

MANITOWOC ENGINEERING CO.

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



LIFTCRANE BOOM CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

888 SERIES 1

NEW YORK CITY CODE

BOOM NO. 22E WITH OPEN THROAT TOP

OFFSET 4-1/2 DEGREES

144,100 LB. 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, AND 144,100 LB. COUNTERWEIGHT.

DEDUCT FROM CAPACITIES
WHEN JIB IS ATTACHED

JIB LENGTH	JIB NO. 123
30'	2,500 LBS.
40'	3,100 LBS.
50'	3,700 LBS.
60'	4,400 LBS.

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) 260'	---	(a) 250'	---	220'	---	210'	---
(a) 250'	---	240'	---	210'	40'	200'	30'
240'	---	230'	40'	200'	60'	190'	60'
230'	50'	220'	60'				
220'	60'						
LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START. (a) UPPER BOOM POINT CANNOT BE USED ON 260' AND 250' BOOM. WIRE ROPE GUIDE ASSEMBLY 179061 UPPER AND MIDDLE SHEAVES AND SHAFTS OR ASSEMBLY 92671 UPPER SHEAVE AND SHAFT MUST BE REMOVED ON 260' BOOM WHEN LIFTED OVER FRONT 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) 250'	---	(a) 250'	---	220'	---	200'	---
240'	---	240'	---	210'	30'	190'	50'
230'	40'	230'	30'	200'	60'	180'	60'
220'	60'	220'	60'				
LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START. (a) UPPER BOOM POINT CANNOT BE USED ON 250' 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		386,400*
	18	82.0	77.1		366,300*
	19	81.2	76.9		348,000*
	20	80.3	76.7		331,400*
	22	78.7	76.2		302,400*
	24	77.0	75.7		277,900*
	26	75.3	75.1		242,700
	28	73.6	74.4		214,500
	30	71.8	73.7		191,900
	32	70.1	72.9		173,400
	34	68.3	72.0		158,000
	36	66.5	71.1		145,000
	38	64.7	70.1		133,800
	40	62.8	69.0		124,100
	42	60.9	67.8		115,700
	44	59.0	66.5	92,100	108,200
	46	57.0	65.1	86,600	101,500
	48	54.9	63.6	81,600	95,500
	50	52.8	62.0	77,100	90,200
	55	47.3	57.4	67,600	78,800
80	60	41.1	51.8	59,800	69,700
	65	34.0	44.6	53,400	62,200
	70	25.0	34.7	48,000	55,900
	18	83.0	87.2		343,900*
	19	82.3	87.1		338,400*
	20	81.6	86.9		330,800*
	22	80.1	86.5		301,800*
	24	78.6	86.0		277,300*
	26	77.2	85.5		242,900
	28	75.7	84.9		214,600
	30	74.2	84.3		192,000
	32	72.7	83.6		173,500
	34	71.2	82.9		158,100
	36	69.6	82.1		145,000
	38	68.1	81.2		133,800
	40	66.5	80.3		124,100
	42	64.9	79.3	98,100	115,600
	44	63.3	78.2	92,000	108,100
	46	61.6	77.0	86,400	101,400
	48	59.9	75.8	81,500	95,400
90	50	58.2	74.5	77,000	90,100
	55	53.8	70.8	67,400	78,700
	60	49.1	66.5	59,700	69,600
	65	43.9	61.3	53,300	62,100
	70	38.2	55.1	47,900	55,900
	75	31.6	47.3	43,300	50,500
	80	23.2	36.6	39,300	45,900
	20	82.5	97.0		301,700*
	22	81.2	96.7		292,300*
	24	79.9	96.3		276,500*
	26	78.6	95.8		243,100
	28	77.3	95.3		214,700
	30	76.0	94.8		192,000
	32	74.7	94.2		173,500
	34	73.3	93.5		158,000
	36	72.0	92.8		144,900
	38	70.6	92.0		133,700
	40	69.3	91.2	104,800	123,900
	42	67.9	90.4	97,900	115,400
	44	66.5	89.4	91,700	107,900
	46	65.1	88.4	86,200	101,200
	48	63.6	87.4	81,200	95,200
90	50	62.2	86.3		76,700
	55	58.4	83.2		67,100
	60	54.5	79.6		59,400
	65	50.4	75.5		53,000
	70	46.0	70.6		47,700
	75	41.2	65.0		43,100
	80	35.9	58.2		39,100
	85	29.6	49.8		35,700
	90	21.7	38.3		32,600
100	22	82.1	106.8		279,700*
	24	80.9	106.5		271,100*
	26	79.8	106.1		243,400
	28	78.6	105.6		214,900
	30	77.4	105.1		192,200
	32	76.2	104.6		173,600
	34	75.1	104.0		158,100
	36	73.9	103.4		144,900
	38	72.7	102.7	112,700	133,700
	40	71.4	102.0	104,800	123,900
	42	70.2	101.2		97,800
	44	69.0	100.4		91,600
	46	67.7	99.5		86,000
	48	66.5	98.6		81,100
	50	65.2	97.6		76,500
	55	61.9	94.9		67,000
	60	58.6	91.8		59,200
	65	55.1	88.3		52,800
	70	51.4	84.4		47,500
	75	47.6	79.8		42,900
110	80	43.4	74.5		39,000
	85	38.9	68.4		35,500
	90	33.9	61.2		32,500
	95	28.0	52.2		29,800
	100	20.5	40.0		27,300
	22	82.8	117.0		266,400*
	24	81.8	116.6		258,000*
	26	80.7	116.3		243,400
	28	79.7	115.9		214,900
	30	78.6	115.4		192,100
	32	77.5	114.9		173,400
	34	76.5	114.4		157,900
	36	75.4	113.8		144,700
	38	74.3	113.2	121,400	133,400
	40	73.2	112.6	112,400	123,600
	42	72.1	111.9	104,400	115,100
	44	71.0	111.2		97,400
	46	69.9	110.4		91,200
	48	68.7	109.6		85,700
	50	67.6	108.7		80,700
110	55	64.7	106.3		76,100
	60	61.8	103.6		66,500
	65	58.7	100.5		58,800
	70	55.6	97.1		52,400
	75	52.3	93.2		47,000
	80	48.8	88.8		42,500
	85	45.2	83.9		38,500
	90	41.2	78.2		35,100
	95	37.0	71.7		32,100
	100	32.2	63.9		29,400
110	105	26.6	54.4		24,800
	110	19.4	41.6		22,800

