

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE

BOOM NO. 44 WITH HEAVY LIFT TOP

LUFFING JIB NO. 133 OR 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 250' AND NEW YORK CITY CRITERIA OF 1.4 FACTOR APPLIED TO TOTAL MACHINE MOMENT FOR BOOM AND LUFFING JIB LENGTH COMBINATIONS 260' ON UP. CAPACITIES BASED ON STRUCTURAL COMPETENCE ARE DENOTED BY AN ASTERISK (*).

190' AND 200' 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 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 LUFFING JIB ASSEMBLY NO. 172894 OR NO. 174308, WIRE ROPE SPECIFICATION CHART NO. 7581-E, LUFFING JIB RAISING PROCEDURE CHART NO. 7604-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 AND LOWERING BOOM AND LUFFING JIB TO GROUND WHEN WIND IS ABOVE 50 MPH. REFER TO MAXIMUM ALLOWABLE WIND CONDITIONS CHART NO. 7656-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. 7678-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, 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 FEET	LUFFING JIB LENGTH FEET	BOOM LENGTH FEET	LUFFING JIB LENGTH FEET	BOOM LENGTH FEET	LUFFING JIB LENGTH FEET
80 - 100	70 - 200	110 - 120	190 - 200	170 - 180	190 - 200
110 - 120	70 - 180	130 - 140	170 - 200	190	160 - 200
130 - 140	70 - 160	150 - 160	160 - 200		
150 - 160	70 - 150	170 - 180	150 - 180		
170 - 180	70 - 140	190 - 200	120 - 150		
190 - 200	70 - 110				

CONSULT CHART NO. 7740-A FOR LUFFING JIB CAPACITIES

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LIFT CRANE BOOM CAPACITIES WITH LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE
BOOM NO. 44 WITH HEAVY LIFT TOP
70' LUFFING JIB NO. 133 OR 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
80	20	82.4	86.9	473,900*
	21	81.7	86.7	470,300*
	22	80.9	86.5	466,900*
	23	80.2	86.3	451,800*
	24	79.5	86.1	432,700*
	25	78.7	85.9	401,600
	26	78.0	85.6	371,100
	27	77.3	85.4	344,500
	28	76.5	85.1	321,100
	29	75.8	84.8	300,400
	30	75.0	84.5	281,900
	32	73.5	83.9	250,200
	34	72.0	83.2	224,100
	36	70.5	82.4	202,300
	38	68.9	81.6	183,700
	40	67.3	80.7	167,700
	42	65.8	79.8	153,800
	44	64.2	78.7	141,600
90	46	62.5	77.6	130,900
	48	60.9	76.5	121,300
	50	59.2	75.2	112,700
	21	82.6	96.9	452,600*
	22	81.9	96.7	449,100*
	23	81.3	96.5	445,600*
	24	80.6	96.3	432,700*
	25	80.0	96.1	403,100
	26	79.3	95.9	372,500
	27	78.7	95.7	345,900
	28	78.0	95.4	322,400
	29	77.4	95.2	301,600
	30	76.7	94.9	283,100
	32	75.4	94.4	251,300
	34	74.1	93.7	225,200
	36	72.7	93.1	203,300
	38	71.4	92.4	184,700
	40	70.0	91.6	168,700
100	42	68.6	90.8	154,800
	44	67.2	89.9	142,500
	46	65.8	88.9	131,700
	48	64.4	87.9	122,100
	50	63.0	86.8	113,500
	55	59.3	83.9	95,400
	22	82.8	106.8	430,200*
	23	82.2	106.7	426,800*
	24	81.6	106.5	423,500*
	25	81.0	106.3	404,300
	26	80.4	106.1	373,700
	27	79.8	105.9	346,900
	28	79.3	105.7	323,400
	29	78.7	105.5	302,600

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
100	30	78.1	105.2	283,900
	32	76.9	104.7	252,100
	34	75.7	104.2	225,900
	36	74.5	103.6	204,000
	38	73.3	103.0	185,300
	40	72.1	102.3	169,300
	42	70.9	101.5	155,300
	44	69.7	100.8	143,000
	46	68.4	99.9	132,200
	48	67.2	99.0	122,600
	50	65.9	98.1	113,900
	55	62.7	95.5	95,700
110	60	59.3	92.5	81,300
	65	55.9	89.2	69,500
	23	82.9	116.8	336,000*
	24	82.4	116.6	333,400*
	25	81.8	116.5	330,900*
	26	81.3	116.3	328,500*
	27	80.8	116.1	326,200*
	28	80.3	115.9	323,900*
	29	79.7	115.7	303,300
	30	79.2	115.5	284,600
	32	78.1	115.0	252,800
	34	77.0	114.6	226,500
120	36	76.0	114.0	204,500
	38	74.9	113.4	185,800
	40	73.8	112.8	169,800
	42	72.7	112.2	155,800
	44	71.6	111.5	143,500
	46	70.5	110.7	132,600
	48	69.4	109.9	123,000
	50	68.2	109.1	114,300
	55	65.4	106.8	96,100
	60	62.4	104.2	81,600
	65	59.4	101.2	69,900
	70	56.3	97.9	60,100
130	24	83.0	126.8	314,400*
	25	82.5	126.6	312,200*
	26	82.0	126.4	310,100*
	27	81.6	126.3	308,100*
	28	81.1	126.1	306,200*
	29	80.6	125.9	303,900
	30	80.1	125.7	285,200
	32	79.1	125.3	253,200
	34	78.1	124.8	226,900
	36	77.2	124.4	204,900
	38	76.2	123.8	186,100
	40	75.2	123.3	170,000
140	42	74.2	122.7	156,000
	44	73.2	122.0	143,700

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
120	46	72.2	121.4	132,800
	48	71.2	120.6	123,100
	50	70.1	119.9	114,400
	55	67.6	117.8	96,200
	60	64.9	115.5	81,700
	65	62.2	112.8	69,900
130	70	59.5	109.9	60,100
	75	56.6	106.6	51,800
	26	82.7	136.6	311,800*
	27	82.2	136.4	309,900*
	28	81.8	136.2	308,000*
	29	81.3	136.1	304,400
	30	80.9	135.9	285,700
	32	80.0	135.5	253,700
	34	79.1	135.1	227,400
	36	78.2	134.6	205,400
	38	77.3	134.2	186,600
	40	76.4	133.6	170,500
	42	75.4	133.1	156,500
	44	74.5	132.5	144,200
	46	73.6	131.9	133,300
	48	72.7	131.2	123,600
	50	71.7	130.5	114,900
	55	69.4	128.7	96,600
140	60	67.0	126.5	82,100
	65	64.5	124.1	70,300
	70	62.1	121.5	60,500
	75	59.5	118.5	52,300
	80	56.9	115.3	45,200
	27	82.8	146.5	302,400*
	28	82.4	146.4	300,700*
	29	81.9	146.2	299,000*
	30	81.5	146.0	286,100
	32	80.7	145.7	254,100
	34	79.9	145.3	227,700
	36	79.0	144.9	205,600
	38	78.2	144.4	186,800
	40	77.4	144.0	170,600
	42	76.5	143.5	156,600
	44	75.7	142.9	144,200
	46	74.8	142.3	133,300
	48	74.0	141.7	123,600
	50	73.1	141.1	114,900
150	55	70.9	139.4	96,600
	60	68.7	137.4	82,000
	65	66.5	135.2	70,200
	70	64.2	132.8	60,400
	75	61.9	130.1	52,100
	80	59.5	127.2	45,000
	85	57.1	124.0	38,900

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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
150	28	82.9	156.5	261,700*
	29	82.5	156.3	260,000*
	30	82.1	156.2	258,300*
	32	81.3	155.8	254,300
	34	80.6	155.5	227,800
	36	79.8	155.1	205,700
	38	79.0	154.7	186,900
	40	78.2	154.2	170,700
	42	77.4	153.8	156,600
	44	76.6	153.3	144,200
	46	75.8	152.7	133,300
	48	75.1	152.2	123,600
	50	74.3	151.6	114,800
	55	72.3	150.0	96,500
	60	70.2	148.2	81,900
	65	68.2	146.2	70,100
	70	66.1	143.9	60,300
	75	63.9	141.5	52,000
	80	61.8	138.8	44,900
	85	59.6	135.9	38,700
	90	57.3	132.6	33,400
160	29	83.0	166.4	252,600*
	30	82.6	166.3	251,200*
	32	81.9	166.0	246,400*
	34	81.1	165.7	227,900
	36	80.4	165.3	205,800
	38	79.7	164.9	186,900
	40	79.0	164.5	170,700
	42	78.2	164.0	156,500
	44	77.5	163.6	144,200
	46	76.8	163.1	133,200
	48	76.0	162.6	123,400
	50	75.3	162.0	114,700
	55	73.4	160.5	96,300
	60	71.5	158.8	81,700
	65	69.6	157.0	69,800
	70	67.7	154.9	60,000
	75	65.7	152.6	51,700
	80	63.7	150.2	44,600
	85	61.7	147.5	38,400
	90	59.6	144.5	33,100
	95	57.5	141.3	28,300
170	30	83.0	176.4	243,400*
	32	82.4	176.1	235,800*
	34	81.7	175.8	228,000
	36	81.0	175.5	205,800
	38	80.3	175.1	186,900
	40	79.6	174.7	170,700
	42	78.9	174.3	156,600
	44	78.2	173.8	144,200
	46	77.5	173.4	133,200
	48	76.9	172.9	123,500
	50	76.2	172.4	114,700
	55	74.4	171.0	96,300
	60	72.6	169.4	81,700

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
170	65	70.9	167.6	69,900
	70	69.1	165.7	60,000
	75	67.2	163.6	51,700
	80	65.4	161.3	44,600
	85	63.5	158.8	38,500
	90	61.6	156.1	33,100
180	95	59.6	153.2	28,400
	100	57.6	150.0	24,200
	32	82.8	186.2	223,500*
	34	82.1	185.9	216,500*
	36	81.5	185.6	205,800
	38	80.9	185.3	186,900
	40	80.2	184.9	170,700
	42	79.6	184.5	156,500
	44	78.9	184.1	144,100
	46	78.3	183.6	133,100
	48	77.6	183.2	123,300
	50	76.9	182.7	114,500
190	55	75.3	181.4	96,100
	60	73.6	179.9	81,500
	65	72.0	178.3	69,600
	70	70.3	176.5	59,700
	75	68.6	174.5	51,400
	80	66.8	172.3	44,200
	85	65.1	170.0	38,100
	90	63.3	167.5	32,700
	95	61.5	164.8	28,000
	100	59.6	161.8	23,800
	105	57.8	158.7	20,000
200	34	82.6	196.0	180,000*
	36	81.9	195.7	178,200
	38	81.3	195.4	160,100
	40	80.7	195.1	144,600
	42	80.1	194.7	131,100
	44	79.5	194.3	119,300
	46	78.9	193.9	108,800
	48	78.3	193.4	99,500
	50	77.6	193.0	91,100
	55	76.1	191.7	73,500
	60	74.5	190.3	59,600
	65	72.9	188.8	48,200
200	70	71.4	187.1	38,800
	75	69.7	185.3	30,800
	80	68.1	183.2	24,000
	85	66.5	181.1	18,100
	90	64.8	178.7	13,000
	34	82.9	206.1	180,000*
200	36	82.4	205.8	176,900*
	38	81.8	205.5	159,900
	40	81.2	205.2	144,400
	42	80.6	204.8	130,800
	44	80.0	204.5	119,000
	46	79.4	204.1	108,500
	48	78.9	203.7	99,100

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
200	50	78.3	203.2	90,700
	55	76.8	202.1	73,100
	60	75.3	200.7	59,100
	65	73.8	199.3	47,700
	70	72.3	197.7	38,200
	75	70.8	195.9	30,300
	80	69.3	194.0	23,400
	85	67.7	192.0	17,500
	90	66.2	189.8	12,400

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M-250

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BOOM NO. 44 WITH HEAVY LIFT TOP
80' LUFFING JIB NO. 133 OR 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
80	20	82.4	86.9	472,900*
	21	81.7	86.7	469,200*
	22	80.9	86.5	465,700*
	23	80.2	86.3	449,600*
	24	79.5	86.1	430,500*
	25	78.7	85.9	398,200
	26	78.0	85.6	367,800
	27	77.3	85.4	341,200
	28	76.5	85.1	317,900
	29	75.8	84.8	297,100
	30	75.0	84.5	278,600
	32	73.5	83.9	247,000
	34	72.0	83.2	221,000
	36	70.5	82.4	199,200
	38	68.9	81.6	180,600
	40	67.3	80.7	164,700
	42	65.8	79.8	150,800
	44	64.2	78.7	138,600
90	46	62.5	77.6	127,900
	48	60.9	76.5	118,300
	50	59.2	75.2	109,700
	55	54.8	71.7	91,600
	21	82.6	96.9	451,900*
	22	81.9	96.7	448,300*
	23	81.3	96.5	444,700*
	24	80.6	96.3	430,600*
	25	80.0	96.1	399,900
	26	79.3	95.9	369,400
	27	78.7	95.7	342,800
	28	78.0	95.4	319,400
	29	77.4	95.2	298,600
	30	76.7	94.9	280,100
	32	75.4	94.4	248,400
	34	74.1	93.7	222,300
	36	72.7	93.1	200,400
	38	71.4	92.4	181,800
100	40	70.0	91.6	165,800
	42	68.6	90.8	151,900
	44	67.2	89.9	139,700
	46	65.8	88.9	128,900
	48	64.4	87.9	119,300
	50	63.0	86.8	110,700
	55	59.3	83.9	92,600
	60	55.4	80.4	78,300
	65	51.3	76.5	66,600
	22	82.8	106.8	429,800*
	23	82.2	106.7	426,300*
	24	81.6	106.5	422,900*
	25	81.0	106.3	401,300
	26	80.4	106.1	370,700
	27	79.8	105.9	344,000
	28	79.3	105.7	320,500
	29	78.7	105.5	299,700
	30	78.1	105.2	281,100

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
100	32	76.9	104.7	249,300
	34	75.7	104.2	223,200
	36	74.5	103.6	201,200
	38	73.3	103.0	182,600
	40	72.1	102.3	166,600
	42	70.9	101.5	152,600
	44	69.7	100.8	140,400
	46	68.4	99.9	129,600
	48	67.2	99.0	119,900
	50	65.9	98.1	111,300
	55	62.7	95.5	93,200
	60	59.3	92.5	78,700
	65	55.9	89.2	67,000
	70	52.3	85.3	57,300
	23	82.9	116.8	335,000*
	24	82.4	116.6	332,400*
	25	81.8	116.5	329,800*
	26	81.3	116.3	327,400*
110	27	80.8	116.1	325,000*
	28	80.3	115.9	321,500
	29	79.7	115.7	300,600
	30	79.2	115.5	282,000
	32	78.1	115.0	250,100
	34	77.0	114.6	223,900
	36	76.0	114.0	201,900
	38	74.9	113.4	183,300
	40	73.8	112.8	167,200
	42	72.7	112.2	153,300
	44	71.6	111.5	141,000
	46	70.5	110.7	130,200
	48	69.4	109.9	120,500
	50	68.2	109.1	111,800
	55	65.4	106.8	93,700
	60	62.4	104.2	79,200
	65	59.4	101.2	67,500
120	70	56.3	97.9	57,700
	75	53.0	94.1	49,500
	24	83.0	126.8	313,500*
	25	82.5	126.6	311,300*
	26	82.0	126.4	309,200*
	27	81.6	126.3	307,100*
	28	81.1	126.1	305,100*
	29	80.6	125.9	301,300
	30	80.1	125.7	282,600
	32	79.1	125.3	250,700
	34	78.1	124.8	224,400
	36	77.2	124.4	202,400
	38	76.2	123.8	183,700
	40	75.2	123.3	167,600
	42	74.2	122.7	153,600
	44	73.2	122.0	141,300
	46	72.2	121.4	130,400
	48	71.2	120.6	120,700
	50	70.1	119.9	112,100

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
130	55	67.6	117.8	93,800
	60	64.9	115.5	79,400
	65	62.2	112.8	67,600
	70	59.5	109.9	57,800
	75	56.6	106.6	49,500
	80	53.6	102.9	42,500
	26	82.7	136.6	310,900*
	27	82.2	136.4	308,900*
	28	81.8	136.2	307,000*
	29	81.3	136.1	301,900
	30	80.9	135.9	283,200
	32	80.0	135.5	251,300
	34	79.1	135.1	225,000
	36	78.2	134.6	203,000
	38	77.3	134.2	184,300
	40	76.4	133.6	168,200
	42	75.4	133.1	154,200
	44	74.5	132.5	141,900
140	46	73.6	131.9	131,000
	48	72.7	131.2	121,300
	50	71.7	130.5	112,600
	55	69.4	128.7	94,400
	60	67.0	126.5	79,900
	65	64.5	124.1	68,100
	70	62.1	121.5	58,400
	75	59.5	118.5	50,100
	80	56.9	115.3	43,100
	85	54.2	111.7	37,000
	90	51.3	107.7	31,700
	27	82.8	146.5	301,600*
	28	82.4	146.4	299,800*
	29	81.9	146.2	298,100*
	30	81.5	146.0	283,800
	32	80.7	145.7	251,800
	34	79.9	145.3	225,400
	36	79.0	144.9	203,300
	38	78.2	144.4	184,500
150	40	77.4	144.0	168,400
	42	76.5	143.5	154,400
	44	75.7	142.9	142,000
	46	74.8	142.3	131,100
	48	74.0	141.7	121,400
	50	73.1	141.1	112,700
	55	70.9	139.4	94,400
	60	68.7	137.4	79,900
	65	66.5	135.2	68,100
	70	64.2	132.8	58,300
	75	61.9	130.1	50,000
	80	59.5	127.2	42,900
	85	57.1	124.0	36,800
	90	54.6	120.4	31,500
	95	52.0	116.5	26,800

