

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 LIGHT TAPERED 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 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. 176931 AND WIRE ROPE SPECIFICATION CHART NO. 7774-A. CRANE OPERATOR JUDGMENT MUST BE USED TO ALLOW FOR DYNAMIC LOAD EFFECTS OF SWINGING, HOISTING OR LOWERING, 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. 7772-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.

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED							
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) 310'	---	(a) 310'	---	280'	---	270'	---
300'	30'	300'	---	270'	40'	260'	30'
290'	60'	290'	50'	260'	60'	250'	50'
		280'	60'			240'	60'
LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START. (a) UPPER BOOM POINT CANNOT BE USED ON 310' BOOM.							

CONSULT JIB CHART FOR JIB CAPACITIES. UPPER BOOM POINT CANNOT BE USED WHEN JIB IS ATTACHED.

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY CRAWLERS RETRACTED POUNDS	BOOM CAPACITY CRAWLERS EXTENDED POUNDS
110	24	80.1	116.4		265,500*
	26	79.0	116.0		265,500*
	28	77.9	115.6		256,400*
	30	76.9	115.2		239,600*
	32	75.8	114.7		221,500
	34	74.7	114.2		202,300
	36	73.6	113.6		186,000
	38	72.5	113.0		172,100
	40	71.4	112.4		160,000
	42	70.3	111.7		149,400
	44	69.2	110.9		140,100
	46	68.1	110.1		131,800
	48	67.0	109.3		124,300

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY CRAWLERS RETRACTED POUNDS	BOOM CAPACITY CRAWLERS EXTENDED POUNDS
110	50	65.9	108.4		117,700
	55	63.0	106.0		103,500
	60	60.0	103.3	79,700	92,200
	65	56.9	100.3	71,800	83,000
	70	53.8	96.8	65,200	75,300
	75	50.5	92.9	59,600	68,700
	80	47.0	88.5	54,800	63,100
	85	43.3	83.6	50,600	58,300
	90	39.4	77.9	46,800	54,000
	95	35.1	71.3	43,500	50,200
	100	30.3	63.5	40,600	46,800
	105	24.6	53.9	37,900	43,800
	110	17.3	40.9	35,500	41,000

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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
120	24	80.9	126.6		265,500*
	26	79.9	126.2		265,500*
	28	78.9	125.8		255,700*
	30	78.0	125.4		238,900*
	32	77.0	125.0		221,600
	34	76.0	124.5		202,300
	36	75.0	124.0		186,000
	38	74.0	123.4		172,000
	40	73.0	122.9		159,900
	42	72.0	122.2		149,300
	44	71.0	121.6		139,900
	46	70.0	120.8		131,600
	48	69.0	120.1		124,200
	50	68.0	119.3		117,400
	55	65.4	117.2	89,000	103,300
	60	62.7	114.7	79,400	91,900
	65	60.0	112.0	71,500	82,700
	70	57.2	108.9	64,800	74,900
	75	54.3	105.5	59,200	68,400
	80	51.3	101.7	54,300	62,700
130	85	48.2	97.5	50,100	57,800
	90	44.9	92.8	46,400	53,600
	95	41.4	87.4	43,100	49,800
	100	37.7	81.4	40,200	46,400
	105	33.6	74.4	37,500	43,400
	110	29.0	66.2	35,100	40,700
	115	23.6	56.0	32,900	38,200
	120	16.6	42.3	30,900	35,900
	26	80.7	136.4		265,500*
	28	79.8	136.0		254,900*
	30	78.9	135.6		238,000*
	32	78.0	135.2		221,500
	34	77.1	134.8		202,100
	36	76.2	134.3		185,800
	38	75.3	133.8		171,800
	40	74.4	133.3		159,600
	42	73.5	132.7		149,000
	44	72.5	132.1		139,600
	46	71.6	131.4		131,300
	48	70.7	130.8		123,800
140	50	69.7	130.0	100,400	117,100
	55	67.4	128.1	88,500	102,900
	60	65.0	125.9	78,900	91,500
	65	62.5	123.4	71,000	82,200
	70	60.0	120.7	64,400	74,500
	75	57.4	117.6	58,700	67,900
	80	54.8	114.3	53,900	62,300
	85	52.0	110.5	49,700	57,400
	90	49.2	106.4	45,900	53,100
	95	46.2	101.9	42,600	49,300
	100	43.0	96.8	39,700	46,000
	105	39.7	91.1	37,100	43,000
	110	36.1	84.7	34,700	40,200
	115	32.2	77.4	32,500	37,800
	120	27.8	68.7	30,500	35,500
	125	22.6	58.1	28,700	33,400
	130	15.9	43.8	26,900	31,500

