

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

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'	---
280'	---	(a) 280'	---	250'	---	230'	30'
270'	30'	270'	---	240'	50'	220'	60'
260'	60'	260'	50'	230'	60'		
		250'	60'				
LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START. (a) UPPER BOOM POINT CANNOT BE USED ON 290' BOOM AND CANNOT BE LIFTED OVER REAR OF BLOCKED CRAWLERS ON 280' BOOM OR 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 WHEN LIFTED OVER REAR OF BLOCKED CRAWLERS.							

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'	50'	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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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	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY CRAWLERS RETRACTED POUNDS	BOOM CAPACITY CRAWLERS EXTENDED POUNDS
70	15	81.8	77.4		460,000*	90	46	62.9	88.2	109,700	128,600
	16	81.0	77.2		434,600*		48	61.5	87.1	103,600	121,200
	17	80.1	77.0		410,800*		50	60.0	86.0	98,000	114,500
	18	79.3	76.9		389,300*		55	56.3	82.9	86,200	100,400
	19	78.5	76.7		370,000*		60	52.3	79.3	76,600	89,100
	20	77.6	76.4		352,400*		65	48.2	75.2	68,700	79,800
	22	75.9	76.0		321,600*		70	43.8	70.3	62,100	72,100
	24	74.3	75.4		295,600*		75	38.9	64.6	56,400	65,500
	26	72.5	74.8		273,300*		80	33.6	57.8	51,500	59,900
	28	70.8	74.2		254,000*		85	27.3	49.3	47,300	54,900
	30	69.1	73.5		237,200*	100	90	19.2	37.6	43,500	50,600
	32	67.3	72.7		218,300		19	82.0	107.1		364,000*
	34	65.5	71.8		199,100		20	81.4	106.9		350,600*
	36	63.7	70.8		183,000		22	80.2	106.6		319,800*
	38	61.9	69.8		169,100		24	79.0	106.2		293,800*
	40	60.0	68.7		157,000		26	77.9	105.8		271,500*
	42	58.1	67.5		146,500		28	76.7	105.4		252,200*
	44	56.1	66.2		137,200		30	75.5	104.9		235,300*
	46	54.1	64.8		128,900		32	74.3	104.4		218,400
	48	52.1	63.3		121,500		34	73.1	103.8		199,200
	50	50.0	61.7	98,400	114,800		36	71.9	103.1		182,900
	55	44.4	57.1	86,600	100,700		38	70.7	102.5		168,900
	60	38.2	51.4	77,000	89,400		40	69.5	101.7		156,800
	65	31.0	44.1	69,100	80,200		42	68.3	101.0	124,200	146,200
	70	21.8	34.0	62,400	72,400		44	67.0	100.2	116,500	136,900
80	17	81.4	87.2		410,100*		46	65.8	99.3	109,600	128,600
	18	80.6	87.0		388,700*		48	64.5	98.4	103,400	121,100
	19	79.9	86.8		369,300*		50	63.3	97.4	97,900	114,400
	20	79.2	86.7		351,800*		55	60.0	94.7	86,000	100,300
	22	77.7	86.2		321,000*		60	56.6	91.6	76,400	88,900
	24	76.3	85.8		295,000*		65	53.1	88.1	68,500	79,600
	26	74.8	85.3		272,700*		70	49.5	84.1	61,900	71,900
	28	73.3	84.7		253,400*		75	45.6	79.5	56,200	65,300
	30	71.8	84.1		236,500*		80	41.4	74.2	51,300	59,700
	32	70.3	83.4		218,400		85	36.9	68.1	47,100	54,800
	34	68.7	82.6		199,200		90	31.8	60.7	43,400	50,500
	36	67.2	81.8		183,000		95	25.8	51.7	40,000	46,700
	38	65.6	80.9		169,100		100	18.2	39.3	37,000	43,200
	40	64.1	80.0		157,000	110	22	81.1	116.7		314,400*
