

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 144,100 LB. COUNTERWEIGHT 360 DEGREE RATING

CAPACITIES FOR VARIOUS BOOM LENGTHS AND OPERATING RADIUS 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 RADIUS 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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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	EXTENDED POUNDS
70	15	81.8	77.4		434,000*
	16	81.0	77.2		408,900*
	17	80.1	77.0		386,500*
	18	79.3	76.9		366,300*
	19	78.5	76.7		348,000*
	20	77.6	76.4		331,500*
	22	75.9	76.0		302,400*
	24	74.3	75.4		277,900*
	26	72.5	74.8		242,700
	28	70.8	74.2		214,500
	30	69.1	73.5		191,900
	32	67.3	72.7		173,400
	34	65.5	71.8		158,000
	36	63.7	70.8		145,000
38	61.9	69.8		133,800	
40	60.0	68.7		124,200	
42	58.1	67.5		115,700	
44	56.1	66.2	92,100	108,200	
46	54.1	64.8	86,600	101,500	
48	52.1	63.3	81,600	95,600	
50	50.0	61.7	77,100	90,200	
55	44.4	57.1	67,600	78,800	
60	38.2	51.4	59,900	69,700	
65	31.0	44.1	53,400	62,200	
70	21.8	34.0	48,000	55,900	
80	17	81.4	87.2		385,800*
	18	80.6	87.0		365,600*
	19	79.9	86.8		347,400*
	20	79.2	86.7		330,800*
	22	77.7	86.2		301,800*
	24	76.3	85.8		277,300*
	26	74.8	85.3		243,000
	28	73.3	84.7		214,700
	30	71.8	84.1		192,000
	32	70.3	83.4		173,500
	34	68.7	82.6		158,100
	36	67.2	81.8		145,000
	38	65.6	80.9		133,800
	40	64.1	80.0		124,100
42	62.5	79.0	98,100	115,600	
44	60.8	77.9	92,000	108,100	
46	59.2	76.8	86,400	101,400	
48	57.5	75.5	81,500	95,500	
50	55.8	74.2	77,000	90,100	
55	51.3	70.5	67,400	78,700	
60	46.6	66.2	59,700	69,600	
65	41.4	61.0	53,300	62,100	
70	35.7	54.7	47,900	55,900	
75	29.0	46.8	43,400	50,600	
80	20.4	35.9	39,300	45,900	
90	18	81.7	97.1		364,900*
	19	81.1	97.0		346,600*
	20	80.4	96.8		330,100*
	22	79.1	96.4		301,100*
	24	77.8	96.0		276,500*
	26	76.5	95.6		243,100
	28	75.2	95.1		214,700
	30	73.9	94.5		192,100
	32	72.5	93.9		173,500
	34	71.2	93.3		158,000
	36	69.9	92.6		144,900
	38	68.5	91.8		133,700
	40	67.1	91.0	104,900	124,000
	42	65.7	90.1	97,900	115,400
44	64.3	89.2	91,700	107,900	
100	19	82.0	107.1		346,200*
	20	81.4	106.9		329,600*
	22	80.2	106.6		300,600*
	24	79.0	106.2		276,100*
	26	77.9	105.8		243,400
	28	76.7	105.4		215,000
	30	75.5	104.9		192,200
	32	74.3	104.4		173,600
	34	73.1	103.8		158,100
	36	71.9	103.1		145,000
	38	70.7	102.5	112,700	133,700
	40	69.5	101.7	104,800	123,900
	42	68.3	101.0	97,800	115,400
	44	67.0	100.2	91,600	107,900
46	65.8	99.3	86,100	101,200	
48	64.5	98.4	81,100	95,200	
50	63.3	97.4	76,600	89,700	
55	60.0	94.7	67,000	78,300	
60	56.6	91.6	59,200	69,200	
65	53.1	88.1	52,800	61,700	
70	49.5	84.1	47,500	55,500	
75	45.6	79.5	42,900	50,200	
80	41.4	74.2	39,000	45,600	
85	36.9	68.1	35,500	41,600	
90	31.8	60.7	32,500	38,200	
95	25.8	51.7	29,800	35,100	