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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	24	82.5	126.8		249,700*
	26	81.5	126.4		242,000*
	28	80.5	126.1		214,700
	30	79.6	125.7		191,900
	32	78.6	125.2		173,200
	34	77.6	124.7	131,600	157,600
	36	76.6	124.2	121,100	144,400
	38	75.6	123.7	112,100	133,200
	40	74.6	123.1	104,100	123,400
	42	73.6	122.4	97,100	114,800
	44	72.6	121.8	90,900	107,200
	46	71.6	121.1	85,300	100,500
	48	70.6	120.3	80,300	94,500
	50	69.6	119.5	75,800	89,100
	55	67.0	117.4	66,200	77,700
	60	64.3	115.0	58,500	68,500
	65	61.6	112.2	52,100	61,000
	70	58.8	109.2	46,700	54,800
	75	56.0	105.8	42,200	49,500
	80	53.0	102.0	38,200	44,900
130	85	49.8	97.8	34,800	41,000
	90	46.6	93.1	31,800	37,500
	95	43.1	87.8	29,100	34,400
	100	39.4	81.7	26,700	31,700
	105	35.3	74.8	24,600	29,300
	110	30.7	66.6	22,600	27,000
	115	25.4	56.6	20,800	25,000
	120	18.5	43.1	19,200	23,100
	26	82.2	136.6		234,800*
	28	81.3	136.2		214,800
	30	80.4	135.9		191,900
	32	79.5	135.4	143,900	173,200
	34	78.6	135.0	131,600	157,600
	36	77.7	134.5	121,100	144,500
	38	76.8	134.0	112,000	133,200
	40	75.9	133.5	104,100	123,300
	42	74.9	132.9	97,100	114,800
	44	74.0	132.3	90,800	107,200
	46	73.1	131.7	85,300	100,500
	48	72.2	131.0	80,300	94,500
	50	71.2	130.3	75,700	89,000
140	55	68.9	128.3	66,100	77,600
	60	66.5	126.1	58,400	68,400
	65	64.0	123.6	52,000	60,900
	70	61.5	120.9	46,600	54,700
	75	58.9	117.9	42,000	49,400
	80	56.3	114.5	38,100	44,800
	85	53.5	110.8	34,700	40,900
	90	50.7	106.7	31,700	37,400
	95	47.7	102.2	29,000	34,300
	100	44.6	97.1	26,600	31,600
	105	41.3	91.5	24,500	29,200
	110	37.7	85.1	22,500	27,000
	115	33.8	77.7	20,800	25,000
	120	29.4	69.1	19,200	23,100
	125	24.3	58.6	17,700	21,400
	130	17.7	44.5	16,300	19,900