	42	62.5	79.0		146,400		24	80.1	116.4		292,900*
	44	60.8	77.9		137,100		26	79.0	116.0		270,700*
	46	59.2	76.8		128,800		28	77.9	115.6		251,400*
	48	57.5	75.5	103,900	121,400		30	76.9	115.2		234,500*
	50	55.8	74.2	98,300	114,700		32	75.8	114.7		218,300
	55	51.3	70.5	86,400	100,600		34	74.7	114.2		199,000
	60	46.6	66.2	76,900	89,300		36	73.6	113.6		182,700
	65	41.4	61.0	69,000	80,100		38	72.5	113.0		168,700
	70	35.7	54.7	62,300	72,300		40	71.4	112.4		156,500
90	75	29.0	46.8	56,700	65,700		42	70.3	111.7	123,800	145,900
	80	20.4	35.9	51,700	60,000		44	69.2	110.9	116,100	136,500
	18	81.7	97.1		378,000*		46	68.1	110.1	109,200	128,200
	19	81.1	97.0		368,600*		48	67.0	109.3	103,100	120,800
	20	80.4	96.8		351,000*		50	65.9	108.4	97,500	114,100
	22	79.1	96.4		320,300*		55	63.0	106.0	85,600	99,900
	24	77.8	96.0		294,200*		60	60.0	103.3	76,000	88,500
	26	76.5	95.6		272,000*		65	56.9	100.3	68,100	79,200
	28	75.2	95.1		252,700*		70	53.8	96.8	61,400	71,500
	30	73.9	94.5		235,800*		75	50.5	92.9	55,800	64,900
	32	72.5	93.9		218,300		80	47.0	88.5	50,900	59,300
	34	71.2	93.3		199,100		85	43.3	83.6	46,700	54,400
	36	69.9	92.6		182,900		90	39.4	77.9	42,900	50,100
	38	68.5	91.8		168,900		95	35.1	71.3	39,600	46,300
	40	67.1	91.0		156,800		100	30.3	63.5	36,700	42,900
	42	65.7	90.1		146,300		105	24.6	53.9	34,000	39,900
	44	64.3	89.2	116,600	136,900		110	17.3	40.9	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
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		218,000
	34	76.0	124.5		198,700
	36	75.0	124.0		182,400
	38	74.0	123.4	142,000	168,400
	40	73.0	122.9	132,200	156,300
	42	72.0	122.2	123,500	145,600
	44	71.0	121.6	115,800	136,300
	46	70.0	120.8	108,900	127,900
	48	69.0	120.1	102,700	120,500
	50	68.0	119.3	97,100	113,800
	55	65.4	117.2	85,300	99,600
	60	62.7	114.7	75,700	88,200
	65	60.0	112.0	67,800	79,000
	70	57.2	108.9	61,100	71,200
	75	54.3	105.5	55,500	64,600
130	80	51.3	101.7	50,600	59,000
	85	48.2	97.5	46,400	54,100
	90	44.9	92.8	42,700	49,800
	95	41.4	87.4	39,400	46,100
	100	37.7	81.4	36,400	42,700
	105	33.6	74.4	33,800	39,600
	110	29.0	66.2	31,400	36,900
	115	23.6	56.0	29,200	34,400
	120	16.6	42.3	27,100	32,100
	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		218,100
	34	77.1	134.8		198,800
	36	76.2	134.3	153,200	182,400
	38	75.3	133.8	141,900	168,400
	40	74.4	133.3	132,100	156,300
	42	73.5	132.7	123,400	145,600
	44	72.5	132.1	115,700	136,200
	46	71.6	131.4	108,800	127,900
	48	70.7	130.8	102,700	120,400
	50	69.7	130.0	97,100	113,700
	55	67.4	128.1	85,200	99,500
	60	65.0	125.9	75,600	88,200
	65	62.5	123.4	67,600	78,900
	70	60.0	120.7	61,000	71,100
	75	57.4	117.6	55,400	64,500
	80	54.8	114.3	50,500	58,900
	85	52.0	110.5	46,300	54,000
	90	49.2	106.4	42,600	49,700
	95	46.2	101.9	39,300	46,000
	100	43.0	96.8	36,300	42,600
	105	39.7	91.1	33,700	39,600
	110	36.1	84.7	31,300	36,800