100	18.2	39.3	27,300	32,300	
110	22	81.1	116.7		299,700*
	24	80.1	116.4		275,200*
	26	79.0	116.0		243,400
	28	77.9	115.6		214,900
	30	76.9	115.2		192,100
	32	75.8	114.7		173,400
	34	74.7	114.2		157,900
	36	73.6	113.6	121,500	144,700
	38	72.5	113.0	112,400	133,400
	40	71.4	112.4	104,400	123,700
	42	70.3	111.7	97,400	115,100
	44	69.2	110.9	91,200	107,500
	46	68.1	110.1	85,700	100,800
	48	67.0	109.3	80,700	94,800
50	65.9	108.4	76,200	89,400	
55	63.0	106.0	66,600	78,000	
60	60.0	103.3	58,800	68,800	
65	56.9	100.3	52,400	61,300	
70	53.8	96.8	47,000	55,100	
75	50.5	92.9	42,500	49,800	
80	47.0	88.5	38,500	45,200	
85	43.3	83.6	35,100	41,300	
90	39.4	77.9	32,100	37,800	
95	35.1	71.3	29,400	34,700	
100	30.3	63.5	27,000	32,000	
105	24.6	53.9	24,800	29,500	
110	17.3	40.9	22,800	27,200	

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BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY CRAWLERS	
				RETRACTED POUNDS	EXTENDED POUNDS
120	22	81.9	126.9		299,100*
	24	80.9	126.6		274,500*
	26	79.9	126.2		243,200
	28	78.9	125.8		214,700
	30	78.0	125.4		191,900
	32	77.0	125.0		173,200
	34	76.0	124.5	131,700	157,600
	36	75.0	124.0	121,200	144,500
	38	74.0	123.4	112,100	133,200
	40	73.0	122.9	104,100	123,400
	42	72.0	122.2	97,100	114,800
	44	71.0	121.6	90,900	107,300
	46	70.0	120.8	85,400	100,500
	48	69.0	120.1	80,400	94,500
	50	68.0	119.3	75,800	89,100
	55	65.4	117.2	66,200	77,700
	60	62.7	114.7	58,500	68,500
	65	60.0	112.0	52,100	61,000
	70	57.2	108.9	46,700	54,800
	75	54.3	105.5	42,200	49,500
80	51.3	101.7	38,200	44,900	
85	48.2	97.5	34,800	41,000	
90	44.9	92.8	31,800	37,500	
95	41.4	87.4	29,100	34,400	
100	37.7	81.4	26,700	31,700	
105	33.6	74.4	24,600	29,300	
110	29.0	66.2	22,600	27,000	
115	23.6	56.0	20,800	25,000	
120	16.6	42.3	19,200	23,100	
130	24	81.6	136.7		274,200*
	26	80.7	136.4		243,400
	28	79.8	136.0		214,800
	30	78.9	135.6		192,000
	32	78.0	135.2	143,900	173,300
	34	77.1	134.8	131,600	157,700
	36	76.2	134.3	121,100	144,500
	38	75.3	133.8	112,000	133,200
	40	74.4	133.3	104,100	123,400
	42	73.5	132.7	97,100	114,800
	44	72.5	132.1	90,800	107,200
	46	71.6	131.4	85,300	100,500
	48	70.7	130.8	80,300	94,500
	50	69.7	130.0	75,800	89,000
	55	67.4	128.1	66,100	77,600
	60	65.0	125.9	58,400	68,400
	65	62.5	123.4	52,000	60,900
	70	60.0	120.7	46,600	54,700
	75	57.4	117.6	42,100	49,400
	80	54.8	114.3	38,100	44,800
85	52.0	110.5	34,700	40,900	
90	49.2	106.4	31,700	37,400	
95	46.2	101.9	29,000	34,400	
100	43.0	96.8	26,600	31,600	
105	39.7	91.1	24,500	29,200	
110	36.1	84.7	22,500	27,000	
115	32.2	77.4	20,800	25,000	
120	27.8	68.7	19,200	23,100	
125	22.6	58.1	17,700	21,500	
130	15.9	43.8	16,300	19,900	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY CRAWLERS	
				RETRACTED POUNDS	EXTENDED POUNDS