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	82.7	146.7		228,400*
	28	81.9	146.4		214,600
	30	81.1	146.0	158,200	191,700
	32	80.2	145.7	143,600	173,000
	34	79.4	145.2	131,300	157,400
	36	78.6	144.8	120,800	144,200
	38	77.7	144.3	111,700	132,800
	40	76.9	143.8	103,700	123,000
	42	76.0	143.3	96,700	114,500
	44	75.2	142.7	90,500	106,900
	46	74.3	142.1	84,900	100,100
	48	73.5	141.5	79,900	94,100
	50	72.6	140.9	75,400	88,700
	55	70.4	139.1	65,800	77,200
	60	68.2	137.0	58,000	68,100
	65	66.0	134.8	51,600	60,600
	70	63.7	132.3	46,200	54,300
	75	61.4	129.5	41,700	49,000
	80	59.0	126.5	37,700	44,500
	85	56.5	123.2	34,300	40,500
150	90	54.0	119.6	31,300	37,100
	95	51.4	115.6	28,700	34,000
	100	48.7	111.2	26,300	31,300
	105	45.8	106.3	24,100	28,800
	110	42.8	101.0	22,200	26,600
	115	39.7	95.0	20,500	24,700
	120	36.2	88.3	18,800	22,800
	125	32.5	80.6	17,400	21,200
	130	28.3	71.6	16,000	19,600
	135	23.3	60.6	14,700	18,200
	140	17.0	45.9	13,500	16,900
	28	82.4	156.5		214,500
	30	81.7	156.2	157,900	191,500
	32	80.9	155.8	143,300	172,800
	34	80.1	155.4	131,000	157,100
	36	79.3	155.0	120,400	143,900
	38	78.6	154.6	111,300	132,600
	40	77.8	154.1	103,300	122,700
	42	77.0	153.6	96,300	114,100
	44	76.2	153.1	90,100	106,500
	46	75.4	152.6	84,500	99,800
160	48	74.6	152.0	79,500	93,700
	50	73.8	151.4	74,900	88,300
	55	71.8	149.7	65,300	76,800
	60	69.8	147.8	57,500	67,600
	65	67.7	145.8	51,100	60,100
	70	65.6	143.5	45,700	53,800
	75	63.5	141.0	41,200	48,500
	80	61.3	138.2	37,200	44,000
	85	59.1	135.2	33,800	40,000
	90	56.8	131.9	30,800	36,600
	95	54.4	128.3	28,100	33,500
	100	52.0	124.4	25,800	30,800
	105	49.5	120.1	23,600	28,400
	110	46.9	115.5	21,700	26,200
	115	44.2	110.3	19,900	24,200
	120	41.3	104.7	18,300	22,300
	125	38.2	98.4	16,900	20,700
	130	34.9	91.4	15,500	19,100
	135	31.3	83.3	14,300	17,700
	140	27.3	73.9	13,100	16,400
170	145	22.5	62.5	12,000	15,200
	150	16.4	47.3	11,000	14,000

