

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH LUFFING JIB ATTACHED

MEETS
ANSI B30.5
REQUIREMENTS

888 SERIES 1

NEW YORK CITY CODE

BOOM NO. 22EL

LUFFING JIB NO. 135

144,100 LB. COUNTERWEIGHT

28'2" CRAWLERS EXTENDED

360 DEGREE RATING

CAPACITIES FOR VARIOUS BOOM LENGTHS AND OPERATING RADII ARE FOR FREELY SUSPENDED LOADS AND DO NOT EXCEED 75% OF A STATIC TIPPING LOAD FOR BOOM 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 (*).

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 2,825 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 CRAWLERS FULLY EXTENDED AND 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. 177063 OR NO. 177354, WIRE ROPE SPECIFICATION CHART NO. 7824-A AND LUFFING JIB RAISING PROCEDURE CHART NO. 7826-A. CRANE OPERATOR JUDGMENT MUST BE USED TO ALLOW FOR DYNAMIC LOAD EFFECTS OF SWINGING, HOISTING OR LOWERING, TRAVEL, WIND CONDITIONS, AS WELL AS ADVERSE OPERATING CONDITIONS AND PHYSICAL MACHINE DEPRECIATION. REFER TO OPERATORS MANUAL FOR OPERATING GUIDELINES.

MACHINE TO TRAVEL ON A FIRM, LEVEL AND UNIFORMLY SUPPORTING SURFACE 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. 7827-A.

OPERATING RADIUS IS HORIZONTAL DISTANCE FROM AXIS OF ROTATION TO CENTER OF VERTICAL HOIST LINE OR LOAD BLOCK. BOOM ANGLE IS ANGLE BETWEEN HORIZONTAL AND CENTERLINE OF BOOM BUTT AND INSERTS, AND IS AN INDICATION OF OPERATING RADIUS. IN ALL CASES, OPERATING RADIUS SHALL GOVERN CAPACITY. BOOM POINT ELEVATION IS VERTICAL DISTANCE FROM GROUND LEVEL TO CENTERLINE OF BOOM POINT SHAFT.

MACHINE EQUIPPED WITH 28'2" EXTENDIBLE CRAWLERS, 48" TREADS, 10'3" RETRACTABLE GANTRY, 30' LIVE MAST, 20 PART BOOM HOIST REEVING, FOUR 1-3/8" BOOM PENDANTS, 8 PART LUFFING JIB HOIST REEVING, TWO 1-1/2" LUFFING JIB PENDANTS AND BACKSTAYS, AND 144,100 LB. COUNTERWEIGHT.

LUFFING JIB POSITION DURING OPERATION	
LUFFING JIB LENGTH - FEET	BOOM TO LUFFING JIB ANGLE
70	140 DEGREES
80 - 90	150 DEGREES
100 - 120	160 DEGREES
130 - 170	168 DEGREES

CONSULT CHART NO. 7885-A FOR LUFFING JIB CAPACITIES

70 FT. LUFFING JIB, ATTACHED AT 140 DEGREE BOOM TO LUFFING JIB ANGLE

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
70	16	82.8	77.2	368,400*
	17	82.0	77.1	346,300*
	18	81.1	76.9	326,500*
	19	80.3	76.7	308,600*
	20	79.5	76.5	292,300*
	22	77.8	76.0	263,900*
	24	76.1	75.5	239,800*
	26	74.4	74.9	211,800
	28	72.7	74.2	184,300
	30	70.9	73.5	162,300

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
80	17	83.0	87.2	346,000*
	18	82.3	87.0	326,200*
	19	81.5	86.9	308,300*
	20	80.8	86.7	292,000*
	22	79.3	86.3	263,600*
	24	77.9	85.8	239,500*
	26	76.4	85.3	213,100
	28	74.9	84.7	185,400
	30	73.4	84.1	163,300
	32	71.9	83.4	145,300
	34	70.4	82.7	130,200

