

MANITOWOC ENGINEERING CO.

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



LIFTCRANE BOOM CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

M-250 SERIES 2

NEW YORK CITY CODE

BOOM NO. 44 WITH HEAVY LIFT TOP

207,000 LB. CRANE COUNTERWEIGHT

60,000 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 (*).

UPPER BOOM POINT CAPACITY FOR LIFTCRANE SERVICE WITH SINGLE PART WHIP LINE IS 30,000 LBS. OR 60,000 LBS. WITH TWO PART WHIP LINE. IN ALL CASES, UPPER BOOM POINT CAPACITIES CANNOT EXCEED THOSE LISTED FOR MAIN BOOM CAPACITY.

260' THRU 300' BOOM LENGTHS REQUIRE ONLY THE MIDDLE 3 SHEAVES TO BE USED ON LOWER BOOM POINT. ALL OTHER SHEAVES MUST BE REMOVED FROM LOWER BOOM POINT.

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 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. 172610, WIRE ROPE SPECIFICATION CHART NO. 7581-C AND COUNTERWEIGHT ARRANGEMENT CHART NO. 7692-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.

MACHINE MAY BE OPERATED WITHIN WIND LIMITS SHOWN IN TABLE PROVIDED CRANE OPERATOR JUDGMENT IS USED TO ALLOW FOR WIND EFFECT ON LIFTED LOAD AND OTHER CONSIDERATIONS NOTED ON CAPACITY CHART ARE FOLLOWED. WIND WILL HAVE A CONSIDERABLE EFFECT ON A LOAD WITH A LARGE 'SAIL AREA' AND MUST BE COMPENSATED FOR ACCORDINGLY BY REDUCING LOAD RATINGS, REDUCING OPERATING SPEEDS OR BY A COMBINATION OF BOTH. RECOMMEND STOPPING OPERATION AND LOWERING BOOM AND JIB TO APPROXIMATELY 70 DEGREE BOOM ANGLE WHEN WIND EXCEEDS THOSE SHOWN IN TABLE TO PREVENT JIB BEING BLOWN OVER BACKWARDS. LOWER BOOM AND JIB TO GROUND WHEN WIND IS ABOVE 50 MPH.

MACHINE TO TRAVEL ON A FIRM, LEVEL AND UNIFORMLY SUPPORTING SURFACE AND BOOM WITHIN BOOM ANGLE RANGE SHOWN IN CAPACITY CHART.

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 30'9" CRAWLERS, 48" TREADS, 28' RETRACTABLE GANTRY, 12 PART BOOM HOIST REEVING, FOUR 1-1/2" BOOM PENDANTS, 207,000 LB. CRANE COUNTERWEIGHT, AND TWO 30,000 LB. CARBODY COUNTERWEIGHTS.

WIND LIMITS DURING OPERATION		
MAXIMUM WIND VELOCITY MPH	BOOM LENGTH FEET	JIB LENGTH FEET
30	70 - 200	---
25	210 - 240	---
20	250 - 300	---
25	130 - 210	40 - 80
20	220 - 250	40 - 80
15	260	40 - 80
25	130 - 200	100 - 120
20	210 - 250	100 - 120

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED OVER FRONT SIDE OR REAR OF CRAWLERS		DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED	
BOOM LGTH.	JIB NO. 132	JIB LGTH.	JIB NO. 132
300'	---	40'	6,400 LBS.
290'	---	60'	8,200 LBS.
280'	---	80'	10,300 LBS.
270'	---	100'	12,800 LBS.
260'	80'	120'	15,300 LBS.
250'	120'		
LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START.			