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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	175,100	208,400*
	30	82.2	166.3	157,600	191,200
	32	81.5	166.0	142,900	172,400
	34	80.7	165.6	130,600	156,800
	36	80.0	165.2	120,100	143,600
	38	79.3	164.8	110,900	132,200
	40	78.6	164.4	102,900	122,400
	42	77.8	163.9	95,900	113,800
	44	77.1	163.5	89,700	106,200
	46	76.3	162.9	84,100	99,400
	48	75.6	162.4	79,100	93,400
	50	74.9	161.8	74,500	87,900
	55	73.0	160.3	64,900	76,400
	60	71.1	158.5	57,100	67,200
	65	69.2	156.6	50,700	59,700
	70	67.2	154.5	45,300	53,400
	75	65.3	152.2	40,800	48,100
	80	63.3	149.6	36,800	43,600
	85	61.2	146.9	33,400	39,600
	90	59.1	143.9	30,400	36,200
	95	57.0	140.6	27,700	33,100
	100	54.8	137.1	25,300	30,400
	105	52.5	133.2	23,200	27,900
	110	50.2	129.1	21,300	25,800
	115	47.8	124.5	19,500	23,800
170	120	45.3	119.6	17,900	21,900
	125	42.7	114.2	16,500	20,300
	130	39.9	108.3	15,100	18,800
	135	36.9	101.7	13,900	17,400
	140	33.7	94.3	12,700	16,100
	145	30.3	85.9	11,700	14,800
	150	26.3	76.2	10,600	13,700
	155	21.7	64.3	9,700	12,600
	160	15.8	48.6	8,800	11,600
	30	82.7	176.4	157,300	191,100
	32	82.0	176.1	142,700	172,300
	34	81.3	175.8	130,400	156,600
	36	80.6	175.4	119,800	143,400
	38	79.9	175.0	110,700	132,000
	40	79.2	174.6	102,700	122,100
	42	78.5	174.2	95,700	113,500
	44	77.9	173.7	89,400	105,900
	46	77.2	173.3	83,800	99,200
	48	76.5	172.7	78,800	93,100
	50	75.8	172.2	74,300	87,700
	55	74.0	170.8	64,600	76,200
	60	72.3	169.1	56,800	67,000
	65	70.5	167.3	50,400	59,500
	70	68.7	165.4	45,000	53,200
	75	66.8	163.2	40,500	47,900
	80	65.0	160.9	36,500	43,300
	85	63.1	158.3	33,100	39,300
	90	61.1	155.5	30,100	35,900
	95	59.2	152.5	27,400	32,800
	100	57.2	149.3	25,100	30,100
	105	55.1	145.8	22,900	27,700
	110	53.0	142.0	21,000	25,500
	115	50.8	137.9	19,300	23,500
	120	48.6	133.5	17,700	21,700
	125	46.3	128.8	16,200	20,000
	130	43.8	123.6	14,900	18,500
	135	41.3	117.9	13,600	17,100
	140	38.6	111.7	12,500	15,800
	145	35.8	104.9	11,400	14,600
	150	32.7	97.2	10,400	13,500
	155	29.3	88.5	9,500	12,400
	160	25.5	78.4	8,600	11,400
	165	21.0	66.1	7,800	10,500
	170	15.3	49.8	7,000	9,600