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY CRAWLERS RETRACTED POUNDS	BOOM CAPACITY CRAWLERS EXTENDED POUNDS
140	28	80.5	146.2		251,600*
	30	79.7	145.8		237,300*
	32	78.9	145.4		221,200
	34	78.0	145.0		201,900
	36	77.2	144.6		185,500
	38	76.4	144.1		171,500
	40	75.5	143.6		159,300
	42	74.7	143.1		148,700
	44	73.8	142.5		139,300
	46	73.0	141.9	111,900	130,900
	48	72.1	141.3	105,700	123,500
	50	71.3	140.6	100,100	116,800
	55	69.1	138.8	88,200	102,600
	60	66.9	136.8	78,600	91,200
	65	64.6	134.6	70,700	81,900
	70	62.3	132.1	64,000	74,100
	75	60.0	129.3	58,400	67,600
	80	57.6	126.3	53,500	61,900
	85	55.2	123.0	49,300	57,100
	90	52.6	119.3	45,600	52,800
150	95	50.0	115.3	42,300	49,000
	100	47.3	110.9	39,300	45,600
	105	44.4	106.0	36,700	42,600
	110	41.4	100.7	34,300	39,900
	115	38.2	94.7	32,200	37,400
	120	34.8	87.9	30,200	35,200
	125	31.0	80.2	28,400	33,100
	130	26.8	71.1	26,700	31,200
	135	21.8	60.0	25,100	29,500
	140	15.4	45.2	23,700	27,800
	30	80.4	156.0		227,300*
	32	79.6	155.6		221,000
	34	78.9	155.2		201,600
	36	78.1	154.8		185,200
	38	77.3	154.4		171,200
	40	76.5	153.9		159,000
	42	75.7	153.4		148,400
	44	74.9	152.9	118,400	138,900
	46	74.1	152.4	111,500	130,600
	48	73.3	151.8	105,300	123,100
	50	72.5	151.2	99,600	116,400
	55	70.5	149.5	87,700	102,100
	60	68.5	147.6	78,100	90,800
	65	66.4	145.5	70,200	81,400
	70	64.3	143.3	63,500	73,700
160	75	62.2	140.7	57,900	67,100
	80	60.0	138.0	53,000	61,500
	85	57.8	135.0	48,800	56,600
	90	55.5	131.7	45,100	52,300
	95	53.1	128.1	41,800	48,500
	100	50.7	124.2	38,800	45,100
	105	48.2	119.9	36,200	42,100
	110	45.6	115.2	33,800	39,400
	115	42.8	110.0	31,700	36,900
	120	39.9	104.4	29,700	34,700
	125	36.9	98.1	27,900	32,600
	130	33.6	91.0	26,200	30,800
	135	29.9	82.9	24,700	29,000
	140	25.8	73.5	23,200	27,400
	145	21.0	61.9	21,900	25,900