	115	32.2	77.4	29,100	34,400
	120	27.8	68.7	27,100	32,100
	125	22.6	58.1	25,300	30,000
	130	15.9	43.8	23,600	28,100

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY CRAWLERS RETRACTED POUNDS	BOOM CAPACITY CRAWLERS EXTENDED 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		217,800
	34	78.0	145.0	165,900	198,500
	36	77.2	144.6	152,900	182,100
	38	76.4	144.1	141,600	168,100
	40	75.5	143.6	131,800	155,900
	42	74.7	143.1	123,100	145,300
	44	73.8	142.5	115,400	135,900
	46	73.0	141.9	108,500	127,600
	48	72.1	141.3	102,300	120,100
	50	71.3	140.6	96,700	113,400
	55	69.1	138.8	84,800	99,200
	60	66.9	136.8	75,200	87,800
	65	64.6	134.6	67,300	78,500
	70	62.3	132.1	60,600	70,800
	75	60.0	129.3	55,000	64,200
	80	57.6	126.3	50,100	58,600
	85	55.2	123.0	45,900	53,700
150	90	52.6	119.3	42,200	49,400
	95	50.0	115.3	38,900	45,600
	100	47.3	110.9	36,000	42,300
	105	44.4	106.0	33,300	39,200
	110	41.4	100.7	30,900	36,500
	115	38.2	94.7	28,800	34,100
	120	34.8	87.9	26,800	31,800
	125	31.0	80.2	25,000	29,700
	130	26.8	71.1	23,300	27,900
	135	21.8	60.0	21,700	26,100
	140	15.4	45.2	20,300	24,400
	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	165,600	198,300
	36	78.1	154.8	152,500	181,900
	38	77.3	154.4	141,300	167,800
	40	76.5	153.9	131,400	155,600
	42	75.7	153.4	122,700	145,000
	44	74.9	152.9	115,000	135,600
	46	74.1	152.4	108,100	127,200
	48	73.3	151.8	101,900	119,700
	50	72.5	151.2	96,300	113,000
	55	70.5	149.5	84,300	98,800
	60	68.5	147.6	74,700	87,400
	65	66.4	145.5	66,800	78,100
	70	64.3	143.3	60,200	70,300
	75	62.2	140.7	54,500	63,700
	80	60.0	138.0	49,600	58,100
	85	57.8	135.0	45,400	53,200
	90	55.5	131.7	41,700	48,900
	95	53.1	128.1	38,400	45,100
	100	50.7	124.2	35,400	41,800
	105	48.2	119.9	32,800	38,700
	110	45.6	115.2	30,400	36,000
	115	42.8	110.0	28,300	33,600
	120	39.9	104.4	26,300	31,300
	125	36.9	98.1	24,500	29,300
	130	33.6	91.0	22,800	27,400
	135	29.9	82.9	21,300	25,600
	140	25.8	73.5	19,800	24,000
	145	21.0	61.9	18,500	22,500

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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	81.7	166.4		225,000*
	30	81.0	166.1		220,500*
	32	80.3	165.8	180,500	216,100*
	34	79.6	165.4	165,200	197,900
	36	78.8	165.0	152,200	181,500
	38	78.1	164.6	140,900	167,500
	40	77.4	164.2	131,000	155,300
	42	76.6	163.7	122,300	144,600
	44	75.9	163.2	114,600	135,200
	46	75.2	162.7	107,700	126,800
	48	74.4	162.2	101,500	119,300
	50	73.7	161.6	95,900	112,600
	55	71.8	160.1	83,900	98,400
	60	69.9	158.3	74,300	87,000
	65	68.0	156.4	66,400	77,700
	70	66.0	154.3	59,700	69,900
	75	64.1	151.9	54,100	63,300
	80	62.0	149.4	49,200	57,700
	85	60.0	146.6	45,000	52,800
	90	57.9	143.6	41,300	48,500
170	95	55.8	140.4	38,000	44,700
	100	53.6	136.8	35,000	41,400
	105	51.3	133.0	32,400	38,300
	110	49.0	128.8	30,000	35,600
	115	46.6	124.3	27,900	33,200
	120	44.0	119.3	25,900	30,900