140	26	81.4	146.5		243,200
	28	80.5	146.2		214,600
	30	79.7	145.8	158,200	191,700
	32	78.9	145.4	143,600	173,000
	34	78.0	145.0	131,300	157,400
	36	77.2	144.6	120,800	144,200
	38	76.4	144.1	111,700	132,900
	40	75.5	143.6	103,700	123,100
	42	74.7	143.1	96,700	114,500
	44	73.8	142.5	90,500	106,900
	46	73.0	141.9	84,900	100,200
	48	72.1	141.3	79,900	94,100
	50	71.3	140.6	75,400	88,700
	55	69.1	138.8	65,800	77,300
	60	66.9	136.8	58,000	68,100
	65	64.6	134.6	51,600	60,600
	70	62.3	132.1	46,200	54,300
	75	60.0	129.3	41,700	49,000
	80	57.6	126.3	37,800	44,500
	85	55.2	123.0	34,300	40,500
90	52.8	119.3	31,300	37,100	
95	50.0	115.3	28,700	34,000	
100	47.3	110.9	26,300	31,300	
105	44.4	106.0	24,100	28,900	
110	41.4	100.7	22,200	26,700	
115	38.2	94.7	20,500	24,700	
120	34.8	87.9	18,900	22,800	
125	31.0	80.2	17,400	21,200	
130	26.8	71.1	16,000	19,600	
135	21.8	60.0	14,700	18,200	
140	15.4	45.2	13,500	16,900	
150	26	82.0	156.6		240,500*
	28	81.2	156.3		214,500
	30	80.4	156.0	157,900	191,600
	32	79.6	155.6	143,300	172,800
	34	78.9	155.2	131,000	157,200
	36	78.1	154.8	120,500	143,900
	38	77.3	154.4	111,300	132,600
	40	76.5	153.9	103,400	122,800
	42	75.7	153.4	96,300	114,100
	44	74.9	152.9	90,100	106,600
	46	74.1	152.4	84,500	99,800
	48	73.3	151.8	79,500	93,800
	50	72.5	151.2	75,000	88,300
	55	70.5	149.5	65,300	76,800
	60	68.5	147.6	57,500	67,700
	65	66.4	145.5	51,100	60,100
	70	64.3	143.3	45,800	53,900
	75	62.2	140.7	41,200	48,500
	80	60.0	138.0	37,300	44,000
	85	57.8	135.0	33,800	40,000
90	55.5	131.7	30,800	36,600	
95	53.1	128.1	28,100	33,500	
100	50.7	124.2	25,800	30,800	
105	48.2	119.9	23,600	28,400	
110	45.6	115.2	21,700	26,200	
115	42.8	110.0	19,900	24,200	
120	39.9	104.4	18,300	22,300	
125	36.9	98.1	16,900	20,700	
130	33.6	91.0	15,500	19,200	
135	29.9	82.9	14,300	17,700	
140	25.8	73.5	13,100	16,400	
145	21.0	61.9	12,000	15,200	

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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	175,200	214,200
	30	81.0	166.1	157,600	191,300
	32	80.3	165.8	143,000	172,500
	34	79.6	165.4	130,600	156,800
	36	78.8	165.0	120,100	143,600
	38	78.1	164.6	110,900	132,200
	40	77.4	164.2	103,000	122,400
	42	76.6	163.7	95,900	113,800
	44	75.9	163.2	89,700	106,200
	46	75.2	162.7	84,100	99,400
	48	74.4	162.2	79,100	93,400
	50	73.7	161.6	74,600	87,900
	55	71.8	160.1	64,900	76,400
	60	69.9	158.3	57,100	67,300
	65	68.0	156.4	50,700	59,700
	70	66.0	154.3	45,300	53,500
	75	64.1	151.9	40,800	48,100
	80	62.0	149.4	36,800	43,600
	85	60.0	146.6	33,400	39,600
	90	57.9	143.6	30,400	36,200
95	55.8	140.4	27,700	33,100	
100	53.6	136.8	25,400	30,400	
105	51.3	133.0	23,200	28,000	
110	49.0	128.8	21,300	25,800	
115	46.6	124.3	19,500	23,800	
120	44.0	119.3	17,900	22,000	
125	41.4	113.9	16,500	20,300	