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160	30	81.0	166.1		218,700*
	32	80.3	165.8		214,500*
	34	79.6	165.4		201,300
	36	78.8	165.0		184,900
	38	78.1	164.6		170,800
	40	77.4	164.2	134,400	158,700
	42	76.6	163.7	125,700	148,000
	44	75.9	163.2	118,000	138,600
	46	75.2	162.7	111,100	130,200
	48	74.4	162.2	104,900	122,700
	50	73.7	161.6	99,200	116,000
	55	71.8	160.1	87,300	101,800
	60	69.9	158.3	77,700	90,400
	65	68.0	156.4	69,800	81,000
	70	66.0	154.3	63,100	73,300
	75	64.1	151.9	57,500	66,700
	80	62.0	149.4	52,600	61,100
	85	60.0	146.6	48,400	56,200
	90	57.9	143.6	44,600	51,900
	95	55.8	140.4	41,400	48,100
170	100	53.6	136.8	38,400	44,700
	105	51.3	133.0	35,800	41,700
	110	49.0	128.8	33,400	39,000
	115	46.6	124.3	31,200	36,600
	120	44.0	119.3	29,300	34,300
	125	41.4	113.9	27,500	32,300
	130	38.6	107.9	25,800	30,400
	135	35.7	101.3	24,300	28,600
	140	32.5	93.9	22,900	27,000
	145	29.0	85.5	21,500	25,500
	150	25.0	75.7	20,300	24,100
	155	20.4	63.7	19,100	22,800
	32	80.9	175.9		201,800*
	34	80.2	175.6		198,300*
	36	79.5	175.2		184,700
	38	78.8	174.8	144,000	170,600
	40	78.1	174.4	134,100	158,400
	42	77.4	174.0	125,400	147,800
	44	76.7	173.5	117,700	138,300
	46	76.0	173.1	110,800	130,000
	48	75.3	172.5	104,600	122,500
	50	74.7	172.0	99,000	115,700
	55	72.9	170.5	87,000	101,500
	60	71.1	168.9	77,400	90,100
	65	69.3	167.1	69,500	80,800
	70	67.5	165.2	62,800	73,000
	75	65.7	163.0	57,200	66,400
180	80	63.8	160.6	52,300	60,800
	85	61.9	158.1	48,100	55,900
	90	60.0	155.3	44,400	51,600
	95	58.0	152.3	41,100	47,800
	100	56.0	149.0	38,100	44,500
	105	54.0	145.5	35,500	41,500
	110	51.9	141.8	33,100	38,700
	115	49.7	137.7	31,000	36,300
	120	47.4	133.3	29,000	34,100
	125	45.1	128.5	27,200	32,000
	130	42.7	123.3	25,600	30,100
	135	40.1	117.6	24,000	28,400
	140	37.4	111.4	22,600	26,800
	145	34.6	104.5	21,300	25,300
	150	31.5	96.8	20,100	23,900
	155	28.1	88.1	18,900	22,600
	160	24.2	77.9	17,800	21,400
	165	19.7	65.5	16,800	20,300