	125	41.4	113.9	24,100	28,900
	130	38.6	107.9	22,400	27,000
	135	35.7	101.3	20,900	25,300
	140	32.5	93.9	19,500	23,700
	145	29.0	85.5	18,200	22,200
	150	25.0	75.7	16,900	20,800
	155	20.4	63.7	15,700	19,400
	30	81.5	176.2	198,300	208,300*
	32	80.9	175.9	180,200	204,500*
	34	80.2	175.6	165,000	197,700
	36	79.5	175.2	151,900	181,300
	38	78.8	174.8	140,600	167,200
	40	78.1	174.4	130,700	155,000
	42	77.4	174.0	122,000	144,400
	44	76.7	173.5	114,300	135,000
	46	76.0	173.1	107,400	126,600
	48	75.3	172.5	101,200	119,100
	50	74.7	172.0	95,600	112,400
	55	72.9	170.5	83,700	98,100
	60	71.1	168.9	74,000	86,700
	65	69.3	167.1	66,100	77,400
	70	67.5	165.2	59,500	69,600
	75	65.7	163.0	53,800	63,000
	80	63.8	160.6	48,900	57,400
	85	61.9	158.1	44,700	52,500
	90	60.0	155.3	41,000	48,200
	95	58.0	152.3	37,700	44,400
	100	56.0	149.0	34,800	41,100
	105	54.0	145.5	32,100	38,100
	110	51.9	141.8	29,700	35,400
	115	49.7	137.7	27,600	32,900
	120	47.4	133.3	25,600	30,700
	125	45.1	128.5	23,800	28,600
	130	42.7	123.3	22,200	26,700
	135	40.1	117.6	20,600	25,000
	140	37.4	111.4	19,200	23,400
	145	34.6	104.5	17,900	21,900
	150	31.5	96.8	16,700	20,500
	155	28.1	88.1	15,500	19,200
	160	24.2	77.9	14,500	18,000
	165	19.7	65.5	13,400	16,900

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY CRAWLERS RETRACTED POUNDS	BOOM CAPACITY CRAWLERS EXTENDED POUNDS
180	30	82.0	186.3	197,700*	197,700*
	32	81.4	186.0	179,900	194,200*
	34	80.7	185.7	164,600	190,800*
	36	80.1	185.4	151,500	181,000
	38	79.4	185.0	140,200	166,900
	40	78.8	184.6	130,300	154,700
	42	78.1	184.2	121,600	144,000
	44	77.5	183.8	113,900	134,600
	46	76.8	183.3	107,000	126,200
	48	76.2	182.9	100,800	118,700
	50	75.5	182.4	95,200	112,000
	55	73.9	181.0	83,200	97,700
	60	72.2	179.5	73,600	86,300
	65	70.5	177.8	65,700	77,000
	70	68.8	175.9	59,000	69,200
	75	67.1	173.9	53,400	62,600
	80	65.4	171.7	48,500	57,000
	85	63.6	169.3	44,300	52,100
	90	61.8	166.7	40,600	47,800
	95	60.0	164.0	37,300	44,000
190	100	58.1	161.0	34,300	40,700
	105	56.3	157.7	31,700	37,600
	110	54.3	154.3	29,300	34,900
	115	52.3	150.5	27,200	32,500
	120	50.3	146.5	25,200	30,200
	125	48.2	142.2	23,400	28,200
	130	46.0	137.6	21,700	26,300
	135	43.8	132.6	20,200	24,600
	140	41.4	127.1	18,800	23,000
	145	38.9	121.2	17,500	21,500
	150	36.3	114.7	16,300	20,100
	155	33.6	107.6	15,100	18,900
	160	30.6	99.6	14,100	17,600
	165	27.3	90.5	13,100	16,500
	170	23.6	80.0	12,100	15,400
	175	19.2	67.2	11,200	14,400
	32	81.8	196.1	179,600	181,000*
	34	81.2	195.8	164,300	178,100*
	36	80.6	195.5	151,200	175,200*
	38	80.0	195.2	139,900	166,600
	40	79.4	194.8	130,000	154,400
	42	78.8	194.4	121,300	143,700
	44	78.2	194.0	113,500	134,300
	46	77.5	193.6	106,600	125,900
	48	76.9	193.1	100,400	118,300
	50	76.3	192.7	94,800	111,600
	55	74.7	191.4	82,800	97,300
	60	73.2	189.9	73,100	85,900
	65	71.6	188.3	65,200	76,500
	70	70.0	186.6	58,500	68,800