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 POUNDS
70	18	82.9	77.1	600,000*
	19	82.1	76.9	547,900*
	20	81.3	76.8	545,600*
	21	80.4	76.5	543,400*
	22	79.6	76.3	525,800*
	23	78.8	76.1	504,300*
	24	77.9	75.8	484,400*
	25	77.1	75.6	465,900*
	26	76.2	75.3	448,800*
	27	75.4	75.0	432,900*
	28	74.5	74.7	418,000*
	29	73.7	74.4	404,100*
	30	72.8	74.0	391,000*
	32	71.0	73.3	356,300

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
70	34	69.3	72.4	323,500
	36	67.5	71.6	296,100
	38	65.7	70.6	272,700
	40	63.8	69.5	252,700
	42	61.9	68.4	235,200
	44	60.0	67.2	219,900
	46	58.1	65.9	206,400
	48	56.1	64.5	194,300
	50	54.0	62.9	183,500
	55	48.6	58.6	160,700
	60	42.6	53.2	142,700
	65	35.8	46.6	128,000
	70	27.4	37.6	110,200*

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360 DEGREE RATING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
80	20	82.4	86.9	526,400*
	21	81.7	86.7	523,600*
	22	80.9	86.5	521,000*
	23	80.2	86.3	503,300*
	24	79.5	86.1	483,400*
	25	78.7	85.9	465,000*
	26	78.0	85.6	447,900*
	27	77.3	85.4	432,000*
	28	76.5	85.1	417,100*
	29	75.8	84.8	403,200*
	30	75.0	84.5	390,200*
	32	73.5	83.9	356,100
	34	72.0	83.2	323,300
	36	70.5	82.4	295,800
	38	68.9	81.6	272,500
	40	67.3	80.7	252,400
	42	65.8	79.8	234,900
	44	64.2	78.7	219,600
	46	62.5	77.6	206,000
	48	60.9	76.5	194,000
90	50	59.2	75.2	183,100
	55	54.8	71.7	160,400
	60	50.2	67.6	142,300
	65	45.1	62.7	127,600
	70	39.6	56.8	115,400
	75	33.3	49.4	105,100
	80	25.4	39.7	92,700*
	21	82.6	96.9	498,600*
	22	81.9	96.7	495,600*
	23	81.3	96.5	492,600*
	24	80.6	96.3	482,900*
	25	80.0	96.1	464,500*
	26	79.3	95.9	447,400*
	27	78.7	95.7	431,400*
	28	78.0	95.4	416,600*
	29	77.4	95.2	402,700*
	30	76.7	94.9	389,600*
	32	75.4	94.4	356,100
	34	74.1	93.7	323,200
	36	72.7	93.1	295,800
	38	71.4	92.4	272,400
	40	70.0	91.6	252,300
100	42	68.6	90.8	234,800
	44	67.2	89.9	219,500
	46	65.8	88.9	205,900
	48	64.4	87.9	193,800
	50	63.0	86.8	183,000
	55	59.3	83.9	160,200
	60	55.4	80.4	142,200
	65	51.3	76.5	127,400
	70	47.0	71.8	115,200
	75	42.3	66.5	104,900
	80	37.1	60.0	96,100
	85	31.2	52.1	88,500
	22	82.8	106.8	479,300*
	23	82.2	106.7	476,300*
	24	81.6	106.5	473,400*
	25	81.0	106.3	463,500*
	26	80.4	106.1	446,400*
	27	79.8	105.9	430,500*
	28	79.3	105.7	415,600*
	29	78.7	105.5	401,700*
	30	78.1	105.2	388,700*
	32	76.9	104.7	355,700
	34	75.7	104.2	322,900
	36	74.5	103.6	295,400
	38	73.3	103.0	272,000

