

MANITOWOC ENGINEERING CO.

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



LIFTCRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

**NEW YORK CITY CODE
BOOM NO. 44 WITH 5' TOP
LUFFING JIB NO. 133A
167,000 LB. COUNTERWEIGHT
360 DEGREE RATING**

MEETS
ANSI B30.5
REQUIREMENTS

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 AND LUFFING JIB LENGTH COMBINATIONS THRU 245' AND NEW YORK CITY CRITERIA OF 1.4 FACTOR APPLIED TO TOTAL MACHINE MOMENT FOR BOOM AND LUFFING JIB LENGTH COMBINATIONS 255' ON UP. CAPACITIES BASED ON STRUCTURAL COMPETENCE ARE DENOTED BY AN ASTERISK (*).

WEIGHT OF ALL LOAD BLOCKS, HOOKS, WEIGHT BALL, SLINGS, HOIST LINES, ETC., BENEATH BOOM POINT SHEAVES, IS CONSIDERED PART OF MAIN BOOM LOAD. WEIGHT OF LUFFING JIB AND 5,000 LBS. SUSPENDED BENEATH LUFFING JIB POINT SHEAVES HAVE BEEN INCLUDED IN CAPACITY DETERMINATION. 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. DURING OPERATION, LUFFING JIB MUST BE MAINTAINED AT PROPER BOOM TO LUFFING JIB ANGLE SHOWN IN TABLE. REFER TO FOLD UNDER LUFFING JIB ASSEMBLY NO. 175501, WIRE ROPE SPECIFICATION CHART NO. 7581-K, LUFFING JIB RAISING PROCEDURE CHART NO. 7711-A 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 WHEN WIND IS ABOVE OPERATING CONDITIONS STATED. LOWER BOOM AND LUFFING JIB TO GROUND WHEN WIND IS ABOVE SPEED REFERRED TO IN MAXIMUM ALLOWABLE WIND CONDITIONS CHART NO. 7785-A.

MACHINE TO TRAVEL ON A FIRM, LEVEL AND UNIFORMLY SUPPORTING SURFACE WITH BOOM WITHIN ANGLE RANGE SHOWN IN CAPACITY CHART AND LUFFING JIB SET AT PROPER BOOM TO LUFFING JIB ANGLE SHOWN IN TABLE. REFER TO MAXIMUM ALLOWABLE TRAVEL SPECIFICATION CHART NO. 7786-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 30'9" CRAWLERS, 48" TREADS, 2' BOOM HINGE ADAPTOR, 28' RETRACTABLE GANTRY, 12 PART BOOM HOIST REEVING, FOUR 1-1/2" BOOM PENDANTS, 10 PART LUFFING JIB HOIST REEVING, TWO 1-1/2" LUFFING JIB PENDANTS AND BACKSTAYS, AND 167,000 LB. COUNTERWEIGHT.

LUFFING JIB POSITION DURING OPERATION	
LUFFING JIB LENGTH - FEET	BOOM TO LUFFING JIB ANGLE
70	145 DEGREES
80 - 90	150 DEGREES
100 - 110	160 DEGREES
120 - 200	168 DEGREES

WIND LIMITS DURING OPERATION					
BASED ON WIND VELOCITY MEASURED AT 100 FT. ELEVATION WITH VELOCITY FACTOR FOR SUBURBAN AREAS, CITY OUTSKIRTS, AND ROLLING TERRAIN					
25 MPH MAXIMUM WIND VELOCITY		20 MPH MAXIMUM WIND VELOCITY		15 MPH MAXIMUM WIND VELOCITY	
BOOM LENGTH	LUFFING JIB LENGTH	BOOM LENGTH	LUFFING JIB LENGTH	BOOM LENGTH	LUFFING JIB LENGTH
FEET	FEET	FEET	FEET	FEET	FEET
85 - 95	70 - 160	85 - 95	170 - 200	105 - 115	200
105 - 115	70 - 140	105 - 115	150 - 190	125 - 135	180 - 200
125 - 135	70 - 130	125 - 135	140 - 170	145 - 155	160 - 200
145 - 155	70 - 120	145 - 155	130 - 150	165	150 - 200
165	70 - 100	165	110 - 140		

CONSULT CHART NO. 7742-A FOR LUFFING JIB CAPACITIES

MANITOWOC ENGINEERING CO.

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LIFTCRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE
BOOM NO. 44 WITH 5' TOP
70' LUFFING JIB NO. 133A
SET AT 145 DEGREE BOOM TO LUFFING JIB ANGLE
167,000 LB. COUNTERWEIGHT
360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
85	22	83.0	93.7	300,000*
	23	82.3	93.5	295,700*
	24	81.6	93.3	293,900*
	25	80.9	93.1	292,200*
	26	80.2	92.9	290,500*
	27	79.5	92.7	289,000*
	28	78.9	92.4	287,400*
	29	78.2	92.1	286,000*
	30	77.5	91.9	278,400
	32	76.1	91.3	246,800
	34	74.6	90.6	220,700
	36	73.2	89.9	198,800
	38	71.8	89.1	180,200
	40	70.3	88.3	164,300
	42	68.8	87.4	150,400
	44	67.4	86.5	138,200
	46	65.8	85.4	127,400
	48	64.3	84.4	117,800
	50	62.8	83.2	109,200
	55	58.8	80.0	91,100
	60	54.6	76.3	76,700
	65	50.1	71.9	65,100
	70	45.3	66.7	55,400
	75	39.9	60.6	47,200
95	24	82.5	103.5	289,700*
	25	81.9	103.3	288,100*
	26	81.3	103.1	286,700*
	27	80.7	102.9	285,300*
	28	80.1	102.7	284,000*
	29	79.4	102.4	282,700*
	30	78.8	102.2	279,600
	32	77.6	101.7	247,800
	34	76.3	101.1	221,600
	36	75.0	100.5	199,700
	38	73.8	99.8	181,100
	40	72.5	99.1	165,000
	42	71.2	98.3	151,100
	44	69.9	97.4	138,900
	46	68.6	96.6	128,100
	48	67.3	95.6	118,400
	50	65.9	94.6	109,800
	55	62.5	91.9	91,600
	60	58.9	88.7	77,200
	65	55.2	85.0	65,500
	70	51.2	80.9	55,800
	75	47.1	76.0	47,600
	80	42.5	70.4	40,600
	85	37.5	63.8	34,500

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
105	25	82.7	113.5	284,800*
	26	82.1	113.3	283,500*
	27	81.6	113.1	282,300*
	28	81.0	112.9	281,100*
	29	80.5	112.7	280,000*
	30	79.9	112.5	278,900*
	32	78.8	112.0	248,500
	34	77.7	111.5	222,300
	36	76.5	110.9	200,300
	38	75.4	110.3	181,700
	40	74.2	109.7	165,600
	42	73.1	109.0	151,700
	44	71.9	108.2	139,400
	46	70.7	107.4	128,600
	48	69.6	106.6	118,900
	50	68.4	105.7	110,300
	55	65.3	103.3	92,100
	60	62.2	100.5	77,700
	65	59.0	97.4	65,900
	70	55.7	93.8	56,200
	75	52.2	89.8	48,000
	80	48.5	85.2	40,900
	85	44.5	79.9	34,900
	90	40.2	73.9	29,600
	95	35.5	66.7	24,900
115	26	82.8	123.5	280,700*
	27	82.3	123.3	279,700*
	28	81.8	123.1	278,700*
	29	81.3	122.9	277,700*
	30	80.8	122.7	276,800*
	32	79.8	122.3	249,200
	34	78.8	121.8	222,900
	36	77.7	121.3	200,900
	38	76.7	120.7	182,200
	40	75.7	120.1	166,100
	42	74.6	119.5	152,100
	44	73.6	118.8	139,800
	46	72.5	118.1	129,000
	48	71.4	117.4	119,300
	50	70.4	116.6	110,600
	55	67.7	114.4	92,400
	60	64.9	111.9	77,900
	65	62.0	109.1	66,100
	70	59.1	106.0	56,300
	75	56.1	102.5	48,100
	80	52.9	98.6	41,000
	85	49.6	94.2	34,900
	90	46.1	89.2	29,600
	95	42.3	83.6	24,900
	100	38.3	77.2	20,800

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
125	27	82.9	133.4	253,000*
	28	82.5	133.2	251,400*
	29	82.0	133.1	249,900*
	30	81.5	132.9	248,400*
	32	80.6	132.5	245,500*
	34	79.7	132.1	223,200
	36	78.7	131.6	201,200
	38	77.8	131.1	182,500
	40	76.8	130.5	166,300
	42	75.9	130.0	152,300
	44	74.9	129.4	140,000
	46	74.0	128.7	129,100
	48	73.0	128.0	119,400
	50	72.0	127.3	110,800
	55	69.6	125.3	92,500
	60	67.0	123.1	78,000
	65	64.5	120.6	66,200
	70	61.9	117.8	56,400
	75	59.2	114.7	48,200
	80	56.4	111.2	41,100
	85	53.5	107.4	35,000
	90	50.5	103.2	29,700
	95	47.3	98.4	25,000
	100	44.0	93.1	20,800
	105	40.4	87.1	17,100
	110	36.5	80.3	13,800
135	28	83.0	143.4	246,900*
	29	82.6	143.2	245,600*
	30	82.2	143.0	244,300*
	32	81.3	142.7	241,900*
	34	80.4	142.3	223,600
	36	79.6	141.8	201,500
	38	78.7	141.4	182,700
	40	77.8	140.9	166,500
	42	77.0	140.4	152,500
	44	76.1	139.8	140,100
	46	75.2	139.2	129,200
	48	74.3	138.6	119,500
	50	73.4	137.9	110,800
	55	71.2	136.1	92,500
	60	68.9	134.1	78,000
	65	66.5	131.8	66,100
	70	64.2	129.2	56,300
	75	61.7	126.4	48,000
	80	59.2	123.4	40,900
	85	56.7	120.0	34,800
	90	54.0	116.2	29,500
	95	51.3	112.1	24,800
	100	48.4	107.5	20,600
	105	45.4	102.5	16,900
	110	42.2	96.8	13,500
	115	38.8	90.5	10,500

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LIFT CRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE

BOOM NO. 44 WITH 5' TOP

70' LUFFING JIB NO. 133A

SET AT 145 DEGREE BOOM TO LUFFING JIB ANGLE

167,000 LB. COUNTERWEIGHT

360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
1 4 5	30	82.7	153.2	239,000*
	32	81.9	152.8	237,000*
	34	81.1	152.5	223,900
	36	80.3	152.1	201,800
	38	79.5	151.6	183,000
	40	78.7	151.2	166,800
	42	77.9	150.7	152,800
	44	77.1	150.2	140,400
	46	76.2	149.6	129,500
	48	75.4	149.0	119,800
	50	74.6	148.4	111,100
	55	72.5	146.8	92,800
	60	70.4	144.9	78,200
	65	68.3	142.8	66,400
	70	66.1	140.5	56,600
	75	63.9	137.9	48,300
	80	61.6	135.1	41,200
	85	59.3	132.0	35,100
	90	56.9	128.7	29,800
	95	54.5	125.0	25,100
	100	51.9	121.0	20,900
	105	49.3	116.5	17,200
	110	46.5	111.7	13,800
	115	43.6	106.3	10,800

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
1 5 5	32	82.4	163.0	233,700*
	34	81.7	162.6	224,200
	36	80.9	162.3	202,000
	38	80.2	161.9	183,200
	40	79.4	161.4	166,900
	42	78.7	161.0	152,800
	44	77.9	160.5	140,500
	46	77.2	160.0	129,500
	48	76.4	159.4	119,800
	50	75.6	158.9	111,000
	55	73.7	157.3	92,700
	60	71.7	155.6	78,100
	65	69.7	153.6	66,200
	70	67.7	151.5	56,400
	75	65.7	149.1	48,100
	80	63.6	146.6	41,000
	85	61.5	143.8	34,900
	90	59.3	140.7	29,500
	95	57.1	137.4	24,800
	100	54.8	133.7	20,600
	105	52.5	129.8	16,900
	110	50.0	125.5	13,500
	115	47.5	120.8	10,500

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
1 6 5	32	82.9	173.1	202,100*
	34	82.2	172.8	200,000*
	36	81.5	172.4	198,000*
	38	80.8	172.1	183,100
	40	80.1	171.7	166,900
	42	79.4	171.2	152,700
	44	78.7	170.8	140,400
	46	77.9	170.3	129,400
	48	77.2	169.8	119,600
	50	76.5	169.3	110,900
	55	74.7	167.8	92,500
	60	72.9	166.2	77,900
	65	71.0	164.4	66,000
	70	69.2	162.4	56,200
	75	67.3	160.2	47,900
	80	65.4	157.8	40,800
	85	63.4	155.2	34,600
	90	61.4	152.4	29,300
	95	59.4	149.4	24,500
	100	57.3	146.1	20,400
	105	55.2	142.5	16,600
	110	53.0	138.6	13,200
	115	50.7	134.4	10,200