130	38.6	107.9	15,100	18,800	
135	35.7	101.3	13,900	17,400	
140	32.5	93.9	12,700	16,100	
145	29.0	85.5	11,700	14,800	
150	25.0	75.7	10,600	13,700	
155	20.4	63.7	9,700	12,600	
170	30	81.5	176.2	157,400	191,100
	32	80.9	175.9	142,700	172,300
	34	80.2	175.6	130,400	156,600
	36	79.5	175.2	119,800	143,400
	38	78.8	174.8	110,700	132,000
	40	78.1	174.4	102,700	122,200
	42	77.4	174.0	95,700	113,500
	44	76.7	173.5	89,400	105,900
	46	76.0	173.1	83,900	99,200
	48	75.3	172.5	78,800	93,100
	50	74.7	172.0	74,300	87,700
	55	72.9	170.5	64,600	76,200
	60	71.1	168.9	56,900	67,000
	65	69.3	167.1	50,400	59,500
	70	67.5	165.2	45,100	53,200
	75	65.7	163.0	40,500	47,900
	80	63.8	160.6	36,600	43,300
	85	61.9	158.1	33,100	39,400
	90	60.0	155.3	30,100	35,900
	95	58.0	152.3	27,500	32,800
100	56.0	149.0	25,100	30,100	
105	54.0	145.5	22,900	27,700	
110	51.9	141.8	21,000	25,500	
115	49.7	137.7	19,300	23,500	
120	47.4	133.3	17,700	21,700	
125	45.1	128.5	16,200	20,000	
130	42.7	123.3	14,900	18,500	
135	40.1	117.6	13,600	17,100	
140	37.4	111.4	12,500	15,800	
145	34.6	104.5	11,400	14,600	
150	31.5	96.8	10,400	13,500	
155	28.1	88.1	9,500	12,400	
160	24.2	77.9	8,600	11,400	
165	19.7	65.5	7,800	10,500	

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	157,000	190,800
	32	81.4	186.0	142,400	172,000
	34	80.7	185.7	130,000	156,300
	36	80.1	185.4	119,500	143,000
	38	79.4	185.0	110,300	131,700
	40	78.8	184.6	102,300	121,800
	42	78.1	184.2	95,300	113,200
	44	77.5	183.8	89,000	105,600
	46	76.8	183.3	83,400	98,800
	48	76.2	182.9	78,400	92,700
	50	75.5	182.4	73,900	87,300
	55	73.9	181.0	64,200	75,800
	60	72.2	179.5	56,400	66,600
	65	70.5	177.8	50,000	59,100
	70	68.8	175.9	44,600	52,800
	75	67.1	173.9	40,100	47,500
	80	65.4	171.7	36,100	42,900
	85	63.6	169.3	32,700	38,900
	90	61.8	166.7	29,700	35,500
	95	60.0	164.0	27,000	32,400
100	58.1	161.0	24,600	29,700	
105	56.3	157.7	22,500	27,300	
110	54.3	154.3	20,600	25,100	
115	52.3	150.5	18,800	23,100	
120	50.3	146.5	17,300	21,300	
125	48.2	142.2	15,800	19,600	
130	46.0	137.6	14,500	18,100	
135	43.8	132.6	13,200	16,700	
140	41.4	127.1	12,100	15,400	
145	38.9	121.2	11,000	14,200	
150	36.3	114.7	10,000	13,100	
155	33.6	107.6	9,100	12,000	
160	30.6	99.6	8,200	11,100	
165	27.3	90.5	7,400	10,100	
170	23.6	80.0	6,600	9,300	
175	19.2	67.2	5,900	8,500	
190	32	81.8	196.1	142,100	171,800
	34	81.2	195.8	129,700	156,100
	36	80.6	195.5	119,100	142,800
	38	80.0	195.2	110,000	131,400
	40	79.4	194.8	102,000	121,500
	42	78.8	194.4	94,900	112,900
	44	78.2	194.0	88,600	105,200
	46	77.5	193.6	83,000	98,500
	48	76.9	193.1	78,000	92,400
	50	76.3	192.7	73,500	86,900
	55	74.7	191.4	63,800	75,400
	60	73.2	189.9	56,000	66,200
	65	71.6	188.3	49,500	58,600
	70	70.0	186.6	44,200	52,300
	75	68.4	184.7	39,600	47,000