	75	68.4	184.7	52,900	62,200
	80	66.8	182.6	48,000	56,500
	85	65.1	180.4	43,800	51,600
	90	63.4	178.0	40,000	47,300
	95	61.7	175.4	36,700	43,500
	100	60.0	172.6	33,800	40,200
	105	58.2	169.6	31,200	37,100
	110	56.5	166.4	28,800	34,400
	115	54.6	163.0	26,600	32,000
	120	52.8	159.3	24,700	29,700
	125	50.8	155.4	22,900	27,700
	130	48.9	151.2	21,200	25,800
	135	46.8	146.6	19,700	24,100
	140	44.7	141.8	18,300	22,500
	145	42.5	136.5	17,000	21,000
	150	40.3	130.8	15,700	19,600
	155	37.9	124.7	14,600	18,300
	160	35.3	118.0	13,500	17,100
	165	32.6	110.5	12,500	16,000
	170	29.7	102.3	11,600	14,900
	175	26.5	92.9	10,700	13,900
	180	22.9	82.1	9,800	13,000
	185	18.7	68.9	9,000	12,100

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

888 SERIES 2

NEW YORK CITY CODE

BOOM NO. 22E WITH OPEN THROAT TOP

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	81.7	206.0	163,900	168,000*
	36	81.1	205.7	150,800	165,400*
	38	80.5	205.3	139,500	162,800*
	40	79.9	205.0	129,600	154,000
	42	79.3	204.6	120,800	143,300
	44	78.8	204.2	113,100	133,800
	46	78.2	203.8	106,200	125,400
	48	77.6	203.4	99,900	117,900
	50	77.0	202.9	94,300	111,200
	55	75.5	201.7	82,300	96,900
	60	74.0	200.4	72,700	85,500
	65	72.5	198.9	64,700	76,100
	70	71.0	197.2	58,100	68,300
	75	69.5	195.4	52,400	61,700
	80	68.0	193.5	47,500	56,100
	85	66.4	191.4	43,300	51,200
	90	64.8	189.1	39,600	46,900
	95	63.3	186.7	36,300	43,100
	100	61.6	184.1	33,300	39,700
	105	60.0	181.3	30,700	36,700
210	110	58.3	178.3	28,300	34,000
	115	56.6	175.1	26,200	31,500
	120	54.9	171.7	24,200	29,300
	125	53.1	168.1	22,400	27,200
	130	51.3	164.2	20,800	25,400
	135	49.5	160.1	19,200	23,600
	140	47.5	155.6	17,800	22,000
	145	45.6	150.9	16,500	20,500
	150	43.5	145.8	15,300	19,200
	155	41.4	140.4	14,200	17,900
	160	39.2	134.5	13,100	16,700
	165	36.9	128.1	12,100	15,600
	170	34.4	121.1	11,200	14,500
	175	31.8	113.4	10,300	13,500
	180	29.0	104.9	9,400	12,600
	185	25.8	95.2	8,600	11,700
	190	22.3	84.1	7,900	10,800
	195	18.2	70.5	7,200	10,000
	36	81.5	215.8	150,500	157,000*
	38	81.0	215.5	139,200	154,800*
	40	80.4	215.1	129,300	152,600*
	42	79.9	214.8	120,500	143,000
	44	79.3	214.4	112,800	133,500
	46	78.7	214.0	105,800	125,100
	48	78.2	213.6	99,600	117,600
	50	77.6	213.2	94,000	110,900
	55	76.2	212.0	82,000	96,600
	60	74.8	210.7	72,400	85,100
	65	73.4	209.3	64,400	75,800
	70	72.0	207.8	57,700	68,000
	75	70.5	206.1	52,100	61,400
	80	69.1	204.2	47,200	55,700
	85	67.6	202.2	43,000	50,800
	90	66.1	200.1	39,200	46,500
	95	64.6	197.8	35,900	42,700
	100	63.1	195.4	33,000	39,400
	105	61.6	192.7	30,400	36,300
	110	60.0	189.9	28,000	33,600
	115	58.4	187.0	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	56.8	183.8	23,900	28,900
	125	55.2	180.4	22,100	26,900
	130	53.5	176.8	20,400	25,000
	135	51.8	173.0	18,900	23,300
	140	50.0	168.9	17,500	21,700
	145	48.2	164.6	16,200	20,200
	150	46.3	160.0	15,000	18,800