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LIFT CRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE

BOOM NO. 44 WITH 5' TOP

80' LUFFING JIB NO. 133A

SET AT 150 DEGREE BOOM TO LUFFING JIB ANGLE

167,000 LB. COUNTERWEIGHT

360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
85	22	83.0	93.7	295,000*
	23	82.3	93.5	293,700*
	24	81.6	93.3	292,300*
	25	80.9	93.1	290,800*
	26	80.2	92.9	289,100*
	27	79.5	92.7	287,400*
	28	78.9	92.4	285,800*
	29	78.2	92.1	284,300*
	30	77.5	91.9	275,300
	32	76.1	91.3	243,600
	34	74.6	90.6	217,600
	36	73.2	89.9	195,700
	38	71.8	89.1	177,200
	40	70.3	88.3	161,200
	42	68.8	87.4	147,300
	44	67.4	86.5	135,200
	46	65.8	85.4	124,400
	48	64.3	84.4	114,800
	50	62.8	83.2	106,200
	55	58.8	80.0	88,100
95	60	54.6	76.3	73,800
	65	50.1	71.9	62,100
	70	45.3	66.7	52,400
	75	39.9	60.6	44,300
	80	33.8	53.0	37,300
	24	82.5	103.5	288,200*
	25	81.9	103.3	286,700*
	26	81.3	103.1	285,200*
	27	80.7	102.9	283,700*
	28	80.1	102.7	282,300*
	29	79.4	102.4	280,900*
	30	78.8	102.2	276,600
	32	77.6	101.7	244,800
	34	76.3	101.1	218,700
	36	75.0	100.5	196,800
	38	73.8	99.8	178,200
	40	72.5	99.1	162,200
	42	71.2	98.3	148,200
	44	69.9	97.4	136,000
	46	68.6	96.6	125,200
	48	67.3	95.6	115,600
	50	65.9	94.6	107,000
	55	62.5	91.9	88,800
	60	58.9	88.7	74,400
	65	55.2	85.0	62,700
	70	51.2	80.9	53,000
	75	47.1	76.0	44,800
	80	42.5	70.4	37,800
	85	37.5	63.8	31,800
	90	31.8	55.6	26,500

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
105	25	82.7	113.5	283,200*
	26	82.1	113.3	281,900*
	27	81.6	113.1	280,600*
	28	81.0	112.9	279,400*
	29	80.5	112.7	278,200*
	30	79.9	112.5	277,000*
	32	78.8	112.0	245,700
	34	77.7	111.5	219,500
	36	76.5	110.9	197,600
	38	75.4	110.3	178,900
	40	74.2	109.7	162,900
	42	73.1	109.0	149,000
	44	71.9	108.2	136,700
	46	70.7	107.4	125,900
	48	69.6	106.6	116,300
	50	68.4	105.7	107,600
	55	65.3	103.3	89,500
	60	62.2	100.5	75,000
	65	59.0	97.4	63,300
	70	55.7	93.8	53,600
115	75	52.2	89.8	45,400
	80	48.5	85.2	38,400
	85	44.5	79.9	32,300
	90	40.2	73.9	27,000
	95	35.5	66.7	22,400
	100	30.0	58.1	18,200
	26	82.8	123.5	279,000*
	27	82.3	123.3	278,000*
	28	81.8	123.1	276,900*
	29	81.3	122.9	275,900*
	30	80.8	122.7	274,900*
	32	79.8	122.3	246,500
	34	78.8	121.8	220,300
	36	77.7	121.3	198,300
	38	76.7	120.7	179,600
	40	75.7	120.1	163,500
	42	74.6	119.5	149,500
	44	73.6	118.8	137,200
	46	72.5	118.1	126,400
	48	71.4	117.4	116,700
	50	70.4	116.6	108,000
	55	67.7	114.4	89,800
	60	64.9	111.9	75,400
	65	62.0	109.1	63,600
	70	59.1	106.0	53,800
	75	56.1	102.5	45,600
	80	52.9	98.6	38,600
	85	49.6	94.2	32,500
	90	46.1	89.2	27,200
	95	42.3	83.6	22,500
	100	38.3	77.2	18,300
	105	33.7	69.6	14,600

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
125	27	82.9	133.4	253,200*
	28	82.5	133.2	251,600*
	29	82.0	133.1	249,900*
	30	81.5	132.9	248,400*
	32	80.6	132.5	245,400*
	34	79.7	132.1	220,700
	36	78.7	131.6	198,700
	38	77.8	131.1	179,900
	40	76.8	130.5	163,800
	42	75.9	130.0	149,800
	44	74.9	129.4	137,500
	46	74.0	128.7	126,700
	48	73.0	128.0	117,000
	50	72.0	127.3	108,300
	55	69.6	125.3	90,100
	60	67.0	123.1	75,600
	65	64.5	120.6	63,800
	70	61.9	117.8	54,000
	75	59.2	114.7	45,800
	80	56.4	111.2	38,700
135	85	53.5	107.4	32,700
	90	50.5	103.2	27,300
	95	47.3	98.4	22,700
	100	44.0	93.1	18,500
	105	40.4	87.1	14,800
	110	36.5	80.3	11,400
	28	83.0	143.4	246,900*
	29	82.6	143.2	245,500*
	30	82.2	143.0	244,200*
	32	81.3	142.7	241,700*
	34	80.4	142.3	221,100
	36	79.6	141.8	199,000
	38	78.7	141.4	180,300
	40	77.8	140.9	164,100
	42	77.0	140.4	150,100
	44	76.1	139.8	137,800
	46	75.2	139.2	126,900
	48	74.3	138.6	117,100
	50	73.4	137.9	108,400
	55	71.2	136.1	90,200
	60	68.9	134.1	75,600
	65	66.5	131.8	63,800
	70	64.2	129.2	54,000
	75	61.7	126.4	45,700
	80	59.2	123.4	38,700
	85	56.7	120.0	32,600
	90	54.0	116.2	27,200
	95	51.3	112.1	22,500
	100	48.4	107.5	18,400
	105	45.4	102.5	14,600
	110	42.2	96.8	11,300

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE

BOOM NO. 44 WITH 5' TOP

80' LUFFING JIB NO. 133A

SET AT 150 DEGREE BOOM TO LUFFING JIB ANGLE

167,000 LB. COUNTERWEIGHT

360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
1 4 5	30	82.7	153.2	238,800*
	32	81.9	152.8	236,700*
	34	81.1	152.5	221,500
	36	80.3	152.1	199,400
	38	79.5	151.6	180,600
	40	78.7	151.2	164,500
	42	77.9	150.7	150,400
	44	77.1	150.2	138,100
	46	76.2	149.6	127,200
	48	75.4	149.0	117,500
	50	74.6	148.4	108,800
	55	72.5	146.8	90,500
	60	70.4	144.9	76,000
	65	68.3	142.8	64,200
	70	66.1	140.5	54,400
	75	63.9	137.9	46,100
	80	61.6	135.1	39,000
	85	59.3	132.0	32,900
	90	56.9	128.7	27,600
	95	54.5	125.0	22,900
	100	51.9	121.0	18,700
	105	49.3	116.5	15,000
	110	46.5	111.7	11,700

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
1 5 5	32	82.4	163.0	233,200*
	34	81.7	162.6	221,800
	36	80.9	162.3	199,700
	38	80.2	161.9	180,900
	40	79.4	161.4	164,700
	42	78.7	161.0	150,600
	44	77.9	160.5	138,200
	46	77.2	160.0	127,300
	48	76.4	159.4	117,600
	50	75.6	158.9	108,800
	55	73.7	157.3	90,500
	60	71.7	155.6	75,900
	65	69.7	153.6	64,100
	70	67.7	151.5	54,200
	75	65.7	149.1	45,900
	80	63.6	146.6	38,900
	85	61.5	143.8	32,700
	90	59.3	140.7	27,400
	95	57.1	137.4	22,700
	100	54.8	133.7	18,500
	105	52.5	129.8	14,800
	110	50.0	125.5	11,400

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
1 6 5	32	82.9	173.1	202,800*
	34	82.2	172.8	200,600*
	36	81.5	172.4	198,500*
	38	80.8	172.1	180,900
	40	80.1	171.7	164,600
	42	79.4	171.2	150,500
	44	78.7	170.8	138,200
	46	77.9	170.3	127,200
	48	77.2	169.8	117,500
	50	76.5	169.3	108,700
	55	74.7	167.8	90,400
	60	72.9	166.2	75,800
	65	71.0	164.4	63,900
	70	69.2	162.4	54,100
	75	67.3	160.2	45,800
	80	65.4	157.8	38,700
	85	63.4	155.2	32,600
	90	61.4	152.4	27,200
	95	59.4	149.4	22,500
	100	57.3	146.1	18,300
	105	55.2	142.5	14,600
	110	53.0	138.6	11,200

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE
BOOM NO. 44 WITH 5' TOP
90' LUFFING JIB NO. 133A
SET AT 150 DEGREE BOOM TO LUFFING JIB ANGLE
167,000 LB. COUNTERWEIGHT
360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
85	22	83.0	93.7	289,900*
	23	82.3	93.5	288,500*
	24	81.6	93.3	286,900*
	25	80.9	93.1	285,300*
	26	80.2	92.9	283,600*
	27	79.5	92.7	281,900*
	28	78.9	92.4	280,200*
	29	78.2	92.1	278,600*
	30	77.5	91.9	269,600
	32	76.1	91.3	238,300
	34	74.6	90.6	212,500
	36	73.2	89.9	191,000
	38	71.8	89.1	172,600
	40	70.3	88.3	156,800
	42	68.8	87.4	143,100
	44	67.4	86.5	131,100
	46	65.8	85.4	120,500
	48	64.3	84.4	111,000
	50	62.8	83.2	102,500
	55	58.8	80.0	84,600
95	60	54.6	76.3	70,500
	65	50.1	71.9	59,000
	70	45.3	66.7	49,400
	75	39.9	60.6	41,400
	80	33.8	53.0	34,600
	24	82.5	103.5	283,100*
	25	81.9	103.3	281,400*
	26	81.3	103.1	279,900*
	27	80.7	102.9	278,400*
	28	80.1	102.7	276,900*
	29	79.4	102.4	275,500*
	30	78.8	102.2	271,000
	32	77.6	101.7	239,600
	34	76.3	101.1	213,800
	36	75.0	100.5	192,200
	38	73.8	99.8	173,800
	40	72.5	99.1	157,900
	42	71.2	98.3	144,200
	44	69.9	97.4	132,100
	46	68.6	96.6	121,400
	48	67.3	95.6	111,900
	50	65.9	94.6	103,400
	55	62.5	91.9	85,500
	60	58.9	88.7	71,300
	65	55.2	85.0	59,700
	70	51.2	80.9	50,100
	75	47.1	76.0	42,000
	80	42.5	70.4	35,200
	85	37.5	63.8	29,200
	90	31.8	55.6	24,100

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
105	25	82.7	113.5	278,100*
	26	82.1	113.3	276,800*
	27	81.6	113.1	275,500*
	28	81.0	112.9	274,200*
	29	80.5	112.7	273,000*
	30	79.9	112.5	271,800*
	32	78.8	112.0	240,600
	34	77.7	111.5	214,700
	36	76.5	110.9	193,000
	38	75.4	110.3	174,600
	40	74.2	109.7	158,800
	42	73.1	109.0	145,000
	44	71.9	108.2	132,900
	46	70.7	107.4	122,200
	48	69.6	106.6	112,700
	50	68.4	105.7	104,100
	55	65.3	103.3	86,200
	60	62.2	100.5	71,900
	65	59.0	97.4	60,400
	70	55.7	93.8	50,700
115	75	52.2	89.8	42,700
	80	48.5	85.2	35,700
	85	44.5	79.9	29,800
	90	40.2	73.9	24,600
	95	35.5	66.7	20,000
	100	30.0	58.1	16,000
	26	82.8	123.5	274,100*
	27	82.3	123.3	273,000*
	28	81.8	123.1	271,900*
	29	81.3	122.9	270,800*
	30	80.8	122.7	269,800*
	32	79.8	122.3	241,500
	34	78.8	121.8	215,600
	36	77.7	121.3	193,800
	38	76.7	120.7	175,400
	40	75.7	120.1	159,500
	42	74.6	119.5	145,600
	44	73.6	118.8	133,500
	46	72.5	118.1	122,800
	48	71.4	117.4	113,200
	50	70.4	116.6	104,600
	55	67.7	114.4	86,600
	60	64.9	111.9	72,300
	65	62.0	109.1	60,700
	70	59.1	106.0	51,100
	75	56.1	102.5	42,900
	80	52.9	98.6	36,000
	85	49.6	94.2	30,000
	90	46.1	89.2	24,800
	95	42.3	83.6	20,200
	100	38.3	77.2	16,100
	105	33.7	69.6	12,500