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE

BOOM NO. 44 WITH HEAVY LIFT TOP

80' LUFFING JIB NO. 133 OR 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
150	28	82.9	156.5	261,300*
	29	82.5	156.3	259,500*
	30	82.1	156.2	257,800*
	32	81.3	155.8	252,000
	34	80.6	155.5	225,600
	36	79.8	155.1	203,500
	38	79.0	154.7	184,700
	40	78.2	154.2	168,500
	42	77.4	153.8	154,400
	44	76.6	153.3	142,100
	46	75.8	152.7	131,200
	48	75.1	152.2	121,500
	50	74.3	151.6	112,700
	55	72.3	150.0	94,400
	60	70.2	148.2	79,900
	65	68.2	146.2	68,000
	70	66.1	143.9	58,200
	75	63.9	141.5	49,900
	80	61.8	138.8	42,900
	85	59.6	135.9	36,700
160	90	57.3	132.6	31,400
	95	55.0	129.1	26,700
	100	52.6	125.3	22,500
	29	83.0	166.4	252,200*
	30	82.6	166.3	250,700*
	32	81.9	166.0	245,700*
	34	81.1	165.7	225,800
	36	80.4	165.3	203,600
	38	79.7	164.9	184,800
	40	79.0	164.5	168,600
170	42	78.2	164.0	154,500
	44	77.5	163.6	142,100
	46	76.8	163.1	131,100
	48	76.0	162.6	121,400
	50	75.3	162.0	112,700
	55	73.4	160.5	94,300
	60	71.5	158.8	79,700
	65	69.6	157.0	67,900
	70	67.7	154.9	58,000
	75	65.7	152.6	49,700
180	80	63.7	150.2	42,600
	85	61.7	147.5	36,500
	90	59.6	144.5	31,100
	95	57.5	141.3	26,400
	100	55.3	137.9	22,200
	105	53.1	134.1	18,500
190	30	83.0	176.4	243,000*
	32	82.4	176.1	235,200*
	34	81.7	175.8	225,900
	36	81.0	175.5	203,700
	38	80.3	175.1	184,900
	40	79.6	174.7	168,600
	42	78.9	174.3	154,500
	44	78.2	173.8	142,200
	46	77.5	173.4	131,200

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
170	48	76.9	172.9	121,500
	50	76.2	172.4	112,700
	55	74.4	171.0	94,400
	60	72.6	169.4	79,800
	65	70.9	167.6	67,900
	70	69.1	165.7	58,100
	75	67.2	163.6	49,800
	80	65.4	161.3	42,700
	85	63.5	158.8	36,600
	90	61.6	156.1	31,200
180	95	59.6	153.2	26,500
	100	57.6	150.0	22,300
	105	55.6	146.6	18,600
	110	53.5	142.9	15,200
	115	51.3	138.9	12,200
190	32	82.8	186.2	223,200*
	34	82.1	185.9	204,100
	36	81.5	185.6	182,300
	38	80.9	185.3	163,900
	40	80.2	184.9	147,900
	42	79.6	184.5	134,100
	44	78.9	184.1	122,000
	46	78.3	183.6	111,200
	48	77.6	183.2	101,600
	50	76.9	182.7	93,000
200	55	75.3	181.4	75,000
	60	73.6	179.9	60,700
	65	72.0	178.3	49,000
	70	70.3	176.5	39,300
	75	68.6	174.5	31,200
	80	66.8	172.3	24,200
	85	65.1	170.0	18,100
	90	63.3	167.5	12,800
210	34	82.6	196.0	180,000*
	36	81.9	195.7	180,000*
	38	81.3	195.4	163,700
	40	80.7	195.1	147,700
	42	80.1	194.7	133,900
	44	79.5	194.3	121,700
	46	78.9	193.9	110,900
	48	78.3	193.4	101,300
	50	77.6	193.0	92,700
	55	76.1	191.7	74,700
220	60	74.5	190.3	60,300
	65	72.9	188.8	48,600
	70	71.4	187.1	38,900
	75	69.7	185.3	30,800
	80	68.1	183.2	23,800
	85	66.5	181.1	17,700
	90	64.8	178.7	12,400

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
200	34	82.9	206.1	180,000*
	36	82.4	205.8	176,600*
	38	81.8	205.5	163,500
	40	81.2	205.2	147,600
	42	80.6	204.8	133,700
	44	80.0	204.5	121,500
	46	79.4	204.1	110,700
	48	78.9	203.7	101,000
	50	78.3	203.2	92,400
	55	76.8	202.1	74,300
	60	75.3	200.7	59,900
	65	73.8	199.3	48,200
	70	72.3	197.7	38,500
	75	70.8	195.9	30,300
	80	69.3	194.0	23,300
	85	67.7	192.0	17,200
	90	66.2	189.8	11,900

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE

BOOM NO. 44 WITH HEAVY LIFT TOP

90' LUFFING JIB NO. 133 OR 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
80	20	82.4	86.9	464,200*
	21	81.7	86.7	460,500*
	22	80.9	86.5	456,900*
	23	80.2	86.3	445,500*
	24	79.5	86.1	426,000
	25	78.7	85.9	391,100
	26	78.0	85.6	361,000
	27	77.3	85.4	334,800
	28	76.5	85.1	311,600
	29	75.8	84.8	291,200
	30	75.0	84.5	272,900
	32	73.5	83.9	241,600
	34	72.0	83.2	215,900
	36	70.5	82.4	194,300
	38	68.9	81.6	176,000
	40	67.3	80.7	160,200
	42	65.8	79.8	146,500
	44	64.2	78.7	134,500
90	46	62.5	77.6	123,900
	48	60.9	76.5	114,400
	50	59.2	75.2	105,900
	55	54.8	71.7	88,100
	21	82.6	96.9	443,900*
	22	81.9	96.7	440,200*
	23	81.3	96.5	436,600*
	24	80.6	96.3	426,700*
	25	80.0	96.1	393,000
	26	79.3	95.9	362,800
	27	78.7	95.7	336,500
	28	78.0	95.4	313,300
	29	77.4	95.2	292,800
	30	76.7	94.9	274,400
	32	75.4	94.4	243,100
	34	74.1	93.7	217,300
	36	72.7	93.1	195,700
	38	71.4	92.4	177,300
100	40	70.0	91.6	161,500
	42	68.6	90.8	147,800
	44	67.2	89.9	135,700
	46	65.8	88.9	125,100
	48	64.4	87.9	115,600
	50	63.0	86.8	107,100
	55	59.3	83.9	89,200
	60	55.4	80.4	75,000
	65	51.3	76.5	63,500
	22	82.8	106.8	422,300*
	23	82.2	106.7	418,800*
	24	81.6	106.5	415,300*
	25	81.0	106.3	394,500
	26	80.4	106.1	364,200
	27	79.8	105.9	337,800
	28	79.3	105.7	314,600
	29	78.7	105.5	294,000
	30	78.1	105.2	275,600

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
100	32	76.9	104.7	244,200
	34	75.7	104.2	218,300
	36	74.5	103.6	196,700
	38	73.3	103.0	178,200
	40	72.1	102.3	162,400
	42	70.9	101.5	148,600
	44	69.7	100.8	136,500
	46	68.4	99.9	125,800
	48	67.2	99.0	116,300
	50	65.9	98.1	107,800
	55	62.7	95.5	89,800
	60	59.3	92.5	75,600
110	65	55.9	89.2	64,000
	70	52.3	85.3	54,400
	23	82.9	116.8	330,400*
	24	82.4	116.6	327,700*
	25	81.8	116.5	325,200*
	26	81.3	116.3	322,700*
	27	80.8	116.1	320,300*
	28	80.3	115.9	315,600
	29	79.7	115.7	295,000
	30	79.2	115.5	276,600
	32	78.1	115.0	245,100
	34	77.0	114.6	219,200
120	36	76.0	114.0	197,500
	38	74.9	113.4	179,000
	40	73.8	112.8	163,100
	42	72.7	112.2	149,300
	44	71.6	111.5	137,200
	46	70.5	110.7	126,500
	48	69.4	109.9	116,900
	50	68.2	109.1	108,400
	55	65.4	106.8	90,400
	60	62.4	104.2	76,100
	65	59.4	101.2	64,500
	70	56.3	97.9	54,900
130	75	53.0	94.1	46,800
	24	83.0	126.8	309,200*
	25	82.5	126.6	307,000*
	26	82.0	126.4	304,800*
	27	81.6	126.3	302,800*
	28	81.1	126.1	300,800*
	29	80.6	125.9	295,800
	30	80.1	125.7	277,300
	32	79.1	125.3	245,800
	34	78.1	124.8	219,800
	36	77.2	124.4	198,000
	38	76.2	123.8	179,500
140	40	75.2	123.3	163,600
	42	74.2	122.7	149,700
	44	73.2	122.0	137,600
	46	72.2	121.4	126,800
	48	71.2	120.6	117,300
	50	70.1	119.9	108,700

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
150	55	67.6	117.8	90,700
	60	64.9	115.5	76,400
	65	62.2	112.8	64,700
	70	59.5	109.9	55,100
	75	56.6	106.6	46,900
	80	53.6	102.9	40,000
160	26	82.7	136.6	306,600*
	27	82.2	136.4	304,600*
	28	81.8	136.2	302,700*
	29	81.3	136.1	296,500
	30	80.9	135.9	278,000
	32	80.0	135.5	246,500
	34	79.1	135.1	220,500
	36	78.2	134.6	198,700
	38	77.3	134.2	180,200
	40	76.4	133.6	164,200
	42	75.4	133.1	150,400
	44	74.5	132.5	138,200
	46	73.6	131.9	127,500
	48	72.7	131.2	117,900
	50	71.7	130.5	109,300
	55	69.4	128.7	91,300
	60	67.0	126.5	77,000
	65	64.5	124.1	65,400
170	70	62.1	121.5	55,700
	75	59.5	118.5	47,500
	80	56.9	115.3	40,600
	85	54.2	111.7	34,600
	90	51.3	107.7	29,300
	27	82.8	146.5	297,300*
	28	82.4	146.4	295,600*
	29	81.9	146.2	293,900*
	30	81.5	146.0	278,600
	32	80.7	145.7	247,000
	34	79.9	145.3	220,900
	36	79.0	144.9	199,100
	38	78.2	144.4	180,500
	40	77.4	144.0	164,500
	42	76.5	143.5	150,600
	44	75.7	142.9	138,400
	46	74.8	142.3	127,700
	48	74.0	141.7	118,100
180	50	73.1	141.1	109,500
	55	70.9	139.4	91,400
	60	68.7	137.4	77,000
	65	66.5	135.2	65,300
	70	64.2	132.8	55,700
	75	61.9	130.1	47,500
	80	59.5	127.2	40,500
	85	57.1	124.0	34,500
	90	54.6	120.4	29,200
	95	52.0	116.5	24,600

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE

BOOM NO. 44 WITH HEAVY LIFT TOP

90' LUFFING JIB NO. 133 OR 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
150	28	82.9	156.5	257,100*
	29	82.5	156.3	255,300*
	30	82.1	156.2	253,500*
	32	81.3	155.8	247,300
	34	80.6	155.5	221,100
	36	79.8	155.1	199,300
	38	79.0	154.7	180,700
	40	78.2	154.2	164,700
	42	77.4	153.8	150,800
	44	76.6	153.3	138,600
	46	75.8	152.7	127,800
	48	75.1	152.2	118,200
	50	74.3	151.6	109,500
	55	72.3	150.0	91,400
	60	70.2	148.2	77,000
	65	68.2	146.2	65,300
	70	66.1	143.9	55,600
	75	63.9	141.5	47,500
	80	61.8	138.8	40,500
	85	59.6	135.9	34,400
160	90	57.3	132.6	29,100
	95	55.0	129.1	24,500
	100	52.6	125.3	20,400
	29	83.0	166.4	248,100*
	30	82.6	166.3	246,600*
	32	81.9	166.0	241,100*
	34	81.1	165.7	221,400
	36	80.4	165.3	199,500
	38	79.7	164.9	180,800
	40	79.0	164.5	164,800
	42	78.2	164.0	150,800
	44	77.5	163.6	138,600
	46	76.8	163.1	127,800
	48	76.0	162.6	118,100
	50	75.3	162.0	109,500
	55	73.4	160.5	91,300
	60	71.5	158.8	76,900
	65	69.6	157.0	65,200
	70	67.7	154.9	55,500
	75	65.7	152.6	47,300
170	80	63.7	150.2	40,200
	85	61.7	147.5	34,200
	90	59.6	144.5	28,900
	95	57.5	141.3	24,200
	100	55.3	137.9	20,100
	105	53.1	134.1	16,400
	30	83.0	176.4	238,100*
	32	82.4	176.1	225,200
	34	81.7	175.8	199,500
	36	81.0	175.5	178,000
180	38	80.3	175.1	159,800
	40	79.6	174.7	144,000
	42	78.9	174.3	130,400
	44	78.2	173.8	118,400
	46	77.5	173.4	107,800

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
170	48	76.9	172.9	98,300
	50	76.2	172.4	89,800
	55	74.4	171.0	72,000
	60	72.6	169.4	57,900
	65	70.9	167.6	46,300
	70	69.1	165.7	36,800
	75	67.2	163.6	28,700
	80	65.4	161.3	21,800
	85	63.5	158.8	15,800
	90	61.6	156.1	10,600
180	32	82.8	186.2	218,400*
	34	82.1	185.9	199,700
	36	81.5	185.6	178,100
	38	80.9	185.3	159,800
	40	80.2	184.9	144,000
	42	79.6	184.5	130,300
	44	78.9	184.1	118,300
	46	78.3	183.6	107,700
	48	77.6	183.2	98,200
	50	76.9	182.7	89,700
	55	75.3	181.4	71,800
	60	73.6	179.9	57,600
	65	72.0	178.3	46,000
	70	70.3	176.5	36,400
	75	68.6	174.5	28,400
190	80	66.8	172.3	21,400
	85	65.1	170.0	15,500
	90	63.3	167.5	10,200
	34	82.6	196.0	180,000*
	36	81.9	195.7	178,000
	38	81.3	195.4	159,700
	40	80.7	195.1	143,900
	42	80.1	194.7	130,100
	44	79.5	194.3	118,100
	46	78.9	193.9	107,400
200	48	78.3	193.4	97,900
	50	77.6	193.0	89,400
	55	76.1	191.7	71,500
	60	74.5	190.3	57,300
	65	72.9	188.8	45,700
	70	71.4	187.1	36,100
	75	69.7	185.3	28,000
	80	68.1	183.2	21,100
	85	66.5	181.1	15,100
	34	82.9	206.1	176,800*
210	36	82.4	205.8	172,400*
	38	81.8	205.5	159,600
	40	81.2	205.2	143,700
	42	80.6	204.8	130,000
	44	80.0	204.5	117,900
	46	79.4	204.1	107,200
	48	78.9	203.7	97,700
	50	78.3	203.2	89,100
	55	76.8	202.1	71,200

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
200	60	75.3	200.7	56,900
	65	73.8	199.3	45,300
	70	72.3	197.7	35,700
	75	70.8	195.9	27,600
	80	69.3	194.0	20,600
210	85	67.7	192.0	14,600

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE
BOOM NO. 44 WITH HEAVY LIFT TOP
100' LUFFING JIB NO. 133 OR 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
80	20	82.4	86.9	477,100*
	21	81.7	86.7	473,100*
	22	80.9	86.5	468,400*
	23	80.2	86.3	447,600*
	24	79.5	86.1	428,300*
	25	78.7	85.9	395,300
	26	78.0	85.6	364,600
	27	77.3	85.4	337,900
	28	76.5	85.1	314,400
	29	75.8	84.8	293,500
	30	75.0	84.5	274,900
	32	73.5	83.9	243,100
	34	72.0	83.2	216,900
	36	70.5	82.4	194,900
	38	68.9	81.6	176,300
	40	67.3	80.7	160,200
	42	65.8	79.8	146,200
	44	64.2	78.7	134,000
	46	62.5	77.6	123,100
	48	60.9	76.5	113,500
90	50	59.2	75.2	104,800
	55	54.8	71.7	86,600
	60	50.2	67.6	72,200
	65	45.1	62.7	60,400
	21	82.6	96.9	456,500*
	22	81.9	96.7	452,400*
	23	81.3	96.5	447,900*
	24	80.6	96.3	428,700*
	25	80.0	96.1	397,500
	26	79.3	95.9	366,800
	27	78.7	95.7	340,000
	28	78.0	95.4	316,400
	29	77.4	95.2	295,500
	30	76.7	94.9	276,800
	32	75.4	94.4	244,900
	34	74.1	93.7	218,700
	36	72.7	93.1	196,700
	38	71.4	92.4	178,000
	40	70.0	91.6	161,900
	42	68.6	90.8	147,900
	44	67.2	89.9	135,600
	46	65.8	88.9	124,700
	48	64.4	87.9	115,000
	50	63.0	86.8	106,400
	55	59.3	83.9	88,100
	60	55.4	80.4	73,700
	65	51.3	76.5	61,900
	70	47.0	71.8	52,100
	75	42.3	66.5	43,800