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
100	40	72.1	102.3	251,900
	42	70.9	101.5	234,400
	44	69.7	100.8	219,000
	46	68.4	99.9	205,500
	48	67.2	99.0	193,400
	50	65.9	98.1	182,500
	55	62.7	95.5	159,700
	60	59.3	92.5	141,600
	65	55.9	89.2	126,900
	70	52.3	85.3	114,700
	75	48.5	80.9	104,400
	80	44.4	75.9	95,600
	85	40.0	70.0	88,000
	90	35.1	63.1	81,300
	95	29.5	54.7	75,500
	23	82.9	116.8	374,400*
	24	82.4	116.6	371,800*
	25	81.8	116.5	369,400*
	26	81.3	116.3	367,000*
	27	80.8	116.1	364,700*
110	28	80.3	115.9	362,500*
	29	79.7	115.7	360,300*
	30	79.2	115.5	358,200*
	32	78.1	115.0	354,300*
	34	77.0	114.6	322,700
	36	76.0	114.0	295,100
	38	74.9	113.4	271,700
	40	73.8	112.8	251,600
	42	72.7	112.2	234,100
	44	71.6	111.5	218,800
	46	70.5	110.7	205,200
	48	69.4	109.9	193,100
	50	68.2	109.1	182,200
	55	65.4	106.8	159,400
	60	62.4	104.2	141,300
	65	59.4	101.2	126,600
	70	56.3	97.9	114,400
	75	53.0	94.1	104,100
	80	49.6	89.9	95,300
	85	46.0	85.1	87,600
120	90	42.2	79.7	81,000
	95	38.0	73.4	75,100
	100	33.3	66.0	69,900
	105	28.0	57.1	65,300
	24	83.0	126.8	363,700*
	25	82.5	126.6	361,400*
	26	82.0	126.4	359,200*
	27	81.6	126.3	357,000*
	28	81.1	126.1	354,900*
	29	80.6	125.9	352,900*
	30	80.1	125.7	350,900*
	32	79.1	125.3	347,200*
	34	78.1	124.8	322,300
	36	77.2	124.4	294,700
	38	76.2	123.8	271,300
	40	75.2	123.3	251,100
	42	74.2	122.7	233,600
	44	73.2	122.0	218,200
	46	72.2	121.4	204,600
	48	71.2	120.6	192,500
	50	70.1	119.9	181,700
130	55	67.6	117.8	158,900
	60	64.9	115.5	140,700
	65	62.2	112.8	126,000
	70	59.5	109.9	113,800
	75	56.6	106.6	103,500
	80	53.6	102.9	94,700

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
130	85	50.6	98.8	87,000
	90	47.3	94.2	80,400
	95	43.9	89.1	74,500
	100	40.2	83.3	69,300
	105	36.2	76.6	64,700
	110	31.8	68.8	60,500
	115	26.7	59.3	56,700
	26	82.7	136.6	350,700*
	27	82.2	136.4	348,700*
	28	81.8	136.2	346,700*
	29	81.3	136.1	344,800*
	30	80.9	135.9	343,000*
	32	80.0	135.5	339,500*
	34	79.1	135.1	322,300
	36	78.2	134.6	294,700
	38	77.3	134.2	271,300
	40	76.4	133.6	251,100
	42	75.4	133.1	233,600
	44	74.5	132.5	218,200
	46	73.6	131.9	204,600
	48	72.7	131.2	192,500
140	50	71.7	130.5	181,600
	55	69.4	128.7	158,800
	60	67.0	126.5	140,700
	65	64.5	124.1	125,900
	70	62.1	121.5	113,700
	75	59.5	118.5	103,400
	80	56.9	115.3	94,600
	85	54.2	111.7	87,000
	90	51.3	107.7	80,300
	95	48.4	103.3	74,500
	100	45.3	98.4	69,300
	105	42.0	92.9	64,600
	110	38.5	86.7	60,400
	115	34.7	79.7	56,700
	120	30.5	71.5	53,200
	125	25.6	61.5	50,100
	27	82.8	146.5	341,800*
	28	82.4	146.4	340,000*
	29	81.9	146.2	338,200*
	30	81.5	146.0	336,400*
	32	80.7	145.7	333,100*
	34	79.9	145.3	321,900
	36	79.0	144.9	294,300
	38	78.2	144.4	270,800
	40	77.4	144.0	250,600
	42	76.5	143.5	233,100
150	44	75.7	142.9	217,700
	46	74.8	142.3	204,100
	48	74.0	141.7	191,900
	50	73.1	141.1	181,100
	55	70.9	139.4	158,200
	60	68.7	137.4	140,100
	65	66.5	135.2	125,300
	70	64.2	132.8	113,100
	75	61.9	130.1	102,800
	80	59.5	127.2	93,900
	85	57.1	124.0	86,300
	90	54.6	120.4	79,700
	95	52.0	116.5	73,800
	100	49.3	112.2	68,600
	105	46.5	107.5	63,900
	110	43.5	102.3	59,800
	115	40.4	96.5	56,000
	120	37.0	90.0	52,600
	125	33.4	82.6	49,400
	130	29.3	74.0	46,600