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	142,400	171,900
	34	81.8	185.9	130,000	156,300
	36	81.1	185.6	119,400	143,000
	38	80.5	185.2	110,300	131,600
	40	79.8	184.8	102,300	121,800
	42	79.2	184.4	95,300	113,200
	44	78.5	184.0	89,000	105,500
	46	77.9	183.5	83,400	98,800
	48	77.2	183.1	78,400	92,700
	50	76.6	182.6	73,900	87,300
	55	74.9	181.2	64,200	75,800
	60	73.3	179.7	56,400	66,600
	65	71.6	178.0	50,000	59,000
	70	69.9	176.1	44,600	52,800
	75	68.2	174.1	40,000	47,400
	80	66.4	171.9	36,100	42,900
	85	64.7	169.5	32,700	38,900
	90	62.9	167.0	29,700	35,500
	95	61.1	164.2	27,000	32,400
	100	59.2	161.2	24,600	29,700
	105	57.3	158.0	22,500	27,300
	110	55.4	154.5	20,600	25,100
	115	53.4	150.8	18,800	23,100
	120	51.4	146.8	17,200	21,300
	125	49.3	142.5	15,800	19,600
	130	47.1	137.9	14,400	18,100
	135	44.9	132.9	13,200	16,700
	140	42.5	127.4	12,100	15,400
	145	40.1	121.5	11,000	14,200
	150	37.5	115.1	10,000	13,100
190	155	34.7	107.9	9,100	12,000
	160	31.7	100.0	8,200	11,100
	165	28.4	91.0	7,400	10,100
	170	24.7	80.5	6,600	9,300
	175	20.4	67.8	5,900	8,400
	32	82.8	196.3	142,100	171,800
	34	82.2	196.0	129,700	156,100
	36	81.6	195.7	119,100	142,800
	38	81.0	195.4	110,000	131,400
	40	80.4	195.0	102,000	121,500
	42	79.8	194.6	94,900	112,800
	44	79.2	194.2	88,600	105,200
	46	78.5	193.8	83,000	98,400
	48	77.9	193.3	78,000	92,400
	50	77.3	192.9	73,400	86,900
	55	75.7	191.6	63,800	75,400
	60	74.2	190.1	56,000	66,200
	65	72.6	188.6	49,500	58,600
	70	71.0	186.8	44,100	52,300
	75	69.4	184.9	39,600	47,000
	80	67.8	182.9	35,600	42,400
	85	66.1	180.6	32,200	38,400
	90	64.4	178.2	29,200	35,000
	95	62.7	175.6	26,500	31,900
	100	61.0	172.8	24,100	29,200
	105	59.3	169.9	22,000	26,700
	110	57.5	166.7	20,000	24,600
	115	55.7	163.2	18,300	22,600
	120	53.8	159.6	16,700	20,700
	125	51.9	155.6	15,200	19,100
	130	49.9	151.4	13,900	17,600
	135	47.9	146.9	12,700	16,200
	140	45.8	142.0	11,500	14,900
	145	43.6	136.8	10,500	13,700
	150	41.3	131.2	9,500	12,600
	155	38.9	125.0	8,500	11,500
	160	36.4	118.3	7,700	10,500
	165	33.7	110.9	6,900	9,600
	170	30.8	102.7	6,100	8,800
	175	27.6	93.4	5,400	7,900
	180	24.0	82.6	4,700	7,200
	185	19.8	69.5	4,000	6,400