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY CRAWLERS RETRACTED POUNDS	BOOM CAPACITY CRAWLERS EXTENDED POUNDS
180	34	80.7	185.7		189,800*
	36	80.1	185.4		184,400
	38	79.4	185.0	154,900	170,300
	40	78.8	184.6	143,600	158,100
	42	78.1	184.2	133,700	147,400
	44	77.5	183.8	125,000	138,000
	46	76.8	183.3	117,300	129,600
	48	76.2	182.9	110,400	122,100
	50	75.5	182.4	104,200	115,300
	55	73.9	181.0	98,600	101,100
	60	72.2	179.5	86,600	89,700
	65	70.5	177.8	77,000	80,400
	70	68.8	175.9	69,100	72,600
	75	67.1	173.9	62,400	66,000
	80	65.4	171.7	56,800	60,400
	85	63.6	169.3	51,900	55,500
	90	61.8	166.7	47,700	51,200
	95	60.0	164.0	43,900	47,400
	100	58.1	161.0	40,700	44,100
	105	56.3	157.7	37,700	41,000
190	110	54.3	154.3	35,100	38,300
	115	52.3	150.5	32,700	35,900
	120	50.3	146.5	30,600	33,600
	125	48.2	142.2	28,600	31,600
	130	46.0	137.6	26,800	29,700
	135	43.8	132.6	25,100	28,000
	140	41.4	127.1	23,600	26,400
	145	38.9	121.2	22,200	24,900
	150	36.3	114.7	20,900	23,500
	155	33.6	107.6	19,700	22,200
	160	30.6	99.6	18,500	21,000
	165	27.3	90.5	17,500	19,900
	170	23.6	80.0	16,500	18,800
	175	19.2	67.2	15,500	17,800
	36	80.6	195.5	154,600	173,300*
	38	80.0	195.2	143,300	170,000
	40	79.4	194.8	143,400	157,800
	42	78.8	194.4	133,400	147,100
	44	78.2	194.0	124,700	137,600
	46	77.5	193.6	116,900	129,200
	48	76.9	193.1	110,000	121,700
	50	76.3	192.7	103,800	115,000
	55	74.7	191.4	98,100	100,700
	60	73.2	189.9	86,200	89,300
	65	71.6	188.3	76,500	79,900
	70	70.0	186.6	68,600	72,100
	75	68.4	184.7	61,900	65,600
	80	66.8	182.6	56,300	59,900
	85	65.1	180.4	51,400	55,000
	90	63.4	178.0	47,200	50,700
	95	61.7	175.4	43,400	46,900
	100	60.0	172.6	40,100	43,500
	105	58.2	169.6	37,200	40,500
	110	56.5	166.4	34,600	37,800
	115	54.6	163.0	32,200	35,400
	120	52.8	159.3	30,000	33,100
	125	50.8	155.4	28,100	31,100
	130	48.9	151.2	26,300	29,200
	135	46.8	146.6	24,600	27,500
	140	44.7	141.8	23,100	25,900
	145	42.5	136.5	21,700	24,400
	150	40.3	130.8	20,400	23,000
	155	37.9	124.7	19,100	21,700
	160	35.3	118.0	18,000	20,500
	165	32.6	110.5	16,900	19,400
	170	29.7	102.3	15,900	18,300
	175	26.5	92.9	14,100	17,300
	180	22.9	82.1	13,200	16,400
	185	18.7	68.9	12,400	15,500

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200	38	80.5	205.3	142,900	162,600*
	40	79.9	205.0	133,000	157,400
	42	79.3	204.6	124,200	146,700
	44	78.8	204.2	116,500	137,200
	46	78.2	203.8	109,600	128,800
	48	77.6	203.4	103,300	121,300
	50	77.0	202.9	97,700	114,600
	55	75.5	201.7	85,800	100,300
	60	74.0	200.4	76,100	88,900
	65	72.5	198.9	68,100	79,500
	70	71.0	197.2	61,500	71,700
	75	69.5	195.4	55,800	65,100
	80	68.0	193.5	50,900	59,500
	85	66.4	191.4	46,700	54,600
	90	64.8	189.1	43,000	50,300
	95	63.3	186.7	39,700	46,500
	100	61.6	184.1	36,700	43,100
	105	60.0	181.3	34,100	40,100
	110	58.3	178.3	31,700	37,400
	115	56.6	175.1	29,600	34,900
210	120	54.9	171.7	27,600	32,700
	125	53.1	168.1	25,800	30,600
	130	51.3	164.2	24,200	28,800
	135	49.5	160.1	22,600	27,000
	140	47.5	155.6	21,200	25,400
	145	45.6	150.9	19,900	23,900
	150	43.5	145.8	18,700	22,600
	155	41.4	140.4	17,600	21,300
	160	39.2	134.5	16,500	20,100
	165	36.9	128.1	15,500	19,000
	170	34.4	121.1	14,600	17,900
	175	31.8	113.4	13,700	16,900
	180	29.0	104.9	12,800	16,000
	185	25.8	95.2	12,000	15,100
	190	22.3	84.1	11,300	14,200
	195	18.2	70.5	10,600	13,400
	38	81.0	215.5	142,700	154,800*
	40	80.4	215.1	132,700	152,500*
	42	79.9	214.8	124,000	146,500
	44	79.3	214.4	116,200	137,000
	46	78.7	214.0	109,300	128,600
	48	78.2	213.6	103,100	121,100
	50	77.6	213.2	97,400	114,300
	55	76.2	212.0	85,400	100,000
	60	74.8	210.7	75,800	88,600
	65	73.4	209.3	67,800	79,200
	70	72.0	207.8	61,100	71,400
	75	70.5	206.1	55,500	64,800
	80	69.1	204.2	50,600	59,100
	85	67.6	202.2	46,300	54,200
	90	66.1	200.1	42,600	49,900
	95	64.6	197.8	39,300	46,100
	100	63.1	195.4	36,400	42,700
	105	61.6	192.7	33,700	39,700
	110	60.0	189.9	31,300	37,000
	115	58.4	187.0	29,200	34,500
	120	56.8	183.8	27,200	32,300