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BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
150	28	82.9	156.5	302,400*
	29	82.5	156.3	300,500*
	30	82.1	156.2	298,600*
	32	81.3	155.8	295,000*
	34	80.6	155.5	291,500*
	36	79.8	155.1	288,300*
	38	79.0	154.7	270,400
	40	78.2	154.2	250,200
	42	77.4	153.8	232,700
	44	76.6	153.3	217,300
	46	75.8	152.7	203,600
	48	75.1	152.2	191,500
	50	74.3	151.6	180,600
	55	72.3	150.0	157,800
	60	70.2	148.2	139,600
160	65	68.2	146.2	124,900
	70	66.1	143.9	112,600
	75	63.9	141.5	102,300
	80	61.8	138.8	93,400
	85	59.6	135.9	85,800
	90	57.3	132.6	79,200
	95	55.0	129.1	73,300
	100	52.6	125.3	68,100
	105	50.1	121.2	63,400
	110	47.5	116.6	59,300
	115	44.8	111.6	55,500
	120	42.0	106.1	52,100
	125	38.9	100.0	48,900
	130	35.7	93.2	46,100
	135	32.2	85.4	43,400
	140	28.3	76.5	41,000
160	29	83.0	166.4	292,100*
	30	82.6	166.3	290,300*
	32	81.9	166.0	287,100*
	34	81.1	165.7	284,000*
	36	80.4	165.3	281,100*
	38	79.7	164.9	269,900
	40	79.0	164.5	249,700
	42	78.2	164.0	232,100
	44	77.5	163.6	216,700
	46	76.8	163.1	203,100
	48	76.0	162.6	190,900
	50	75.3	162.0	180,000
	55	73.4	160.5	157,200
	60	71.5	158.8	139,000
	65	69.6	157.0	124,200
160	70	67.7	154.9	112,000
	75	65.7	152.6	101,600
	80	63.7	150.2	92,800
	85	61.7	147.5	85,100
	90	59.6	144.5	78,500
	95	57.5	141.3	72,600
	100	55.3	137.9	67,400
	105	53.1	134.1	62,800
	110	50.7	130.1	58,600
	115	48.4	125.6	54,800
	120	45.9	120.8	51,400
	125	43.3	115.6	48,200
	130	40.5	109.8	45,400
	135	37.6	103.4	42,700
	140	34.5	96.2	40,300
150	145	31.1	88.2	38,000
	150	27.3	78.8	35,900

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
170	30	83.0	176.4	284,100*
	32	82.4	176.1	281,100*
	34	81.7	175.8	278,300*
	36	81.0	175.5	275,600*
	38	80.3	175.1	269,800
	40	79.6	174.7	249,600
	42	78.9	174.3	232,000
	44	78.2	173.8	216,600
	46	77.5	173.4	203,000
	48	76.9	172.9	190,800
	50	76.2	172.4	179,900
	55	74.4	171.0	157,100
	60	72.6	169.4	138,900
	65	70.9	167.6	124,100
	70	69.1	165.7	111,800
170	75	67.2	163.6	101,500
	80	65.4	161.3	92,700
	85	63.5	158.8	85,000
	90	61.6	156.1	78,400
	95	59.6	153.2	72,500
	100	57.6	150.0	67,300
	105	55.6	146.6	62,600
	110	53.5	142.9	58,500
	115	51.3	138.9	54,700
	120	49.1	134.6	51,200
	125	46.8	129.9	48,100
	130	44.4	124.9	45,200
	135	41.9	119.3	42,600
	140	39.2	113.3	40,200
	145	36.4	106.6	37,900
160	150	33.4	99.2	35,800
	155	30.1	90.8	33,900
	160	26.5	81.1	32,100
180	32	82.8	186.2	274,600*
	34	82.1	185.9	272,100*
	36	81.5	185.6	269,700*
	38	80.9	185.3	267,400*
	40	80.2	184.9	249,100
	42	79.6	184.5	231,500
	44	78.9	184.1	216,100
	46	78.3	183.6	202,400
	48	77.6	183.2	190,300
	50	76.9	182.7	179,400
	55	75.3	181.4	156,500
	60	73.6	179.9	138,300
	65	72.0	178.3	123,500
	70	70.3	176.5	111,200
	75	68.6	174.5	100,900
180	80	66.8	172.3	92,000
	85	65.1	170.0	84,400
	90	63.3	167.5	77,700
	95	61.5	164.8	71,800
	100	59.6	161.8	66,600
	105	57.8	158.7	62,000
	110	55.8	155.3	57,800
	115	53.9	151.7	54,000
	120	51.8	147.7	50,600
	125	49.8	143.5	47,400
	130	47.6	139.0	44,600
	135	45.4	134.1	41,900
	140	43.1	128.8	39,500
	145	40.6	123.0	37,200
	150	38.1	116.7	35,100
160	155	35.4	109.8	33,200
	160	32.4	102.1	31,400
	165	29.2	93.4	29,700
	170	25.7	83.3	28,100