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
90	19	82.5	97.0	308,200*
	20	81.8	96.8	291,900*
	22	80.5	96.5	263,500*
	24	79.2	96.1	239,400*
	26	77.9	95.6	214,200
	28	76.6	95.1	186,500
	30	75.3	94.6	164,300
	32	74.0	94.0	146,100
	34	72.6	93.3	131,000
	36	71.3	92.6	118,200

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NEW YORK CITY CODE

BOOM NO. 22EL

LUFFING JIB NO. 135

144,100 LB. COUNTERWEIGHT

28'2" CRAWLERS EXTENDED

360 DEGREE RATING

70 FT. LUFFING JIB, ATTACHED AT 140 DEGREE BOOM TO LUFFING JIB ANGLE

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
1 0 0	20	82.7	107.0	291,900*
	22	81.5	106.6	263,500*
	24	80.3	106.3	239,500*
	26	79.2	105.9	215,000
	28	78.0	105.4	187,200
1 1 0	30	76.8	104.9	164,900
	32	75.6	104.4	146,700
	34	74.4	103.8	131,600
	36	73.2	103.2	118,700
	38	72.0	102.5	107,700
1 2 0	40	70.8	101.8	98,200
	22	82.3	116.8	263,200*
	24	81.2	116.4	239,200*
	26	80.2	116.1	215,800
	28	79.1	115.7	187,800
1 3 0	30	78.0	115.2	165,500
	32	77.0	114.7	147,200
	34	75.9	114.2	132,000
	36	74.8	113.6	119,100
	38	73.7	113.0	108,100
1 4 0	40	72.6	112.4	98,500
	42	71.5	111.7	90,100
	44	70.4	110.9	82,700
	22	82.9	126.9	262,900*
	24	82.0	126.6	238,900*
1 5 0	26	81.0	126.2	216,200
	28	80.0	125.9	188,300
	30	79.1	125.5	165,900
	32	78.1	125.0	147,600
	34	77.1	124.5	132,300
1 6 0	36	76.1	124.0	119,400
	26	82.5	166.4	184,800*
	28	81.8	166.1	166,900
	30	81.1	165.8	148,400
	32	80.4	165.4	133,000
1 7 0	34	79.6	165.1	120,000
	36	78.9	164.6	108,800
	38	78.2	164.2	99,100
	40	77.4	163.7	90,600
	42	76.7	163.3	83,200
1 8 0	44	76.0	162.7	76,500
	46	75.2	162.2	70,600
	48	74.5	161.6	65,200
	50	73.8	161.0	59,900
	52	73.1	160.3	54,900

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
1 0 0	38	75.1	123.5	108,300
	40	74.1	122.9	98,700
	42	73.1	122.2	90,300
	44	72.1	121.6	82,900
	46	71.1	120.9	76,300
1 1 0	48	70.1	120.1	70,400
	24	82.6	136.7	238,800*
	26	81.7	136.4	216,800
	28	80.8	136.0	188,700
	30	79.9	135.7	166,300
1 2 0	32	79.0	135.3	148,000
	34	78.1	134.8	132,700
	36	77.2	134.3	119,700
	38	76.3	133.8	108,600
	40	75.4	133.3	99,000
1 3 0	42	74.5	132.7	90,600
	44	73.5	132.1	83,200
	46	72.6	131.5	76,600
	48	71.7	130.8	70,700
	50	70.7	130.1	65,400
1 4 0	26	82.3	146.5	217,100
	28	81.5	146.2	189,000
	30	80.6	145.8	166,500
	32	79.8	145.5	148,100
	34	79.0	145.1	132,800
1 5 0	36	78.1	144.6	119,900
	38	77.3	144.1	108,800
	40	76.4	143.6	99,100
	42	75.6	143.1	90,700
	44	74.7	142.5	83,300
1 6 0	46	73.9	141.9	76,700
	48	73.0	141.3	70,800
	50	72.2	140.7	65,400
	26	82.3	146.5	217,100
	28	81.5	146.2	189,000
1 7 0	30	80.6	145.8	166,500
	32	79.8	145.5	148,100
	34	79.0	145.1	132,800
	36	78.1	144.6	119,900
	38	77.3	144.1	108,800
1 8 0	40	76.4	143.6	99,100
	42	75.6	143.1	90,700
	44	74.7	142.5	83,300
	46	73.9	141.9	76,700
	48	73.0	141.3	70,800
1 9 0	50	72.2	140.7	65,400