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
100	22	82.8	106.8	434,600*
	23	82.2	106.7	430,700*
	24	81.6	106.5	427,100*
	25	81.0	106.3	399,300
	26	80.4	106.1	368,500
	27	79.8	105.9	341,600
	28	79.3	105.7	318,000
	29	78.7	105.5	297,000
	30	78.1	105.2	278,300
	32	76.9	104.7	246,300
	34	75.7	104.2	220,000
	36	74.5	103.6	197,900
	38	73.3	103.0	179,200
	40	72.1	102.3	163,000
	42	70.9	101.5	149,000
	44	69.7	100.8	136,700
	46	68.4	99.9	125,800
	48	67.2	99.0	116,100
	50	65.9	98.1	107,300
	55	62.7	95.5	89,100
110	60	59.3	92.5	74,500
	65	55.9	89.2	62,700
	70	52.3	85.3	52,900
	75	48.5	80.9	44,600
	80	44.4	75.9	37,500
	23	82.9	116.8	336,800*
	24	82.4	116.6	334,000*
	25	81.8	116.5	331,200*
	26	81.3	116.3	328,600*
	27	80.8	116.1	326,000*
	28	80.3	115.9	319,200
	29	79.7	115.7	298,200
	30	79.2	115.5	279,500
	32	78.1	115.0	247,400
	34	77.0	114.6	221,000
	36	76.0	114.0	198,900
	38	74.9	113.4	180,100
	40	73.8	112.8	164,000
	42	72.7	112.2	149,900
	44	71.6	111.5	137,600
	46	70.5	110.7	126,700
	48	69.4	109.9	116,900
	50	68.2	109.1	108,200
	55	65.4	106.8	89,900
	60	62.4	104.2	75,300
	65	59.4	101.2	63,500
	70	56.3	97.9	53,700
	75	53.0	94.1	45,400
	80	49.6	89.9	38,300
	85	46.0	85.1	32,200
	90	42.2	79.7	26,800

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
120	24	83.0	126.8	315,300*
	25	82.5	126.6	312,900*
	26	82.0	126.4	310,600*
	27	81.6	126.3	308,400*
	28	81.1	126.1	306,200*
	29	80.6	125.9	299,200
	30	80.1	125.7	280,400
	32	79.1	125.3	248,300
	34	78.1	124.8	221,800
	36	77.2	124.4	199,700
	38	76.2	123.8	180,800
	40	75.2	123.3	164,600
	42	74.2	122.7	150,500
	44	73.2	122.0	138,100
	46	72.2	121.4	127,200
	48	71.2	120.6	117,400
	50	70.1	119.9	108,700
	55	67.6	117.8	90,400
	60	64.9	115.5	75,800
	65	62.2	112.8	63,900
130	70	59.5	109.9	54,000
	75	56.6	106.6	45,700
	80	53.6	102.9	38,600
	85	50.6	98.8	32,500
	90	47.3	94.2	27,100
	95	43.9	89.1	22,400
	26	82.7	136.6	312,600*
	27	82.2	136.4	310,500*
	28	81.8	136.2	308,400*
	29	81.3	136.1	300,100
	30	80.9	135.9	281,300
	32	80.0	135.5	249,100
	34	79.1	135.1	222,700
	36	78.2	134.6	200,500
	38	77.3	134.2	181,600
	40	76.4	133.6	165,400
	42	75.4	133.1	151,300
	44	74.5	132.5	139,000
	46	73.6	131.9	128,000
	48	72.7	131.2	118,300
	50	71.7	130.5	109,500
	55	69.4	128.7	91,200
	60	67.0	126.5	76,600
	65	64.5	124.1	64,700
	70	62.1	121.5	54,800
	75	59.5	118.5	46,500
	80	56.9	115.3	39,400
	85	54.2	111.7	33,300
	90	51.3	107.7	27,900
	95	48.4	103.3	23,200
	100	45.3	98.4	19,000
	105	42.0	92.9	15,200

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE
BOOM NO. 44 WITH HEAVY LIFT TOP
100' LUFFING JIB NO. 133 OR 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
140	27	82.8	146.5	303,300*
	28	82.4	146.4	301,400*
	29	81.9	146.2	299,500*
	30	81.5	146.0	282,000
	32	80.7	145.7	249,800
	34	79.9	145.3	223,200
	36	79.0	144.9	201,000
	38	78.2	144.4	182,100
	40	77.4	144.0	165,800
	42	76.5	143.5	151,700
	44	75.7	142.9	139,300
	46	74.8	142.3	128,300
	48	74.0	141.7	118,500
	50	73.1	141.1	109,800
	55	70.9	139.4	91,400
	60	68.7	137.4	76,700
	65	66.5	135.2	64,800
	70	64.2	132.8	55,000
	75	61.9	130.1	46,600
	80	59.5	127.2	39,500
150	85	57.1	124.0	33,300
	90	54.6	120.4	28,000
	95	52.0	116.5	23,200
	100	49.3	112.2	19,000
	105	46.5	107.5	15,200
	110	43.5	102.3	11,900
	28	82.9	156.5	263,900*
	29	82.5	156.3	262,000*
	30	82.1	156.2	260,100*
	32	81.3	155.8	250,200
	34	80.6	155.5	223,600
	36	79.8	155.1	201,300
	38	79.0	154.7	182,400
	40	78.2	154.2	166,100
	42	77.4	153.8	152,000
	44	76.6	153.3	139,500
	46	75.8	152.7	128,500
	48	75.1	152.2	118,700
	50	74.3	151.6	110,000
	55	72.3	150.0	91,500
	60	70.2	148.2	76,900
	65	68.2	146.2	65,000
	70	66.1	143.9	55,100
	75	63.9	141.5	46,700
	80	61.8	138.8	39,600
	85	59.6	135.9	33,400
	90	57.3	132.6	28,000
	95	55.0	129.1	23,300
	100	52.6	125.3	19,100
	105	50.1	121.2	15,300
	110	47.5	116.6	11,900

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
160	29	83.0	166.4	254,900*
	30	82.6	166.3	250,600
	32	81.9	166.0	219,700
	34	81.1	165.7	194,300
	36	80.4	165.3	173,000
	38	79.7	164.9	154,900
	40	79.0	164.5	139,400
	42	78.2	164.0	125,800
	44	77.5	163.6	113,900
	46	76.8	163.1	103,400
	48	76.0	162.6	94,000
	50	75.3	162.0	85,600
	55	73.4	160.5	68,000
	60	71.5	158.8	54,000
	65	69.6	157.0	42,600
	70	67.7	154.9	33,100
	75	65.7	152.6	25,100
	80	63.7	150.2	18,300
	85	61.7	147.5	12,400
170	30	83.0	176.4	246,300*
	32	82.4	176.1	220,000
	34	81.7	175.8	194,600
	36	81.0	175.5	173,300
	38	80.3	175.1	155,200
	40	79.6	174.7	139,600
	42	78.9	174.3	126,100
	44	78.2	173.8	114,200
	46	77.5	173.4	103,700
	48	76.9	172.9	94,300
	50	76.2	172.4	85,900
	55	74.4	171.0	68,300
	60	72.6	169.4	54,200
	65	70.9	167.6	42,800
	70	69.1	165.7	33,400
	75	67.2	163.6	25,400
	80	65.4	161.3	18,600
	85	63.5	158.8	12,700
180	32	82.8	186.2	220,300
	34	82.1	185.9	194,800
	36	81.5	185.6	173,400
	38	80.9	185.3	155,300
	40	80.2	184.9	139,700
	42	79.6	184.5	126,100
	44	78.9	184.1	114,200
	46	78.3	183.6	103,600
	48	77.6	183.2	94,200
	50	76.9	182.7	85,800
	55	75.3	181.4	68,100
	60	73.6	179.9	54,100
	65	72.0	178.3	42,600
	70	70.3	176.5	33,100
	75	68.6	174.5	25,100
	80	66.8	172.3	18,300
	85	65.1	170.0	12,300

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
190	34	82.6	196.0	180,000*
	36	81.9	195.7	173,400
	38	81.3	195.4	155,200
	40	80.7	195.1	139,500
	42	80.1	194.7	125,900
	44	79.5	194.3	114,000
	46	78.9	193.9	103,400
	48	78.3	193.4	94,000
	50	77.6	193.0	85,600
	55	76.1	191.7	67,900
	60	74.5	190.3	53,800
	65	72.9	188.8	42,300
	70	71.4	187.1	32,800
	75	69.7	185.3	24,800
	80	68.1	183.2	17,900
	85	66.5	181.1	12,000
200	34	82.9	206.1	180,000*
	36	82.4	205.8	173,400
	38	81.8	205.5	155,200
	40	81.2	205.2	139,500
	42	80.6	204.8	125,800
	44	80.0	204.5	113,900
	46	79.4	204.1	103,300
	48	78.9	203.7	93,800
	50	78.3	203.2	85,400
	55	76.8	202.1	67,600
	60	75.3	200.7	53,500
	65	73.8	199.3	42,000
	70	72.3	197.7	32,400
	75	70.8	195.9	24,400
	80	69.3	194.0	17,500
	85	67.7	192.0	11,600

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE
BOOM NO. 44 WITH HEAVY LIFT TOP
110' LUFFING JIB NO. 133 OR 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
80	20	82.4	86.9	470,300*
	21	81.7	86.7	466,100*
	22	80.9	86.5	462,100*
	23	80.2	86.3	443,700*
	24	79.5	86.1	423,800
	25	78.7	85.9	388,600
	26	78.0	85.6	358,200
	27	77.3	85.4	331,700
	28	76.5	85.1	308,400
	29	75.8	84.8	287,800
	30	75.0	84.5	269,300
	32	73.5	83.9	237,800
	34	72.0	83.2	211,800
	36	70.5	82.4	190,100
	38	68.9	81.6	171,600
	40	67.3	80.7	155,700
	42	65.8	79.8	141,900
	44	64.2	78.7	129,700
	46	62.5	77.6	119,000
	48	60.9	76.5	109,400
90	50	59.2	75.2	100,900
	55	54.8	71.7	82,900
	60	50.2	67.6	68,600
	65	45.1	62.7	56,900
	21	82.6	96.9	450,100*
	22	81.9	96.7	446,000*
	23	81.3	96.5	442,100*
	24	80.6	96.3	425,000*
	25	80.0	96.1	391,000
	26	79.3	95.9	360,600
	27	78.7	95.7	334,000
	28	78.0	95.4	310,700
	29	77.4	95.2	290,000
	30	76.7	94.9	271,500
	32	75.4	94.4	239,900
	34	74.1	93.7	213,800
	36	72.7	93.1	192,000
	38	71.4	92.4	173,500
	40	70.0	91.6	157,600
	42	68.6	90.8	143,700
	44	67.2	89.9	131,500
	46	65.8	88.9	120,800
	48	64.4	87.9	111,200
	50	63.0	86.8	102,600
	55	59.3	83.9	84,600
	60	55.4	80.4	70,200
	65	51.3	76.5	58,600
	70	47.0	71.8	48,900
	75	42.3	66.5	40,700

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
100	22	82.8	106.8	428,600*
	23	82.2	106.7	424,800*
	24	81.6	106.5	421,100*
	25	81.0	106.3	393,000
	26	80.4	106.1	362,500
	27	79.8	105.9	335,900
	28	79.3	105.7	312,400
	29	78.7	105.5	291,700
	30	78.1	105.2	273,100
	32	76.9	104.7	241,400
	34	75.7	104.2	215,300
	36	74.5	103.6	193,500
	38	73.3	103.0	174,900
	40	72.1	102.3	158,900
	42	70.9	101.5	145,000
	44	69.7	100.8	132,800
	46	68.4	99.9	122,000
	48	67.2	99.0	112,400
	50	65.9	98.1	103,700
	55	62.7	95.5	85,600
110	60	59.3	92.5	71,300
	65	55.9	89.2	59,500
	70	52.3	85.3	49,800
	75	48.5	80.9	41,700
	80	44.4	75.9	34,700
	23	82.9	116.8	332,900*
	24	82.4	116.6	330,100*
	25	81.8	116.5	327,300*
	26	81.3	116.3	324,700*
	27	80.8	116.1	322,100*
	28	80.3	115.9	313,800
	29	79.7	115.7	293,000
	30	79.2	115.5	274,400
	32	78.1	115.0	242,700
	34	77.0	114.6	216,500
	36	76.0	114.0	194,600
	38	74.9	113.4	176,000
	40	73.8	112.8	160,000
	42	72.7	112.2	146,000
	44	71.6	111.5	133,800
	46	70.5	110.7	123,000
	48	69.4	109.9	113,400
	50	68.2	109.1	104,700
	55	65.4	106.8	86,600
	60	62.4	104.2	72,200
	65	59.4	101.2	60,400
	70	56.3	97.9	50,700
	75	53.0	94.1	42,500
	80	49.6	89.9	35,500
	85	46.0	85.1	29,400
	90	42.2	79.7	24,200

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
120	24	83.0	126.8	311,600*
	25	82.5	126.6	309,300*
	26	82.0	126.4	306,900*
	27	81.6	126.3	304,700*
	28	81.1	126.1	302,600*
	29	80.6	125.9	294,100
	30	80.1	125.7	275,500
	32	79.1	125.3	243,600
	34	78.1	124.8	217,400
	36	77.2	124.4	195,400
	38	76.2	123.8	176,800
	40	75.2	123.3	160,700
	42	74.2	122.7	146,800
	44	73.2	122.0	134,500
	46	72.2	121.4	123,700
	48	71.2	120.6	114,000
	50	70.1	119.9	105,300
	55	67.6	117.8	87,100
	60	64.9	115.5	72,700
	65	62.2	112.8	60,900
130	70	59.5	109.9	51,200
	75	56.6	106.6	43,000
	80	53.6	102.9	35,900
	85	50.6	98.8	29,800
	90	47.3	94.2	24,500
	95	43.9	89.1	19,900
	26	82.7	136.6	309,000*
	27	82.2	136.4	306,800*
	28	81.8	136.2	304,700*
	29	81.3	136.1	295,100
	30	80.9	135.9	276,400
	32	80.0	135.5	244,600
	34	79.1	135.1	218,400
	36	78.2	134.6	196,400
	38	77.3	134.2	177,700
	40	76.4	133.6	161,600
	42	75.4	133.1	147,700
	44	74.5	132.5	135,400
	46	73.6	131.9	124,600
	48	72.7	131.2	114,900
	50	71.7	130.5	106,200
	55	69.4	128.7	88,000
	60	67.0	126.5	73,600
	65	64.5	124.1	61,800
	70	62.1	121.5	52,100
	75	59.5	118.5	43,800
	80	56.9	115.3	36,800
	85	54.2	111.7	30,700
	90	51.3	107.7	25,400
	95	48.4	103.3	20,700
	100	45.3	98.4	16,600
	105	42.0	92.9	12,900

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE
BOOM NO. 44 WITH HEAVY LIFT TOP
110' LUFFING JIB NO. 133 OR 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
140	27	82.8	146.5	299,700*
	28	82.4	146.4	297,800*
	29	81.9	146.2	295,900
	30	81.5	146.0	277,200
	32	80.7	145.7	245,300
	34	79.9	145.3	219,000
	36	79.0	144.9	197,000
	38	78.2	144.4	178,200
	40	77.4	144.0	162,100
	42	76.5	143.5	148,100
	44	75.7	142.9	135,800
	46	74.8	142.3	124,900
	48	74.0	141.7	115,300
	50	73.1	141.1	106,600
	55	70.9	139.4	88,300
	60	68.7	137.4	73,800
	65	66.5	135.2	62,000
	70	64.2	132.8	52,300
	75	61.9	130.1	44,000
	80	59.5	127.2	36,900
150	85	57.1	124.0	30,900
	90	54.6	120.4	25,500
	95	52.0	116.5	20,800
	100	49.3	112.2	16,700
	105	46.5	107.5	13,000
	28	82.9	156.5	260,400*
	29	82.5	156.3	258,500*
	30	82.1	156.2	244,200
	32	81.3	155.8	213,800
	34	80.6	155.5	188,700
160	36	79.8	155.1	167,700
	38	79.0	154.7	149,900
	40	78.2	154.2	134,500
	42	77.4	153.8	121,200
	44	76.6	153.3	109,400
	46	75.8	152.7	99,100
	48	75.1	152.2	89,800
	50	74.3	151.6	81,600
	55	72.3	150.0	64,200
	60	70.2	148.2	50,400
170	65	68.2	146.2	39,100
	70	66.1	143.9	29,800
	75	63.9	141.5	21,900
	80	61.8	138.8	15,200
180	29	83.0	166.4	251,400*
	30	82.6	166.3	244,800
	32	81.9	166.0	214,200
	34	81.1	165.7	189,100
	36	80.4	165.3	168,000
	38	79.7	164.9	150,100
	40	79.0	164.5	134,700
	42	78.2	164.0	121,400
	44	77.5	163.6	109,600
	46	76.8	163.1	99,200
190	48	76.0	162.6	89,900