	155	44.4	155.0	13,800	17,600
	160	42.4	149.8	12,800	16,400
	165	40.4	144.1	11,800	15,200
	170	38.2	138.0	10,800	14,200
	175	36.0	131.4	9,900	13,200
	180	33.6	124.2	9,100	12,300
	185	31.0	116.2	8,300	11,400
	190	28.2	107.4	7,600	10,500
	195	25.2	97.5	6,900	9,700
	200	21.8	86.0	6,200	9,000
	205	17.8	72.1	5,500	8,200
	36	81.9	225.9	148,800*	148,800*
	38	81.4	225.6	138,700	146,700*
	40	80.8	225.3	128,800	144,600*
	42	80.3	224.9	120,100	142,600*
	44	79.8	224.6	112,300	133,100
220	46	79.3	224.2	105,400	124,700
	48	78.7	223.8	99,200	117,200
	50	78.2	223.4	93,500	110,400
	55	76.9	222.3	81,600	96,100
	60	75.5	221.1	71,900	84,700
	65	74.2	219.7	64,000	75,300
	70	72.8	218.2	57,300	67,500
	75	71.4	216.6	51,600	60,900
	80	70.1	214.9	46,700	55,300
	85	68.7	213.0	42,500	50,400
	90	67.3	211.0	38,800	46,100
	95	65.9	208.8	35,500	42,300
	100	64.4	206.5	32,500	38,900
	105	63.0	204.0	29,900	35,900
	110	61.5	201.4	27,500	33,200
	115	60.0	198.6	25,400	30,700
	120	58.5	195.6	23,400	28,500
	125	56.9	192.5	21,600	26,400
	130	55.4	189.1	19,900	24,600
	135	53.8	185.6	18,400	22,800
	140	52.1	181.8	17,000	21,200
	145	50.5	177.8	15,700	19,800
	150	48.8	173.5	14,500	18,400
	155	47.0	169.0	13,400	17,100
	160	45.2	164.2	12,300	15,900
	165	43.3	159.1	11,300	14,800
	170	41.4	153.6	10,400	13,700
	175	39.4	147.7	9,500	12,700
	180	37.3	141.4	8,700	11,800
	185	35.1	134.6	7,900	10,900
	190	32.8	127.1	7,100	10,100
	195	30.3	119.0	6,400	9,300
	200	27.6	109.9	5,800	8,600
	205	24.6	99.7	5,100	7,800
	210	21.3	87.9	4,500	7,100
	215	17.3	73.6	3,900	6,500

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BOOM NO. 22E WITH OPEN THROAT TOP

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	81.8	235.7	135,000*	135,000*
	40	81.2	235.4	128,500	134,200*
	42	80.7	235.1	119,800	132,400*
	44	80.2	234.7	112,000	130,600*
	46	79.7	234.4	105,000	124,400
	48	79.2	234.0	98,800	116,900
	50	78.7	233.6	93,100	110,100
	55	77.4	232.6	81,100	95,800
	60	76.2	231.4	71,500	84,300
	65	74.9	230.1	63,500	74,900
	70	73.6	228.7	56,800	67,100
	75	72.3	227.2	51,100	60,500
	80	71.0	225.5	46,200	54,800
	85	69.6	223.7	42,000	49,900
	90	68.3	221.8	38,300	45,600
	95	67.0	219.7	35,000	41,800
	100	65.6	217.5	32,000	38,400
	105	64.2	215.2	29,400	35,400
	110	62.8	212.7	27,000	32,700
	115	61.4	210.1	24,800	30,200
	120	60.0	207.3	22,900	28,000
	125	58.6	204.3	21,100	25,900
	130	57.1	201.1	19,400	24,000
	135	55.6	197.8	17,900	22,300
	140	54.1	194.3	16,500	20,700
240	145	52.5	190.6	15,200	19,200
	150	50.9	186.6	14,000	17,900
	155	49.3	182.4	12,800	16,600
	160	47.6	178.0	11,800	15,400
	165	45.9	173.3	10,800	14,300
	170	44.2	168.3	9,800	13,200
	175	42.3	163.0	9,000	12,200
	180	40.5	157.3	8,100	11,300
	185	38.5	151.2	7,300	10,400
	190	36.5	144.7	6,600	9,600
	195	34.3	137.7	5,900	8,800
	200	32.0	130.0	5,200	8,000
	205	29.6	121.6	4,600	7,300
	210	27.0	112.4	4,000	6,600
	215	24.1	101.9		6,000