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY CRAWLERS RETRACTED POUNDS	BOOM CAPACITY CRAWLERS EXTENDED POUNDS
210	125	55.2	180.4	25,400	30,200
	130	53.5	176.8	23,800	28,400
	135	51.8	173.0	22,200	26,600
	140	50.0	168.9	20,800	25,000
	145	48.2	164.6	19,500	23,600
	150	46.3	160.0	18,300	22,200
	155	44.4	155.0	17,200	20,900
	160	42.4	149.8	16,100	19,700
	165	40.4	144.1	15,100	18,600
	170	38.2	138.0	14,200	17,500
	175	36.0	131.4	13,300	16,500
	180	33.6	124.2	12,400	15,600
	185	31.0	116.2	11,700	14,700
	190	28.2	107.4	10,900	13,900
	195	25.2	97.5	10,200	13,100
	200	21.8	86.0	9,500	12,300
	205	17.8	72.1	8,900	11,600
	40	80.8	225.3	132,200	143,300*
	42	80.3	224.9	123,500	141,100*
	44	79.8	224.6	115,700	136,500
	46	79.3	224.2	108,800	128,100
	48	78.7	223.8	102,500	120,600
220	50	78.2	223.4	96,900	113,800
	55	76.9	222.3	84,900	99,500
	60	75.5	221.1	75,300	88,100
	65	74.2	219.7	67,300	78,700
	70	72.8	218.2	60,700	70,900
	75	71.4	216.6	55,000	64,300
	80	70.1	214.9	50,100	58,600
	85	68.7	213.0	45,900	53,700
	90	67.3	211.0	42,100	49,400
	95	65.9	208.8	38,800	45,700
	100	64.4	206.5	35,900	42,300
	105	63.0	204.0	33,300	39,300
	110	61.5	201.4	30,900	36,500
	115	60.0	198.6	28,700	34,100
	120	58.5	195.6	26,800	31,900
	125	56.9	192.5	25,000	29,800
	130	55.4	189.1	23,300	27,900
	135	53.8	185.6	21,800	26,200
	140	52.1	181.8	20,400	24,600
	145	50.5	177.8	19,100	23,100
	150	48.8	173.5	17,900	21,800
	155	47.0	169.0	16,700	20,500
	160	45.2	164.2	15,700	19,300
	165	43.3	159.1	14,700	18,200
	170	41.4	153.6	13,800	17,100
	175	39.4	147.7	12,900	16,100
	180	37.3	141.4	12,000	15,200
	185	35.1	134.6	11,300	14,300
	190	32.8	127.1	10,500	13,500
	195	30.3	119.0	9,800	12,700
	200	27.6	109.9	9,100	11,900
	205	24.6	99.7	8,500	11,200
	210	21.3	87.9	7,900	10,500
	215	17.3	73.6	7,300	9,900

MANITOWOC ENGINEERING CO.