	80	66.8	182.6	35,600	42,400
	85	65.1	180.4	32,200	38,500
	90	63.4	178.0	29,200	35,000
	95	61.7	175.4	26,500	31,900
	100	60.0	172.6	24,100	29,200
105	58.2	169.6	22,000	26,800	
110	56.5	166.4	20,100	24,600	
115	54.6	163.0	18,300	22,600	
120	52.8	159.3	16,700	20,800	
125	50.8	155.4	15,300	19,100	
130	48.9	151.2	13,900	17,600	
135	46.8	146.6	12,700	16,200	
140	44.7	141.8	11,500	14,900	
145	42.5	136.5	10,500	13,700	
150	40.3	130.8	9,500	12,600	
155	37.9	124.7	8,600	11,500	
160	35.3	118.0	7,700	10,600	
165	32.6	110.5	6,900	9,600	
170	29.7	102.3	6,100	8,800	
175	26.5	92.9	5,400	8,000	
180	22.9	82.1	4,700	7,200	
185	18.7	68.9	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
144,100 LB. COUNTERWEIGHT
360 DEGREE RATING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY	BOOM CAPACITY	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY	BOOM CAPACITY
				RETRACTED POUNDS	EXTENDED POUNDS					RETRACTED POUNDS	EXTENDED POUNDS
200	34	81.7	206.0	129,300	155,700	210	105	61.6	192.7	21,200	26,000
	36	81.1	205.7	118,700	142,400		110	60.0	189.9	19,200	23,800
	38	80.5	205.3	109,600	131,000		115	58.4	187.0	17,500	21,800
	40	79.9	205.0	101,500	121,100		120	56.8	183.8	15,900	20,000
	42	79.3	204.6	94,500	112,500		125	55.2	180.4	14,500	18,300
	44	78.8	204.2	88,200	104,800		130	53.5	176.8	13,100	16,800
	46	78.2	203.8	82,600	98,000		135	51.8	173.0	11,900	15,400
	48	77.6	203.4	77,600	92,000		140	50.0	168.9	10,700	14,100
	50	77.0	202.9	73,000	86,500		145	48.2	164.6	9,700	12,900
	55	75.5	201.7	63,300	75,000		150	46.3	160.0	8,700	11,800
	60	74.0	200.4	55,500	65,700		155	44.4	155.0	7,800	10,800
	65	72.5	198.9	49,100	58,200		160	42.4	149.8	6,900	9,800
	70	71.0	197.2	43,700	51,900		165	40.4	144.1	6,100	8,900
	75	69.5	195.4	39,100	46,500		170	38.2	138.0	5,300	8,000
	80	68.0	193.5	35,200	42,000		175	36.0	131.4	4,600	7,200
	85	66.4	191.4	31,700	38,000		180	33.6	124.2		6,500
	90	64.8	189.1	28,700	34,500		185	31.0	116.2		5,700
	95	63.3	186.7	26,000	31,500		190	28.2	107.4		5,000
	100	61.6	184.1	23,700	28,700		195	25.2	97.5		4,400
	105	60.0	181.3	21,500	26,300						
110	58.3	178.3	19,600	24,100	36	81.9	225.9	118,000	141,800		
115	56.6	175.1	17,800	22,100	38	81.4	225.6	108,800	130,300		
120	54.9	171.7	16,300	20,300	40	80.8	225.3	100,800	120,400		
125	53.1	168.1	14,800	18,700	42	80.3	224.9	93,700	111,800		
130	51.3	164.2	13,500	17,100	44	79.8	224.6	87,500	104,100		
135	49.5	160.1	12,200	15,700	46	79.3	224.2	81,900	97,300		
140	47.5	155.6	11,100	14,400	48	78.7	223.8	76,800	91,300		
145	45.6	150.9	10,000	13,200	50	78.2	223.4	72,200	85,800		
150	43.5	145.8	9,000	12,100	55	76.9	222.3	62,600	74,200		
155	41.4	140.4	8,100	11,100	60	75.5	221.1	54,700	65,000		
160	39.2	134.5	7,200	10,100	65	74.2	219.7	48,300	57,400		