	220	20.8	89.8		5,300
	225	17.0	75.2		4,600*
	40	81.6	245.5	122,500*	122,500*
	42	81.1	245.2	119,400	122,100*
	44	80.6	244.9	111,600	121,700*
	46	80.2	244.5	104,700	121,300*
	48	79.7	244.2	98,400	116,500
	50	79.2	243.8	92,800	109,700
	55	78.0	242.8	80,800	95,400
	60	76.8	241.7	71,100	83,900
	65	75.5	240.4	63,100	74,500
	70	74.3	239.1	56,400	66,700
	75	73.0	237.6	50,700	60,100
	80	71.8	236.0	45,800	54,400
	85	70.5	234.3	41,600	49,500
	90	69.3	232.5	37,800	45,200
	95	68.0	230.6	34,500	41,400
	100	66.7	228.5	31,600	38,000
	105	65.4	226.2	29,000	35,000
	110	64.1	223.9	26,600	32,300
	115	62.7	221.4	24,400	29,800
	120	61.4	218.7	22,400	27,500
250	125	60.0	215.9	20,600	25,500
	130	58.6	212.9	19,000	23,600
	135	57.2	209.8	17,500	21,900
	140	55.8	206.5	16,100	20,300
	145	54.3	203.0	14,700	18,800
	150	52.8	199.3	13,500	17,400
	155	51.3	195.4	12,400	16,200
	160	49.8	191.3	11,300	15,000
	165	48.2	187.0	10,300	13,800
	170	46.6	182.4	9,400	12,800
	175	44.9	177.5	8,500	11,800
	180	43.2	172.3	7,700	10,900
	185	41.4	166.8	6,900	10,000
	190	39.6	161.0	6,200	9,200
	195	37.7	154.7	5,500	8,400
	200	35.7	148.0	4,800	7,600
	205	33.6	140.7	4,200	6,900
	210	31.3	132.9		6,200
	215	29.0	124.3		5,600
	220	26.4	114.7		5,000
	225	23.6	104.0		4,400
	40	82.0	255.6	110,900*	110,900*
	42	81.5	255.3	110,500*	110,500*
	44	81.0	255.0	110,100*	110,100*
	46	80.6	254.7	104,300	109,800*
	48	80.1	254.3	98,100	109,400*
	50	79.6	254.0	92,400	109,000*
	55	78.5	253.0	80,400	95,000
	60	77.3	251.9	70,700	83,600
	65	76.1	250.8	62,700	74,200
	70	74.9	249.5	56,000	66,300
	75	73.7	248.1	50,300	59,700
	80	72.5	246.6	45,500	54,000
	85	71.3	244.9	41,200	49,100
	90	70.1	243.2	37,500	44,800
	95	68.9	241.3	34,200	41,000
	100	67.7	239.3	31,200	37,600
	105	66.4	237.2	28,600	34,600
	110	65.2	235.0	26,200	31,900
	115	63.9	232.6	24,000	29,400
	120	62.6	230.0	22,100	27,200
	125	61.3	227.4	20,300	25,100
	130	60.0	224.6	18,600	23,200
	135	58.7	221.6	17,100	21,500
	140	57.3	218.5	15,700	19,900
	145	55.9	215.2	14,400	18,400
	150	54.5	211.7	13,100	17,100
	155	53.1	208.1	12,000	15,800
	160	51.7	204.2	11,000	14,600
	165	50.2	200.2	10,000	13,500
	170	48.7	195.9	9,000	12,400
	175	47.2	191.4	8,200	11,400
	180	45.6	186.6	7,300	10,500
	185	43.9	181.6	6,500	9,600
	190	42.3	176.2	5,800	8,800
	195	40.5	170.5	5,100	8,000
	200	38.7	164.5	4,400	7,200
	205	36.9	158.1		6,500
	210	34.9	151.2		5,900
	215	32.9	143.7		5,200
	220	30.7	135.6		4,600
	225	28.4	126.8		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	81.8	265.4	101,000*	101,000*
	44	81.4	265.1	98,700	100,600*
	46	80.9	264.8	92,000	100,200*
	48	80.5	264.5	86,000	99,900*
	50	80.0	264.1	80,600	96,800
	55	78.9	263.2	69,100	83,100
	60	77.8	262.2	59,800	72,100
	65	76.7	261.1	52,200	63,100
	70	75.5	259.8	45,800	55,600
	75	74.4	258.5	40,300	49,200
	80	73.2	257.0	35,600	43,800
	85	72.1	255.5	31,500	39,100
	90	70.9	253.8	27,900	35,000