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LIFTCRANE BOOM CAPACITIES

MEETS
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888 SERIES 2

NEW YORK CITY CODE

BOOM NO. 22E WITH LIGHT TAPERED 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	42	80.7	235.1	123,100	131,800*
	44	80.2	234.7	115,300	131,200*
	46	79.7	234.4	108,400	127,800
	48	79.2	234.0	102,200	120,200
	50	78.7	233.6	96,500	113,400
	55	77.4	232.6	84,500	99,100
	60	76.2	231.4	74,800	87,700
	65	74.9	230.1	66,900	78,300
	70	73.6	228.7	60,200	70,500
	75	72.3	227.2	54,500	63,900
	80	71.0	225.5	49,600	58,200
	85	69.6	223.7	45,400	53,300
	90	68.3	221.8	41,600	49,000
	95	67.0	219.7	38,300	45,200
	100	65.6	217.5	35,400	41,800
	105	64.2	215.2	32,700	38,800
	110	62.8	212.7	30,400	36,000
	115	61.4	210.1	28,200	33,600
	120	60.0	207.3	26,200	31,300
	125	58.6	204.3	24,400	29,300
	130	57.1	201.1	22,800	27,400
	135	55.6	197.8	21,300	25,700
	140	54.1	194.3	19,900	24,100
	145	52.5	190.6	18,500	22,600
	150	50.9	186.6	17,300	21,200
240	155	49.3	182.4	16,200	19,900
	160	47.6	178.0	15,100	18,800
	165	45.9	173.3	14,100	17,600
	170	44.2	168.3	13,200	16,600
	175	42.3	163.0	12,300	15,600
	180	40.5	157.3	11,500	14,700
	185	38.5	151.2	10,700	13,800
	190	36.5	144.7	10,000	12,900
	195	34.3	137.7	9,300	12,100
	200	32.0	130.0	8,600	11,400
	205	29.6	121.6	8,000	10,700
	210	27.0	112.4	7,400	10,000
	215	24.1	101.9	6,800	9,300
	220	20.8	89.8	6,200	8,700
	225	17.0	75.2	5,700	8,100
	44	80.6	244.9	114,900	120,100*
	46	80.2	244.5	107,900	119,700*
	48	79.7	244.2	101,700	119,200*
	50	79.2	243.8	96,100	113,000
	55	78.0	242.8	84,100	98,700
	60	76.8	241.7	74,400	87,200
	65	75.5	240.4	66,400	77,800
	70	74.3	239.1	59,700	70,000
	75	73.0	237.6	54,000	63,400
	80	71.8	236.0	49,100	57,700
	85	70.5	234.3	44,900	52,800
	90	69.3	232.5	41,200	48,500
	95	68.0	230.6	37,900	44,700
	100	66.7	228.5	34,900	41,300
	105	65.4	226.2	32,300	38,300
	110	64.1	223.9	29,900	35,600
	115	62.7	221.4	27,700	33,100
	120	61.4	218.7	25,800	30,900
	125	60.0	215.9	24,000	28,800
	130	58.6	212.9	22,300	26,900
	135	57.2	209.8	20,800	25,200
	140	55.8	206.5	19,400	23,600