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
125	27	82.9	133.4	248,300*
	28	82.5	133.2	246,600*
	29	82.0	133.1	245,000*
	30	81.5	132.9	243,400*
	32	80.6	132.5	240,400*
	34	79.7	132.1	216,100
	36	78.7	131.6	194,300
	38	77.8	131.1	175,800
	40	76.8	130.5	159,900
	42	75.9	130.0	146,000
	44	74.9	129.4	133,900
	46	74.0	128.7	123,100
	48	73.0	128.0	113,500
	50	72.0	127.3	105,000
	55	69.6	125.3	86,900
	60	67.0	123.1	72,600
	65	64.5	120.6	61,000
	70	61.9	117.8	51,300
	75	59.2	114.7	43,200
	80	56.4	111.2	36,200
135	85	53.5	107.4	30,200
	90	50.5	103.2	25,000
	95	47.3	98.4	20,400
	100	44.0	93.1	16,300
	105	40.4	87.1	12,600
	28	83.0	143.4	242,100*
	29	82.6	143.2	240,700*
	30	82.2	143.0	239,400*
	32	81.3	142.7	236,800*
	34	80.4	142.3	216,600
	36	79.6	141.8	194,700
	38	78.7	141.4	176,200
	40	77.8	140.9	160,200
	42	77.0	140.4	146,300
	44	76.1	139.8	134,100
	46	75.2	139.2	123,400
	48	74.3	138.6	113,800
	50	73.4	137.9	105,200
	55	71.2	136.1	87,100
	60	68.9	134.1	72,700
	65	66.5	131.8	61,000
	70	64.2	129.2	51,400
	75	61.7	126.4	43,200
	80	59.2	123.4	36,200
	85	56.7	120.0	30,200
	90	54.0	116.2	24,900
	95	51.3	112.1	20,300
	100	48.4	107.5	16,200
	105	45.4	102.5	12,500

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE

BOOM NO. 44 WITH 5' TOP

90' LUFFING JIB NO. 133A

SET AT 150 DEGREE BOOM TO LUFFING JIB ANGLE

167,000 LB. COUNTERWEIGHT

360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
1 4 5	30	82.7	153.2	234,100*
	32	81.9	152.8	232,000*
	34	81.1	152.5	217,000
	36	80.3	152.1	195,100
	38	79.5	151.6	176,600
	40	78.7	151.2	160,600
	42	77.9	150.7	146,700
	44	77.1	150.2	134,500
	46	76.2	149.6	123,800
	48	75.4	149.0	114,200
	50	74.6	148.4	105,600
	55	72.5	146.8	87,500
	60	70.4	144.9	73,100
	65	68.3	142.8	61,500
	70	66.1	140.5	51,800
	75	63.9	137.9	43,600
	80	61.6	135.1	36,600
	85	59.3	132.0	30,600
	90	56.9	128.7	25,300
	95	54.5	125.0	20,700
	100	51.9	121.0	16,600
	105	49.3	116.5	12,900

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
1 5 5	32	82.4	163.0	228,700*
	34	81.7	162.6	217,400
	36	80.9	162.3	195,500
	38	80.2	161.9	176,900
	40	79.4	161.4	160,800
	42	78.7	161.0	146,900
	44	77.9	160.5	134,700
	46	77.2	160.0	123,900
	48	76.4	159.4	114,300
	50	75.6	158.9	105,600
	55	73.7	157.3	87,500
	60	71.7	155.6	73,100
	65	69.7	153.6	61,400
	70	67.7	151.5	51,700
	75	65.7	149.1	43,500
	80	63.6	146.6	36,500
	85	61.5	143.8	30,400
	90	59.3	140.7	25,100
	95	57.1	137.4	20,500
	100	54.8	133.7	16,400
	105	52.5	129.8	12,700

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
1 6 5	32	82.9	173.1	198,400*
	34	82.2	172.8	185,900
	36	81.5	172.4	165,100
	38	80.8	172.1	147,400
	40	80.1	171.7	132,200
	42	79.4	171.2	119,000
	44	78.7	170.8	107,400
	46	77.9	170.3	97,100
	48	77.2	169.8	88,000
	50	76.5	169.3	79,800
	55	74.7	167.8	62,600
	60	72.9	166.2	48,900
	65	71.0	164.4	37,800
	70	69.2	162.4	28,500
	75	67.3	160.2	20,800
	80	65.4	157.8	14,100

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE

BOOM NO. 44 WITH 5' TOP

100' LUFFING JIB NO. 133A

SET AT 160 DEGREE BOOM TO LUFFING JIB ANGLE

167,000 LB. COUNTERWEIGHT

360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
85	22	83.0	93.7	291,700*
	23	82.3	93.5	290,500*
	24	81.6	93.3	289,400*
	25	80.9	93.1	288,300*
	26	80.2	92.9	287,300*
	27	79.5	92.7	286,300*
	28	78.9	92.4	285,300*
	29	78.2	92.1	284,200*
	30	77.5	91.9	271,900
	32	76.1	91.3	240,100
	34	74.6	90.6	213,800
	36	73.2	89.9	191,800
	38	71.8	89.1	173,100
	40	70.3	88.3	157,000
	42	68.8	87.4	143,000
	44	67.4	86.5	130,800
	46	65.8	85.4	119,900
	48	64.3	84.4	110,200
	50	62.8	83.2	101,600
	55	58.8	80.0	83,300
95	60	54.6	76.3	68,900
	65	50.1	71.9	57,100
	70	45.3	66.7	47,300
	75	39.9	60.6	39,000
	80	33.8	53.0	32,000
	85	26.3	43.0	25,900
	24	82.5	103.5	289,500*
	25	81.9	103.3	287,800*
	26	81.3	103.1	286,100*
	27	80.7	102.9	284,400*
	28	80.1	102.7	282,800*
	29	79.4	102.4	281,300*
	30	78.8	102.2	273,700
	32	77.6	101.7	241,700
	34	76.3	101.1	215,400
	36	75.0	100.5	193,300
	38	73.8	99.8	174,600
	40	72.5	99.1	158,400
	42	71.2	98.3	144,400
	44	69.9	97.4	132,100
	46	68.6	96.6	121,200
	48	67.3	95.6	111,500
	50	65.9	94.6	102,800
	55	62.5	91.9	84,500
	60	58.9	88.7	70,000
	65	55.2	85.0	58,200
	70	51.2	80.9	48,400
	75	47.1	76.0	40,100
	80	42.5	70.4	33,000
	85	37.5	63.8	26,900
	90	31.8	55.6	21,500

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
105	25	82.7	113.5	284,100*
	26	82.1	113.3	282,600*
	27	81.6	113.1	281,200*
	28	81.0	112.9	279,800*
	29	80.5	112.7	278,400*
	30	79.9	112.5	274,900
	32	78.8	112.0	242,900
	34	77.7	111.5	216,500
	36	76.5	110.9	194,400
	38	75.4	110.3	175,700
	40	74.2	109.7	159,500
	42	73.1	109.0	145,400
	44	71.9	108.2	133,100
	46	70.7	107.4	122,200
	48	69.6	106.6	112,500
	50	68.4	105.7	103,800
	55	65.3	103.3	85,500
	60	62.2	100.5	70,900
	65	59.0	97.4	59,100
	70	55.7	93.8	49,300
115	75	52.2	89.8	41,000
	80	48.5	85.2	33,900
	85	44.5	79.9	27,800
	90	40.2	73.9	22,500
	95	35.5	66.7	17,700
	100	30.0	58.1	13,500
	26	82.8	123.5	279,600*
	27	82.3	123.3	278,400*
	28	81.8	123.1	277,200*
	29	81.3	122.9	276,000*
	30	80.8	122.7	274,900*
	32	79.8	122.3	244,000
	34	78.8	121.8	217,600
	36	77.7	121.3	195,400
	38	76.7	120.7	176,600
	40	75.7	120.1	160,400
	42	74.6	119.5	146,300
	44	73.6	118.8	133,900
	46	72.5	118.1	123,000
	48	71.4	117.4	113,200
	50	70.4	116.6	104,500
	55	67.7	114.4	86,200
	60	64.9	111.9	71,600
	65	62.0	109.1	59,700
	70	59.1	106.0	49,800
	75	56.1	102.5	41,500
	80	52.9	98.6	34,400
	85	49.6	94.2	28,300
	90	46.1	89.2	22,900
	95	42.3	83.6	18,200
	100	38.3	77.2	14,000
	105	33.7	69.6	10,200

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
125	27	82.9	133.4	257,700*
	28	82.5	133.2	255,900*
	29	82.0	133.1	254,100*
	30	81.5	132.9	252,400*
	32	80.6	132.5	244,700
	34	79.7	132.1	218,200
	36	78.7	131.6	196,000
	38	77.8	131.1	177,200
	40	76.8	130.5	160,900
	42	75.9	130.0	146,800
	44	74.9	129.4	134,500
	46	74.0	128.7	123,500
	48	73.0	128.0	113,700
	50	72.0	127.3	105,000
	55	69.6	125.3	86,600
	60	67.0	123.1	72,000
	65	64.5	120.6	60,200
	70	61.9	117.8	50,300
	75	59.2	114.7	42,000
	80	56.4	111.2	34,900
135	85	53.5	107.4	28,700
	90	50.5	103.2	23,400
	95	47.3	98.4	18,600
	100	44.0	93.1	14,400
	105	40.4	87.1	10,700
	28	83.0	143.4	250,800*
	29	82.6	143.2	249,300*
	30	82.2	143.0	247,800*
	32	81.3	142.7	245,100*
	34	80.4	142.3	218,800
	36	79.6	141.8	196,600
	38	78.7	141.4	177,700
	40	77.8	140.9	161,400
	42	77.0	140.4	147,300
	44	76.1	139.8	134,900
	46	75.2	139.2	123,900
	48	74.3	138.6	114,100
	50	73.4	137.9	105,300
	55	71.2	136.1	86,900
	60	68.9	134.1	72,300
	65	66.5	131.8	60,400
	70	64.2	129.2	50,500
	75	61.7	126.4	42,100
	80	59.2	123.4	35,000
	85	56.7	120.0	28,900
	90	54.0	116.2	23,500
	95	51.3	112.1	18,700
	100	48.4	107.5	14,500
	105	45.4	102.5	10,800

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE

BOOM NO. 44 WITH 5' TOP

100' LUFFING JIB NO. 133A

SET AT 160 DEGREE BOOM TO LUFFING JIB ANGLE

167,000 LB. COUNTERWEIGHT

360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
1 4 5	30	82.7	153.2	243,700*
	32	81.9	152.8	241,300*
	34	81.1	152.5	219,400
	36	80.3	152.1	197,100
	38	79.5	151.6	178,200
	40	78.7	151.2	161,900
	42	77.9	150.7	147,800
	44	77.1	150.2	135,400
	46	76.2	149.6	124,400
	48	75.4	149.0	114,600
	50	74.6	148.4	105,900
	55	72.5	146.8	87,500
	60	70.4	144.9	72,800
	65	68.3	142.8	60,900
	70	66.1	140.5	51,000
	75	63.9	137.9	42,700
	80	61.6	135.1	35,600
	85	59.3	132.0	29,400
	90	56.9	128.7	24,000
	95	54.5	125.0	19,300
	100	51.9	121.0	15,100
	105	49.3	116.5	11,300

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
1 5 5	32	82.4	163.0	214,400
	34	81.7	162.6	189,000
	36	80.9	162.3	167,700
	38	80.2	161.9	149,600
	40	79.4	161.4	134,000
	42	78.7	161.0	120,500
	44	77.9	160.5	108,600
	46	77.2	160.0	98,100
	48	76.4	159.4	88,800
	50	75.6	158.9	80,400
	55	73.7	157.3	62,700
	60	71.7	155.6	48,700
	65	69.7	153.6	37,300
	70	67.7	151.5	27,900
	75	65.7	149.1	19,900
	80	63.6	146.6	13,100

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
1 6 5	32	82.9	173.1	208,000*
	34	82.2	172.8	189,100
	36	81.5	172.4	167,800
	38	80.8	172.1	149,700
	40	80.1	171.7	134,100
	42	79.4	171.2	120,600
	44	78.7	170.8	108,700
	46	77.9	170.3	98,200
	48	77.2	169.8	88,800
	50	76.5	169.3	80,400
	55	74.7	167.8	62,700
	60	72.9	166.2	48,700
	65	71.0	164.4	37,300
	70	69.2	162.4	27,800
	75	67.3	160.2	19,800
	80	65.4	157.8	13,000