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
1 0 0	26	82.8	156.6	199,100*
	28	82.0	156.3	189,400
	30	81.3	156.0	166,800
	32	80.5	155.6	148,400
	34	79.7	155.3	133,000
1 1 0	36	78.9	154.8	120,000
	38	78.2	154.4	108,800
	40	77.4	153.9	99,200
	42	76.6	153.5	90,700
	44	75.8	152.9	83,200
1 2 0	46	75.0	152.4	76,600
	48	74.2	151.8	70,700
	50	73.4	151.2	65,300
	52	72.6	150.6	60,300
	54	71.8	150.0	55,300
1 3 0	56	71.0	149.4	50,300
	28	82.5	166.4	184,800*
	30	81.8	166.1	166,900
	32	81.1	165.8	148,400
	34	80.4	165.4	133,000
1 4 0	36	79.6	165.1	120,000
	38	78.9	164.6	108,800
	40	78.2	164.2	99,100
	42	77.4	163.7	90,600
	44	76.7	163.3	83,200
1 5 0	46	76.0	162.7	76,500
	48	75.2	162.2	70,600
	50	74.5	161.6	65,200
	52	73.8	161.0	59,900
	54	73.1	160.3	54,900
1 6 0	56	72.4	159.7	50,000
	58	71.6	159.0	45,000
	60	70.8	158.3	40,000
	28	82.5	166.4	184,800*
	30	81.8	166.1	166,900
1 7 0	32	81.1	165.8	148,400
	34	80.4	165.4	133,000
	36	79.6	165.1	120,000
	38	78.9	164.6	108,800
	40	78.2	164.2	99,100
1 8 0	42	77.4	163.7	90,600
	44	76.7	163.3	83,200
	46	76.0	162.7	76,500
	48	75.2	162.2	70,600
	50	74.5	161.6	65,200
1 9 0	52	73.8	161.0	59,900
	54	73.1	160.3	54,900
	56	72.4	159.7	50,000
	58	71.6	159.0	45,000
	60	70.8	158.3	40,000

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LUFFING JIB NO. 135

144,100 LB. COUNTERWEIGHT

28'2" CRAWLERS EXTENDED

360 DEGREE RATING

80 FT. LUFFING JIB, ATTACHED AT 150 DEGREE BOOM TO LUFFING JIB ANGLE

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
70	16	82.8	77.2	368,600*
	17	82.0	77.1	346,400*
	18	81.1	76.9	326,400*
	19	80.3	76.7	308,300*
	20	79.5	76.5	291,900*
	22	77.8	76.0	263,300*
	24	76.1	75.5	239,000*
	26	74.4	74.9	210,900
	28	72.7	74.2	183,300
	30	70.9	73.5	161,200
80	32	69.2	72.7	143,100
	34	67.4	71.8	128,000
	36	65.6	70.9	115,200
	17	83.0	87.2	346,100*
	18	82.3	87.0	326,200*
	19	81.5	86.9	308,200*
	20	80.8	86.7	291,800*
	22	79.3	86.3	263,100*
	24	77.9	85.8	238,900*
	26	76.4	85.3	212,500
90	28	74.9	84.7	184,700
	30	73.4	84.1	162,500
	32	71.9	83.4	144,300
	34	70.4	82.7	129,100
	36	68.8	81.9	116,300
	38	67.3	81.0	105,300
	40	65.7	80.0	95,700
	42	64.1	79.0	87,400
	19	82.5	97.0	308,200*
	20	81.8	96.8	291,800*
100	22	80.5	96.5	263,200*
	24	79.2	96.1	239,000*
	26	77.9	95.6	213,800
	28	76.6	95.1	185,900
	30	75.3	94.6	163,600
	32	74.0	94.0	145,300
	34	72.6	93.3	130,100
	36	71.3	92.6	117,200
	38	69.9	91.8	106,100
	40	68.6	91.0	96,500
110	42	67.2	90.1	88,200
	44	65.8	89.2	80,800
	46	64.3	88.2	74,200
	20	82.7	107.0	291,900*
	22	81.5	106.6	263,300*
	24	80.3	106.3	239,100*
	26	79.2	105.9	214,800
	28	78.0	105.4	186,800
	30	76.8	104.9	164,400
	32	75.6	104.4	146,100
120	34	74.4	103.8	130,800
	36	73.2	103.2	117,900
	38	72.0	102.5	106,800