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
160	50	75.3	162.0	81,600
	55	73.4	160.5	64,200
	60	71.5	158.8	50,300
	65	69.6	157.0	39,100
	70	67.7	154.9	29,700
170	75	65.7	152.6	21,800
	80	63.7	150.2	15,100
170	30	83.0	176.4	242,300*
	32	82.4	176.1	214,600
	34	81.7	175.8	189,400
	36	81.0	175.5	168,400
	38	80.3	175.1	150,500
	40	79.6	174.7	135,100
	42	78.9	174.3	121,700
	44	78.2	173.8	109,900
	46	77.5	173.4	99,500
	48	76.9	172.9	90,300
180	50	76.2	172.4	82,000
	55	74.4	171.0	64,500
	60	72.6	169.4	50,700
	65	70.9	167.6	39,400
	70	69.1	165.7	30,100
	75	67.2	163.6	22,200
	80	65.4	161.3	15,400
180	32	82.8	186.2	214,900
	34	82.1	185.9	189,700
	36	81.5	185.6	168,600
	38	80.9	185.3	150,600
	40	80.2	184.9	135,200
	42	79.6	184.5	121,800
	44	78.9	184.1	110,000
	46	78.3	183.6	99,500
	48	77.6	183.2	90,300
	50	76.9	182.7	81,900
190	55	75.3	181.4	64,400
	60	73.6	179.9	50,500
	65	72.0	178.3	39,200
	70	70.3	176.5	29,900
	75	68.6	174.5	21,900
	80	66.8	172.3	15,200
190	34	82.6	196.0	180,000*
	36	81.9	195.7	168,600
	38	81.3	195.4	150,600
	40	80.7	195.1	135,100
	42	80.1	194.7	121,700
	44	79.5	194.3	109,900
	46	78.9	193.9	99,400
	48	78.3	193.4	90,100
	50	77.6	193.0	81,800

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
190	55	76.1	191.7	64,300
	60	74.5	190.3	50,300
	65	72.9	188.8	39,000
	70	71.4	187.1	29,600
	75	69.7	185.3	21,700
200	80	68.1	183.2	14,900
200	34	82.9	206.1	180,000*
	36	82.4	205.8	168,700
	38	81.8	205.5	150,600
	40	81.2	205.2	135,100
	42	80.6	204.8	121,600
	44	80.0	204.5	109,800
	46	79.4	204.1	99,300
	48	78.9	203.7	90,000
	50	78.3	203.2	81,600
	55	76.8	202.1	64,000
210	60	75.3	200.7	50,100
	65	73.8	199.3	38,700
	70	72.3	197.7	29,300
	75	70.8	195.9	21,300
	80	69.3	194.0	14,500

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE
BOOM NO. 44 WITH HEAVY LIFT TOP
120' LUFFING JIB NO. 133 OR 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
80	20	82.4	86.9	475,200*
	21	81.7	86.7	471,600*
	22	80.9	86.5	468,000*
	23	80.2	86.3	447,000*
	24	79.5	86.1	427,500*
	25	78.7	85.9	395,000
	26	78.0	85.6	363,900
	27	77.3	85.4	336,800
	28	76.5	85.1	313,000
	29	75.8	84.8	291,900
	30	75.0	84.5	273,000
	32	73.5	83.9	240,700
	34	72.0	83.2	214,100
	36	70.5	82.4	191,900
	38	68.9	81.6	172,900
	40	67.3	80.7	156,700
	42	65.8	79.8	142,500
	44	64.2	78.7	130,000
	46	62.5	77.6	119,000
	48	60.9	76.5	109,200
	50	59.2	75.2	100,400
	55	54.8	71.7	81,900
	60	50.2	67.6	67,200
	65	45.1	62.7	55,200
	70	39.6	56.8	45,300
	75	33.3	49.4	36,800
90	21	82.6	96.9	463,000*
	22	81.9	96.7	458,800*
	23	81.3	96.5	447,600*
	24	80.6	96.3	428,200*
	25	80.0	96.1	397,800
	26	79.3	95.9	366,600
	27	78.7	95.7	339,500
	28	78.0	95.4	315,600
	29	77.4	95.2	294,400
	30	76.7	94.9	275,500
	32	75.4	94.4	243,100
	34	74.1	93.7	216,500
	36	72.7	93.1	194,200
	38	71.4	92.4	175,200
	40	70.0	91.6	158,900
	42	68.6	90.8	144,700
	44	67.2	89.9	132,200
	46	65.8	88.9	121,200
	48	64.4	87.9	111,400
	50	63.0	86.8	102,600
	55	59.3	83.9	84,100
	60	55.4	80.4	69,300
	65	51.3	76.5	57,400
	70	47.0	71.8	47,400
	75	42.3	66.5	39,000
	80	37.1	60.0	31,800

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
100	22	82.8	106.8	441,100*
	23	82.2	106.7	437,100*
	24	81.6	106.5	428,400*
	25	81.0	106.3	400,100
	26	80.4	106.1	368,800
	27	79.8	105.9	341,600
	28	79.3	105.7	317,600
	29	78.7	105.5	296,400
	30	78.1	105.2	277,400
	32	76.9	104.7	245,000
	34	75.7	104.2	218,300
	36	74.5	103.6	195,900
	38	73.3	103.0	176,900
	40	72.1	102.3	160,500
	42	70.9	101.5	146,300
	44	69.7	100.8	133,800
	46	68.4	99.9	122,700
	48	67.2	99.0	112,900
	50	65.9	98.1	104,000
	55	62.7	95.5	85,500
	60	59.3	92.5	70,700
	65	55.9	89.2	58,700
	70	52.3	85.3	48,700
	75	48.5	80.9	40,300
	80	44.4	75.9	33,100
110	85	40.0	70.0	26,800
	90	35.1	63.1	21,400
	23	82.9	116.8	340,200*
	24	82.4	116.6	337,200*
	25	81.8	116.5	334,200*
	26	81.3	116.3	331,400*
	27	80.8	116.1	328,700*
	28	80.3	115.9	319,300
	29	79.7	115.7	298,000
	30	79.2	115.5	279,000
	32	78.1	115.0	246,500
	34	77.0	114.6	219,700
	36	76.0	114.0	197,300
	38	74.9	113.4	178,200
	40	73.8	112.8	161,800
	42	72.7	112.2	147,600
	44	71.6	111.5	135,100
	46	70.5	110.7	124,000
	48	69.4	109.9	114,100
	50	68.2	109.1	105,300
	55	65.4	106.8	86,700
	60	62.4	104.2	71,900
	65	59.4	101.2	59,900
	70	56.3	97.9	49,900
	75	53.0	94.1	41,500
	80	49.6	89.9	34,200
	85	46.0	85.1	28,000
	90	42.2	79.7	22,500
	95	38.0	73.4	17,700
	100	33.3	66.0	13,400

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
120	24	83.0	126.8	328,700*
	25	82.5	126.6	326,200*
	26	82.0	126.4	323,800*
	27	81.6	126.3	321,500*
	28	81.1	126.1	319,300*
	29	80.6	125.9	299,300
	30	80.1	125.7	280,200
	32	79.1	125.3	247,600
	34	78.1	124.8	220,800
	36	77.2	124.4	198,300
	38	76.2	123.8	179,200
	40	75.2	123.3	162,800
	42	74.2	122.7	148,500
	44	73.2	122.0	135,900
	46	72.2	121.4	124,800
	48	71.2	120.6	115,000
	50	70.1	119.9	106,100
	55	67.6	117.8	87,500
	60	64.9	115.5	72,700
	65	62.2	112.8	60,600
	70	59.5	109.9	50,600
	75	56.6	106.6	42,100
	80	53.6	102.9	34,900
	85	50.6	98.8	28,700
	90	47.3	94.2	23,200
130	95	43.9	89.1	18,400
	100	40.2	83.3	14,100
	105	36.2	76.6	10,200
	26	82.7	136.6	315,900*
	27	82.2	136.4	313,600*
	28	81.8	136.2	311,300*
	29	81.3	136.1	300,400
	30	80.9	135.9	281,300
	32	80.0	135.5	248,700
	34	79.1	135.1	221,900
	36	78.2	134.6	199,400
	38	77.3	134.2	180,300
	40	76.4	133.6	163,900
	42	75.4	133.1	149,600
	44	74.5	132.5	137,000
	46	73.6	131.9	125,900
	48	72.7	131.2	116,000
	50	71.7	130.5	107,200
	55	69.4	128.7	88,500
	60	67.0	126.5	73,700
	65	64.5	124.1	61,700
	70	62.1	121.5	51,700
	75	59.5	118.5	43,200
	80	56.9	115.3	36,000
	85	54.2	111.7	29,800
	90	51.3	107.7	24,300
	95	48.4	103.3	19,500
	100	45.3	98.4	15,200
	105	42.0	92.9	11,400

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE
BOOM NO. 44 WITH HEAVY LIFT TOP
120' LUFFING JIB NO. 133 OR 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
140	27	82.8	146.5	306,600*
	28	82.4	146.4	288,700
	29	81.9	146.2	268,200
	30	81.5	146.0	249,900
	32	80.7	145.7	218,600
	34	79.9	145.3	192,900
	36	79.0	144.9	171,300
	38	78.2	144.4	152,900
	40	77.4	144.0	137,100
	42	76.5	143.5	123,400
	44	75.7	142.9	111,300
	46	74.8	142.3	100,700
	48	74.0	141.7	91,200
	50	73.1	141.1	82,600
	55	70.9	139.4	64,700
	60	68.7	137.4	50,500
150	65	66.5	135.2	38,900
	70	64.2	132.8	29,300
	75	61.9	130.1	21,100
	80	59.5	127.2	14,200
	28	82.9	156.5	268,000*
	29	82.5	156.3	265,900*
	30	82.1	156.2	250,600
	32	81.3	155.8	219,300
	34	80.6	155.5	193,500
	36	79.8	155.1	171,800
	38	79.0	154.7	153,500
	40	78.2	154.2	137,600
	42	77.4	153.8	123,900
	44	76.6	153.3	111,800
	46	75.8	152.7	101,100
	48	75.1	152.2	91,600
160	50	74.3	151.6	83,100
	55	72.3	150.0	65,100
	60	70.2	148.2	50,900
	65	68.2	146.2	39,200
	70	66.1	143.9	29,600
	75	63.9	141.5	21,500
	80	61.8	138.8	14,500
	29	83.0	166.4	258,900*
	30	82.6	166.3	251,300
	32	81.9	166.0	219,900
	34	81.1	165.7	194,000
	36	80.4	165.3	172,300
	38	79.7	164.9	153,900
	40	79.0	164.5	138,000
	42	78.2	164.0	124,200
	44	77.5	163.6	112,100
	46	76.8	163.1	101,400
	48	76.0	162.6	91,800
	50	75.3	162.0	83,300

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
160	55	73.4	160.5	65,300
	60	71.5	158.8	51,000
	65	69.6	157.0	39,400
	70	67.7	154.9	29,700
	75	65.7	152.6	21,500
	80	63.7	150.2	14,600
	30	83.0	176.4	250,400*
	32	82.4	176.1	220,300
170	34	81.7	175.8	194,400
	36	81.0	175.5	172,700
	38	80.3	175.1	154,300
	40	79.6	174.7	138,400
	42	78.9	174.3	124,600
	44	78.2	173.8	112,500
	46	77.5	173.4	101,800
	48	76.9	172.9	92,300
	50	76.2	172.4	83,700
	55	74.4	171.0	65,700
	60	72.6	169.4	51,400
	65	70.9	167.6	39,800
	70	69.1	165.7	30,200
	75	67.2	163.6	22,000
	80	65.4	161.3	15,000
180	32	82.8	186.2	220,800
	34	82.1	185.9	194,800
	36	81.5	185.6	173,100
	38	80.9	185.3	154,600
	40	80.2	184.9	138,700
	42	79.6	184.5	124,800
	44	78.9	184.1	112,700
	46	78.3	183.6	101,900
	48	77.6	183.2	92,400
	50	76.9	182.7	83,800
	55	75.3	181.4	65,700
	60	73.6	179.9	51,400
	65	72.0	178.3	39,700
	70	70.3	176.5	30,100
	75	68.6	174.5	21,900
	80	66.8	172.3	14,900
190	34	82.6	196.0	180,000*
	36	81.9	195.7	173,100
	38	81.3	195.4	154,600
	40	80.7	195.1	138,700
	42	80.1	194.7	124,800
	44	79.5	194.3	112,700
	46	78.9	193.9	101,900
	48	78.3	193.4	92,300
	50	77.6	193.0	83,700
	55	76.1	191.7	65,700
	60	74.5	190.3	51,300
	65	72.9	188.8	39,600
	70	71.4	187.1	29,900
	75	69.7	185.3	21,700
	80	68.1	183.2	14,700

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
200	34	82.9	206.1	180,000*
	36	82.4	205.8	173,300
	38	81.8	205.5	154,700
	40	81.2	205.2	138,700
	42	80.6	204.8	124,900
	44	80.0	204.5	112,700
	46	79.4	204.1	101,900
	48	78.9	203.7	92,200
	50	78.3	203.2	83,600
	55	76.8	202.1	65,500
	60	75.3	200.7	51,100
	65	73.8	199.3	39,400
	70	72.3	197.7	29,700
	75	70.8	195.9	21,500
	80	69.3	194.0	14,500

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE

BOOM NO. 44 WITH HEAVY LIFT TOP

130' LUFFING JIB NO. 133 OR 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
80	20	82.4	86.9	471,900*
	21	81.7	86.7	467,900*
	22	80.9	86.5	463,600*
	23	80.2	86.3	444,300*
	24	79.5	86.1	424,900*
	25	78.7	85.9	390,100
	26	78.0	85.6	359,300
	27	77.3	85.4	332,300
	28	76.5	85.1	308,600
	29	75.8	84.8	287,600
	30	75.0	84.5	268,900
	32	73.5	83.9	236,800
	34	72.0	83.2	210,400
	36	70.5	82.4	188,300
	38	68.9	81.6	169,400
	40	67.3	80.7	153,300
	42	65.8	79.8	139,200
	44	64.2	78.7	126,800
	46	62.5	77.6	115,900
	48	60.9	76.5	106,100
90	50	59.2	75.2	97,400
	55	54.8	71.7	79,000
	60	50.2	67.6	64,400
	65	45.1	62.7	52,500
	70	39.6	56.8	42,600
	75	33.3	49.4	34,300
	21	82.6	96.9	459,000*
	22	81.9	96.7	454,500*
	23	81.3	96.5	445,000*
	24	80.6	96.3	425,700*
	25	80.0	96.1	393,100
	26	79.3	95.9	362,200
	27	78.7	95.7	335,200
	28	78.0	95.4	311,400
	29	77.4	95.2	290,400
	30	76.7	94.9	271,600
	32	75.4	94.4	239,400
	34	74.1	93.7	213,000
	36	72.7	93.1	190,800
	38	71.4	92.4	171,900
	40	70.0	91.6	155,700
	42	68.6	90.8	141,600
	44	67.2	89.9	129,200
	46	65.8	88.9	118,300
	48	64.4	87.9	108,500
	50	63.0	86.8	99,700
	55	59.3	83.9	81,300
	60	55.4	80.4	66,700
	65	51.3	76.5	54,800
	70	47.0	71.8	44,900
	75	42.3	66.5	36,600
	80	37.1	60.0	29,400

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
100	22	82.8	106.8	437,400*
	23	82.2	106.7	433,200*
	24	81.6	106.5	425,900*
	25	81.0	106.3	395,600
	26	80.4	106.1	364,600
	27	79.8	105.9	337,500
	28	79.3	105.7	313,700
	29	78.7	105.5	292,500
	30	78.1	105.2	273,700
	32	76.9	104.7	241,400
	34	75.7	104.2	214,900
	36	74.5	103.6	192,700
	38	73.3	103.0	173,700
	40	72.1	102.3	157,500
	42	70.9	101.5	143,300
	44	69.7	100.8	130,900
	46	68.4	99.9	119,900
	48	67.2	99.0	110,100
	50	65.9	98.1	101,300
	55	62.7	95.5	82,900
110	60	59.3	92.5	68,200
	65	55.9	89.2	56,300
	70	52.3	85.3	46,400
	75	48.5	80.9	38,000
	80	44.4	75.9	30,900
	85	40.0	70.0	24,700
	90	35.1	63.1	19,200
	23	82.9	116.8	337,800*
	24	82.4	116.6	334,700*
	25	81.8	116.5	331,700*
	26	81.3	116.3	328,900*
	27	80.8	116.1	326,100*
	28	80.3	115.9	315,400
	29	79.7	115.7	294,300
	30	79.2	115.5	275,400
	32	78.1	115.0	243,100
	34	77.0	114.6	216,500
	36	76.0	114.0	194,200
	38	74.9	113.4	175,200
	40	73.8	112.8	158,900
	42	72.7	112.2	144,800
	44	71.6	111.5	132,300
	46	70.5	110.7	121,300
	48	69.4	109.9	111,500
	50	68.2	109.1	102,700
	55	65.4	106.8	84,200
	60	62.4	104.2	69,600
	65	59.4	101.2	57,600
	70	56.3	97.9	47,700
	75	53.0	94.1	39,300
	80	49.6	89.9	32,100
	85	46.0	85.1	25,900
	90	42.2	79.7	20,500
	95	38.0	73.4	15,700
	100	33.3	66.0	11,500