165	36.9	128.1	6,400	9,200	70	72.8	218.2	42,900	51,100		
170	34.4	121.1	5,700	8,300	75	71.4	216.6	38,300	45,800		
175	31.8	113.4	4,900	7,500	80	70.1	214.9	34,400	41,200		
180	29.0	104.9	4,300	6,800	85	68.7	213.0	30,900	37,200		
185	25.8	95.2		6,000	90	67.3	211.0	27,900	33,700		
190	22.3	84.1		5,300	95	65.9	208.8	25,200	30,700		
195	18.2	70.5		4,700	100	64.4	206.5	22,900	28,000		
					105	63.0	204.0	20,700	25,500		
					110	61.5	201.4	18,800	23,300		
210	36	81.5	215.8	118,400	142,100	115	60.0	198.6	17,000	21,300	
	38	81.0	215.5	109,200	130,700	120	58.5	195.6	15,400	19,500	
	40	80.4	215.1	101,200	120,800	125	56.9	192.5	14,000	17,900	
	42	79.9	214.8	94,200	112,200	130	55.4	189.1	12,700	16,300	
	44	79.3	214.4	87,900	104,500	135	53.8	185.6	11,400	14,900	
	46	78.7	214.0	82,300	97,700	140	52.1	181.8	10,300	13,700	
	48	78.2	213.6	77,200	91,700	145	50.5	177.8	9,200	12,500	
	50	77.6	213.2	72,700	86,200	150	48.8	173.5	8,200	11,300	
	55	76.2	212.0	63,000	74,600	155	47.0	169.0	7,300	10,300	
	60	74.8	210.7	55,200	65,400	160	45.2	164.2	6,500	9,300	
	65	73.4	209.3	48,700	57,800	165	43.3	159.1	5,600	8,400	
	70	72.0	207.8	43,300	51,500	170	41.4	153.6	4,900	7,600	
	75	70.5	206.1	38,800	46,200	175	39.4	147.7	4,200	6,800	
	80	69.1	204.2	34,800	41,600	180	37.3	141.4		6,000	
	85	67.6	202.2	31,400	37,700	185	35.1	134.6		5,300	
	90	66.1	200.1	28,400	34,200	190	32.8	127.1		4,600	
95	64.6	197.8	25,700	31,100	195	30.3	119.0		4,000		
100	63.1	195.4	23,300	28,400							

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LIFTCRANE BOOM CAPACITIES

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NEW YORK CITY CODE
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144,100 LB. COUNTERWEIGHT
360 DEGREE RATING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY	BOOM CAPACITY
				CRAWLERS RETRACTED POUNDS	CRAWLERS EXTENDED POUNDS
230	38	81.8	235.7	108,500	130,100
	40	81.2	235.4	100,500	120,200
	42	80.7	235.1	93,400	111,500
	44	80.2	234.7	87,100	103,800
	46	79.7	234.4	81,500	97,000
	48	79.2	234.0	76,400	90,900
	50	78.7	233.6	71,800	85,400
	55	77.4	232.6	62,100	73,800
	60	76.2	231.4	54,300	64,600
	65	74.9	230.1	47,800	57,000
	70	73.6	228.7	42,400	50,700
	75	72.3	227.2	37,800	45,300
	80	71.0	225.5	33,900	40,700
	85	69.6	223.7	30,400	36,700
	90	68.3	221.8	27,400	33,300
	95	67.0	219.7	24,700	30,200
	100	65.6	217.5	22,300	27,500
	105	64.2	215.2	20,200	25,000
	110	62.8	212.7	18,300	22,800
	115	61.4	210.1	16,500	20,800
120	60.0	207.3	14,900	19,000	
125	58.6	204.3	13,500	17,300	
130	57.1	201.1	12,100	15,800	
135	55.6	197.8	10,900	14,400	
140	54.1	194.3	9,700	13,100	
145	52.5	190.6	8,700	11,900	
150	50.9	186.6	7,700	10,800	
155	49.3	182.4	6,800	9,800	
160	47.6	178.0	5,900	8,800	
165	45.9	173.3	5,100	7,900	
170	44.2	168.3	4,300	7,000	