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
190	34	82.6	196.0	241,300*
	36	81.9	195.7	238,800*
	38	81.3	195.4	236,500*
	40	80.7	195.1	234,200*
	42	80.1	194.7	231,100
	44	79.5	194.3	215,600
	46	78.9	193.9	202,000
	48	78.3	193.4	189,800
	50	77.6	193.0	178,900
	55	76.1	191.7	156,000
	60	74.5	190.3	137,800
	65	72.9	188.8	123,000
	70	71.4	187.1	110,700
	75	69.7	185.3	100,300
	80	68.1	183.2	91,500
190	85	66.5	181.1	83,800
	90	64.8	178.7	77,200
	95	63.1	176.2	71,300
	100	61.4	173.4	66,100
	105	59.7	170.5	61,400
	110	57.9	167.4	57,200
	115	56.1	164.0	53,400
	120	54.2	160.4	50,000
	125	52.3	156.6	46,900
	130	50.3	152.4	44,000
	135	48.3	148.0	41,400
	140	46.2	143.2	38,900
	145	44.1	138.1	36,700
	150	41.8	132.6	34,600
	155	39.5	126.6	32,600
200	160	37.0	120.0	30,800
	165	34.4	112.8	29,100
	170	31.5	104.8	27,500
	175	28.4	95.8	26,000
200	34	82.9	206.1	233,400*
	36	82.4	205.8	231,200*
	38	81.8	205.5	229,100*
	40	81.2	205.2	227,100*
	42	80.6	204.8	225,200*
	44	80.0	204.5	215,100
	46	79.4	204.1	201,400
	48	78.9	203.7	189,200
	50	78.3	203.2	178,300
	55	76.8	202.1	155,400
	60	75.3	200.7	137,100
	65	73.8	199.3	122,300
	70	72.3	197.7	110,000
	75	70.8	195.9	99,700
	80	69.3	194.0	90,800
200	85	67.7	192.0	83,200
	90	66.2	189.8	76,500
	95	64.6	187.4	70,600
	100	63.0	184.8	65,400
	105	61.3	182.1	60,700
	110	59.7	179.2	56,500
	115	58.0	176.0	52,700
	120	56.3	172.7	49,300
	125	54.5	169.1	46,200
	130	52.7	165.3	43,300
	135	50.9	161.3	40,700
	140	49.0	157.0	38,200
	145	47.0	152.3	36,000
	150	45.0	147.3	33,900
	155	42.9	142.0	31,900
160	160	40.7	136.2	30,100
	165	38.4	130.0	28,400
	170	36.0	123.2	26,800
	175	33.4	115.8	25,300
	180	30.7	107.5	23,900
	185	27.7	98.3	22,600

MANITOWOC ENGINEERING CO.