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
120	24	83.0	126.8	326,900*
	25	82.5	126.6	324,300*
	26	82.0	126.4	322,000*
	27	81.6	126.3	319,600*
	28	81.1	126.1	316,900
	29	80.6	125.9	295,700
	30	80.1	125.7	276,700
	32	79.1	125.3	244,300
	34	78.1	124.8	217,700
	36	77.2	124.4	195,300
	38	76.2	123.8	176,300
	40	75.2	123.3	160,000
	42	74.2	122.7	145,800
	44	73.2	122.0	133,300
	46	72.2	121.4	122,300
	48	71.2	120.6	112,400
	50	70.1	119.9	103,600
	55	67.6	117.8	85,100
	60	64.9	115.5	70,400
	65	62.2	112.8	58,400
130	70	59.5	109.9	48,500
	75	56.6	106.6	40,100
	80	53.6	102.9	32,900
	85	50.6	98.8	26,700
	90	47.3	94.2	21,300
	95	43.9	89.1	16,500
	100	40.2	83.3	12,200
	26	82.7	136.6	313,600*
	27	82.2	136.4	305,900
	28	81.8	136.2	283,000
	29	81.3	136.1	262,700
	30	80.9	135.9	244,600
	32	80.0	135.5	213,600
	34	79.1	135.1	188,100
	36	78.2	134.6	166,800
	38	77.3	134.2	148,600
	40	76.4	133.6	133,000
	42	75.4	133.1	119,400
	44	74.5	132.5	107,400
	46	73.6	131.9	96,900
	48	72.7	131.2	87,500
	50	71.7	130.5	79,000
	55	69.4	128.7	61,300
	60	67.0	126.5	47,200
	65	64.5	124.1	35,700
	70	62.1	121.5	26,200
	75	59.5	118.5	18,200
	80	56.9	115.3	11,300

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE
BOOM NO. 44 WITH HEAVY LIFT TOP
130' LUFFING JIB NO. 133 OR 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 0	27	82.8	146.5	304,300*
	28	82.4	146.4	284,300
	29	81.9	146.2	263,900
	30	81.5	146.0	245,700
	32	80.7	145.7	214,700
	34	79.9	145.3	189,100
	36	79.0	144.9	167,700
	38	78.2	144.4	149,400
	40	77.4	144.0	133,800
	42	76.5	143.5	120,100
	44	75.7	142.9	108,100
	46	74.8	142.3	97,600
	48	74.0	141.7	88,100
	50	73.1	141.1	79,700
	55	70.9	139.4	61,900
	60	68.7	137.4	47,700
1 5 0	65	66.5	135.2	36,200
	70	64.2	132.8	26,700
	75	61.9	130.1	18,600
	80	59.5	127.2	11,700
	28	82.9	156.5	265,800*
	29	82.5	156.3	263,700*
	30	82.1	156.2	246,500
	32	81.3	155.8	215,400
	34	80.6	155.5	189,800
	36	79.8	155.1	168,300
	38	79.0	154.7	150,100
	40	78.2	154.2	134,400
	42	77.4	153.8	120,700
	44	76.6	153.3	108,700
	46	75.8	152.7	98,100
	48	75.1	152.2	88,600
1 6 0	50	74.3	151.6	80,200
	55	72.3	150.0	62,400
	60	70.2	148.2	48,200
	65	68.2	146.2	36,700
	70	66.1	143.9	27,100
	75	63.9	141.5	19,100
	80	61.8	138.8	12,200
	29	83.0	166.4	256,800*
	30	82.6	166.3	247,300
	32	81.9	166.0	216,100
	34	81.1	165.7	190,400
	36	80.4	165.3	168,900
	38	79.7	164.9	150,600
	40	79.0	164.5	134,800
	42	78.2	164.0	121,100
	44	77.5	163.6	109,100
	46	76.8	163.1	98,400
	48	76.0	162.6	89,000
	50	75.3	162.0	80,500

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
1 6 0	55	73.4	160.5	62,600
	60	71.5	158.8	48,400
	65	69.6	157.0	36,900
	70	67.7	154.9	27,300
	75	65.7	152.6	19,200
	80	63.7	150.2	12,300
1 7 0	30	83.0	176.4	247,800
	32	82.4	176.1	216,600
	34	81.7	175.8	190,900
	36	81.0	175.5	169,400
	38	80.3	175.1	151,100
	40	79.6	174.7	135,300
	42	78.9	174.3	121,600
	44	78.2	173.8	109,600
	46	77.5	173.4	98,900
	48	76.9	172.9	89,500
	50	76.2	172.4	81,000
	55	74.4	171.0	63,100
	60	72.6	169.4	48,900
	65	70.9	167.6	37,400
	70	69.1	165.7	27,800
	75	67.2	163.6	19,700
	80	65.4	161.3	12,800
1 8 0	32	82.8	186.2	217,100
	34	82.1	185.9	191,400
	36	81.5	185.6	169,800
	38	80.9	185.3	151,400
	40	80.2	184.9	135,600
	42	79.6	184.5	121,900
	44	78.9	184.1	109,800
	46	78.3	183.6	99,100
	48	77.6	183.2	89,600
	50	76.9	182.7	81,100
	55	75.3	181.4	63,200
	60	73.6	179.9	49,000
	65	72.0	178.3	37,400
	70	70.3	176.5	27,800
	75	68.6	174.5	19,700
	80	66.8	172.3	12,700
1 9 0	34	82.6	196.0	180,000*
	36	81.9	195.7	169,900
	38	81.3	195.4	151,500
	40	80.7	195.1	135,700
	42	80.1	194.7	121,900
	44	79.5	194.3	109,800
	46	78.9	193.9	99,200
	48	78.3	193.4	89,600
	50	77.6	193.0	81,100
	55	76.1	191.7	63,200
	60	74.5	190.3	48,900
	65	72.9	188.8	37,300
	70	71.4	187.1	27,700
	75	69.7	185.3	19,600
	80	68.1	183.2	12,600

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
2 0 0	34	82.9	206.1	180,000*
	36	82.4	205.8	170,100
	38	81.8	205.5	151,700
	40	81.2	205.2	135,800
	42	80.6	204.8	122,000
	44	80.0	204.5	109,900
	46	79.4	204.1	99,200
	48	78.9	203.7	89,600
	50	78.3	203.2	81,100
	55	76.8	202.1	63,100
	60	75.3	200.7	48,800
	65	73.8	199.3	37,200
	70	72.3	197.7	27,500
	75	70.8	195.9	19,400
	80	69.3	194.0	12,400

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE

BOOM NO. 44 WITH HEAVY LIFT TOP

140' LUFFING JIB NO. 133 OR 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
80	20	82.4	86.9	466,300*
	21	81.7	86.7	461,700*
	22	80.9	86.5	457,200*
	23	80.2	86.3	440,900*
	24	79.5	86.1	419,900
	25	78.7	85.9	384,300
	26	78.0	85.6	353,600
	27	77.3	85.4	326,900
	28	76.5	85.1	303,300
	29	75.8	84.8	282,400
	30	75.0	84.5	263,800
	32	73.5	83.9	231,900
	34	72.0	83.2	205,600
	36	70.5	82.4	183,600
	38	68.9	81.6	164,900
	40	67.3	80.7	148,800
	42	65.8	79.8	134,800
	44	64.2	78.7	122,600
	46	62.5	77.6	111,700
	48	60.9	76.5	102,000
90	50	59.2	75.2	93,300
	55	54.8	71.7	75,100
	60	50.2	67.6	60,600
	65	45.1	62.7	48,800
	70	39.6	56.8	38,900
	75	33.3	49.4	30,700
	21	82.6	96.9	453,200*
	22	81.9	96.7	448,700*
	23	81.3	96.5	441,700*
	24	80.6	96.3	422,400*
	25	80.0	96.1	387,600
	26	79.3	95.9	356,800
	27	78.7	95.7	330,000
	28	78.0	95.4	306,400
	29	77.4	95.2	285,400
	30	76.7	94.9	266,700
	32	75.4	94.4	234,800
	34	74.1	93.7	208,500
	36	72.7	93.1	186,400
	38	71.4	92.4	167,700
	40	70.0	91.6	151,500
	42	68.6	90.8	137,500
	44	67.2	89.9	125,200
	46	65.8	88.9	114,300
	48	64.4	87.9	104,600
	50	63.0	86.8	95,900
	55	59.3	83.9	77,600
	60	55.4	80.4	63,100
	65	51.3	76.5	51,300
	70	47.0	71.8	41,400
	75	42.3	66.5	33,100
	80	37.1	60.0	26,000

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
100	22	82.8	106.8	432,000*
	23	82.2	106.7	427,700*
	24	81.6	106.5	422,700*
	25	81.0	106.3	390,300
	26	80.4	106.1	359,400
	27	79.8	105.9	332,500
	28	79.3	105.7	308,800
	29	78.7	105.5	287,800
	30	78.1	105.2	269,100
	32	76.9	104.7	237,000
	34	75.7	104.2	210,600
	36	74.5	103.6	188,500
	38	73.3	103.0	169,700
	40	72.1	102.3	153,500
	42	70.9	101.5	139,400
	44	69.7	100.8	127,100
	46	68.4	99.9	116,200
	48	67.2	99.0	106,400
	50	65.9	98.1	97,700
	55	62.7	95.5	79,400
110	60	59.3	92.5	64,800
	65	55.9	89.2	52,900
	70	52.3	85.3	43,100
	75	48.5	80.9	34,800
	80	44.4	75.9	27,700
	85	40.0	70.0	21,500
	90	35.1	63.1	16,100
	23	82.9	116.8	334,200*
	24	82.4	116.6	331,100*
	25	81.8	116.5	328,100*
	26	81.3	116.3	325,200*
	27	80.8	116.1	322,400*
	28	80.3	115.9	310,800
	29	79.7	115.7	289,700
	30	79.2	115.5	270,900
	32	78.1	115.0	238,800
	34	77.0	114.6	212,400
	36	76.0	114.0	190,200
	38	74.9	113.4	171,400
	40	73.8	112.8	155,100
	42	72.7	112.2	141,000
	44	71.6	111.5	128,700
	46	70.5	110.7	117,700
	48	69.4	109.9	108,000
	50	68.2	109.1	99,200
	55	65.4	106.8	80,900
	60	62.4	104.2	66,300
	65	59.4	101.2	54,400

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
110	70	56.3	97.9	44,500
	75	53.0	94.1	36,200
	80	49.6	89.9	29,100
	85	46.0	85.1	22,900
	90	42.2	79.7	17,600
120	95	38.0	73.4	12,800
	24	83.0	126.8	324,000*
	25	82.5	126.6	321,500*
	26	82.0	126.4	319,000*
	27	81.6	126.3	298,500
	28	81.1	126.1	275,800
	29	80.6	125.9	255,600
	30	80.1	125.7	237,600
	32	79.1	125.3	206,900
	34	78.1	124.8	181,500
	36	77.2	124.4	160,300
	38	76.2	123.8	142,300
	40	75.2	123.3	126,800
	42	74.2	122.7	113,200
	44	73.2	122.0	101,400
	46	72.2	121.4	90,900
	48	71.2	120.6	81,600
	50	70.1	119.9	73,200
	55	67.6	117.8	55,600
	60	64.9	115.5	41,600
	65	62.2	112.8	30,200
130	70	59.5	109.9	20,700
	75	56.6	106.6	12,800
	26	82.7	136.6	310,200*
	27	82.2	136.4	300,200
	28	81.8	136.2	277,400
	29	81.3	136.1	257,300
	30	80.9	135.9	239,300
	32	80.0	135.5	208,500
	34	79.1	135.1	183,200
	36	78.2	134.6	162,000
	38	77.3	134.2	143,900
	40	76.4	133.6	128,400
	42	75.4	133.1	114,900
	44	74.5	132.5	103,000
	46	73.6	131.9	92,500
	48	72.7	131.2	83,200
	50	71.7	130.5	74,800
	55	69.4	128.7	57,200
	60	67.0	126.5	43,200
	65	64.5	124.1	31,800
	70	62.1	121.5	22,400
	75	59.5	118.5	14,400

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE

BOOM NO. 44 WITH HEAVY LIFT TOP

140' LUFFING JIB NO. 133 OR 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 0	27	82.8	146.5	301,000*
	28	82.4	146.4	278,800
	29	81.9	146.2	258,600
	30	81.5	146.0	240,600
	32	80.7	145.7	209,700
	34	79.9	145.3	184,300
	36	79.0	144.9	163,000
	38	78.2	144.4	144,900
	40	77.4	144.0	129,300
	42	76.5	143.5	115,800
	44	75.7	142.9	103,900
	46	74.8	142.3	93,400
	48	74.0	141.7	84,000
	50	73.1	141.1	75,600
	55	70.9	139.4	57,900
	60	68.7	137.4	43,900
1 5 0	65	66.5	135.2	32,500
	70	64.2	132.8	23,000
	75	61.9	130.1	15,000
	28	82.9	156.5	262,600*
	29	82.5	156.3	259,600
	30	82.1	156.2	241,500
	32	81.3	155.8	210,600
	34	80.6	155.5	185,100
	36	79.8	155.1	163,800
	38	79.0	154.7	145,600
	40	78.2	154.2	130,000
	42	77.4	153.8	116,500
	44	76.6	153.3	104,600
	46	75.8	152.7	94,000
	48	75.1	152.2	84,600
	50	74.3	151.6	76,200
1 6 0	55	72.3	150.0	58,500
	60	70.2	148.2	44,500
	65	68.2	146.2	33,000
	70	66.1	143.9	23,500
	75	63.9	141.5	15,500
	29	83.0	166.4	253,600*
	30	82.6	166.3	242,300
	32	81.9	166.0	211,300
	34	81.1	165.7	185,800
	36	80.4	165.3	164,400
	38	79.7	164.9	146,200
	40	79.0	164.5	130,600
	42	78.2	164.0	117,000
	44	77.5	163.6	105,000
	46	76.8	163.1	94,500
	48	76.0	162.6	85,000
	50	75.3	162.0	76,600
	55	73.4	160.5	58,900
	60	71.5	158.8	44,800
	65	69.6	157.0	33,300
	70	67.7	154.9	23,800
	75	65.7	152.6	15,800

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
1 7 0	30	83.0	176.4	242,900
	32	82.4	176.1	211,900
	34	81.7	175.8	186,400
	36	81.0	175.5	165,000
	38	80.3	175.1	146,800
	40	79.6	174.7	131,200
	42	78.9	174.3	117,600
	44	78.2	173.8	105,600
	46	77.5	173.4	95,100
	48	76.9	172.9	85,600
	50	76.2	172.4	77,200
	55	74.4	171.0	59,500
	60	72.6	169.4	45,400
	65	70.9	167.6	33,900
	70	69.1	165.7	24,400
	75	67.2	163.6	16,400
1 8 0	32	82.8	186.2	212,500
	34	82.1	185.9	186,900
	36	81.5	185.6	165,500
	38	80.9	185.3	147,200
	40	80.2	184.9	131,500
	42	79.6	184.5	117,900
	44	78.9	184.1	105,900
	46	78.3	183.6	95,300
	48	77.6	183.2	85,900
	50	76.9	182.7	77,400
	55	75.3	181.4	59,600
	60	73.6	179.9	45,500
	65	72.0	178.3	34,000
	70	70.3	176.5	24,400
	75	68.6	174.5	16,400
1 9 0	34	82.6	196.0	180,000*
	36	81.9	195.7	165,700
	38	81.3	195.4	147,400
	40	80.7	195.1	131,700
	42	80.1	194.7	118,000
	44	79.5	194.3	106,000
	46	78.9	193.9	95,400
	48	78.3	193.4	85,900
	50	77.6	193.0	77,500
	55	76.1	191.7	59,700
	60	74.5	190.3	45,500
	65	72.9	188.8	34,000
	70	71.4	187.1	24,400
	75	69.7	185.3	16,400
2 0 0	34	82.9	206.1	180,000*
	36	82.4	205.8	165,900
	38	81.8	205.5	147,600
	40	81.2	205.2	131,900
	42	80.6	204.8	118,100
	44	80.0	204.5	106,100
	46	79.4	204.1	95,500
	48	78.9	203.7	86,000

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
2 0 0	50	78.3	203.2	77,500
	55	76.8	202.1	59,600
	60	75.3	200.7	45,400
	65	73.8	199.3	33,900
	70	72.3	197.7	24,300
	75	70.8	195.9	16,200