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
100	40	70.8	101.8	97,200
	42	69.6	101.0	88,800
	44	68.3	100.2	81,400
	46	67.1	99.3	74,800
	48	65.8	98.4	68,900
	50	64.6	97.4	63,600
	22	82.3	116.8	263,000*
	24	81.2	116.4	238,900*
	26	80.2	116.1	215,700
	28	79.1	115.7	187,600
110	30	78.0	115.2	165,100
	32	77.0	114.7	146,700
	34	75.9	114.2	131,400
	36	74.8	113.6	118,400
	38	73.7	113.0	107,300
	40	72.6	112.4	97,600
	42	71.5	111.7	89,200
	44	70.4	110.9	81,800
	46	69.3	110.2	75,200
	48	68.2	109.3	69,200
120	50	67.0	108.5	63,900
	55	64.1	106.1	52,600
	22	82.9	126.9	262,900*
	24	82.0	126.6	238,700*
	26	81.0	126.2	216,300
	28	80.0	125.9	188,100
	30	79.1	125.5	165,600
	32	78.1	125.0	147,100
	34	77.1	124.5	131,800
	36	76.1	124.0	118,800
130	38	75.1	123.5	107,600
	40	74.1	122.9	98,000
	42	73.1	122.2	89,500
	44	72.1	121.6	82,100
	46	71.1	120.9	75,400
	48	70.1	120.1	69,500
	50	69.1	119.3	64,200
	55	66.5	117.2	52,900
	24	82.6	136.7	238,700*
	26	81.7	136.4	216,900
140	28	80.8	136.0	188,700
	30	79.9	135.7	166,100
	32	79.0	135.3	147,600
	34	78.1	134.8	132,200
	36	77.2	134.3	119,200
	38	76.3	133.8	108,000
	40	75.4	133.3	98,400
	42	74.5	132.7	89,900
	44	73.5	132.1	82,400
	46	72.6	131.5	75,800
150	48	71.7	130.8	69,800
	50	70.7	130.1	64,500
	55	68.4	128.1	53,200
	60	66.0	125.9	44,100

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
140	26	82.3	146.5	217,200
	28	81.5	146.2	189,000
	30	80.6	145.8	166,400
	32	79.8	145.5	147,900
	34	79.0	145.1	132,500
	36	78.1	144.6	119,400
	38	77.3	144.1	108,200
	40	76.4	143.6	98,500
	42	75.6	143.1	90,100
	44	74.7	142.5	82,600
150	46	73.9	141.9	75,900
	48	73.0	141.3	70,000
	50	72.2	140.7	64,600
	55	70.0	138.9	53,300
	60	67.8	136.8	44,200
	65	65.5	134.6	36,800
	26	82.8	156.6	201,500*
	28	82.0	156.3	189,400
	30	81.3	156.0	166,700
	32	80.5	155.6	148,200
160	34	79.7	155.3	132,700
	36	78.9	154.8	119,600
	38	78.2	154.4	108,400
	40	77.4	153.9	98,600
	42	76.6	153.5	90,100
	44	75.8	152.9	82,600
	46	75.0	152.4	75,900
	48	74.2	151.8	70,000
	50	73.4	151.2	64,600
	55	71.4	149.5	53,200
170	60	69.4	147.6	44,100
	65	67.3	145.6	36,700
	70	65.2	143.3	30,500
	28	82.5	166.4	187,300*
	30	81.8	166.1	166,900
	32	81.1	165.8	148,300
	34	80.4	165.4	132,800
	36	79.6	165.1	119,600
	38	78.9	164.6	108,400
	40	78.2	164.2	98,600
180	42	77.4	163.7	90,100
	44	76.7	163.3	82,600
	46	76.0	162.7	75,900
	48	75.2	162.2	69,900
	50	74.5	161.6	64,500
	55	72.6	160.1	53,100
	60	70.7	158.3	44,000
	65	68.8	156.4	36,600
	70	66.8	154.3	30,400
	75	64.9	152.0	25,100