175	42.3	163.0		6,200	
180	40.5	157.3		5,500	
185	38.5	151.2		4,800	
190	36.5	144.7		4,100	
240	40	81.6	245.5	100,100	119,900
	42	81.1	245.2	93,000	111,200
	44	80.6	244.9	86,700	103,500
	46	80.2	244.5	81,100	96,700
	48	79.7	244.2	76,100	90,600
	50	79.2	243.8	71,500	85,100
	55	78.0	242.8	61,700	73,500
	60	76.8	241.7	53,900	64,200
	65	75.5	240.4	47,400	56,600
	70	74.3	239.1	42,000	50,300
	75	73.0	237.6	37,400	44,900
	80	71.8	236.0	33,500	40,300
	85	70.5	234.3	30,000	36,300
	90	69.3	232.5	27,000	32,900
	95	68.0	230.6	24,300	29,800
	100	66.7	228.5	21,900	27,000
	105	65.4	226.2	19,800	24,600
	110	64.1	223.9	17,800	22,400
	115	62.7	221.4	16,100	20,400
	120	61.4	218.7	14,500	18,600
125	60.0	215.9	13,000	16,900	
130	58.6	212.9	11,700	15,400	
135	57.2	209.8	10,500	14,000	
140	55.8	206.5	9,300	12,700	
145	54.3	203.0	8,300	11,500	
150	52.8	199.3	7,300	10,400	
155	51.3	195.4	6,300	9,400	
160	49.8	191.3	5,500	8,400	
165	48.2	187.0	4,700	7,500	
170	46.6	182.4		6,600	
175	44.9	177.5		5,800	
180	43.2	172.3		5,100	
185	41.4	166.8		4,300	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY	BOOM CAPACITY
				CRAWLERS RETRACTED POUNDS	CRAWLERS EXTENDED POUNDS
250	40	82.0	255.6	99,800	110,900*
	42	81.5	255.3	92,700	110,500*
	44	81.0	255.0	86,400	103,200
	46	80.6	254.7	80,800	96,300
	48	80.1	254.3	75,700	90,200
	50	79.6	254.0	71,100	84,700
	55	78.5	253.0	61,400	73,100
	60	77.3	251.9	53,500	63,800
	65	76.1	250.8	47,100	56,200
	70	74.9	249.5	41,600	49,900
	75	73.7	248.1	37,000	44,500
	80	72.5	246.6	33,100	39,900
	85	71.3	244.9	29,600	36,000
	90	70.1	243.2	26,600	32,500
	95	68.9	241.3	23,900	29,400
	100	67.7	239.3	21,500	26,700
	105	66.4	237.2	19,400	24,200
	110	65.2	235.0	17,500	22,000
	115	63.9	232.6	15,700	20,000
	120	62.6	230.0	14,100	18,200
125	61.3	227.4	12,600	16,500	
130	60.0	224.6	11,300	15,000	
135	58.7	221.6	10,100	13,600	
140	57.3	218.5	8,900	12,300	
145	55.9	215.2	7,900	11,100	
150	54.5	211.7	6,900	10,000	
155	53.1	208.1	6,000	9,000	
160	51.7	204.2	5,100	8,000	
165	50.2	200.2	4,300	7,100	
170	48.7	195.9		6,200	
175	47.2	191.4		5,400	
180	45.6	186.6		4,700	
185	43.9	181.6		4,000	
260	42	81.8	265.4	81,000	98,300
	44	81.4	265.1	75,000	91,000
	46	80.9	264.8	69,600	84,400
	48	80.5	264.5	64,700	78,600
	50	80.0	264.1	60,300	73,300
	55	78.9	263.2	51,000	62,200
	60	77.8	262.2	43,500	53,300
	65	76.7	261.1	37,200	46,000
	70	75.5	259.8	32,000	39,900
	75	74.4	258.5	27,600	34,800
	80	73.2	257.0	23,800	30,400
	85	72.1	255.5	20,500	26,600
	90	70.9	253.8	17,600	23,200
	95	69.7	252.0	15,000	20,300
	100	68.6	250.1	12,700	17,600
105	67.4	248.1	10,700	15,300	
110	66.2	245.9	8,800	13,200	
115	65.0	243.7	7,100	11,300	
120	63.7	241.3	5,600	9,500	
125	62.5	238.7	4,200	7,900	
130	61.3	236.0		6,500	
135	60.0	233.2		5,100	