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE
BOOM NO. 44 WITH HEAVY LIFT TOP
150' LUFFING JIB NO. 133 OR 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
80	20	82.4	86.9	460,500*
	21	81.7	86.7	455,800*
	22	80.9	86.5	451,200*
	23	80.2	86.3	437,400*
	24	79.5	86.1	413,500
	25	78.7	85.9	378,200
	26	78.0	85.6	347,700
	27	77.3	85.4	321,100
	28	76.5	85.1	297,700
	29	75.8	84.8	277,000
	30	75.0	84.5	258,400
	32	73.5	83.9	226,800
	34	72.0	83.2	200,700
	36	70.5	82.4	178,900
	38	68.9	81.6	160,300
	40	67.3	80.7	144,300
	42	65.8	79.8	130,400
	44	64.2	78.7	118,200
	46	62.5	77.6	107,400
	48	60.9	76.5	97,800
90	50	59.2	75.2	89,200
	55	54.8	71.7	71,100
	60	50.2	67.6	56,700
	65	45.1	62.7	45,000
	70	39.6	56.8	35,300
	75	33.3	49.4	27,100
	21	82.6	96.9	447,800*
	22	81.9	96.7	443,200*
	23	81.3	96.5	438,300*
	24	80.6	96.3	417,100
	25	80.0	96.1	381,700
	26	79.3	95.9	351,200
	27	78.7	95.7	324,500
	28	78.0	95.4	301,100
	29	77.4	95.2	280,300
	30	76.7	94.9	261,700
	32	75.4	94.4	230,000
	34	74.1	93.7	203,800
	36	72.7	93.1	181,900
	38	71.4	92.4	163,300
	40	70.0	91.6	147,300
	42	68.6	90.8	133,400
	44	67.2	89.9	121,100
	46	65.8	88.9	110,300
	48	64.4	87.9	100,700
	50	63.0	86.8	92,100

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
90	55	59.3	83.9	73,900
	60	55.4	80.4	59,500
	65	51.3	76.5	47,700
	70	47.0	71.8	38,000
	75	42.3	66.5	29,800
	80	37.1	60.0	22,800
100	22	82.8	106.8	427,000*
	23	82.2	106.7	422,600*
	24	81.6	106.5	418,400*
	25	81.0	106.3	384,700
	26	80.4	106.1	354,000
	27	79.8	105.9	327,300
	28	79.3	105.7	303,700
	29	78.7	105.5	282,900
	30	78.1	105.2	264,200
	32	76.9	104.7	232,400
	34	75.7	104.2	206,200
	36	74.5	103.6	184,200
	38	73.3	103.0	165,500
	40	72.1	102.3	149,500
	42	70.9	101.5	135,500
	44	69.7	100.8	123,200
	46	68.4	99.9	112,400
	48	67.2	99.0	102,700
	50	65.9	98.1	94,100
	55	62.7	95.5	75,900
110	60	59.3	92.5	61,400
	65	55.9	89.2	49,600
	70	52.3	85.3	39,800
	75	48.5	80.9	31,600
	80	44.4	75.9	24,600
	85	40.0	70.0	18,500
	90	35.1	63.1	13,100
	23	82.9	116.8	330,900*
	24	82.4	116.6	327,700*
	25	81.8	116.5	324,700*
	26	81.3	116.3	315,800
	27	80.8	116.1	290,200
	28	80.3	115.9	267,800
	29	79.7	115.7	247,800
	30	79.2	115.5	230,000
	32	78.1	115.0	199,600
	34	77.0	114.6	174,500
	36	76.0	114.0	153,600
	38	74.9	113.4	135,700
	40	73.8	112.8	120,400
	42	72.7	112.2	107,000
	44	71.6	111.5	95,300

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
110	46	70.5	110.7	84,900
	48	69.4	109.9	75,700
	50	68.2	109.1	67,400
	55	65.4	106.8	50,000
	60	62.4	104.2	36,200
	65	59.4	101.2	24,900
120	70	56.3	97.9	15,500
	24	83.0	126.8	321,300*
	25	82.5	126.6	318,700*
	26	82.0	126.4	316,300*
	27	81.6	126.3	292,300
	28	81.1	126.1	269,800
	29	80.6	125.9	249,800
	30	80.1	125.7	231,900
	32	79.1	125.3	201,400
	34	78.1	124.8	176,300
	36	77.2	124.4	155,300
	38	76.2	123.8	137,400
	40	75.2	123.3	122,000
	42	74.2	122.7	108,600
	44	73.2	122.0	96,800
	46	72.2	121.4	86,400
	48	71.2	120.6	77,200
	50	70.1	119.9	68,800
	55	67.6	117.8	51,400
	60	64.9	115.5	37,500
130	65	62.2	112.8	26,200
	70	59.5	109.9	16,900
	26	82.7	136.6	307,000*
	27	82.2	136.4	294,200
	28	81.8	136.2	271,600
	29	81.3	136.1	251,600
	30	80.9	135.9	233,800
	32	80.0	135.5	203,200
	34	79.1	135.1	178,100
	36	78.2	134.6	157,100
	38	77.3	134.2	139,200
	40	76.4	133.6	123,800
	42	75.4	133.1	110,400
	44	74.5	132.5	98,600
	46	73.6	131.9	88,200
	48	72.7	131.2	78,900
	50	71.7	130.5	70,600
	55	69.4	128.7	53,200
	60	67.0	126.5	39,300
	65	64.5	124.1	28,000
	70	62.1	121.5	18,700
	75	59.5	118.5	10,800

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE
BOOM NO. 44 WITH HEAVY LIFT TOP
150' LUFFING JIB NO. 133 OR 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
140	27	82.8	146.5	295,800
	28	82.4	146.4	273,100
	29	81.9	146.2	253,100
	30	81.5	146.0	235,200
	32	80.7	145.7	204,600
	34	79.9	145.3	179,300
	36	79.0	144.9	158,200
	38	78.2	144.4	140,300
	40	77.4	144.0	124,800
	42	76.5	143.5	111,400
	44	75.7	142.9	99,600
	46	74.8	142.3	89,200
	48	74.0	141.7	79,900
	50	73.1	141.1	71,500
	55	70.9	139.4	54,000
	60	68.7	137.4	40,100
150	65	66.5	135.2	28,800
	70	64.2	132.8	19,400
	75	61.9	130.1	11,500
	28	82.9	156.5	259,600*
	29	82.5	156.3	254,200
	30	82.1	156.2	236,200
	32	81.3	155.8	205,500
	34	80.6	155.5	180,300
	36	79.8	155.1	159,100
	38	79.0	154.7	141,100
	40	78.2	154.2	125,700
	42	77.4	153.8	112,200
	44	76.6	153.3	100,400
	46	75.8	152.7	89,900
	48	75.1	152.2	80,600
	50	74.3	151.6	72,300
160	55	72.3	150.0	54,700
	60	70.2	148.2	40,800
	65	68.2	146.2	29,500
	70	66.1	143.9	20,100
	75	63.9	141.5	12,100
	29	83.0	166.4	250,700*
	30	82.6	166.3	237,200
	32	81.9	166.0	206,400
	34	81.1	165.7	181,100
	36	80.4	165.3	159,900
	38	79.7	164.9	141,800
	40	79.0	164.5	126,300
	42	78.2	164.0	112,800
	44	77.5	163.6	101,000
	46	76.8	163.1	90,500
	48	76.0	162.6	81,100
	50	75.3	162.0	72,800
	55	73.4	160.5	55,200
	60	71.5	158.8	41,200
	65	69.6	157.0	29,800
	70	67.7	154.9	20,400
	75	65.7	152.6	12,400

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
170	30	83.0	176.4	237,900
	32	82.4	176.1	207,100
	34	81.7	175.8	181,800
	36	81.0	175.5	160,500
	38	80.3	175.1	142,500
	40	79.6	174.7	127,000
	42	78.9	174.3	113,500
	44	78.2	173.8	101,600
	46	77.5	173.4	91,200
	48	76.9	172.9	81,800
	50	76.2	172.4	73,500
	55	74.4	171.0	55,900
	60	72.6	169.4	41,900
	65	70.9	167.6	30,500
	70	69.1	165.7	21,100
	75	67.2	163.6	13,100
180	32	82.8	186.2	207,800
	34	82.1	185.9	182,400
	36	81.5	185.6	161,100
	38	80.9	185.3	143,000
	40	80.2	184.9	127,400
	42	79.6	184.5	113,900
	44	78.9	184.1	102,000
	46	78.3	183.6	91,500
	48	77.6	183.2	82,100
	50	76.9	182.7	73,700
	55	75.3	181.4	56,100
	60	73.6	179.9	42,100
	65	72.0	178.3	30,700
	70	70.3	176.5	21,200
	75	68.6	174.5	13,200
190	34	82.6	196.0	180,000*
	36	81.9	195.7	161,400
	38	81.3	195.4	143,300
	40	80.7	195.1	127,700
	42	80.1	194.7	114,100
	44	79.5	194.3	102,200
	46	78.9	193.9	91,700
	48	78.3	193.4	82,300
	50	77.6	193.0	73,900
	55	76.1	191.7	56,200
	60	74.5	190.3	42,200
	65	72.9	188.8	30,800
	70	71.4	187.1	21,300
	75	69.7	185.3	13,300
200	34	82.9	206.1	180,000*
	36	82.4	205.8	161,700
	38	81.8	205.5	143,500
	40	81.2	205.2	127,900
	42	80.6	204.8	114,300
	44	80.0	204.5	102,400
	46	79.4	204.1	91,800
	48	78.9	203.7	82,400

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
200	50	78.3	203.2	74,000
	55	76.8	202.1	56,200
	60	75.3	200.7	42,200
	65	73.8	199.3	30,700
	70	72.3	197.7	21,200
	75	70.8	195.9	13,200

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE
BOOM NO. 44 WITH HEAVY LIFT TOP
160' LUFFING JIB NO. 133 OR 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
80	20	82.4	86.9	453,900*
	21	81.7	86.7	449,100*
	22	80.9	86.5	444,400*
	23	80.2	86.3	433,600*
	24	79.5	86.1	406,900
	25	78.7	85.9	371,800
	26	78.0	85.6	341,600
	27	77.3	85.4	315,100
	28	76.5	85.1	291,900
	29	75.8	84.8	271,300
	30	75.0	84.5	252,900
	32	73.5	83.9	221,500
	34	72.0	83.2	195,600
	36	70.5	82.4	173,900
	38	68.9	81.6	155,400
	40	67.3	80.7	139,500
	42	65.8	79.8	125,700
	44	64.2	78.7	113,600
	46	62.5	77.6	102,900
	48	60.9	76.5	93,400
90	50	59.2	75.2	84,800
	55	54.8	71.7	66,800
	60	50.2	67.6	52,600
	65	45.1	62.7	41,000
	70	39.6	56.8	31,300
	75	33.3	49.4	23,200
	21	82.6	96.9	441,600*
	22	81.9	96.7	436,900*
	23	81.3	96.5	432,300*
	24	80.6	96.3	410,900
	25	80.0	96.1	375,700
	26	79.3	95.9	345,300
	27	78.7	95.7	318,900
	28	78.0	95.4	295,600
	29	77.4	95.2	274,900
	30	76.7	94.9	256,500
	32	75.4	94.4	224,900
	34	74.1	93.7	198,900
	36	72.7	93.1	177,200
	38	71.4	92.4	158,700
	40	70.0	91.6	142,800
	42	68.6	90.8	129,000
	44	67.2	89.9	116,800
	46	65.8	88.9	106,100
	48	64.4	87.9	96,500
	50	63.0	86.8	87,900
	55	59.3	83.9	69,900
	60	55.4	80.4	55,600
	65	51.3	76.5	43,900
	70	47.0	71.8	34,300
	75	42.3	66.5	26,100
	80	37.1	60.0	19,200

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
100	22	82.8	106.8	421,200*
	23	82.2	106.7	408,100
	24	81.6	106.5	368,700
	25	81.0	106.3	335,100
	26	80.4	106.1	306,100
	27	79.8	105.9	280,800
	28	79.3	105.7	258,600
	29	78.7	105.5	238,800
	30	78.1	105.2	221,200
	32	76.9	104.7	191,100
	34	75.7	104.2	166,300
	36	74.5	103.6	145,500
	38	73.3	103.0	127,800
	40	72.1	102.3	112,600
	42	70.9	101.5	99,400
	44	69.7	100.8	87,800
	46	68.4	99.9	77,500
	48	67.2	99.0	68,400
	50	65.9	98.1	60,200
	55	62.7	95.5	42,900
	60	59.3	92.5	29,300
	65	55.9	89.2	18,100
110	23	82.9	116.8	327,100*
	24	82.4	116.6	323,900*
	25	81.8	116.5	320,800*
	26	81.3	116.3	309,000
	27	80.8	116.1	283,700
	28	80.3	115.9	261,300
	29	79.7	115.7	241,600
	30	79.2	115.5	223,900
	32	78.1	115.0	193,700
	34	77.0	114.6	168,800
	36	76.0	114.0	148,000
	38	74.9	113.4	130,300
	40	73.8	112.8	115,100
	42	72.7	112.2	101,800
	44	71.6	111.5	90,200
	46	70.5	110.7	79,900
	48	69.4	109.9	70,700
	50	68.2	109.1	62,500
	55	65.4	106.8	45,300
	60	62.4	104.2	31,600
	65	59.4	101.2	20,400
	70	56.3	97.9	11,100
120	24	83.0	126.8	318,100*
	25	82.5	126.6	315,600*
	26	82.0	126.4	311,400
	27	81.6	126.3	285,900
	28	81.1	126.1	263,600
	29	80.6	125.9	243,700
	30	80.1	125.7	226,000
	32	79.1	125.3	195,700

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
120	34	78.1	124.8	170,800
	36	77.2	124.4	149,900
	38	76.2	123.8	132,200
	40	75.2	123.3	116,900
	42	74.2	122.7	103,600
	44	73.2	122.0	91,900
	46	72.2	121.4	81,600
	48	71.2	120.6	72,400
	50	70.1	119.9	64,200
	55	67.6	117.8	46,900
130	60	64.9	115.5	33,100
	65	62.2	112.8	21,900
	70	59.5	109.9	12,600
140	26	82.7	136.6	303,400*
	27	82.2	136.4	288,000
	28	81.8	136.2	265,600
	29	81.3	136.1	245,700
	30	80.9	135.9	228,000
	32	80.0	135.5	197,700
	34	79.1	135.1	172,800
	36	78.2	134.6	151,900
	38	77.3	134.2	134,100
	40	76.4	133.6	118,800
150	42	75.4	133.1	105,500
	44	74.5	132.5	93,900
	46	73.6	131.9	83,600
	48	72.7	131.2	74,400
	50	71.7	130.5	66,100
	55	69.4	128.7	48,800
	60	67.0	126.5	35,100
	65	64.5	124.1	23,900
	70	62.1	121.5	14,600
160	27	82.8	146.5	289,700
	28	82.4	146.4	267,300
	29	81.9	146.2	247,300
	30	81.5	146.0	229,600
	32	80.7	145.7	199,200
	34	79.9	145.3	174,200
	36	79.0	144.9	153,200
	38	78.2	144.4	135,400
	40	77.4	144.0	120,000
	42	76.5	143.5	106,700
170	44	75.7	142.9	95,000
	46	74.8	142.3	84,700
	48	74.0	141.7	75,400
	50	73.1	141.1	67,200
	55	70.9	139.4	49,800
	60	68.7	137.4	36,000
	65	66.5	135.2	24,800
	70	64.2	132.8	15,500

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE

BOOM NO. 44 WITH HEAVY LIFT TOP

160' LUFFING JIB NO. 133 OR 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
150	28	82.9	156.5	256,100*
	29	82.5	156.3	248,600
	30	82.1	156.2	230,700
	32	81.3	155.8	200,300
	34	80.6	155.5	175,200
	36	79.8	155.1	154,200
	38	79.0	154.7	136,400
	40	78.2	154.2	121,000
	42	77.4	153.8	107,600
	44	76.6	153.3	95,900
	46	75.8	152.7	85,600
	48	75.1	152.2	76,300
	50	74.3	151.6	68,000
	55	72.3	150.0	50,600
	60	70.2	148.2	36,800
	65	68.2	146.2	25,600
	70	66.1	143.9	16,200
160	29	83.0	166.4	247,300*
	30	82.6	166.3	231,800
	32	81.9	166.0	201,300
	34	81.1	165.7	176,100
	36	80.4	165.3	155,100
	38	79.7	164.9	137,200
	40	79.0	164.5	121,800
	42	78.2	164.0	108,400
	44	77.5	163.6	96,600
	46	76.8	163.1	86,200
	48	76.0	162.6	76,900
	50	75.3	162.0	68,600
	55	73.4	160.5	51,200
	60	71.5	158.8	37,300
	65	69.6	157.0	26,000
	70	67.7	154.9	16,700
170	30	83.0	176.4	232,600
	32	82.4	176.1	202,100
	34	81.7	175.8	176,900
	36	81.0	175.5	155,800
	38	80.3	175.1	137,900
	40	79.6	174.7	122,500
	42	78.9	174.3	109,100
	44	78.2	173.8	97,400
	46	77.5	173.4	87,000
	48	76.9	172.9	77,700
	50	76.2	172.4	69,400
	55	74.4	171.0	52,000
	60	72.6	169.4	38,100
	65	70.9	167.6	26,800
	70	69.1	165.7	17,500