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE

BOOM NO. 44 WITH 5' TOP

110' LUFFING JIB NO. 133A

SET AT 160 DEGREE BOOM TO LUFFING JIB ANGLE

167,000 LB. COUNTERWEIGHT

360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
8 5	22	83.0	93.7	287,400*
	23	82.3	93.5	286,200*
	24	81.6	93.3	284,900*
	25	80.9	93.1	283,800*
	26	80.2	92.9	282,700*
	27	79.5	92.7	281,600*
	28	78.9	92.4	280,600*
	29	78.2	92.1	279,500*
	30	77.5	91.9	266,500
	32	76.1	91.3	234,900
	34	74.6	90.6	208,900
	36	73.2	89.9	187,100
	38	71.8	89.1	168,600
	40	70.3	88.3	152,600
	42	68.8	87.4	138,800
	44	67.4	86.5	126,600
	46	65.8	85.4	115,900
	48	64.3	84.4	106,300
	50	62.8	83.2	97,700
	55	58.8	80.0	79,700
9 5	60	54.6	76.3	65,300
	65	50.1	71.9	53,700
	70	45.3	66.7	44,000
	75	39.9	60.6	35,900
	80	33.8	53.0	28,900
	85	26.3	43.0	22,400*
	24	82.5	103.5	285,400*
	25	81.9	103.3	283,600*
	26	81.3	103.1	281,800*
	27	80.7	102.9	280,100*
	28	80.1	102.7	278,500*
	29	79.4	102.4	276,900*
	30	78.8	102.2	268,400
	32	77.6	101.7	236,700
	34	76.3	101.1	210,600
	36	75.0	100.5	188,800
	38	73.8	99.8	170,200
	40	72.5	99.1	154,200
	42	71.2	98.3	140,300
	44	69.9	97.4	128,100
	46	68.6	96.6	117,300
1 1 5	48	67.3	95.6	107,700
	50	65.9	94.6	99,100
	55	62.5	91.9	81,000
	60	58.9	88.7	66,600
	65	55.2	85.0	54,900
	70	51.2	80.9	45,200
	75	47.1	76.0	37,100
	80	42.5	70.4	30,100
	85	37.5	63.8	24,000
	90	31.8	55.6	18,800
	26	82.8	123.5	275,700*
	27	82.3	123.3	274,400*
	28	81.8	123.1	273,100*
	29	81.3	122.9	271,900*
	30	80.8	122.7	270,800*
1 3 5	32	79.8	122.3	239,300
	34	78.8	121.8	213,100
	36	77.7	121.3	191,100
	38	76.7	120.7	172,500
	40	75.7	120.1	156,400
	42	74.6	119.5	142,500
	44	73.6	118.8	130,200
	46	72.5	118.1	119,400
	48	71.4	117.4	109,700
	50	70.4	116.6	101,100
	55	67.7	114.4	82,900
	60	64.9	111.9	68,400
	65	62.0	109.1	56,700
	70	59.1	106.0	46,900
	75	56.1	102.5	38,700
1 0 5	80	52.9	98.6	31,700
	85	49.6	94.2	25,600
	90	46.1	89.2	20,300
	95	42.3	83.6	15,700
	100	38.3	77.2	11,500
	25	82.7	113.5	280,000*
1 0 5	26	82.1	113.3	278,500*
	27	81.6	113.1	277,000*
	28	81.0	112.9	275,600*
	29	80.5	112.7	274,200*
	30	79.9	112.5	269,800
	32	78.8	112.0	238,000
	34	77.7	111.5	211,900
	36	76.5	110.9	190,000
	38	75.4	110.3	171,400
	40	74.2	109.7	155,400
	42	73.1	109.0	141,500
	44	71.9	108.2	129,300
	46	70.7	107.4	118,500
	48	69.6	106.6	108,900
1 2 5	50	68.4	105.7	100,200
	55	65.3	103.3	82,100
	60	62.2	100.5	67,700
	65	59.0	97.4	56,000
	70	55.7	93.8	46,300
	75	52.2	89.8	38,100
	80	48.5	85.2	31,100
	85	44.5	79.9	25,000
	90	40.2	73.9	19,800
	95	35.5	66.7	15,100
	100	30.0	58.1	11,000
	27	82.9	133.4	253,900*
	28	82.5	133.2	252,100*
	29	82.0	133.1	250,400*
	30	81.5	132.9	248,600*
1 2 5	32	80.6	132.5	240,000
	34	79.7	132.1	213,800
	36	78.7	131.6	191,800
	38	77.8	131.1	173,100
	40	76.8	130.5	157,100
	42	75.9	130.0	143,100
	44	74.9	129.4	130,800
	46	74.0	128.7	120,000
	48	73.0	128.0	110,300
	50	72.0	127.3	101,700
	55	69.6	125.3	83,500
	60	67.0	123.1	69,000
	65	64.5	120.6	57,200
	70	61.9	117.8	47,500
	75	59.2	114.7	39,300
	80	56.4	111.2	32,200
1 3 5	85	53.5	107.4	26,100
	90	50.5	103.2	20,800
	95	47.3	98.4	16,200
	100	44.0	93.1	12,000
	28	83.0	143.4	247,100*
	29	82.6	143.2	245,600*
	30	82.2	143.0	244,100*
	32	81.3	142.7	240,900
	34	80.4	142.3	214,500
	36	79.6	141.8	192,500
	38	78.7	141.4	173,800
	40	77.8	140.9	157,700
	42	77.0	140.4	143,600
	44	76.1	139.8	131,300
	46	75.2	139.2	120,500
	48	74.3	138.6	110,800
	50	73.4	137.9	102,100
	55	71.2	136.1	83,800
	60	68.9	134.1	69,300
	65	66.5	131.8	57,500
	70	64.2	129.2	47,700
	75	61.7	126.4	39,500
	80	59.2	123.4	32,400
	85	56.7	120.0	26,300
	90	54.0	116.2	21,000
	95	51.3	112.1	16,300
	100	48.4	107.5	12,200

MANITOWOC ENGINEERING CO.

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



LIFTCRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE

BOOM NO. 44 WITH 5' TOP

110' LUFFING JIB NO. 133A

SET AT 160 DEGREE BOOM TO LUFFING JIB ANGLE

167,000 LB. COUNTERWEIGHT

360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
1 4 5	30	82.7	153.2	238,500*
	32	81.9	152.8	208,100
	34	81.1	152.5	183,100
	36	80.3	152.1	162,100
	38	79.5	151.6	144,300
	40	78.7	151.2	128,900
	42	77.9	150.7	115,600
	44	77.1	150.2	103,900
	46	76.2	149.6	93,600
	48	75.4	149.0	84,300
	50	74.6	148.4	76,100
	55	72.5	146.8	58,700
	60	70.4	144.9	44,900
	65	68.3	142.8	33,700
	70	66.1	140.5	24,400
	75	63.9	137.9	16,500

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
1 5 5	32	82.4	163.0	208,800
	34	81.7	162.6	183,600
	36	80.9	162.3	162,600
	38	80.2	161.9	144,700
	40	79.4	161.4	129,300
	42	78.7	161.0	116,000
	44	77.9	160.5	104,200
	46	77.2	160.0	93,800
	48	76.4	159.4	84,600
	50	75.6	158.9	76,300
	55	73.7	157.3	58,900
	60	71.7	155.6	45,000
	65	69.7	153.6	33,800
	70	67.7	151.5	24,400
	75	65.7	149.1	16,600

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
1 6 5	32	82.9	173.1	204,600*
	34	82.2	172.8	183,900
	36	81.5	172.4	162,800
	38	80.8	172.1	144,900
	40	80.1	171.7	129,500
	42	79.4	171.2	116,100
	44	78.7	170.8	104,300
	46	77.9	170.3	93,900
	48	77.2	169.8	84,700
	50	76.5	169.3	76,400
	55	74.7	167.8	58,900
	60	72.9	166.2	45,100
	65	71.0	164.4	33,800
	70	69.2	162.4	24,500
	75	67.3	160.2	16,600

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE

BOOM NO. 44 WITH 5' TOP

120' LUFFING JIB NO. 133A

SET AT 168 DEGREE BOOM TO LUFFING JIB ANGLE

167,000 LB. COUNTERWEIGHT

360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
85	22	83.0	93.7	290,700*
	23	82.3	93.5	289,300*
	24	81.6	93.3	288,000*
	25	80.9	93.1	286,700*
	26	80.2	92.9	285,500*
	27	79.5	92.7	284,300*
	28	78.9	92.4	283,100*
	29	78.2	92.1	282,000*
	30	77.5	91.9	270,500
	32	76.1	91.3	238,200
	34	74.6	90.6	211,600
	36	73.2	89.9	189,200
	38	71.8	89.1	170,300
	40	70.3	88.3	153,900
	42	68.8	87.4	139,700
	44	67.4	86.5	127,300
	46	65.8	85.4	116,200
	48	64.3	84.4	106,400
	50	62.8	83.2	97,600
	55	58.8	80.0	79,100
	60	54.6	76.3	64,300
95	65	50.1	71.9	52,300
	70	45.3	66.7	42,300
	75	39.9	60.6	33,900
	80	33.8	53.0	26,600
	85	26.3	43.0	19,000*
	24	82.5	103.5	290,500*
	25	81.9	103.3	289,200*
	26	81.3	103.1	287,800*
	27	80.7	102.9	286,300*
	28	80.1	102.7	284,700*
	29	79.4	102.4	283,100*
	30	78.8	102.2	272,700
	32	77.6	101.7	240,300
	34	76.3	101.1	213,600
	36	75.0	100.5	191,200
	38	73.8	99.8	172,200
	40	72.5	99.1	155,800
	42	71.2	98.3	141,600
	44	69.9	97.4	129,100
	46	68.6	96.6	118,000
	48	67.3	95.6	108,200
	50	65.9	94.6	99,300
	55	62.5	91.9	80,800
	60	58.9	88.7	66,000

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
95	65	55.2	85.0	54,000
	70	51.2	80.9	44,000
	75	47.1	76.0	35,500
	80	42.5	70.4	28,300
	85	37.5	63.8	22,000
	90	31.8	55.6	16,500
105	25	82.7	113.5	286,400*
	26	82.1	113.3	284,700*
	27	81.6	113.1	283,100*
	28	81.0	112.9	281,600*
	29	80.5	112.7	280,100*
	30	79.9	112.5	274,300
	32	78.8	112.0	241,900
	34	77.7	111.5	215,100
	36	76.5	110.9	192,700
	38	75.4	110.3	173,700
	40	74.2	109.7	157,300
	42	73.1	109.0	143,000
	44	71.9	108.2	130,500
	46	70.7	107.4	119,400
	48	69.6	106.6	109,600
	50	68.4	105.7	100,700
	55	65.3	103.3	82,100
	60	62.2	100.5	67,400
	65	59.0	97.4	55,300
	70	55.7	93.8	45,300
115	75	52.2	89.8	36,900
	80	48.5	85.2	29,700
	85	44.5	79.9	23,400
	90	40.2	73.9	18,000
	95	35.5	66.7	13,100
	26	82.8	123.5	281,700*
	27	82.3	123.3	280,300*
	28	81.8	123.1	279,000*
	29	81.3	122.9	277,600*
	30	80.8	122.7	275,900
	32	79.8	122.3	243,300
	34	78.8	121.8	216,500
	36	77.7	121.3	194,000
	38	76.7	120.7	174,900
	40	75.7	120.1	158,500
	42	74.6	119.5	144,200
	44	73.6	118.8	131,600
	46	72.5	118.1	120,500
	48	71.4	117.4	110,600
	50	70.4	116.6	101,800
	55	67.7	114.4	83,100
	60	64.9	111.9	68,300
	65	62.0	109.1	56,300

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
115	70	59.1	106.0	46,300
	75	56.1	102.5	37,800
	80	52.9	98.6	30,600
	85	49.6	94.2	24,300
	90	46.1	89.2	18,900
	95	42.3	83.6	14,000
125	27	82.9	133.4	262,800*
	28	82.5	133.2	260,800*
	29	82.0	133.1	258,900*
	30	81.5	132.9	257,100*
	32	80.6	132.5	244,200
	34	79.7	132.1	217,400
	36	78.7	131.6	194,900
	38	77.8	131.1	175,700
	40	76.8	130.5	159,300
	42	75.9	130.0	145,000
	44	74.9	129.4	132,400
	46	74.0	128.7	121,300
	48	73.0	128.0	111,400
	50	72.0	127.3	102,500
	55	69.6	125.3	83,900
	60	67.0	123.1	69,100
	65	64.5	120.6	57,000
	70	61.9	117.8	47,000
	75	59.2	114.7	38,600
	80	56.4	111.2	31,300
135	85	53.5	107.4	25,100
	90	50.5	103.2	19,600
	95	47.3	98.4	14,800
	100	44.0	93.1	10,500
	28	83.0	143.4	255,400*
	29	82.6	143.2	253,800*
	30	82.2	143.0	244,100
	32	81.3	142.7	212,700
	34	80.4	142.3	187,000
	36	79.6	141.8	165,400
	38	78.7	141.4	147,000
	40	77.8	140.9	131,200
	42	77.0	140.4	117,400
	44	76.1	139.8	105,300
	46	75.2	139.2	94,700
	48	74.3	138.6	85,200
	50	73.4	137.9	76,600
	55	71.2	136.1	58,700
	60	68.9	134.1	44,400
	65	66.5	131.8	32,800
	70	64.2	129.2	23,200
	75	61.7	126.4	15,000