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY CRAWLERS RETRACTED POUNDS	BOOM CAPACITY CRAWLERS EXTENDED POUNDS
240	145	54.3	203.0	18,100	22,100
	150	52.8	199.3	16,900	20,800
	155	51.3	195.4	15,700	19,500
	160	49.8	191.3	14,700	18,300
	165	48.2	187.0	13,700	17,200
	170	46.6	182.4	12,700	16,100
	175	44.9	177.5	11,900	15,100
	180	43.2	172.3	11,000	14,200
	185	41.4	166.8	10,200	13,300
	190	39.6	161.0	9,500	12,500
	195	37.7	154.7	8,800	11,700
	200	35.7	148.0	8,100	10,900
	205	33.6	140.7	7,500	10,200
	210	31.3	132.9	6,900	9,500
	215	29.0	124.3	6,300	8,900
	220	26.4	114.7	5,800	8,300
	225	23.6	104.0	5,200	7,700
	230	20.4	91.6	4,700	7,100
	235	16.6	76.6	4,200	6,600
	44	81.0	255.0	109,300*	109,300*
	46	80.6	254.7	107,700	108,900*
	48	80.1	254.3	101,500	108,500*
	50	79.6	254.0	95,800	108,100*
	55	78.5	253.0	83,800	98,400
	60	77.3	251.9	74,100	87,000
	65	76.1	250.8	66,100	77,600
	70	74.9	249.5	59,400	69,700
	75	73.7	248.1	53,700	63,100
	80	72.5	246.6	48,900	57,400
	85	71.3	244.9	44,600	52,500
	90	70.1	243.2	40,900	48,200
	95	68.9	241.3	37,600	44,400
	100	67.7	239.3	34,600	41,000
	105	66.4	237.2	32,000	38,000
250	110	65.2	235.0	29,600	35,300
	115	63.9	232.6	27,400	32,800
	120	62.6	230.0	25,500	30,600
	125	61.3	227.4	23,700	28,500
	130	60.0	224.6	22,000	26,600
	135	58.7	221.6	20,500	24,900
	140	57.3	218.5	19,100	23,300
	145	55.9	215.2	17,800	21,800
	150	54.5	211.7	16,500	20,500
	155	53.1	208.1	15,400	19,200
	160	51.7	204.2	14,400	18,000
	165	50.2	200.2	13,400	16,900
	170	48.7	195.9	12,400	15,800
	175	47.2	191.4	11,600	14,800
	180	45.6	186.6	10,700	13,900
	185	43.9	181.6	9,900	13,000
	190	42.3	176.2	9,200	12,200
	195	40.5	170.5	8,500	11,400
	200	38.7	164.5	7,800	10,600
	205	36.9	158.1	7,200	9,900
	210	34.9	151.2	6,600	9,300
	215	32.9	143.7	6,000	8,600
	220	30.7	135.6	5,500	8,000
	225	28.4	126.8	4,900	7,400
	230	25.8	117.0	4,400	6,800
	235	23.1	106.0	4,000	6,300
	240	19.9	93.4		5,800
	245	16.3	78.1		5,300