MANITOWOC ENGINEERING CO.

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



LIFTCRANE BOOM CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

888 SERIES 1

NEW YORK CITY CODE

BOOM NO. 22E WITH OPEN THROAT TOP

OFFSET 4-1/2 DEGREES

144,100 LB. 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	129,300	155,700
	36	82.0	205.8	118,700	142,400
	38	81.5	205.5	109,500	131,000
	40	80.9	205.2	101,500	121,100
	42	80.3	204.8	94,500	112,400
	44	79.7	204.4	88,200	104,800
	46	79.1	204.0	82,600	98,000
	48	78.5	203.6	77,600	92,000
	50	77.9	203.1	73,000	86,500
	55	76.5	201.9	63,300	74,900
	60	75.0	200.6	55,500	65,700
	65	73.5	199.1	49,100	58,200
	70	72.0	197.4	43,700	51,900
	75	70.5	195.6	39,100	46,500
	80	68.9	193.7	35,100	42,000
	85	67.4	191.6	31,700	38,000
	90	65.8	189.3	28,700	34,500
	95	64.2	186.9	26,000	31,500
	100	62.6	184.3	23,600	28,700
	105	61.0	181.5	21,500	26,300
210	110	59.3	178.5	19,600	24,100
	115	57.6	175.3	17,800	22,100
	120	55.9	171.9	16,200	20,300
	125	54.1	168.3	14,800	18,600
	130	52.3	164.4	13,500	17,100
	135	50.4	160.3	12,200	15,700
	140	48.5	155.9	11,100	14,400
	145	46.6	151.2	10,000	13,200
	150	44.5	146.1	9,000	12,100
	155	42.4	140.6	8,100	11,100
	160	40.2	134.8	7,200	10,100
	165	37.9	128.4	6,400	9,200
	170	35.4	121.4	5,700	8,300
	175	32.8	113.8	4,900	7,500
	180	30.0	105.3	4,300	6,800
	185	26.9	95.7	3,800	6,000
	190	23.4	84.6	3,300	5,300
	195	19.3	71.1	2,900	4,700
220	36	82.4	216.0	118,400	142,100
	38	81.9	215.7	109,200	130,700
	40	81.3	215.3	101,200	120,800
	42	80.8	215.0	94,100	112,200
	44	80.2	214.6	87,900	104,500
	46	79.6	214.2	82,300	97,700
	48	79.1	213.8	77,200	91,600
	50	78.5	213.4	72,700	86,200
	55	77.1	212.2	63,000	74,600
	60	75.7	210.9	55,200	65,400
	65	74.3	209.5	48,700	57,800
	70	72.9	208.0	43,300	51,500
	75	71.4	206.3	38,800	46,200
	80	70.0	204.4	34,800	41,600
	85	68.5	202.4	31,400	37,700
	90	67.0	200.3	28,400	34,200
	95	65.5	198.0	25,700	31,100
	100	64.0	195.6	23,300	28,400
210	105	62.5	192.9	21,200	26,000
	110	60.9	190.2	19,200	23,800
	115	59.3	187.2	17,500	21,800
	120	57.7	184.0	15,900	20,000
	125	56.1	180.6	14,400	18,300
	130	54.4	177.1	13,100	16,800
	135	52.7	173.2	11,900	15,400
	140	50.9	169.2	10,700	14,100
	145	49.1	164.9	9,700	12,900
	150	47.3	160.2	8,700	11,800
	155	45.4	155.3	7,800	10,700
	160	43.4	150.0	6,900	9,800
	165	41.3	144.4	6,100	8,900
	170	39.2	138.3	5,300	8,000
	175	36.9	131.7	4,600	7,200
	180	34.5	124.5	4,000	6,400
	185	32.0	116.6	3,500	5,700
	190	29.2	107.8	3,000	5,000
	195	26.2	98.0	2,600	4,400
220	36	82.8	226.1	118,000	141,700
	38	82.2	225.8	108,800	130,300
	40	81.7	225.5	100,800	120,400
	42	81.2	225.1	93,700	111,800
	44	80.7	224.8	87,400	104,100
	46	80.1	224.4	81,800	97,300
	48	79.6	224.0	76,800	91,200
	50	79.1	223.6	72,200	85,800
	55	77.7	222.5	62,500	74,200
	60	76.4	221.3	54,700	65,000
	65	75.0	219.9	48,300	57,400
	70	73.7	218.4	42,900	51,100
	75	72.3	216.8	38,300	45,800
	80	70.9	215.1	34,300	41,200
	85	69.5	213.2	30,900	37,200
	90	68.1	211.2	27,900	33,700
	95	66.7	209.0	25,200	30,700
	100	65.3	206.7	22,800	27,900
	105	63.8	204.2	20,700	25,500
	110	62.4	201.6	18,800	23,300
220	115	60.9	198.8	17,000	21,300
	120	59.4	195.8	15,400	19,500
	125	57.8	192.7	14,000	17,800
	130	56.3	189.3	12,600	16,300
	135	54.7	185.8	11,400	14,900
	140	53.0	182.0	10,300	13,600
	145	51.4	178.0	9,200	12,400
	150	49.7	173.8	8,200	11,300
	155	47.9	169.3	7,300	10,300
	160	46.1	164.5	6,400	9,300
	165	44.2	159.3	5,600	8,400
	170	42.3	153.9	4,900	7,600
	175	40.3	148.0	4,200	6,800
	180	38.2	141.7	3,600	6,000
	185	36.0	134.9	3,100	5,300
	190	33.7	127.5	2,700	4,600
	195	31.2	119.4	2,300	4,000