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BOOM NO. 22EL

LUFFING JIB NO. 135

144,100 LB. COUNTERWEIGHT

28'2" CRAWLERS EXTENDED

360 DEGREE RATING

90 FT. LUFFING JIB, ATTACHED AT 150 DEGREE BOOM TO LUFFING JIB ANGLE

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
70	16	82.8	77.2	364,200*
	17	82.0	77.1	342,100*
	18	81.1	76.9	322,300*
	19	80.3	76.7	304,300*
	20	79.5	76.5	288,000*
	22	77.8	76.0	259,500*
	24	76.1	75.5	235,400*
	26	74.4	74.9	206,700
	28	72.7	74.2	179,400
	30	70.9	73.5	157,600
80	32	69.2	72.7	139,700
	34	67.4	71.8	124,800
	36	65.6	70.9	112,200
	17	83.0	87.2	342,000*
	18	82.3	87.0	322,200*
	19	81.5	86.9	304,200*
	20	80.8	86.7	288,000*
	22	79.3	86.3	259,500*
	24	77.9	85.8	235,400*
	26	76.4	85.3	208,400
90	28	74.9	84.7	180,900
	30	73.4	84.1	159,000
	32	71.9	83.4	141,000
	34	70.4	82.7	126,000
	36	68.8	81.9	113,300
	38	67.3	81.0	102,400
	40	65.7	80.0	93,000
	42	64.1	79.0	84,800
	19	82.5	97.0	304,300*
	20	81.8	96.8	288,000*
100	22	80.5	96.5	259,600*
	24	79.2	96.1	235,500*
	26	77.9	95.6	209,900
	28	76.6	95.1	182,300
	30	75.3	94.6	160,200
	32	74.0	94.0	142,100
	34	72.6	93.3	127,000
	36	71.3	92.6	114,300
	38	69.9	91.8	103,400
	40	68.6	91.0	93,900
110	42	67.2	90.1	85,600
	44	65.8	89.2	78,300
	46	64.3	88.2	71,800
	20	82.7	107.0	288,200*
	22	81.5	106.6	259,800*
	24	80.3	106.3	235,800*
	26	79.2	105.9	210,900
	28	78.0	105.4	183,200
	30	76.8	104.9	161,100
	32	75.6	104.4	143,000
120	34	74.4	103.8	127,900
	36	73.2	103.2	115,100
	38	72.0	102.5	104,200

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
100	40	70.8	101.8	94,700
	42	69.6	101.0	86,400
	44	68.3	100.2	79,000
	46	67.1	99.3	72,500
	48	65.8	98.4	66,700
	50	64.6	97.4	61,500
	22	82.3	116.8	259,600*
	24	81.2	116.4	235,600*
	26	80.2	116.1	211,900
	28	79.1	115.7	184,100
110	30	78.0	115.2	161,800
	32	77.0	114.7	143,700
	34	75.9	114.2	128,500
	36	74.8	113.6	115,700
	38	73.7	113.0	104,700
	40	72.6	112.4	95,100
	42	71.5	111.7	86,800
	44	70.4	110.9	79,400
	46	69.3	110.2	72,900
	48	68.2	109.3	67,000
120	50	67.0	108.5	61,800
	55	64.1	106.1	50,700
	22	82.9	126.9	259,400*
	24	82.0	126.6	235,500*
	26	81.0	126.2	212,500
	28	80.0	125.9	184,700
	30	79.1	125.5	162,400
	32	78.1	125.0	144,100
	34	77.1	124.5	128,900
	36	76.1	124.0	116,100
130	38	75.1	123.5	105,100
	40	74.1	122.9	95,500
	42	73.1	122.2	87,200
	44	72.1	121.6	79,800
	46	71.1	120.9	73,200
	48	70.1	120.1	67,400
	50	69.1	119.3	62,100
	55	66.5	117.2	50,900
	24	82.6	136.7	235,500*
	26	81.7	136.4	213,200
140	28	80.8	136.0	185,300
	30	79.9	135.7	162,900
	32	79.0	135.3	144,700
	34	78.1	134.8	129,400
	36	77.2	134.3	116,600
	38	76.3	133.8	105,500
	40	75.4	133.3	95,900
	42	74.5	132.7	87,600
	44	73.5	132.1	80,200
	46	72.6	131.5	73,600
150	48	71.7	130.8	67,700
	50	70.7	130.1	62,400
	55	68.4	128.1	51,300
	60	66.0	125.9	42,300