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
180	32	82.8	186.2	202,800
	34	82.1	185.9	177,600
	36	81.5	185.6	156,500
	38	80.9	185.3	138,500
	40	80.2	184.9	123,100
	42	79.6	184.5	109,600
	44	78.9	184.1	97,800
	46	78.3	183.6	87,400
	48	77.6	183.2	78,100
	50	76.9	182.7	69,800
190	55	75.3	181.4	52,300
	60	73.6	179.9	38,400
	65	72.0	178.3	27,100
	70	70.3	176.5	17,700
	34	82.6	196.0	178,000
	36	81.9	195.7	156,800
	38	81.3	195.4	138,900
	40	80.7	195.1	123,400
	42	80.1	194.7	109,900
	44	79.5	194.3	98,100
200	46	78.9	193.9	87,700
	48	78.3	193.4	78,300
	50	77.6	193.0	70,000
	55	76.1	191.7	52,500
	60	74.5	190.3	38,500
	65	72.9	188.8	27,200
	70	71.4	187.1	17,800

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE

BOOM NO. 44 WITH HEAVY LIFT TOP

170' LUFFING JIB NO. 133 OR 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
80	20	82.4	86.9	448,600*
	21	81.7	86.7	443,600*
	22	80.9	86.5	438,700*
	23	80.2	86.3	430,500*
	24	79.5	86.1	400,900
	25	78.7	85.9	366,000
	26	78.0	85.6	336,000
	27	77.3	85.4	309,800
	28	76.5	85.1	286,700
	29	75.8	84.8	266,300
	30	75.0	84.5	248,000
	32	73.5	83.9	216,800
	34	72.0	83.2	191,100
	36	70.5	82.4	169,600
	38	68.9	81.6	151,300
	40	67.3	80.7	135,500
	42	65.8	79.8	121,800
	44	64.2	78.7	109,800
	46	62.5	77.6	99,200
	48	60.9	76.5	89,700
90	50	59.2	75.2	81,200
	55	54.8	71.7	63,400
	60	50.2	67.6	49,200
	65	45.1	62.7	37,700
	70	39.6	56.8	28,200
	75	33.3	49.4	20,200
	21	82.6	96.9	435,900*
	22	81.9	96.7	431,000*
	23	81.3	96.5	396,700
	24	80.6	96.3	357,800
	25	80.0	96.1	324,600
	26	79.3	95.9	295,900
	27	78.7	95.7	270,900
	28	78.0	95.4	248,900
	29	77.4	95.2	229,400
	30	76.7	94.9	212,000
	32	75.4	94.4	182,200
	34	74.1	93.7	157,700
	36	72.7	93.1	137,200
	38	71.4	92.4	119,800
	40	70.0	91.6	104,800
	42	68.6	90.8	91,700
	44	67.2	89.9	80,300
	46	65.8	88.9	70,100
	48	64.4	87.9	61,100
	50	63.0	86.8	53,000
	55	59.3	83.9	36,000
	60	55.4	80.4	22,500
	65	51.3	76.5	11,500

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
100	22	82.8	106.8	415,800*
	23	82.2	106.7	400,900
	24	81.6	106.5	361,900
	25	81.0	106.3	328,600
	26	80.4	106.1	299,800
	27	79.8	105.9	274,700
	28	79.3	105.7	252,600
	29	78.7	105.5	233,100
	30	78.1	105.2	215,600
	32	76.9	104.7	185,700
	34	75.7	104.2	161,100
	36	74.5	103.6	140,500
	38	73.3	103.0	123,000
	40	72.1	102.3	108,000
	42	70.9	101.5	94,900
	44	69.7	100.8	83,400
	46	68.4	99.9	73,200
	48	67.2	99.0	64,200
	50	65.9	98.1	56,000
	55	62.7	95.5	39,000
	60	59.3	92.5	25,400
	65	55.9	89.2	14,400
110	23	82.9	116.8	323,600*
	24	82.4	116.6	320,400*
	25	81.8	116.5	317,300*
	26	81.3	116.3	302,900
	27	80.8	116.1	277,800
	28	80.3	115.9	255,600
	29	79.7	115.7	236,000
	30	79.2	115.5	218,500
	32	78.1	115.0	188,600
	34	77.0	114.6	163,900
	36	76.0	114.0	143,300
	38	74.9	113.4	125,700
	40	73.8	112.8	110,700
	42	72.7	112.2	97,500
	44	71.6	111.5	86,000
	46	70.5	110.7	75,800
	48	69.4	109.9	66,700
	50	68.2	109.1	58,600
	55	65.4	106.8	41,500
	60	62.4	104.2	27,900
	65	59.4	101.2	16,900
120	24	83.0	126.8	315,900*
	25	82.5	126.6	313,300*
	26	82.0	126.4	305,400
	27	81.6	126.3	280,200
	28	81.1	126.1	258,000
	29	80.6	125.9	238,400
	30	80.1	125.7	220,800
	32	79.1	125.3	190,800

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
120	34	78.1	124.8	166,100
	36	77.2	124.4	145,400
	38	76.2	123.8	127,800
	40	75.2	123.3	112,600
	42	74.2	122.7	99,500
	44	73.2	122.0	87,900
	46	72.2	121.4	77,700
	48	71.2	120.6	68,600
	50	70.1	119.9	60,400
	55	67.6	117.8	43,300
	60	64.9	115.5	29,700
	65	62.2	112.8	18,600
130	26	82.7	136.6	300,200*
	27	82.2	136.4	282,400
	28	81.8	136.2	260,200
	29	81.3	136.1	240,500
	30	80.9	135.9	223,000
	32	80.0	135.5	192,900
	34	79.1	135.1	168,200
	36	78.2	134.6	147,500
	38	77.3	134.2	129,900
	40	76.4	133.6	114,700
	42	75.4	133.1	101,600
	44	74.5	132.5	90,000
	46	73.6	131.9	79,800
	48	72.7	131.2	70,700
	50	71.7	130.5	62,500
	55	69.4	128.7	45,400
	60	67.0	126.5	31,700
	65	64.5	124.1	20,700
	70	62.1	121.5	11,500
140	27	82.8	146.5	284,300
	28	82.4	146.4	262,000
	29	81.9	146.2	242,300
	30	81.5	146.0	224,600
	32	80.7	145.7	194,500
	34	79.9	145.3	169,700
	36	79.0	144.9	148,900
	38	78.2	144.4	131,300
	40	77.4	144.0	116,100
	42	76.5	143.5	102,900
	44	75.7	142.9	91,300
	46	74.8	142.3	81,000
	48	74.0	141.7	71,900
	50	73.1	141.1	63,700
	55	70.9	139.4	46,500
	60	68.7	137.4	32,800
	65	66.5	135.2	21,700
	70	64.2	132.8	12,500

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE

BOOM NO. 44 WITH HEAVY LIFT TOP

170' LUFFING JIB NO. 133 OR 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 5 0	28	82.9	156.5	253,100*
	29	82.5	156.3	243,600
	30	82.1	156.2	225,900
	32	81.3	155.8	195,700
	34	80.6	155.5	170,900
	36	79.8	155.1	150,100
	38	79.0	154.7	132,400
	40	78.2	154.2	117,100
	42	77.4	153.8	103,900
	44	76.6	153.3	92,300
	46	75.8	152.7	82,000
	48	75.1	152.2	72,900
	50	74.3	151.6	64,600
	55	72.3	150.0	47,400
	60	70.2	148.2	33,700
	65	68.2	146.2	22,600
	70	66.1	143.9	13,300
1 6 0	29	83.0	166.4	244,300*
	30	82.6	166.3	227,100
	32	81.9	166.0	196,800
	34	81.1	165.7	171,900
	36	80.4	165.3	151,000
	38	79.7	164.9	133,300
	40	79.0	164.5	118,000
	42	78.2	164.0	104,700
	44	77.5	163.6	93,100
	46	76.8	163.1	82,800
	48	76.0	162.6	73,600
	50	75.3	162.0	65,300
	55	73.4	160.5	48,100
	60	71.5	158.8	34,300
	65	69.6	157.0	23,100
	70	67.7	154.9	13,900
1 7 0	30	83.0	176.4	228,000
	32	82.4	176.1	197,700
	34	81.7	175.8	172,800
	36	81.0	175.5	151,900
	38	80.3	175.1	134,100
	40	79.6	174.7	118,900
	42	78.9	174.3	105,600
	44	78.2	173.8	93,900
	46	77.5	173.4	83,600
	48	76.9	172.9	74,400
	50	76.2	172.4	66,200
	55	74.4	171.0	48,900
	60	72.6	169.4	35,200
	65	70.9	167.6	24,000
	70	69.1	165.7	14,700

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
1 8 0	32	82.8	186.2	198,500
	34	82.1	185.9	173,500
	36	81.5	185.6	152,600
	38	80.9	185.3	134,800
	40	80.2	184.9	119,500
	42	79.6	184.5	106,100
	44	78.9	184.1	94,500
	46	78.3	183.6	84,100
	48	77.6	183.2	74,900
	50	76.9	182.7	66,700
1 9 0	55	75.3	181.4	49,300
	60	73.6	179.9	35,500
	65	72.0	178.3	24,300
	70	70.3	176.5	15,000
	34	82.6	196.0	174,000
	36	81.9	195.7	153,000
	38	81.3	195.4	135,200
	40	80.7	195.1	119,800
	42	80.1	194.7	106,500
	44	79.5	194.3	94,800
	46	78.9	193.9	84,400
	48	78.3	193.4	75,200
	50	77.6	193.0	66,900
	55	76.1	191.7	49,600
	60	74.5	190.3	35,800
	65	72.9	188.8	24,500
	70	71.4	187.1	15,200

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE

BOOM NO. 44 WITH HEAVY LIFT TOP

180' LUFFING JIB NO. 133 OR 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
80	20	82.4	86.9	441,700*
	21	81.7	86.7	436,600*
	22	80.9	86.5	428,200
	23	80.2	86.3	382,500
	24	79.5	86.1	344,000
	25	78.7	85.9	311,200
	26	78.0	85.6	282,900
	27	77.3	85.4	258,100
	28	76.5	85.1	236,400
	29	75.8	84.8	217,100
	30	75.0	84.5	199,900
	32	73.5	83.9	170,500
	34	72.0	83.2	146,200
	36	70.5	82.4	125,900
	38	68.9	81.6	108,700
	40	67.3	80.7	93,900
	42	65.8	79.8	81,000
	44	64.2	78.7	69,600
	46	62.5	77.6	59,600
	48	60.9	76.5	50,700
90	50	59.2	75.2	42,700
	55	54.8	71.7	26,000
	60	50.2	67.6	12,600
	21	82.6	96.9	430,200*
	22	81.9	96.7	425,200*
	23	81.3	96.5	388,100
	24	80.6	96.3	349,500
	25	80.0	96.1	316,600
	26	79.3	95.9	288,100
	27	78.7	95.7	263,300
	28	78.0	95.4	241,500
	29	77.4	95.2	222,200
	30	76.7	94.9	204,900
	32	75.4	94.4	175,400
	34	74.1	93.7	151,100
	36	72.7	93.1	130,800
	38	71.4	92.4	113,500
	40	70.0	91.6	98,600
	42	68.6	90.8	85,700
	44	67.2	89.9	74,300
100	46	65.8	88.9	64,300
	48	64.4	87.9	55,400
	50	63.0	86.8	47,300
	55	59.3	83.9	30,500
	60	55.4	80.4	17,200
	22	82.8	106.8	410,600*
	23	82.2	106.7	392,600
	24	81.6	106.5	353,900
	25	81.0	106.3	320,900
	26	80.4	106.1	292,400
110	27	79.8	105.9	267,500
	28	79.3	105.7	245,600
	29	78.7	105.5	226,200
	30	78.1	105.2	208,900

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
100	32	76.9	104.7	179,200
	34	75.7	104.2	154,900
	36	74.5	103.6	134,400
	38	73.3	103.0	117,100
	40	72.1	102.3	102,200
	42	70.9	101.5	89,200
	44	69.7	100.8	77,800
	46	68.4	99.9	67,700
	48	67.2	99.0	58,700
	50	65.9	98.1	50,700
110	55	62.7	95.5	33,800
	60	59.3	92.5	20,400
120	23	82.9	116.8	320,200*
	24	82.4	116.6	317,000*
	25	81.8	116.5	313,800*
	26	81.3	116.3	295,700
	27	80.8	116.1	270,800
	28	80.3	115.9	248,800
	29	79.7	115.7	229,400
	30	79.2	115.5	212,000
	32	78.1	115.0	182,300
	34	77.0	114.6	157,900
130	36	76.0	114.0	137,400
	38	74.9	113.4	120,000
	40	73.8	112.8	105,100
	42	72.7	112.2	92,100
	44	71.6	111.5	80,700
	46	70.5	110.7	70,600
	48	69.4	109.9	61,600
	50	68.2	109.1	53,500
	55	65.4	106.8	36,600
	60	62.4	104.2	23,100
140	65	59.4	101.2	12,200
	24	83.0	126.8	312,700*
	25	82.5	126.6	310,100*
	26	82.0	126.4	298,500
	27	81.6	126.3	273,500
	28	81.1	126.1	251,500
	29	80.6	125.9	232,000
	30	80.1	125.7	214,500
	32	79.1	125.3	184,800
	34	78.1	124.8	160,300
150	36	77.2	124.4	139,700
	38	76.2	123.8	122,300
	40	75.2	123.3	107,300
	42	74.2	122.7	94,200
	44	73.2	122.0	82,800
	46	72.2	121.4	72,600
	48	71.2	120.6	63,600
	50	70.1	119.9	55,500
	55	67.6	117.8	38,500
	60	64.9	115.5	25,000
160	65	62.2	112.8	14,100

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
130	26	82.7	136.6	297,000*
	27	82.2	136.4	275,800
	28	81.8	136.2	253,800
	29	81.3	136.1	234,300
	30	80.9	135.9	216,900
	32	80.0	135.5	187,100
	34	79.1	135.1	162,600
	36	78.2	134.6	142,000
	38	77.3	134.2	124,600
	40	76.4	133.6	109,600
140	42	75.4	133.1	96,500
	44	74.5	132.5	85,000
	46	73.6	131.9	74,900
	48	72.7	131.2	65,900
	50	71.7	130.5	57,800
	55	69.4	128.7	40,800
	60	67.0	126.5	27,300
	65	64.5	124.1	16,300
150	27	82.8	146.5	277,900
	28	82.4	146.4	255,800
	29	81.9	146.2	236,200
	30	81.5	146.0	218,700
	32	80.7	145.7	188,800
	34	79.9	145.3	164,200
	36	79.0	144.9	143,600
	38	78.2	144.4	126,100
	40	77.4	144.0	111,000
	42	76.5	143.5	97,900
160	44	75.7	142.9	86,400
	46	74.8	142.3	76,300
	48	74.0	141.7	67,200
	50	73.1	141.1	59,100
	55	70.9	139.4	42,000
	60	68.7	137.4	28,500
	65	66.5	135.2	17,500
170	28	82.9	156.5	250,000*
	29	82.5	156.3	237,700
	30	82.1	156.2	220,100
	32	81.3	155.8	190,200
	34	80.6	155.5	165,500
	36	79.8	155.1	144,900
	38	79.0	154.7	127,300
	40	78.2	154.2	112,200
	42	77.4	153.8	99,100
	44	76.6	153.3	87,600
180	46	75.8	152.7	77,400
	48	75.1	152.2	68,300
	50	74.3	151.6	60,200
	55	72.3	150.0	43,100
	60	70.2	148.2	29,500
	65	68.2	146.2	18,500

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE
BOOM NO. 44 WITH HEAVY LIFT TOP
180' LUFFING JIB NO. 133 OR 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 6 0	29	83.0	166.4	239,000
	30	82.6	166.3	221,400
	32	81.9	166.0	191,400
	34	81.1	165.7	166,700
	36	80.4	165.3	146,000
	38	79.7	164.9	128,400
	40	79.0	164.5	113,200
	42	78.2	164.0	100,000
	44	77.5	163.6	88,500
	46	76.8	163.1	78,300
	48	76.0	162.6	69,200
	50	75.3	162.0	61,000
	55	73.4	160.5	43,900
	60	71.5	158.8	30,300
	65	69.6	157.0	19,200
	70	67.7	154.9	10,000
1 7 0	30	83.0	176.4	222,400
	32	82.4	176.1	192,400
	34	81.7	175.8	167,600
	36	81.0	175.5	146,900
	38	80.3	175.1	129,300
	40	79.6	174.7	114,200
	42	78.9	174.3	101,000
	44	78.2	173.8	89,500
	46	77.5	173.4	79,200
	48	76.9	172.9	70,100
	50	76.2	172.4	62,000
	55	74.4	171.0	44,800
	60	72.6	169.4	31,200
	65	70.9	167.6	20,100
	70	69.1	165.7	11,000
1 8 0	32	82.8	186.2	193,300
	34	82.1	185.9	168,500
	36	81.5	185.6	147,700
	38	80.9	185.3	130,100
	40	80.2	184.9	114,900
	42	79.6	184.5	101,700
	44	78.9	184.1	90,100
	46	78.3	183.6	79,800
	48	77.6	183.2	70,700
	50	76.9	182.7	62,500
	55	75.3	181.4	45,300
	60	73.6	179.9	31,700
	65	72.0	178.3	20,500
	70	70.3	176.5	11,300