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NEW YORK CITY CODE

BOOM NO. 22E WITH OPEN THROAT TOP

OFFSET 4-1/2 DEGREES

144,100 LB. 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	108,500	128,900*
	40	82.1	235.6	100,500	120,100
	42	81.6	235.3	93,400	111,500
	44	81.1	234.9	87,100	103,800
	46	80.6	234.6	81,500	97,000
	48	80.1	234.2	76,400	90,900
	50	79.5	233.8	71,800	85,400
	55	78.3	232.8	62,100	73,800
	60	77.0	231.6	54,300	64,600
	65	75.7	230.3	47,800	57,000
	70	74.4	228.9	42,400	50,600
	75	73.1	227.4	37,800	45,300
	80	71.8	225.7	33,900	40,700
	85	70.5	223.9	30,400	36,700
	90	69.1	222.0	27,400	33,200
	95	67.8	219.9	24,700	30,200
	100	66.4	217.7	22,300	27,400
	105	65.1	215.4	20,200	25,000
	110	63.7	212.9	18,300	22,800
	115	62.3	210.3	16,500	20,800
240	120	60.8	207.5	14,900	19,000
	125	59.4	204.5	13,400	17,300
	130	57.9	201.4	12,100	15,800
	135	56.4	198.0	10,900	14,400
	140	54.9	194.5	9,700	13,100
	145	53.4	190.8	8,700	11,900
	150	51.8	186.9	7,700	10,800
	155	50.2	182.7	6,800	9,800
	160	48.5	178.3	5,900	8,800
	165	46.8	173.6	5,100	7,900
	170	45.0	168.6	4,300	7,000
	175	43.2	163.3		6,200
	180	41.3	157.6		5,500
	185	39.4	151.6		4,800
	190	37.3	145.0		4,100
	40	82.4	245.7	100,100	116,200*
	42	81.9	245.4	93,000	111,100
	44	81.4	245.1	86,700	103,500
	46	81.0	244.7	81,100	96,700
	48	80.5	244.4	76,000	90,600
	50	80.0	244.0	71,500	85,100
	55	78.8	243.0	61,700	73,500
	60	77.5	241.9	53,900	64,200
	65	76.3	240.6	47,400	56,600
	70	75.1	239.3	42,000	50,300
	75	73.8	237.8	37,400	44,900
	80	72.6	236.2	33,400	40,300
	85	71.3	234.5	30,000	36,300
	90	70.1	232.7	27,000	32,800
	95	68.8	230.8	24,300	29,800
	100	67.5	228.7	21,900	27,000
	105	66.2	226.5	19,800	24,600
	110	64.9	224.1	17,800	22,400
	115	63.5	221.6	16,100	20,400
	120	62.2	218.9	14,500	18,600
	125	60.8	216.1	13,000	16,900
	130	59.4	213.2	11,700	15,400
	135	58.0	210.0	10,500	14,000
	140	56.6	206.7	9,300	12,700
	145	55.1	203.2	8,200	11,500
	150	53.6	199.6	7,300	10,400
	155	52.1	195.7	6,300	9,300
	160	50.6	191.6	5,500	8,400
	165	49.0	187.2	4,700	7,500
	170	47.4	182.6		6,600
	175	45.7	177.7		5,800
	180	44.0	172.6		5,100
	185	42.2	167.1		4,300

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY CRAWLERS RETRACTED POUNDS	BOOM CAPACITY CRAWLERS EXTENDED POUNDS
250	40	82.7	255.8	99,800	105,800*
	42	82.2	255.5	92,700	105,500*
	44	81.8	255.2	86,400	103,100
	46	81.3	254.9	80,700	96,300
	48	80.9	254.5	75,700	90,200
	50	80.4	254.2	71,100	84,700
	55	79.2	253.2	61,400	73,100
	60	78.1	252.1	53,500	63,800
	65	76.9	251.0	47,000	56,200
	70	75.7	249.7	41,600	49,900
	75	74.5	248.3	37,000	44,500
	80	73.3	246.8	33,100	39,900
	85	72.1	245.1	29,600	36,000
	90	70.9	243.4	26,600	32,500
	95	69.7	241.5	23,900	29,400
	100	68.4	239.5	21,500	26,700
	105	67.2	237.4	19,400	24,200
	110	65.9	235.2	17,400	22,000
	115	64.7	232.8	15,700	20,000
	120	63.4	230.3	14,100	18,200
260	125	62.1	227.6	12,600	16,500
	130	60.8	224.8	11,300	15,000
	135	59.4	221.8	10,100	13,600
	140	58.1	218.7	8,900	12,300
	145	56.7	215.4	7,900	11,100
	150	55.3	212.0	6,900	10,000
	155	53.9	208.3	6,000	9,000
	160	52.5	204.5	5,100	8,000
	165	51.0	200.4	4,300	7,100
	170	49.5	196.1		6,200
	175	47.9	191.6		5,400
	180	46.4	186.9		4,700
	185	44.7	181.8		4,000
	42	82.5	265.6	81,000	96,300*
	44	82.1	265.3	75,000	91,000
	46	81.7	265.0	69,600	84,400
	48	81.2	264.7	64,700	78,600
	50	80.8	264.3	60,300	73,300
	55	79.6	263.4	51,000	62,200
	60	78.5	262.4	43,400	53,300
	65	77.4	261.2	37,200	46,000
	70	76.3	260.0	32,000	39,900
	75	75.1	258.7	27,600	34,800
	80	74.0	257.2	23,800	30,400
	85	72.8	255.7	20,500	26,500
	90	71.7	254.0	17,600	23,200
	95	70.5	252.2	15,000	20,200
	100	69.3	250.3	12,700	17,600
	105	68.1	248.3	10,700	15,300
	110	66.9	246.1	8,800	13,200
	115	65.7	243.9	7,100	11,200
	120	64.5	241.5	5,600	9,500
	125	63.3	238.9	4,200	7,900
	130	62.0	236.3		6,400
	135	60.7	233.5		5,100