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



LIFTCRANE BOOM CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

M-250 SERIES 2

NEW YORK CITY CODE

BOOM NO. 44 WITH HEAVY LIFT TOP

207,000 LB. CRANE COUNTERWEIGHT

60,000 LB. CARBODY COUNTERWEIGHT

360 DEGREE RATING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
210	36	82.7	215.9	225,300*
	38	82.2	215.6	223,500*
	40	81.6	215.3	221,700*
	42	81.1	215.0	219,300*
	44	80.5	214.6	214,300*
	46	80.0	214.3	201,200
	48	79.4	213.9	189,000
	50	78.8	213.5	178,100
	55	77.4	212.3	155,100
	60	76.0	211.1	136,900
	65	74.6	209.7	122,100
	70	73.2	208.2	109,800
	75	71.8	206.5	99,400
	80	70.3	204.7	90,600
	85	68.8	202.8	82,900
	90	67.4	200.7	76,200
	95	65.9	198.5	70,400
	100	64.4	196.1	65,100
	105	62.8	193.5	60,500
	110	61.3	190.8	56,300
220	115	59.7	187.8	52,500
	120	58.1	184.7	49,100
	125	56.4	181.4	45,900
	130	54.8	177.9	43,100
	135	53.1	174.1	40,400
	140	51.3	170.1	38,000
	145	49.5	165.9	35,700
	150	47.7	161.4	33,600
	155	45.8	156.5	31,700
	160	43.8	151.3	29,900
	165	41.8	145.8	28,200
	170	39.7	139.8	26,600
	175	37.4	133.4	25,100
	180	35.1	126.4	23,700
	185	32.6	118.7	22,300
	190	29.9	110.2	21,100
	195	27.0	100.6	19,900
230	38	82.5	225.8	217,300*
	40	82.0	225.5	214,800*
	42	81.5	225.1	209,800*
	44	80.9	224.8	205,000*
	46	80.4	224.4	200,200*
	48	79.9	224.1	188,400
	50	79.4	223.7	177,500
	55	78.0	222.6	154,500
	60	76.7	221.4	136,300
	65	75.3	220.1	121,500
	70	74.0	218.7	109,200
	75	72.6	217.1	98,800
	80	71.2	215.4	89,900
	85	69.9	213.5	82,300
	90	68.5	211.6	75,600
	95	67.0	209.4	69,700
	100	65.6	207.2	64,500
	105	64.2	204.7	59,800
	110	62.7	202.2	55,600
	115	61.2	199.4	51,800
240	120	59.7	196.5	48,400
	125	58.2	193.4	45,200
	130	56.6	190.1	42,400
	135	55.0	186.6	39,700
	140	53.4	182.9	37,300
	145	51.7	179.0	35,000
	150	50.1	174.8	32,900
	155	48.3	170.4	31,000
	160	46.5	165.6	29,200
	165	44.7	160.6	27,500

