	50	81.4	284.6	78,500*	78,500*
	55	80.4	283.8	67,800	77,800*
	60	79.4	282.8	58,500	70,800
	65	78.3	281.8	50,900	61,800
	70	77.3	280.6	44,400	54,300
	75	76.2	279.4	39,000	47,900
	80	75.1	278.0	34,300	42,500
	85	74.1	276.6	30,200	37,800
	90	73.0	275.1	26,600	33,600
	95	71.9	273.4	23,400	30,000
	100	70.9	271.7	20,600	26,700
290	105	69.8	269.8	18,000	23,800
	110	68.7	267.8	15,700	21,200
	115	67.6	265.8		
	120	66.4	263.6		
	125	65.3	261.3		
	130	64.2	258.8		
	135	63.0	256.3		
	140	61.9	253.6		
	145	60.7	250.8		
	150	59.5	247.8		
	155	58.3	244.7		
	160	57.1	241.5		
	46	82.5	295.3	72,300*	72,300*
	48	82.1	295.1	72,000*	72,000*
	50	81.7	294.7	71,800*	71,800*
	55	80.7	293.9	67,300	71,100*
	60	79.7	293.0	58,000	70,300
	65	78.7	292.0	50,300	61,300
	70	77.7	290.9	43,900	53,800
	75	76.7	289.7	38,400	47,400
	80	75.7	288.4	33,700	41,900
	85	74.6	287.0	29,600	37,200
	90	73.6	285.5	26,000	33,100
	95	72.6	283.9	22,800	29,400
	100	71.5	282.3	20,000	26,200
	105	70.5	280.5	17,500	23,300
	110	69.4	278.6	15,200	20,600
	115	68.4	276.6	13,100	18,300
	120	67.3	274.5	11,200	16,100
	125	66.2	272.3	9,500	14,100
	130	65.1	270.0	7,900	12,300
	135	64.0	267.5	6,400	10,700
	140	62.9	264.9	5,100	9,100
	145	61.8	262.2		7,700
	150	60.7	259.4		6,400
	155	59.5	256.5		5,200
	160	58.4	253.4		4,000