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE

BOOM NO. 44 WITH 5' TOP

120' LUFFING JIB NO. 133A

SET AT 168 DEGREE BOOM TO LUFFING JIB ANGLE

167,000 LB. COUNTERWEIGHT

360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
1 4 5	30	82.7	153.2	244,900
	32	81.9	152.8	213,600
	34	81.1	152.5	187,800
	36	80.3	152.1	166,200
	38	79.5	151.6	147,900
	40	78.7	151.2	132,100
	42	77.9	150.7	118,300
	44	77.1	150.2	106,300
	46	76.2	149.6	95,600
	48	75.4	149.0	86,100
	50	74.6	148.4	77,500
	55	72.5	146.8	59,600
	60	70.4	144.9	45,400
	65	68.3	142.8	33,800
	70	66.1	140.5	24,100
	75	63.9	137.9	16,000

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
1 5 5	32	82.4	163.0	214,400
	34	81.7	162.6	188,500
	36	80.9	162.3	166,900
	38	80.2	161.9	148,400
	40	79.4	161.4	132,600
	42	78.7	161.0	118,800
	44	77.9	160.5	106,700
	46	77.2	160.0	96,000
	48	76.4	159.4	86,400
	50	75.6	158.9	77,900
	55	73.7	157.3	59,900
	60	71.7	155.6	45,600
	65	69.7	153.6	34,000
	70	67.7	151.5	24,300
	75	65.7	149.1	16,200

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
1 6 5	32	82.9	173.1	214,800
	34	82.2	172.8	188,900
	36	81.5	172.4	167,200
	38	80.8	172.1	148,700
	40	80.1	171.7	132,900
	42	79.4	171.2	119,000
	44	78.7	170.8	106,900
	46	77.9	170.3	96,200
	48	77.2	169.8	86,700
	50	76.5	169.3	78,100
	55	74.7	167.8	60,100
	60	72.9	166.2	45,800
	65	71.0	164.4	34,200
	70	69.2	162.4	24,500
	75	67.3	160.2	16,300

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE

BOOM NO. 44 WITH 5' TOP

130' LUFFING JIB NO. 133A

SET AT 168 DEGREE BOOM TO LUFFING JIB ANGLE

167,000 LB. COUNTERWEIGHT

360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
85	22	83.0	93.7	288,000*
	23	82.3	93.5	286,500*
	24	81.6	93.3	285,100*
	25	80.9	93.1	283,700*
	26	80.2	92.9	282,400*
	27	79.5	92.7	281,100*
	28	78.9	92.4	279,900*
	29	78.2	92.1	278,700*
	30	77.5	91.9	266,700
	32	76.1	91.3	234,500
	34	74.6	90.6	208,000
	36	73.2	89.9	185,900
	38	71.8	89.1	167,000
	40	70.3	88.3	150,800
	42	68.8	87.4	136,600
	44	67.4	86.5	124,200
	46	65.8	85.4	113,300
	48	64.3	84.4	103,500
	50	62.8	83.2	94,700
	55	58.8	80.0	76,300
95	60	54.6	76.3	61,700
	65	50.1	71.9	49,800
	70	45.3	66.7	39,800
	75	39.9	60.6	31,500
	80	33.8	53.0	24,300
	85	26.3	43.0	16,000*
	24	82.5	103.5	287,800*
	25	81.9	103.3	286,400*
	26	81.3	103.1	285,000*
	27	80.7	102.9	283,500*
	28	80.1	102.7	281,900*
	29	79.4	102.4	280,200*
	30	78.8	102.2	269,100
	32	77.6	101.7	236,800
	34	76.3	101.1	210,200
	36	75.0	100.5	188,000
105	38	73.8	99.8	169,100
	40	72.5	99.1	152,800
	42	71.2	98.3	138,600
	44	69.9	97.4	126,200
	46	68.6	96.6	115,200
	48	67.3	95.6	105,400
	50	65.9	94.6	96,600
	55	62.5	91.9	78,200
	60	58.9	88.7	63,500
	65	55.2	85.0	51,600
	70	51.2	80.9	41,600
	75	47.1	76.0	33,300
	80	42.5	70.4	26,100
	85	37.5	63.8	19,900
	90	31.8	55.6	14,400
105	25	82.7	113.5	283,900*
	26	82.1	113.3	282,200*
	27	81.6	113.1	280,500*
	28	81.0	112.9	278,900*
	29	80.5	112.7	277,300*
	30	79.9	112.5	270,800
	32	78.8	112.0	238,500
	34	77.7	111.5	211,900
105	36	76.5	110.9	189,600
	38	75.4	110.3	170,700
	40	74.2	109.7	154,400
	42	73.1	109.0	140,200
	44	71.9	108.2	127,800

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
105	46	70.7	107.4	116,800
	48	69.6	106.6	107,000
	50	68.4	105.7	98,200
	55	65.3	103.3	79,700
	60	62.2	100.5	65,000
	65	59.0	97.4	53,100
	70	55.7	93.8	43,100
	75	52.2	89.8	34,800
	80	48.5	85.2	27,600
	85	44.5	79.9	21,400
115	90	40.2	73.9	16,000
	95	35.5	66.7	11,200
115	26	82.8	123.5	279,200*
	27	82.3	123.3	277,800*
	28	81.8	123.1	276,400*
	29	81.3	122.9	275,100*
	30	80.8	122.7	272,400
	32	79.8	122.3	240,100
	34	78.8	121.8	213,400
	36	77.7	121.3	191,000
	38	76.7	120.7	172,100
	40	75.7	120.1	155,700
	42	74.6	119.5	141,500
	44	73.6	118.8	129,000
	46	72.5	118.1	118,000
	48	71.4	117.4	108,200
	50	70.4	116.6	99,300
	55	67.7	114.4	80,800
125	60	64.9	111.9	66,100
	65	62.0	109.1	54,100
	70	59.1	106.0	44,200
	75	56.1	102.5	35,800
	80	52.9	98.6	28,600
	85	49.6	94.2	22,400
	90	46.1	89.2	16,900
	95	42.3	83.6	12,100
125	27	82.9	133.4	260,500*
	28	82.5	133.2	258,500*
	29	82.0	133.1	256,600*
	30	81.5	132.9	238,700
	32	80.6	132.5	207,700
	34	79.7	132.1	182,200
	36	78.7	131.6	160,800
	38	77.8	131.1	142,600
	40	76.8	130.5	126,900
	42	75.9	130.0	113,300
	44	74.9	129.4	101,400
	46	74.0	128.7	90,800
	48	73.0	128.0	81,400
	50	72.0	127.3	72,900
	55	69.6	125.3	55,200
	60	67.0	123.1	41,100
135	65	64.5	120.6	29,600
	70	61.9	117.8	20,000
	75	59.2	114.7	12,000
135	28	83.0	143.4	253,200*
	29	82.6	143.2	251,500*
	30	82.2	143.0	240,000
	32	81.3	142.7	208,900
	34	80.4	142.3	183,300
	36	79.6	141.8	161,800
	38	78.7	141.4	143,600
	40	77.8	140.9	127,900

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
135	42	77.0	140.4	114,200
	44	76.1	139.8	102,200
	46	75.2	139.2	91,600
	48	74.3	138.6	82,200
	50	73.4	137.9	73,700
	55	71.2	136.1	55,900
	60	68.9	134.1	41,700
	65	66.5	131.8	30,200
	70	64.2	129.2	20,600
	75	61.7	126.4	12,600
145	30	82.7	153.2	240,900
	32	81.9	152.8	209,800
	34	81.1	152.5	184,200
	36	80.3	152.1	162,800
	38	79.5	151.6	144,500
	40	78.7	151.2	128,800
	42	77.9	150.7	115,200
	44	77.1	150.2	103,200
	46	76.2	149.6	92,600
	48	75.4	149.0	83,200
	50	74.6	148.4	74,700
	55	72.5	146.8	56,900
	60	70.4	144.9	42,800
	65	68.3	142.8	31,300
	70	66.1	140.5	21,700
	75	63.9	137.9	13,600
155	32	82.4	163.0	210,700
	34	81.7	162.6	185,000
	36	80.9	162.3	163,500
	38	80.2	161.9	145,200
	40	79.4	161.4	129,400
	42	78.7	161.0	115,700
	44	77.9	160.5	103,700
	46	77.2	160.0	93,100
	48	76.4	159.4	83,600
	50	75.6	158.9	75,100
	55	73.7	157.3	57,300
	60	71.7	155.6	43,100
	65	69.7	153.6	31,600
	70	67.7	151.5	22,000
	75	65.7	149.1	13,900
165	32	82.9	173.1	211,100
	34	82.2	172.8	185,400
	36	81.5	172.4	163,800
	38	80.8	172.1	145,500
	40	80.1	171.7	129,800
	42	79.4	171.2	116,100
	44	78.7	170.8	104,000
	46	77.9	170.3	93,400
	48	77.2	169.8	83,900
	50	76.5	169.3	75,400
	55	74.7	167.8	57,500
	60	72.9	166.2	43,300
	65	71.0	164.4	31,800
	70	69.2	162.4	22,200
	75	67.3	160.2	14,100

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE

BOOM NO. 44 WITH 5' TOP

140' LUFFING JIB NO. 133A

SET AT 168 DEGREE BOOM TO LUFFING JIB ANGLE

167,000 LB. COUNTERWEIGHT

360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
85	22	83.0	93.7	283,500*
	23	82.3	93.5	281,900*
	24	81.6	93.3	280,400*
	25	80.9	93.1	278,900*
	26	80.2	92.9	277,500*
	27	79.5	92.7	276,100*
	28	78.9	92.4	274,800*
	29	78.2	92.1	273,500*
	30	77.5	91.9	261,700
	32	76.1	91.3	229,800
	34	74.6	90.6	203,400
	36	73.2	89.9	181,400
	38	71.8	89.1	162,600
	40	70.3	88.3	146,400
	42	68.8	87.4	132,400
	44	67.4	86.5	120,100
	46	65.8	85.4	109,200
	48	64.3	84.4	99,500
	50	62.8	83.2	90,800
	55	58.8	80.0	72,500
95	60	54.6	76.3	57,900
	65	50.1	71.9	46,100
	70	45.3	66.7	36,200
	75	39.9	60.6	27,900
	80	33.8	53.0	20,800
	85	26.3	43.0	11,600*
	24	82.5	103.5	283,300*
	25	81.9	103.3	281,900*
	26	81.3	103.1	280,400*
	27	80.7	102.9	278,900*
	28	80.1	102.7	277,300*
	29	79.4	102.4	275,700*
	30	78.8	102.2	264,300
	32	77.6	101.7	232,200
	34	76.3	101.1	205,800
	36	75.0	100.5	183,700
	38	73.8	99.8	164,900
	40	72.5	99.1	148,700
	42	71.2	98.3	134,600
	44	69.9	97.4	122,300
	46	68.6	96.6	111,300
105	48	67.3	95.6	101,600
	50	65.9	94.6	92,900
	55	62.5	91.9	74,500
	60	58.9	88.7	59,900
	65	55.2	85.0	48,100
	70	51.2	80.9	38,200
	75	47.1	76.0	29,900
	80	42.5	70.4	22,800
	85	37.5	63.8	16,600
	90	31.8	55.6	11,200
	25	82.7	113.5	279,800*
	26	82.1	113.3	278,000*
	27	81.6	113.1	276,300*
	28	81.0	112.9	274,600*
	29	80.5	112.7	273,000*
	30	79.9	112.5	266,200
	32	78.8	112.0	234,100
	34	77.7	111.5	207,700
	36	76.5	110.9	185,500
	38	75.4	110.3	166,700
	40	74.2	109.7	150,500