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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	46	80.9	264.8	96,500	100,000*
	48	80.5	264.5	90,600	99,600*
	50	80.0	264.1	85,100	99,200*
	55	78.9	263.2	73,600	87,600
	60	77.8	262.2	64,300	76,600
	65	76.7	261.1	56,700	67,600
	70	75.5	259.8	50,300	60,100
	75	74.4	258.5	44,800	53,800
	80	73.2	257.0	40,100	48,300
	85	72.1	255.5	36,100	43,600
	90	70.9	253.8	32,500	39,500
	95	69.7	252.0	29,300	35,800
	100	68.6	250.1	26,500	32,600
	105	67.4	248.1	24,000	29,700
	110	66.2	245.9	21,700	27,100
	115	65.0	243.7	19,600	24,700
	120	63.7	241.3	17,700	22,600
	125	62.5	238.7	16,000	20,600
	130	61.3	236.0	14,400	18,800
	135	60.0	233.2	12,900	17,200
290	140	58.7	230.3	11,600	15,600
	145	57.4	227.2	10,300	14,200
	150	56.1	223.9	9,200	12,900
	155	54.8	220.4	8,100	11,700
	160	53.4	216.8	7,100	10,500
	165	52.0	213.0	6,100	9,400
	170	50.6	209.0	5,200	8,400
	175	49.2	204.8	4,400	7,500
	180	47.7	200.4	3,600	6,600
	185	46.2	195.7	2,800	5,800
	190	44.6	190.8	2,000	5,000
	195	43.0	185.6	1,200	4,200
270	48	80.8	274.6	90,000	91,300*
	50	80.4	274.3	84,600	90,900*
	55	79.3	273.4	73,000	87,000
	60	78.2	272.4	63,700	76,000
	65	77.2	271.3	56,100	67,000
	70	76.1	270.1	49,600	59,500
	75	75.0	268.8	44,200	53,100
	80	73.9	267.4	39,500	47,700
	85	72.8	265.9	35,400	43,000
	90	71.7	264.3	31,800	38,800
	95	70.5	262.6	28,600	35,200
	100	69.4	260.8	25,800	31,900
	105	68.3	258.9	23,200	29,000
	110	67.1	256.8	21,000	26,400
	115	66.0	254.6	18,900	24,000
	120	64.8	252.4	17,000	21,900
	125	63.6	249.9	15,300	19,900
	130	62.4	247.4	13,700	18,100
	135	61.2	244.7	12,200	16,400
	140	60.0	241.9	10,900	14,900
300	145	58.8	238.9	9,600	13,500
	150	57.5	235.8	8,400	12,200
	155	56.3	232.6	7,300	10,900
	160	55.0	229.1	6,300	9,800
	165	53.7	225.6	5,400	8,700
	170	52.3	221.8	4,500	7,700
	175	51.0	217.8	3,600	6,800
	180	49.6	213.7	2,800	5,900
	185	48.2	209.3	2,000	5,000
	190	46.7	204.7	1,200	4,200
280	50	80.8	284.4	82,800*	82,800*
	55	79.7	283.6	72,400	81,900*
	60	78.7	282.6	63,100	75,400
	65	77.6	281.6	55,400	66,400
	70	76.6	280.4	49,000	58,900
	75	75.5	279.2	43,500	52,500
	80	74.5	277.8	38,800	47,000
	85	73.4	276.4	34,700	42,300
	90	72.3	274.9	31,100	38,200
	95	71.2	273.3	28,000	34,600
290	100	70.1	271.6	25,300	31,500
	105	69.0	269.9	22,900	28,600
	110	67.9	268.1	20,700	26,000
	115	66.8	266.2	18,700	23,600
	120	65.7	264.2	16,900	21,400
	125	64.6	262.1	15,300	19,400
	130	63.5	259.9	13,900	17,600
	135	62.4	257.6	12,600	16,000
	140	61.3	255.2	11,500	14,500
	145	60.2	252.8	10,500	13,200
300	150	59.1	250.3	9,600	12,000
	155	58.0	247.7	8,800	10,900
	160	56.9	245.0	8,100	10,000
	165	55.8	242.2	7,500	9,200
	170	54.7	239.3	6,900	8,500
	175	53.6	236.3	6,400	7,900
	180	52.5	233.2	5,900	7,400
	185	51.4	230.0	5,400	6,900
	190	50.3	226.7	4,900	6,400
	195	49.2	223.3	4,400	6,000
300	200	48.1	220.0	3,900	5,600
	205	47.0	216.6	3,400	5,200
	210	45.9	213.1	2,900	4,800
	215	44.8	209.6	2,400	4,400
	220	43.7	206.0	1,900	4,000
	225	42.6	202.4	1,400	3,600
	230	41.5	198.7	900	3,200
	235	40.4	195.0	600	2,800
	240	39.3	191.2	300	2,400
	245	38.2	187.4	0	2,000

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3 1 0	55	80.7	314.0	63,600*	63,600*
	60	79.8	313.2	61,300	62,300*
	65	78.8	312.2	53,600	60,300*
	70	77.9	311.2	47,200	57,100
	75	76.9	310.1	41,700	50,700
	80	76.0	308.9	37,000	45,200
	85	75.0	307.6	32,800	40,500
	90	74.1	306.2	29,200	36,300
	95	73.1	304.7	26,100	32,600
	100	72.2	303.2	23,200	29,400
	105	71.2	301.5	20,700	26,500
	110	70.2	299.7	18,400	23,800
	115	69.2	297.9	16,300	21,500
	120	68.2	295.9	14,400	19,300
	125	67.2	293.9	12,700	17,300
	130	66.2	291.8	11,100	15,500
	135	65.2	289.5	9,600	13,900
	140	64.2	287.1	8,200	12,300
	145	63.2	284.7	7,000	10,900
	150	62.1	282.1	5,800	9,600
	155	61.1	279.4	4,700	8,300
	160	60.0	276.5		7,200
	165	58.9	273.6		6,100
	170	57.8	270.5		5,100
	175	56.7	267.3		4,100