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
220	170	42.8	155.2	25,900
	175	40.8	149.5	24,400
	180	38.7	143.3	23,000
	185	36.5	136.6	21,600
	190	34.2	129.4	20,400
	195	31.8	121.5	19,200
	200	29.2	112.7	18,100
	205	26.3	102.9	17,000
230	38	82.9	235.9	193,200*
	40	82.4	235.6	191,600*
	42	81.8	235.3	190,000*
	44	81.3	234.9	188,500*
	46	80.8	234.6	187,100*
	48	80.3	234.2	183,900*
	50	79.8	233.9	177,000
	55	78.6	232.9	154,000
	60	77.3	231.7	135,800
	65	76.0	230.5	120,900
	70	74.7	229.1	108,600
	75	73.4	227.6	98,200
	80	72.1	226.0	89,400
	85	70.8	224.2	81,700
	90	69.4	222.3	75,000
	95	68.1	220.3	69,100
	100	66.7	218.2	63,900
	105	65.4	215.9	59,200
	110	64.0	213.4	55,000
	115	62.6	210.8	51,200
240	120	61.2	208.1	47,800
	125	59.7	205.1	44,700
	130	58.3	202.1	41,800
	135	56.8	198.8	39,100
	140	55.2	195.3	36,700
	145	53.7	191.7	34,400
	150	52.1	187.8	32,400
	155	50.5	183.7	30,400
	160	48.9	179.3	28,600
	165	47.2	174.7	26,900
	170	45.4	169.8	25,300
	175	43.6	164.6	23,800
	180	41.8	159.0	22,400
	185	39.8	153.1	21,100
	190	37.8	146.7	19,800
	195	35.7	139.8	18,600
	200	33.5	132.4	17,500
	205	31.1	124.2	16,400
	210	28.5	115.2	15,400
	215	25.7	105.1	14,400
250	40	82.7	245.7	185,800*
	42	82.2	245.4	184,400*
	44	81.7	245.1	181,900*
	46	81.2	244.7	178,400*
	48	80.7	244.4	174,900*
	50	80.3	244.0	171,300*
	55	79.0	243.1	153,400
	60	77.8	242.0	135,200
	65	76.6	240.8	120,300
	70	75.4	239.5	108,000
	75	74.1	238.0	97,600
	80	72.9	236.5	88,700
	85	71.6	234.8	81,000
	90	70.3	233.0	74,400
	95	69.1	231.1	68,500
	100	67.8	229.1	63,200
	105	66.5	226.9	58,600
	110	65.2	224.6	54,400

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
240	115	63.8	222.1	50,600
	120	62.5	219.5	47,100
	125	61.1	216.7	44,000
	130	59.7	213.8	41,100
	135	58.3	210.7	38,400
	140	56.9	207.5	36,000
	145	55.5	204.0	33,700
	150	54.0	200.4	31,600
	155	52.5	196.6	29,700
	160	50.9	192.5	27,900
	165	49.4	188.2	26,200
	170	47.8	183.7	24,600
	175	46.1	178.9	23,100
	180	44.4	173.9	21,700
	185	42.6	168.5	20,300
	190	40.8	162.7	19,100
	195	38.9	156.6	17,900
	200	37.0	150.0	16,800
	205	34.9	142.9	15,700
	210	32.7	135.3	14,700
250	215	30.4	126.9	13,700
	220	27.9	117.7	12,800
	225	25.1	107.3	11,900*
	40	83.0	255.8	179,100*
	42	82.5	255.5	177,900*
	44	82.0	255.2	174,900*
	46	81.6	254.9	171,600*
	48	81.1	254.6	168,200*
	50	80.6	254.2	164,900*
	55	79.5	253.3	154,200
	60	78.3	252.2	136,000
	65	77.1	251.1	121,100
	70	76.0	249.8	108,800
	75	74.8	248.5	98,400
	80	73.6	247.0	89,500
	85	72.4	245.4	81,900
	90	71.2	243.7	75,200
	95	69.9	241.8	69,300
	100	68.7	239.9	64,100
	105	67.5	237.8	59,400
	110	66.2	235.6	55,200
	115	64.9	233.3	51,400
	120	63.7	230.8	48,000
	125	62.4	228.2	44,800
	130	61.1	225.4	41,900
	135	59.7	222.5	39,300
	140	58.4	219.4	36,900
	145	57.0	216.2	34,600
	150	55.6	212.7	32,500
	155	54.2	209.1	30,600
	160	52.8	205.4	28,700
	165	51.3	201.4	27,000
	170	49.8	197.2	25,400
	175	48.3	192.7	23,900
	180	46.7	188.0	22,500
	185	45.1	183.1	21,200
	190	43.4	177.8	20,000
	195	41.7	172.2	18,800
	200	40.0	166.3	17,600
	205	38.1	160.0	16,600
	210	36.2	153.2	15,600
	215	34.2	146.0	14,600
	220	32.0	138.1	13,700
	225	29.7	129.5	12,800
	230	27.3	120.1	12,000

MANITOWOC ENGINEERING CO.