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
105	42	73.1	109.0	136,400
	44	71.9	108.2	124,000
	46	70.7	107.4	113,100
	48	69.6	106.6	103,300
	50	68.4	105.7	94,600
	55	65.3	103.3	76,200
	60	62.2	100.5	61,600
	65	59.0	97.4	49,700
	70	55.7	93.8	39,900
	75	52.2	89.8	31,600
115	80	48.5	85.2	24,400
	85	44.5	79.9	18,300
	90	40.2	73.9	12,900
	26	82.8	123.5	275,200*
	27	82.3	123.3	273,700*
	28	81.8	123.1	270,000
	29	81.3	122.9	249,900
	30	80.8	122.7	231,900
	32	79.8	122.3	201,100
	34	78.8	121.8	175,800
125	36	77.7	121.3	154,500
	38	76.7	120.7	136,500
	40	75.7	120.1	121,000
	42	74.6	119.5	107,400
	44	73.6	118.8	95,600
	46	72.5	118.1	85,100
	48	71.4	117.4	75,800
	50	70.4	116.6	67,400
	55	67.7	114.4	49,800
	60	64.9	111.9	35,800
135	65	62.0	109.1	24,400
	70	59.1	106.0	14,900
	27	82.9	133.4	256,800*
	28	82.5	133.2	254,800*
	29	82.0	133.1	251,300
	30	81.5	132.9	233,300
	32	80.6	132.5	202,500
	34	79.7	132.1	177,100
	36	78.7	131.6	155,800
	38	77.8	131.1	137,800
145	40	76.8	130.5	122,200
	42	75.9	130.0	108,700
	44	74.9	129.4	96,800
	46	74.0	128.7	86,300
	48	73.0	128.0	77,000
	50	72.0	127.3	68,600
	55	69.6	125.3	51,000
	60	67.0	123.1	37,000
	65	64.5	120.6	25,600
	70	61.9	117.8	16,100
155	28	83.0	143.4	249,600*
	29	82.6	143.2	247,900*
	30	82.2	143.0	234,600
	32	81.3	142.7	203,700
	34	80.4	142.3	178,300
	36	79.6	141.8	157,000
	38	78.7	141.4	138,900
	40	77.8	140.9	123,300
	42	77.0	140.4	109,700
	44	76.1	139.8	97,800
165	46	75.2	139.2	87,300

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
135	48	74.3	138.6	77,900
	50	73.4	137.9	69,500
	55	71.2	136.1	51,800
	60	68.9	134.1	37,800
	65	66.5	131.8	26,300
145	70	64.2	129.2	16,800
155	30	82.7	153.2	235,700
	32	81.9	152.8	204,800
	34	81.1	152.5	179,400
	36	80.3	152.1	158,100
	38	79.5	151.6	139,900
	40	78.7	151.2	124,400
	42	77.9	150.7	110,800
	44	77.1	150.2	98,900
	46	76.2	149.6	88,400
	48	75.4	149.0	79,000
165	50	74.6	148.4	70,600
	55	72.5	146.8	52,900
	60	70.4	144.9	38,900
	65	68.3	142.8	27,500
	70	66.1	140.5	18,000
	75	63.9	137.9	10,000
175	32	82.4	163.0	205,800
	34	81.7	162.6	180,200
	36	80.9	162.3	158,900
	38	80.2	161.9	140,700
	40	79.4	161.4	125,100
	42	78.7	161.0	111,500
	44	77.9	160.5	99,500
	46	77.2	160.0	89,000
	48	76.4	159.4	79,600
	50	75.6	158.9	71,100
185	55	73.7	157.3	53,400
	60	71.7	155.6	39,300
	65	69.7	153.6	27,900
	70	67.7	151.5	18,400
	75	65.7	149.1	10,300
195	32	82.9	173.1	206,300
	34	82.2	172.8	180,700
	36	81.5	172.4	159,300
	38	80.8	172.1	141,100
	40	80.1	171.7	125,500
	42	79.4	171.2	111,900
	44	78.7	170.8	99,900
	46	77.9	170.3	89,400
	48	77.2	169.8	79,900
	50	76.5	169.3	71,500
205	55	74.7	167.8	53,800
	60	72.9	166.2	39,700
	65	71.0	164.4	28,200
	70	69.2	162.4	18,700
	75	67.3	160.2	10,600

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE

BOOM NO. 44 WITH 5' TOP

150' LUFFING JIB NO. 133A

SET AT 168 DEGREE BOOM TO LUFFING JIB ANGLE

167,000 LB. COUNTERWEIGHT

360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
85	22	83.0	93.7	279,600*
	23	82.3	93.5	277,900*
	24	81.6	93.3	276,300*
	25	80.9	93.1	274,700*
	26	80.2	92.9	273,200*
	27	79.5	92.7	271,700*
	28	78.9	92.4	270,200*
	29	78.2	92.1	268,900*
	30	77.5	91.9	256,700
	32	76.1	91.3	224,900
	34	74.6	90.6	198,700
	36	73.2	89.9	176,800
	38	71.8	89.1	158,200
	40	70.3	88.3	142,100
	42	68.8	87.4	128,200
	44	67.4	86.5	116,000
	46	65.8	85.4	105,100
	48	64.3	84.4	95,500
	50	62.8	83.2	86,800
	55	58.8	80.0	68,700
95	60	54.6	76.3	54,200
	65	50.1	71.9	42,500
	70	45.3	66.7	32,700
	75	39.9	60.6	24,500
	80	33.8	53.0	17,400
	24	82.5	103.5	279,400*
	25	81.9	103.3	277,900*
	26	81.3	103.1	276,400*
	27	80.7	102.9	274,900*
	28	80.1	102.7	273,300*
	29	79.4	102.4	271,600*
	30	78.8	102.2	259,500
	32	77.6	101.7	227,600
	34	76.3	101.1	201,400
	36	75.0	100.5	179,400
	38	73.8	99.8	160,700
	40	72.5	99.1	144,600
	42	71.2	98.3	130,600
	44	69.9	97.4	118,400
	46	68.6	96.6	107,500
105	48	67.3	95.6	97,800
	50	65.9	94.6	89,200
	55	62.5	91.9	71,000
	60	58.9	88.7	56,500
	65	55.2	85.0	44,700
	70	51.2	80.9	34,900
	75	47.1	76.0	26,600
	80	42.5	70.4	19,600
	85	37.5	63.8	13,500
	25	82.7	113.5	276,100*
	26	82.1	113.3	274,300*
	27	81.6	113.1	272,500*
	28	81.0	112.9	261,600
	29	80.5	112.7	241,700
	30	79.9	112.5	223,900
	32	78.8	112.0	193,400
	34	77.7	111.5	168,400
	36	76.5	110.9	147,400
	38	75.4	110.3	129,500
	40	74.2	109.7	114,200

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
105	42	73.1	109.0	100,800
	44	71.9	108.2	89,100
	46	70.7	107.4	78,700
	48	69.6	106.6	69,500
	50	68.4	105.7	61,200
	55	65.3	103.3	43,800
115	60	62.2	100.5	29,900
	65	59.0	97.4	18,700
	26	82.8	123.5	271,600*
	27	82.3	123.3	270,100*
	28	81.8	123.1	264,000
	29	81.3	122.9	244,000
125	30	80.8	122.7	226,100
	32	79.8	122.3	195,600
	34	78.8	121.8	170,500
	36	77.7	121.3	149,400
	38	76.7	120.7	131,500
	40	75.7	120.1	116,100
135	42	74.6	119.5	102,700
	44	73.6	118.8	91,000
	46	72.5	118.1	80,600
	48	71.4	117.4	71,300
	50	70.4	116.6	63,000
	55	67.7	114.4	45,500
145	60	64.9	111.9	31,600
	65	62.0	109.1	20,300
	70	59.1	106.0	11,000
	27	82.9	133.4	253,600*
	28	82.5	133.2	251,600*
	29	82.0	133.1	245,600
155	30	81.5	132.9	227,700
	32	80.6	132.5	197,100
	34	79.7	132.1	172,000
	36	78.7	131.6	150,900
	38	77.8	131.1	133,000
	40	76.8	130.5	117,600
165	42	75.9	130.0	104,100
	44	74.9	129.4	92,400
	46	74.0	128.7	82,000
	48	73.0	128.0	72,700
	50	72.0	127.3	64,400
	55	69.6	125.3	46,900
175	60	67.0	123.1	33,000
	65	64.5	120.6	21,700
	70	61.9	117.8	12,300
	28	83.0	143.4	246,400*
	29	82.6	143.2	244,700*
	30	82.2	143.0	229,200
185	32	81.3	142.7	198,500
	34	80.4	142.3	173,300
	36	79.6	141.8	152,200
	38	78.7	141.4	134,200
	40	77.8	140.9	118,700
	42	77.0	140.4	105,300
195	44	76.1	139.8	93,500
	46	75.2	139.2	83,000

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
135	48	74.3	138.6	73,700
	50	73.4	137.9	65,400
	55	71.2	136.1	47,900
	60	68.9	134.1	33,900
	65	66.5	131.8	22,600
	70	64.2	129.2	13,200
145	30	82.7	153.2	230,400
	32	81.9	152.8	199,700
	34	81.1	152.5	174,500
	36	80.3	152.1	153,400
	38	79.5	151.6	135,400
	40	78.7	151.2	119,900
	42	77.9	150.7	106,500
	44	77.1	150.2	94,700
	46	76.2	149.6	84,300
	48	75.4	149.0	75,000
	50	74.6	148.4	66,600
	55	72.5	146.8	49,100
155	60	70.4	144.9	35,200
	65	68.3	142.8	23,900
	70	66.1	140.5	14,500
	32	82.4	163.0	200,800
	34	81.7	162.6	175,500
	36	80.9	162.3	154,300
	38	80.2	161.9	136,300
	40	79.4	161.4	120,800
	42	78.7	161.0	107,300
	44	77.9	160.5	95,400
	46	77.2	160.0	85,000
	48	76.4	159.4	75,600
165	50	75.6	158.9	67,300
	55	73.7	157.3	49,700
	60	71.7	155.6	35,700
	65	69.7	153.6	24,400
	70	67.7	151.5	14,900
	32	82.9	173.1	201,400
	34	82.2	172.8	176,100
	36	81.5	172.4	154,800
	38	80.8	172.1	136,800
	40	80.1	171.7	121,300
	42	79.4	171.2	107,800
	44	78.7	170.8	95,900
175	46	77.9	170.3	85,400
	48	77.2	169.8	76,100
	50	76.5	169.3	67,700
	55	74.7	167.8	50,100
	60	72.9	166.2	36,200
	65	71.0	164.4	24,800
185	70	69.2	162.4	15,300

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE
BOOM NO. 44 WITH 5' TOP
160' LUFFING JIB NO. 133A
SET AT 168 DEGREE BOOM TO LUFFING JIB ANGLE
167,000 LB. COUNTERWEIGHT
360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
85	22	83.0	93.7	274,800*
	23	82.3	93.5	273,000*
	24	81.6	93.3	271,200*
	25	80.9	93.1	269,600*
	26	80.2	92.9	267,900*
	27	79.5	92.7	266,300*
	28	78.9	92.4	264,800*
	29	78.2	92.1	263,300*
	30	77.5	91.9	251,300
	32	76.1	91.3	219,700
	34	74.6	90.6	193,700
	36	73.2	89.9	171,900
	38	71.8	89.1	153,400
	40	70.3	88.3	137,500
	42	68.8	87.4	123,600
	44	67.4	86.5	111,500
	46	65.8	85.4	100,700
	48	64.3	84.4	91,200
	50	62.8	83.2	82,600
	55	58.8	80.0	64,500
95	60	54.6	76.3	50,200
	65	50.1	71.9	38,500
	70	45.3	66.7	28,800
	75	39.9	60.6	20,600
	80	33.8	53.0	13,700
	24	82.5	103.5	274,600*
	25	81.9	103.3	273,100*
	26	81.3	103.1	271,500*
	27	80.7	102.9	269,900*
	28	80.1	102.7	252,200
	29	79.4	102.4	232,500
	30	78.8	102.2	214,800
	32	77.6	101.7	184,700
	34	76.3	101.1	159,800
	36	75.0	100.5	139,000
	38	73.8	99.8	121,300
	40	72.5	99.1	106,100
	42	71.2	98.3	92,800
	44	69.9	97.4	81,200
	46	68.6	96.6	70,900
105	48	67.3	95.6	61,800
	50	65.9	94.6	53,500
	55	62.5	91.9	36,300
	60	58.9	88.7	22,600
	65	55.2	85.0	11,400
	25	82.7	113.5	271,800*
	26	82.1	113.3	269,900*
	27	81.6	113.1	268,000*
	28	81.0	112.9	255,100
	29	80.5	112.7	235,300
135	30	79.9	112.5	217,600
	32	78.8	112.0	187,400
	34	77.7	111.5	162,500
	36	76.5	110.9	141,700
	38	75.4	110.3	124,000
	28	83.0	143.4	242,600*
	29	82.6	143.2	240,800*
	30	82.2	143.0	223,400
	32	81.3	142.7	193,000
	34	80.4	142.3	168,000