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
1 9 0	34	82.6	196.0	169,100
	36	81.9	195.7	148,200
	38	81.3	195.4	130,600
	40	80.7	195.1	115,300
	42	80.1	194.7	102,100
	44	79.5	194.3	90,500
	46	78.9	193.9	80,200
	48	78.3	193.4	71,100
	50	77.6	193.0	62,900
	55	76.1	191.7	45,600
	60	74.5	190.3	32,000
	65	72.9	188.8	20,800
	70	71.4	187.1	11,600

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE
BOOM NO. 44 WITH HEAVY LIFT TOP
190' LUFFING JIB NO. 133 OR 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
80	20	82.4	86.9	435,000*
	21	81.7	86.7	429,700*
	22	80.9	86.5	418,600
	23	80.2	86.3	373,300
	24	79.5	86.1	335,200
	25	78.7	85.9	302,600
	26	78.0	85.6	274,600
	27	77.3	85.4	250,100
	28	76.5	85.1	228,500
	29	75.8	84.8	209,400
	30	75.0	84.5	192,400
	32	73.5	83.9	163,300
	34	72.0	83.2	139,300
	36	70.5	82.4	119,200
	38	68.9	81.6	102,100
	40	67.3	80.7	87,400
	42	65.8	79.8	74,700
	44	64.2	78.7	63,500
90	46	62.5	77.6	53,600
	48	60.9	76.5	44,700
	50	59.2	75.2	36,800
	55	54.8	71.7	20,300
	21	82.6	96.9	423,900*
	22	81.9	96.7	418,800*
	23	81.3	96.5	379,200
	24	80.6	96.3	341,000
	25	80.0	96.1	308,400
	26	79.3	95.9	280,200
	27	78.7	95.7	255,700
	28	78.0	95.4	234,100
	29	77.4	95.2	214,900
	30	76.7	94.9	197,800
	32	75.4	94.4	168,600
	34	74.1	93.7	144,600
	36	72.7	93.1	124,400
	38	71.4	92.4	107,300
100	40	70.0	91.6	92,600
	42	68.6	90.8	79,800
	44	67.2	89.9	68,500
	46	65.8	88.9	58,600
	48	64.4	87.9	49,800
	50	63.0	86.8	41,800
	55	59.3	83.9	25,200
	60	55.4	80.4	12,000
	22	82.8	106.8	404,700*
	23	82.2	106.7	384,100
	24	81.6	106.5	345,800
	25	81.0	106.3	313,000
	26	80.4	106.1	284,800
	27	79.8	105.9	260,100
	28	79.3	105.7	238,400
	29	78.7	105.5	219,200

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
100	30	78.1	105.2	202,100
	32	76.9	104.7	172,700
	34	75.7	104.2	148,600
	36	74.5	103.6	128,400
	38	73.3	103.0	111,200
	40	72.1	102.3	96,400
	42	70.9	101.5	83,600
	44	69.7	100.8	72,300
	46	68.4	99.9	62,300
	48	67.2	99.0	53,400
	50	65.9	98.1	45,500
	55	62.7	95.5	28,700
	60	59.3	92.5	15,500
110	23	82.9	116.8	316,500*
	24	82.4	116.6	313,200*
	25	81.8	116.5	310,000*
	26	81.3	116.3	288,400
	27	80.8	116.1	263,700
	28	80.3	115.9	242,000
	29	79.7	115.7	222,700
	30	79.2	115.5	205,500
	32	78.1	115.0	176,100
	34	77.0	114.6	151,900
	36	76.0	114.0	131,600
	38	74.9	113.4	114,400
	40	73.8	112.8	99,600
	42	72.7	112.2	86,700
	44	71.6	111.5	75,400
	46	70.5	110.7	65,400
	48	69.4	109.9	56,500
120	50	68.2	109.1	48,500
	55	65.4	106.8	31,800
	60	62.4	104.2	18,400
	24	83.0	126.8	309,600*
	25	82.5	126.6	306,900*
	26	82.0	126.4	291,400
	27	81.6	126.3	266,600
	28	81.1	126.1	244,800
	29	80.6	125.9	225,500
	30	80.1	125.7	208,200
	32	79.1	125.3	178,700
	34	78.1	124.8	154,500
	36	77.2	124.4	134,100
	38	76.2	123.8	116,800
	40	75.2	123.3	102,000
	42	74.2	122.7	89,100
	44	73.2	122.0	77,700
	46	72.2	121.4	67,700
130	48	71.2	120.6	58,800
	50	70.1	119.9	50,700
	55	67.6	117.8	33,900
	60	64.9	115.5	20,600

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
130	26	82.7	136.6	294,000
	27	82.2	136.4	269,200
	28	81.8	136.2	247,400
	29	81.3	136.1	228,000
	30	80.9	135.9	210,700
	32	80.0	135.5	181,200
	34	79.1	135.1	157,000
	36	78.2	134.6	136,600
	38	77.3	134.2	119,300
	40	76.4	133.6	104,400
	42	75.4	133.1	91,500
	44	74.5	132.5	80,200
	46	73.6	131.9	70,100
	48	72.7	131.2	61,200
	50	71.7	130.5	53,200
	55	69.4	128.7	36,400
	60	67.0	126.5	23,000
	65	64.5	124.1	12,100
140	27	82.8	146.5	271,400
	28	82.4	146.4	249,500
	29	81.9	146.2	230,100
	30	81.5	146.0	212,700
	32	80.7	145.7	183,100
	34	79.9	145.3	158,800
	36	79.0	144.9	138,400
	38	78.2	144.4	121,000
	40	77.4	144.0	106,100
	42	76.5	143.5	93,100
	44	75.7	142.9	81,700
	46	74.8	142.3	71,700
	48	74.0	141.7	62,700
	50	73.1	141.1	54,600
	55	70.9	139.4	37,800
	60	68.7	137.4	24,400
	65	66.5	135.2	13,500
150	28	82.9	156.5	246,600*
	29	82.5	156.3	231,700
	30	82.1	156.2	214,300
	32	81.3	155.8	184,600
	34	80.6	155.5	160,200
	36	79.8	155.1	139,800
	38	79.0	154.7	122,400
	40	78.2	154.2	107,400
	42	77.4	153.8	94,400
	44	76.6	153.3	83,000
	46	75.8	152.7	72,900
	48	75.1	152.2	63,900
	50	74.3	151.6	55,900
	55	72.3	150.0	39,000
	60	70.2	148.2	25,500
	65	68.2	146.2	14,600

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE
BOOM NO. 44 WITH HEAVY LIFT TOP
190' LUFFING JIB NO. 133 OR 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 6 0	29	83.0	166.4	233,100
	30	82.6	166.3	215,700
	32	81.9	166.0	186,000
	34	81.1	165.7	161,500
	36	80.4	165.3	140,900
	38	79.7	164.9	123,500
	40	79.0	164.5	108,500
	42	78.2	164.0	95,500
	44	77.5	163.6	84,000
	46	76.8	163.1	73,900
	48	76.0	162.6	64,900
	50	75.3	162.0	56,800
	55	73.4	160.5	39,800
	60	71.5	158.8	26,400
	65	69.6	157.0	15,400
1 7 0	30	83.0	176.4	216,800
	32	82.4	176.1	187,000
	34	81.7	175.8	162,500
	36	81.0	175.5	142,000
	38	80.3	175.1	124,600
	40	79.6	174.7	109,600
	42	78.9	174.3	96,500
	44	78.2	173.8	85,100
	46	77.5	173.4	75,000
	48	76.9	172.9	66,000
	50	76.2	172.4	57,900
	55	74.4	171.0	40,900
	60	72.6	169.4	27,400
	65	70.9	167.6	16,500
1 8 0	32	82.8	186.2	188,100
	34	82.1	185.9	163,500
	36	81.5	185.6	142,900
	38	80.9	185.3	125,400
	40	80.2	184.9	110,400
	42	79.6	184.5	97,300
	44	78.9	184.1	85,800
	46	78.3	183.6	75,700
	48	77.6	183.2	66,600
	50	76.9	182.7	58,500
	55	75.3	181.4	41,500
	60	73.6	179.9	27,900
	65	72.0	178.3	16,900
1 9 0	34	82.6	196.0	164,100
	36	81.9	195.7	143,500
	38	81.3	195.4	126,000
	40	80.7	195.1	110,900
	42	80.1	194.7	97,800
	44	79.5	194.3	86,300
	46	78.9	193.9	76,100
	48	78.3	193.4	67,100
	50	77.6	193.0	58,900
	55	76.1	191.7	41,900
	60	74.5	190.3	28,300
	65	72.9	188.8	17,300

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE
BOOM NO. 44 WITH HEAVY LIFT TOP
200' LUFFING JIB NO. 133 OR 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
80	20	82.4	86.9	427,600*
	21	81.7	86.7	422,100*
	22	80.9	86.5	408,400
	23	80.2	86.3	363,600
	24	79.5	86.1	325,800
	25	78.7	85.9	293,600
	26	78.0	85.6	265,800
	27	77.3	85.4	241,500
	28	76.5	85.1	220,200
	29	75.8	84.8	201,300
	30	75.0	84.5	184,400
	32	73.5	83.9	155,500
	34	72.0	83.2	131,800
	36	70.5	82.4	111,900
	38	68.9	81.6	95,000
	40	67.3	80.7	80,500
	42	65.8	79.8	67,800
	44	64.2	78.7	56,700
90	46	62.5	77.6	47,000
	48	60.9	76.5	38,200
	50	59.2	75.2	30,400
	55	54.8	71.7	14,000
	21	82.6	96.9	416,900*
	22	81.9	96.7	411,700*
	23	81.3	96.5	370,000
	24	80.6	96.3	332,100
	25	80.0	96.1	299,800
	26	79.3	95.9	271,900
	27	78.7	95.7	247,600
	28	78.0	95.4	226,200
	29	77.4	95.2	207,200
	30	76.7	94.9	190,300
	32	75.4	94.4	161,300
	34	74.1	93.7	137,500
	36	72.7	93.1	117,500
	38	71.4	92.4	100,600
	40	70.0	91.6	86,000
100	42	68.6	90.8	73,300
	44	67.2	89.9	62,200
	46	65.8	88.9	52,400
	48	64.4	87.9	43,600
	50	63.0	86.8	35,800
	55	59.3	83.9	19,300
	22	82.8	106.8	398,200*
	23	82.2	106.7	375,200
	24	81.6	106.5	337,200
	25	81.0	106.3	304,800
	26	80.4	106.1	276,800
	27	79.8	105.9	252,400
	28	79.3	105.7	230,900
	29	78.7	105.5	211,800
	30	78.1	105.2	194,800

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
100	32	76.9	104.7	165,800
	34	75.7	104.2	141,900
	36	74.5	103.6	121,800
	38	73.3	103.0	104,800
	40	72.1	102.3	90,200
	42	70.9	101.5	77,500
	44	69.7	100.8	66,300
	46	68.4	99.9	56,400
	48	67.2	99.0	47,600
	50	65.9	98.1	39,700
	55	62.7	95.5	23,200
	60	59.3	92.5	10,100
110	23	82.9	116.8	312,200*
	24	82.4	116.6	308,900*
	25	81.8	116.5	305,700*
	26	81.3	116.3	280,700
	27	80.8	116.1	256,200
	28	80.3	115.9	234,700
	29	79.7	115.7	215,600
	30	79.2	115.5	198,500
	32	78.1	115.0	169,400
	34	77.0	114.6	145,400
	36	76.0	114.0	125,400
	38	74.9	113.4	108,300
120	40	73.8	112.8	93,600
	42	72.7	112.2	80,900
	44	71.6	111.5	69,700
	46	70.5	110.7	59,800
	48	69.4	109.9	51,000
	50	68.2	109.1	43,100
	55	65.4	106.8	26,500
	60	62.4	104.2	13,300
	24	83.0	126.8	306,100*
	25	82.5	126.6	303,400*
	26	82.0	126.4	283,900
	27	81.6	126.3	259,400
130	28	81.1	126.1	237,800
	29	80.6	125.9	218,600
	30	80.1	125.7	201,500
	32	79.1	125.3	172,300
	34	78.1	124.8	148,200
	36	77.2	124.4	128,100
	38	76.2	123.8	111,000
	40	75.2	123.3	96,300
	42	74.2	122.7	83,500
	44	73.2	122.0	72,200
	46	72.2	121.4	62,300
	48	71.2	120.6	53,400
140	50	70.1	119.9	45,500
	55	67.6	117.8	28,900
	60	64.9	115.5	15,700

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
130	26	82.7	136.6	286,700
	27	82.2	136.4	262,100
	28	81.8	136.2	240,500
	29	81.3	136.1	221,300
	30	80.9	135.9	204,200
	32	80.0	135.5	175,000
	34	79.1	135.1	150,900
	36	78.2	134.6	130,800
	38	77.3	134.2	113,600
	40	76.4	133.6	98,900
	42	75.4	133.1	86,100
	44	74.5	132.5	74,900
140	46	73.6	131.9	64,900
	48	72.7	131.2	56,100
	50	71.7	130.5	48,100
	55	69.4	128.7	31,500
	60	67.0	126.5	18,300
	27	82.8	146.5	264,500
	28	82.4	146.4	242,800
	29	81.9	146.2	223,600
	30	81.5	146.0	206,400
	32	80.7	145.7	177,100
	34	79.9	145.3	152,900
	36	79.0	144.9	132,700
150	38	78.2	144.4	115,500
	40	77.4	144.0	100,700
	42	76.5	143.5	87,900
	44	75.7	142.9	76,600
	46	74.8	142.3	66,600
	48	74.0	141.7	57,700
	50	73.1	141.1	49,800
	55	70.9	139.4	33,100
	60	68.7	137.4	19,800
	28	82.9	156.5	242,900*
	29	82.5	156.3	225,300
	30	82.1	156.2	208,100
160	32	81.3	155.8	178,700
	34	80.6	155.5	154,500
	36	79.8	155.1	134,200
	38	79.0	154.7	117,000
	40	78.2	154.2	102,200
	42	77.4	153.8	89,300
	44	76.6	153.3	78,000
	46	75.8	152.7	68,000
	48	75.1	152.2	59,100
	50	74.3	151.6	51,100
	55	72.3	150.0	34,400
	60	70.2	148.2	21,100
170	65	68.2	146.2	10,300

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH LUFFING JIB ATTACHED

M-250

NEW YORK CITY CODE
BOOM NO. 44 WITH HEAVY LIFT TOP
200' LUFFING JIB NO. 133 OR 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 6 0	29	83.0	166.4	226,900
	30	82.6	166.3	209,600
	32	81.9	166.0	180,100
	34	81.1	165.7	155,900
	36	80.4	165.3	135,500
	38	79.7	164.9	118,300
	40	79.0	164.5	103,400
	42	78.2	164.0	90,500
	44	77.5	163.6	79,100
	46	76.8	163.1	69,100
	48	76.0	162.6	60,200
	50	75.3	162.0	52,200
	55	73.4	160.5	35,400
	60	71.5	158.8	22,000
	65	69.6	157.0	11,200
1 7 0	30	83.0	176.4	210,800
	32	82.4	176.1	181,300
	34	81.7	175.8	157,100
	36	81.0	175.5	136,700
	38	80.3	175.1	119,400
	40	79.6	174.7	104,600
	42	78.9	174.3	91,700
	44	78.2	173.8	80,300
	46	77.5	173.4	70,300
	48	76.9	172.9	61,400
	50	76.2	172.4	53,400
	55	74.4	171.0	36,600
	60	72.6	169.4	23,200
	65	70.9	167.6	12,400
1 8 0	32	82.8	186.2	182,500
	34	82.1	185.9	158,100
	36	81.5	185.6	137,700
	38	80.9	185.3	120,400
	40	80.2	184.9	105,500
	42	79.6	184.5	92,500
	44	78.9	184.1	81,100
	46	78.3	183.6	71,100
	48	77.6	183.2	62,100
	50	76.9	182.7	54,100
	55	75.3	181.4	37,200
	60	73.6	179.9	23,800
	65	72.0	178.3	12,900
1 9 0	34	82.6	196.0	158,900
	36	81.9	195.7	138,400
	38	81.3	195.4	121,000
	40	80.7	195.1	106,100
	42	80.1	194.7	93,100
	44	79.5	194.3	81,700
	46	78.9	193.9	71,600
	48	78.3	193.4	62,700
	50	77.6	193.0	54,600
	55	76.1	191.7	37,700
	60	74.5	190.3	24,300
	65	72.9	188.8	13,400