	95	69.7	252.0	24,800	31,300
	100	68.6	250.1	22,000	28,100
	105	67.4	248.1	19,400	25,200
	110	66.2	245.9	17,100	22,600
	115	65.0	243.7	15,100	20,200
	120	63.7	241.3	13,200	18,000
	125	62.5	238.7	11,400	16,100
270	130	61.3	236.0	9,900	14,300
	135	60.0	233.2	8,400	12,600
	140	58.7	230.3	7,100	11,100
	145	57.4	227.2	5,800	9,700
	150	56.1	223.9	4,600	8,400
	155	54.8	220.4	7,100	11,100
	160	53.4	216.8	6,000	9,000
	165	52.0	213.0	4,900	7,000
	44	81.7	275.2	91,900*	91,900*
	46	81.3	274.9	91,500*	91,500*
	48	80.8	274.6	85,500	91,200*
	50	80.4	274.3	80,000	90,800*
	55	79.3	273.4	68,500	82,500
	60	78.2	272.4	59,200	71,500
	65	77.2	271.3	51,500	62,500
	70	76.1	270.1	45,100	55,000
	75	75.0	268.8	39,600	48,600
	80	73.9	267.4	34,900	43,200
	85	72.8	265.9	30,900	38,400
	90	71.7	264.3	27,300	34,300
	95	70.5	262.6	24,100	30,600
	100	69.4	260.8	21,300	27,400
	105	68.3	258.9	18,700	24,500
280	110	67.1	256.8	16,400	21,900
	115	66.0	254.6	14,300	19,500
	120	64.8	252.4	12,500	17,300
	125	63.6	249.9	10,700	15,400
	130	62.4	247.4	9,100	13,600
	135	61.2	244.7	7,700	11,900
	140	60.0	241.9	6,300	10,400
	145	58.8	238.9	5,100	9,000
	150	57.5	235.8	7,600	11,600
	155	56.3	232.6	6,400	10,400
	160	55.0	229.1	5,300	9,300
	165	53.7	225.6	4,200	8,200
	44	82.0	285.3	83,200*	83,200*
	46	81.6	285.1	82,900*	82,900*
	48	81.2	284.7	82,600*	82,600*
	50	80.8	284.4	79,400	82,300*
	55	79.7	283.6	67,900	81,400*
	60	78.7	282.6	58,500	70,900
	65	77.6	281.6	50,900	61,800
	70	76.6	280.4	44,400	54,300
	75	75.5	279.2	39,000	48,000
	80	74.5	277.8	34,300	42,500
	85	73.4	276.4	30,200	37,800
	90	72.3	274.9	26,600	33,600
	95	71.3	273.2	23,400	30,000
	100	70.2	271.5	20,600	26,700
	105	69.1	269.6	18,000	23,800
	110	68.0	267.6	15,800	21,200
	115	66.9	265.6	13,700	18,800

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY CRAWLERS RETRACTED POUNDS	BOOM CAPACITY CRAWLERS EXTENDED POUNDS
280	120	65.8	263.4	11,800	16,700
	125	64.6	261.1	10,100	14,700
	130	63.5	258.6	8,500	12,900
	135	62.3	256.1	7,000	11,200
	140	61.2	253.4	5,600	9,700
	145	60.0	250.6	4,400	8,300
	150	58.8	247.6	7,000	11,200
	155	57.6	244.5	5,700	9,700
	160	56.4	241.3	4,600	8,300
	46	81.9	295.2	75,900*	75,900*
290	48	81.5	294.9	75,600*	75,600*
	50	81.1	294.6	75,300*	75,300*
	55	80.1	293.7	67,300	74,500*
	60	79.1	292.8	58,000	70,300
	65	78.1	291.8	50,300	61,300
	70	77.0	290.7	43,900	53,800
	75	76.0	289.5	38,400	47,400
	80	75.0	288.2	33,700	42,000
	85	74.0	286.8	29,600	37,200
	90	73.0	285.3	26,000	33,100
	95	71.9	283.8	22,900	29,400
	100	70.9	282.1	20,000	26,200
	105	69.8	280.3	17,500	23,300
	110	68.8	278.4	15,200	20,600
	115	67.7	276.4	13,100	18,300
	120	66.6	274.3	11,200	16,100
	125	65.6	272.1	9,500	14,200
	130	64.5	269.7	7,900	12,300
	135	63.4	267.3	6,400	10,700
	140	62.3	264.7	5,100	9,100
	145	61.1	262.0	7,700	11,200
	150	60.0	259.2	6,400	9,700
	155	58.9	256.3	5,200	8,300
	160	57.7	253.2	4,000	7,000