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
105	40	74.2	109.7	108,700
	42	73.1	109.0	95,500
	44	71.9	108.2	83,900
	46	70.7	107.4	73,600
	48	69.6	106.6	64,400
	50	68.4	105.7	56,200
	55	65.3	103.3	38,900
	60	62.2	100.5	25,200
	65	59.0	97.4	14,000
	26	82.8	123.5	266,500*
115	27	82.3	123.3	264,900*
	28	81.8	123.1	257,700
	29	81.3	122.9	237,800
	30	80.8	122.7	220,100
	32	79.8	122.3	189,800
	34	78.8	121.8	164,800
	36	77.7	121.3	143,900
	38	76.7	120.7	126,200
	40	75.7	120.1	110,900
	42	74.6	119.5	97,600
125	44	73.6	118.8	85,900
	46	72.5	118.1	75,600
	48	71.4	117.4	66,400
	50	70.4	116.6	58,200
	55	67.7	114.4	40,800
	60	64.9	111.9	27,100
	65	62.0	109.1	15,900
	27	82.9	133.4	249,800*
	28	82.5	133.2	247,700*
	29	82.0	133.1	239,500
155	30	81.5	132.9	221,800
	32	80.6	132.5	191,500
	34	79.7	132.1	166,500
	36	78.7	131.6	145,600
	38	77.8	131.1	127,800
	40	76.8	130.5	112,500
	42	75.9	130.0	99,200
	44	74.9	129.4	87,500
	46	74.0	128.7	77,200
	48	73.0	128.0	68,000
185	50	72.0	127.3	59,700
	55	69.6	125.3	42,400
	60	67.0	123.1	28,600
	65	64.5	120.6	17,400
	28	83.0	143.4	242,600*
	29	82.6	143.2	240,800*
	30	82.2	143.0	223,400
	32	81.3	142.7	193,000
	34	80.4	142.3	168,000
	36	79.6	141.8	147,000
215	38	78.7	141.4	129,200
	40	77.8	140.9	113,800
	42	77.0	140.4	100,500
	44	76.1	139.8	88,800
	29	82.0	133.1	239,500
	30	81.5	132.9	221,800
	32	80.6	132.5	191,500
	34	79.7	132.1	166,500
	36	78.7	131.6	145,600
	38	77.8	131.1	127,800

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
135	46	75.2	139.2	78,400
	48	74.3	138.6	69,200
	50	73.4	137.9	60,900
	55	71.2	136.1	43,500
	60	68.9	134.1	29,700
145	65	66.5	131.8	18,500
	30	82.7	153.2	224,700
	32	81.9	152.8	194,300
	34	81.1	152.5	169,300
	36	80.3	152.1	148,300
	38	79.5	151.6	130,500
	40	78.7	151.2	115,200
	42	77.9	150.7	101,800
	44	77.1	150.2	90,100
	46	76.2	149.6	79,800
155	48	75.4	149.0	70,500
	50	74.6	148.4	62,300
	55	72.5	146.8	44,900
	60	70.4	144.9	31,100
	65	68.3	142.8	19,900
	70	66.1	140.5	10,500
	32	82.4	163.0	195,500
	34	81.7	162.6	170,400
	36	80.9	162.3	149,300
	38	80.2	161.9	131,500
185	40	79.4	161.4	116,100
	42	78.7	161.0	102,700
	44	77.9	160.5	90,900
	46	77.2	160.0	80,600
	48	76.4	159.4	71,300
	50	75.6	158.9	63,000
	55	73.7	157.3	45,600
	60	71.7	155.6	31,700
	65	69.7	153.6	20,500
	70	67.7	151.5	11,100
215	32	82.9	173.1	196,200
	34	82.2	172.8	171,100
	36	81.5	172.4	150,000
	38	80.8	172.1	132,100
	40	80.1	171.7	116,700
	42	79.4	171.2	103,300
	44	78.7	170.8	91,500
	46	77.9	170.3	81,100
	48	77.2	169.8	71,900
	50	76.5	169.3	63,600
245	55	74.7	167.8	46,100
	60	72.9	166.2	32,200
	65	71.0	164.4	21,000
	70	69.2	162.4	11,600

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE
BOOM NO. 44 WITH 5' TOP
170' LUFFING JIB NO. 133A
SET AT 168 DEGREE BOOM TO LUFFING JIB ANGLE
167,000 LB. COUNTERWEIGHT
360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
85	22	83.0	93.7	271,500*
	23	82.3	93.5	269,700*
	24	81.6	93.3	267,800*
	25	80.9	93.1	266,000*
	26	80.2	92.9	264,300*
	27	79.5	92.7	262,600*
	28	78.9	92.4	242,400
	29	78.2	92.1	222,900
	30	77.5	91.9	205,400
	32	76.1	91.3	175,600
	34	74.6	90.6	151,000
	36	73.2	89.9	130,400
	38	71.8	89.1	112,900
	40	70.3	88.3	97,900
	42	68.8	87.4	84,800
	44	67.4	86.5	73,300
	46	65.8	85.4	63,100
	48	64.3	84.4	54,100
95	50	62.8	83.2	46,000
	55	58.8	80.0	28,900
	60	54.6	76.3	15,400
	24	82.5	103.5	271,300*
	25	81.9	103.3	269,800*
	26	81.3	103.1	268,200*
	27	80.7	102.9	266,500*
	28	80.1	102.7	246,500
	29	79.4	102.4	226,800
	30	78.8	102.2	209,300
	32	77.6	101.7	179,400
	34	76.3	101.1	154,800
	36	75.0	100.5	134,100
	38	73.8	99.8	116,600
	40	72.5	99.1	101,500
	42	71.2	98.3	88,400
	44	69.9	97.4	76,900
	46	68.6	96.6	66,700
105	48	67.3	95.6	57,600
	50	65.9	94.6	49,500
	55	62.5	91.9	32,400
	60	58.9	88.7	18,800
	25	82.7	113.5	267,700*
	26	82.1	113.3	265,800*
	27	81.6	113.1	263,900*
	28	81.0	112.9	249,500
	29	80.5	112.7	229,900
	30	79.9	112.5	212,300
	32	78.8	112.0	182,400
	34	77.7	111.5	157,700
	36	76.5	110.9	137,100
	38	75.4	110.3	119,500
	40	74.2	109.7	104,400
	42	73.1	109.0	91,300
	44	71.9	108.2	79,700

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
105	46	70.7	107.4	69,500
	48	69.6	106.6	60,400
	50	68.4	105.7	52,300
	55	65.3	103.3	35,200
	60	62.2	100.5	21,600
	65	59.0	97.4	10,500
115	26	82.8	123.5	263,500*
	27	82.3	123.3	261,900*
	28	81.8	123.1	252,300
	29	81.3	122.9	232,600
	30	80.8	122.7	215,000
	32	79.8	122.3	184,900
	34	78.8	121.8	160,200
	36	77.7	121.3	139,500
	38	76.7	120.7	121,900
	40	75.7	120.1	106,700
	42	74.6	119.5	93,500
	44	73.6	118.8	82,000
	46	72.5	118.1	71,700
	48	71.4	117.4	62,600
	50	70.4	116.6	54,500
	55	67.7	114.4	37,300
	60	64.9	111.9	23,700
	65	62.0	109.1	12,600
125	27	82.9	133.4	247,100*
	28	82.5	133.2	245,000*
	29	82.0	133.1	234,400
	30	81.5	132.9	216,800
	32	80.6	132.5	186,800
	34	79.7	132.1	162,000
	36	78.7	131.6	141,300
	38	77.8	131.1	123,600
	40	76.8	130.5	108,500
	42	75.9	130.0	95,300
	44	74.9	129.4	83,700
	46	74.0	128.7	73,500
	48	73.0	128.0	64,300
	50	72.0	127.3	56,200
	55	69.6	125.3	39,000
	60	67.0	123.1	25,300
	65	64.5	120.6	14,200
135	28	83.0	143.4	238,100*
	29	82.6	143.2	236,300
	30	82.2	143.0	218,600
	32	81.3	142.7	188,500
	34	80.4	142.3	163,600
	36	79.6	141.8	142,800
	38	78.7	141.4	125,100
	40	77.8	140.9	109,900
	42	77.0	140.4	96,700
	44	76.1	139.8	85,100

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
135	46	75.2	139.2	74,800
	48	74.3	138.6	65,700
	50	73.4	137.9	57,400
	55	71.2	136.1	40,200
	60	68.9	134.1	26,500
	65	66.5	131.8	15,400
145	30	82.7	153.2	220,000
	32	81.9	152.8	189,900
	34	81.1	152.5	165,000
	36	80.3	152.1	144,200
	38	79.5	151.6	126,600
	40	78.7	151.2	111,400
	42	77.9	150.7	98,100
	44	77.1	150.2	86,500
	46	76.2	149.6	76,300
	48	75.4	149.0	67,100
	50	74.6	148.4	58,900
	55	72.5	146.8	41,700
155	60	70.4	144.9	28,000
	65	68.3	142.8	16,900
	32	82.4	163.0	191,100
	34	81.7	162.6	166,200
	36	80.9	162.3	145,400
	38	80.2	161.9	127,600
	40	79.4	161.4	112,400
	42	78.7	161.0	99,100
	44	77.9	160.5	87,500
	46	77.2	160.0	77,200
	48	76.4	159.4	68,000
	50	75.6	158.9	59,800
165	55	73.7	157.3	42,500
	60	71.7	155.6	28,800
	65	69.7	153.6	17,600
	32	82.9	173.1	191,900
	34	82.2	172.8	167,000
	36	81.5	172.4	146,100
	38	80.8	172.1	128,300
	40	80.1	171.7	113,100
	42	79.4	171.2	99,800
	44	78.7	170.8	88,100
	46	77.9	170.3	77,800
	48	77.2	169.8	68,600
175	50	76.5	169.3	60,400
	55	74.7	167.8	43,100
	60	72.9	166.2	29,400
	65	71.0	164.4	18,200

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE
BOOM NO. 44 WITH 5' TOP
180' LUFFING JIB NO. 133A
SET AT 168 DEGREE BOOM TO LUFFING JIB ANGLE
167,000 LB. COUNTERWEIGHT
360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
85	22	83.0	93.7	266,900*
	23	82.3	93.5	265,000*
	24	81.6	93.3	263,000*
	25	80.9	93.1	261,100*
	26	80.2	92.9	259,200*
	27	79.5	92.7	256,900
	28	78.9	92.4	235,000
	29	78.2	92.1	215,600
	30	77.5	91.9	198,300
	32	76.1	91.3	168,700
	34	74.6	90.6	144,300
	36	73.2	89.9	123,900
	38	71.8	89.1	106,500
	40	70.3	88.3	91,600
	42	68.8	87.4	78,600
95	44	67.4	86.5	67,200
	46	65.8	85.4	57,200
	48	64.3	84.4	48,200
	50	62.8	83.2	40,100
	55	58.8	80.0	23,200
	24	82.5	103.5	266,600*
	25	81.9	103.3	264,800*
	26	81.3	103.1	263,000*
	27	80.7	102.9	261,100*
	28	80.1	102.7	239,300
	29	79.4	102.4	219,900
	30	78.8	102.2	202,500
	32	77.6	101.7	172,800
	34	76.3	101.1	148,400
	36	75.0	100.5	127,900
105	38	73.8	99.8	110,500
	40	72.5	99.1	95,500
	42	71.2	98.3	82,500
	44	69.9	97.4	71,100
	46	68.6	96.6	61,000
	48	67.3	95.6	52,000
	50	65.9	94.6	43,900
	55	62.5	91.9	27,000
	60	58.9	88.7	13,500
	25	82.7	113.5	263,200*
	26	82.1	113.3	261,200*
	27	81.6	113.1	259,200*
	28	81.0	112.9	242,600
	29	80.5	112.7	223,100
	30	79.9	112.5	205,800
	32	78.8	112.0	176,000
	34	77.7	111.5	151,600
	36	76.5	110.9	131,100
	38	75.4	110.3	113,700
	40	74.2	109.7	98,700
	42	73.1	109.0	85,700

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
105	44	71.9	108.2	74,200
	46	70.7	107.4	64,100
	48	69.6	106.6	55,100
	50	68.4	105.7	47,000
	55	65.3	103.3	30,100
115	60	62.2	100.5	16,600
	26	82.8	123.5	259,100*
	27	82.3	123.3	257,400*
	28	81.8	123.1	245,600
	29	81.3	122.9	226,000
	30	80.8	122.7	208,600
	32	79.8	122.3	178,800
	34	78.8	121.8	154,300
	36	77.7	121.3	133,700
	38	76.7	120.7	116,200
	40	75.7	120.1	101,200
	42	74.6	119.5	88,200
	44	73.6	118.8	76,700
	46	72.5	118.1	66,500
	48	71.4	117.4	57,500
125	50	70.4	116.6	49,400
	55	67.7	114.4	32,400
	60	64.9	111.9	18,900
	27	82.9	133.4	243,100*
	28	82.5	133.2	240,900*
	29	82.0	133.1	228,100
	30	81.5	132.9	210,600
	32	80.6	132.5	180,800
	34	79.7	132.1	156,300
	36	78.7	131.6	135,700
	38	77.8	131.1	118,200
	40	76.8	130.5	103,200
	42	75.9	130.0	90,100
	44	74.9	129.4	78,600
	46	74.0	128.7	68,400
135	48	73.0	128.0	59,400
	50	72.0	127.3	51,300
	55	69.6	125.3	34,300
	60	67.0	123.1	20,800
	28	83.0	143.4	234,200*
	29	82.6	143.2	230,100
	30	82.2	143.0	212,600
	32	81.3	142.7	182,600
	34	80.4	142.3	158,000
	36	79.6	141.8	137,400
	38	78.7	141.4	119,800
	40	77.8	140.9	104,800
	42	77.0	140.4	91,600
	44	76.1	139.8	80,100

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
135	46	75.2	139.2	69,900
	48	74.3	138.6	60,900
	50	73.4	137.9	52,700
	55	71.2	136.1	35,700
	60	68.9	134.1	22,100
145	65	66.5	131.8	11,100
	30	82.7	153.2	214,100
	32	81.9	152.8	184,200
	34	81.1	152.5	159,600
	36	80.3	152.1	138,900
	38	79.5	151.6	121,400
	40	78.7	151.2	106,300
	42	77.9	150.7	93,200
	44	77.1	150.2	81,700
	46	76.2	149.6	71,500
	48	75.4	149.0	62,500
	50	74.6	148.4	54,400
	55	72.5	146.8	37,300
	60	70.4	144.9	23,700
	65	68.3	142.8	12,700
155	32	82.4	163.0	185,600
	34	81.7	162.6	160,900
	36	80.9	162.3	140,200
	38	80.2	161.9	122,600
	40	79.4	161.4	107,500
	42	78.7	161.0	94,300
	44	77.9	160.5	82,800
	46	77.2	160.0	72,600
	48	76.4	159.4	63,500
	50	75.6	158.9	55,300
	55	73.7	157.3	38,200
	60	71.7	155.6	24,600
	65	69.7	153.6	13,500
165	32	82.9	173.1	186,500
	34	82.2	172.8	161,700
	36	81.5	172.4	141,000
	38	80.8	172.1	123,400
	40	80.1	171.7	108,300
	42	79.4	171.2	95,100
	44	78.7	170.8	83,500
	46	77.9	170.3	73,300
	48	77.2	169.8	64,200
	50	76.5	169.3	56,100
	55	74.7	167.8	38,900
	60	72.9	166.2	25,300
	65	71.0	164.4	14,200

MANITOWOC ENGINEERING CO.