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LIFTCRANE BOOM CAPACITIES

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NEW YORK CITY CODE

BOOM NO. 44 WITH HEAVY LIFT TOP

207,000 LB. CRANE COUNTERWEIGHT

60,000 LB. CARBODY COUNTERWEIGHT

360 DEGREE RATING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
260	42	82.8	265.6	169,400*
	44	82.4	265.3	166,100*
	46	81.9	265.0	162,800*
	48	81.5	264.7	159,700*
	50	81.0	264.4	156,500*
	55	79.9	263.5	137,700
	60	78.8	262.5	120,300
	65	77.6	261.4	106,100
	70	76.5	260.1	94,300
	75	75.4	258.8	84,400
	80	74.2	257.4	75,900
	85	73.1	255.9	68,600
	90	71.9	254.2	62,100
	95	70.7	252.5	56,500
	100	69.6	250.6	51,500
	105	68.4	248.6	47,000
	110	67.2	246.5	43,000
	115	66.0	244.3	39,400
	120	64.8	241.9	36,100
	125	63.5	239.4	33,100
270	130	62.3	236.8	30,300
	135	61.0	234.0	27,800
	140	59.8	231.1	25,500
	145	58.5	228.1	23,300
	150	57.1	224.8	21,300
	155	55.8	221.4	19,400
	160	54.5	217.9	17,700
	165	53.1	214.1	16,100
	170	51.7	210.2	14,600
	175	50.2	206.0	13,100
	180	48.8	201.7	11,800
	185	47.3	197.1	10,500
	190	45.8	192.2	9,300
	195	44.2	187.1	8,200
	200	42.6	181.7	7,100
	205	40.9	176.0	6,100
	210	39.1	169.9	5,100
	215	37.3	163.4	4,200

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
280	44	82.9	285.5	142,700*
	46	82.5	285.2	142,000*
	48	82.1	284.9	141,300*
	50	81.7	284.6	138,600*
	55	80.6	283.8	130,900*
	60	79.6	282.9	119,300
	65	78.5	281.8	105,100
	70	77.5	280.7	93,300
	75	76.4	279.5	83,400
	80	75.4	278.2	74,900
	85	74.3	276.8	67,500
	90	73.2	275.3	61,100
	95	72.2	273.7	55,400
	100	71.1	271.9	50,400
	105	70.0	270.1	46,000
	110	68.9	268.2	41,900
	115	67.8	266.1	38,300
	120	66.7	264.0	35,000
	125	65.6	261.7	32,000
	130	64.4	259.3	29,200
290	135	63.3	256.8	26,700
	140	62.1	254.1	24,400
	145	61.0	251.4	22,200
	150	59.8	248.5	20,200
	155	58.6	245.4	18,300
	160	57.4	242.2	16,600
	165	56.1	238.8	14,900
	170	54.9	235.3	13,400
	175	53.6	231.6	12,000
	180	52.3	227.8	10,600
	185	51.0	223.7	9,400
	190	49.7	219.5	8,200
	195	48.3	215.1	7,000
	200	46.9	210.4	5,900
	205	45.5	205.5	4,900
	210	44.0	200.3	4,000

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
300	46	83.0	305.4	123,300*
	48	82.6	305.1	122,900*
	50	82.2	304.8	122,600*
	55	81.3	304.1	120,400*
	60	80.3	303.2	116,000*
	65	79.3	302.3	103,700
	70	78.3	301.2	91,900
	75	77.4	300.1	81,900
	80	76.4	298.9	73,400
	85	75.4	297.6	66,100
	90	74.4	296.2	59,600
	95	73.4	294.7	54,000
	100	72.4	293.1	49,000
	105	71.4	291.4	44,500
	110	70.4	289.6	40,500
	115	69.4	287.7	36,800
	120	68.3	285.7	33,500
	125	67.3	283.6	30,500
	130	66.2	281.4	27,700
	135	65.2	279.1	25,200
300	140	64.1	276.7	22,900
	145	63.1	274.1	20,700
	150	62.0	271.5	18,700
	155	60.9	268.7	16,800
	160	59.8	265.8	15,100
	165	58.7	262.7	13,400
	170	57.5	259.6	11,900
	175	56.4	256.2	10,500
	180	55.2	252.8	9,100
	185	54.0	249.1	7,800