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



LIFTCRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE
BOOM NO. 44 WITH 5' TOP
190' LUFFING JIB NO. 133A
SET AT 168 DEGREE BOOM TO LUFFING JIB ANGLE
167,000 LB. COUNTERWEIGHT
360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
85	22	83.0	93.7	262,400*
	23	82.3	93.5	260,300*
	24	81.6	93.3	258,200*
	25	80.9	93.1	256,200*
	26	80.2	92.9	254,200*
	27	79.5	92.7	249,200
	28	78.9	92.4	227,600
	29	78.2	92.1	208,300
	30	77.5	91.9	191,200
	32	76.1	91.3	161,800
	34	74.6	90.6	137,700
	36	73.2	89.9	117,500
	38	71.8	89.1	100,300
	40	70.3	88.3	85,500
	42	68.8	87.4	72,600
95	44	67.4	86.5	61,400
	46	65.8	85.4	51,400
	48	64.3	84.4	42,500
	50	62.8	83.2	34,500
	55	58.8	80.0	17,800
	24	82.5	103.5	262,100*
	25	81.9	103.3	260,200*
	26	81.3	103.1	258,400*
	27	80.7	102.9	253,900
	28	80.1	102.7	232,200
	29	79.4	102.4	212,900
	30	78.8	102.2	195,700
	32	77.6	101.7	166,300
	34	76.3	101.1	142,100
	36	75.0	100.5	121,800
105	38	73.8	99.8	104,600
	40	72.5	99.1	89,800
	42	71.2	98.3	76,900
	44	69.9	97.4	65,600
	46	68.6	96.6	55,600
	48	67.3	95.6	46,600
	50	65.9	94.6	38,700
	55	62.5	91.9	21,900
	25	82.7	113.5	259,100*
	26	82.1	113.3	257,000*
	27	81.6	113.1	254,900*
	28	81.0	112.9	235,800
	29	80.5	112.7	216,500
	30	79.9	112.5	199,200
	32	78.8	112.0	169,800
	34	77.7	111.5	145,600
	36	76.5	110.9	125,300
	38	75.4	110.3	108,000
	40	74.2	109.7	93,200
	42	73.1	109.0	80,300

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
105	44	71.9	108.2	68,900
	46	70.7	107.4	58,900
	48	69.6	106.6	50,000
	50	68.4	105.7	42,000
	55	65.3	103.3	25,200
115	60	62.2	100.5	11,900
	26	82.8	123.5	255,000*
	27	82.3	123.3	253,300*
	28	81.8	123.1	238,900
	29	81.3	122.9	219,600
	30	80.8	122.7	202,300
	32	79.8	122.3	172,800
	34	78.8	121.8	148,500
	36	77.7	121.3	128,100
	38	76.7	120.7	110,800
	40	75.7	120.1	95,900
	42	74.6	119.5	83,000
	44	73.6	118.8	71,600
	46	72.5	118.1	61,600
	48	71.4	117.4	52,600
	50	70.4	116.6	44,600
125	55	67.7	114.4	27,800
	60	64.9	111.9	14,400
	27	82.9	133.4	237,300*
	28	82.5	133.2	235,100*
	29	82.0	133.1	221,800
	30	81.5	132.9	204,500
	32	80.6	132.5	175,000
	34	79.7	132.1	150,600
	36	78.7	131.6	130,200
	38	77.8	131.1	112,900
	40	76.8	130.5	98,000
	42	75.9	130.0	85,100
	44	74.9	129.4	73,700
	46	74.0	128.7	63,700
	48	73.0	128.0	54,700
	50	72.0	127.3	46,700
135	55	69.6	125.3	29,800
	60	67.0	123.1	16,400
	28	83.0	143.4	230,600*
	29	82.6	143.2	223,900
	30	82.2	143.0	206,600
	32	81.3	142.7	177,000
	34	80.4	142.3	152,500
	36	79.6	141.8	132,100
	38	78.7	141.4	114,700
	40	77.8	140.9	99,800
	42	77.0	140.4	86,800
	44	76.1	139.8	75,400
	46	75.2	139.2	65,300
	48	74.3	138.6	56,300
	50	73.4	137.9	48,300
	55	71.2	136.1	31,400
	60	68.9	134.1	17,900

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
145	30	82.7	153.2	208,300
	32	81.9	152.8	178,600
	34	81.1	152.5	154,200
	36	80.3	152.1	133,800
	38	79.5	151.6	116,400
	40	78.7	151.2	101,500
	42	77.9	150.7	88,500
	44	77.1	150.2	77,100
	46	76.2	149.6	67,000
	48	75.4	149.0	58,100
155	50	74.6	148.4	50,000
	55	72.5	146.8	33,100
	60	70.4	144.9	19,700
	32	82.4	163.0	180,100
	34	81.7	162.6	155,700
	36	80.9	162.3	135,200
	38	80.2	161.9	117,700
	40	79.4	161.4	102,800
	42	78.7	161.0	89,700
	44	77.9	160.5	78,300
165	46	77.2	160.0	68,200
	48	76.4	159.4	59,200
	50	75.6	158.9	51,100
	55	73.7	157.3	34,100
	60	71.7	155.6	20,700
	32	82.9	173.1	181,100
	34	82.2	172.8	156,600
	36	81.5	172.4	136,100
	38	80.8	172.1	118,700
	40	80.1	171.7	103,700
175	42	79.4	171.2	90,600
	44	78.7	170.8	79,200
	46	77.9	170.3	69,000
	48	77.2	169.8	60,000
	50	76.5	169.3	51,900
	55	74.7	167.8	35,000
	60	72.9	166.2	21,500
	65	71.0	164.4	10,500

MANITOWOC ENGINEERING CO.

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



LIFTCRANE BOOM CAPACITIES WITH FOLD UNDER LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE
BOOM NO. 44 WITH 5' TOP
200' LUFFING JIB NO. 133A
SET AT 168 DEGREE BOOM TO LUFFING JIB ANGLE
167,000 LB. COUNTERWEIGHT
360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
85	22	83.0	93.7	257,100*
	23	82.3	93.5	254,900*
	24	81.6	93.3	252,700*
	25	80.9	93.1	250,500*
	26	80.2	92.9	248,400*
	27	79.5	92.7	241,100
	28	78.9	92.4	219,600
	29	78.2	92.1	200,500
	30	77.5	91.9	183,500
	32	76.1	91.3	154,400
	34	74.6	90.6	130,500
	36	73.2	89.9	110,500
	38	71.8	89.1	93,400
	40	70.3	88.3	78,800
	42	68.8	87.4	66,100
	44	67.4	86.5	54,900
	46	65.8	85.4	45,000
	48	64.3	84.4	36,200
	50	62.8	83.2	28,300
	55	58.8	80.0	11,800
95	24	82.5	103.5	256,900*
	25	81.9	103.3	254,900*
	26	81.3	103.1	253,000*
	27	80.7	102.9	246,100
	28	80.1	102.7	224,500
	29	79.4	102.4	205,400
	30	78.8	102.2	188,400
	32	77.6	101.7	159,200
	34	76.3	101.1	135,300
	36	75.0	100.5	115,200
	38	73.8	99.8	98,100
	40	72.5	99.1	83,400
	42	71.2	98.3	70,600
	44	69.9	97.4	59,400
	46	68.6	96.6	49,500
	48	67.3	95.6	40,700
	50	65.9	94.6	32,800
	55	62.5	91.9	16,200
105	25	82.7	113.5	254,300*
	26	82.1	113.3	252,100*
	27	81.6	113.1	250,000*
	28	81.0	112.9	228,400
	29	80.5	112.7	209,300
	30	79.9	112.5	192,200
	32	78.8	112.0	163,000
	34	77.7	111.5	139,000
	36	76.5	110.9	118,900
	38	75.4	110.3	101,800
	40	74.2	109.7	87,100
	42	73.1	109.0	74,300
	44	71.9	108.2	63,100
	46	70.7	107.4	53,200
	48	69.6	106.6	44,300
	50	68.4	105.7	36,400
	55	65.3	103.3	19,800

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
115	26	82.8	123.5	250,300*
	27	82.3	123.3	248,500*
	28	81.8	123.1	231,800
	29	81.3	122.9	212,600
	30	80.8	122.7	195,500
	32	79.8	122.3	166,200
	34	78.8	121.8	142,100
	36	77.7	121.3	122,000
	38	76.7	120.7	104,800
	40	75.7	120.1	90,100
	42	74.6	119.5	77,300
	44	73.6	118.8	66,000
	46	72.5	118.1	56,100
	48	71.4	117.4	47,200
	50	70.4	116.6	39,200
	55	67.7	114.4	22,600
125	27	82.9	133.4	233,100*
	28	82.5	133.2	230,900*
	29	82.0	133.1	215,000
	30	81.5	132.9	197,900
	32	80.6	132.5	168,600
	34	79.7	132.1	144,500
	36	78.7	131.6	124,300
	38	77.8	131.1	107,100
	40	76.8	130.5	92,400
	42	75.9	130.0	79,600
	44	74.9	129.4	68,300
	46	74.0	128.7	58,300
	48	73.0	128.0	49,500
	50	72.0	127.3	41,500
	55	69.6	125.3	24,800
	60	67.0	123.1	11,600
135	28	83.0	143.4	226,500*
	29	82.6	143.2	217,300
	30	82.2	143.0	200,100
	32	81.3	142.7	170,800
	34	80.4	142.3	146,600
	36	79.6	141.8	126,300
	38	78.7	141.4	109,100
	40	77.8	140.9	94,300
	42	77.0	140.4	81,400
	44	76.1	139.8	70,100
	46	75.2	139.2	60,200
	48	74.3	138.6	51,300
	50	73.4	137.9	43,300
	55	71.2	136.1	26,500
	60	68.9	134.1	13,200

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
145	30	82.7	153.2	202,000
	32	81.9	152.8	172,600
	34	81.1	152.5	148,400
	36	80.3	152.1	128,200
	38	79.5	151.6	111,000
	40	78.7	151.2	96,200
	42	77.9	150.7	83,300
	44	77.1	150.2	72,000
	46	76.2	149.6	62,000
	48	75.4	149.0	53,100
	50	74.6	148.4	45,200
	55	72.5	146.8	28,400
	60	70.4	144.9	15,200
155	32	82.4	163.0	174,200
	34	81.7	162.6	150,000
	36	80.9	162.3	129,600
	38	80.2	161.9	112,400
	40	79.4	161.4	97,500
	42	78.7	161.0	84,600
	44	77.9	160.5	73,300
	46	77.2	160.0	63,300
	48	76.4	159.4	54,400
	50	75.6	158.9	46,400
	55	73.7	157.3	29,600
	60	71.7	155.6	16,300
165	32	82.9	173.1	175,300
	34	82.2	172.8	151,000
	36	81.5	172.4	130,700
	38	80.8	172.1	113,400
	40	80.1	171.7	98,600
	42	79.4	171.2	85,600
	44	78.7	170.8	74,300
	46	77.9	170.3	64,300
	48	77.2	169.8	55,300
	50	76.5	169.3	47,300
	55	74.7	167.8	30,500
	60	72.9	166.2	17,200