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
140	26	82.3	146.5	213,600
	28	81.5	146.2	185,600
	30	80.6	145.8	163,300
	32	79.8	145.5	145,000
	34	79.0	145.1	129,700
	36	78.1	144.6	116,800
	38	77.3	144.1	105,800
	40	76.4	143.6	96,200
	42	75.6	143.1	87,800
	44	74.7	142.5	80,400
150	46	73.9	141.9	73,800
	48	73.0	141.3	67,900
	50	72.2	140.7	62,600
	55	70.0	138.9	51,400
	60	67.8	136.8	42,500
	65	65.5	134.6	35,100
	26	82.8	156.6	198,300*
	28	82.0	156.3	186,100
	30	81.3	156.0	163,700
	32	80.5	155.6	145,300
160	34	79.7	155.3	130,000
	36	78.9	154.8	117,000
	38	78.2	154.4	105,900
	40	77.4	153.9	96,300
	42	76.6	153.5	87,900
	44	75.8	152.9	80,400
	46	75.0	152.4	73,800
	48	74.2	151.8	67,900
	50	73.4	151.2	62,600
	55	71.4	149.5	51,400
170	60	69.4	147.6	42,400
	65	67.3	145.6	35,000
	70	65.2	143.3	28,900
	28	82.5	166.4	184,000*
	30	81.8	166.1	163,800
	32	81.1	165.8	145,400
	34	80.4	165.4	130,100
	36	79.6	165.1	117,100
	38	78.9	164.6	106,000
	40	78.2	164.2	96,300
180	42	77.4	163.7	87,900
	44	76.7	163.3	80,400
	46	76.0	162.7	73,800
	48	75.2	162.2	67,900
	50	74.5	161.6	62,600
	55	72.6	160.1	51,300
	60	70.7	158.3	42,300
	65	68.8	156.4	34,900
	70	66.8	154.3	28,800
	75	64.9	152.0	23,600

MANITOWOC ENGINEERING CO.

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



LIFTCRANE BOOM CAPACITIES WITH LUFFING JIB ATTACHED

MEETS
ANSI B30.5
REQUIREMENTS

888 SERIES 1

NEW YORK CITY CODE

BOOM NO. 22EL

LUFFING JIB NO. 135

144,100 LB. COUNTERWEIGHT

28'2" CRAWLERS EXTENDED

360 DEGREE RATING

100 FT. LUFFING JIB, ATTACHED AT 160 DEGREE BOOM TO LUFFING JIB ANGLE

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
70	16	82.8	77.2	367,400*
	17	82.0	77.1	345,000*
	18	81.1	76.9	324,800*
	19	80.3	76.7	306,600*
	20	79.5	76.5	290,000*
	22	77.8	76.0	261,000*
	24	76.1	75.5	236,500*
	26	74.4	74.9	208,200
	28	72.7	74.2	180,400
	30	70.9	73.5	158,200
	32	69.2	72.7	140,000
	34	67.4	71.8	124,800
80	36	65.6	70.9	111,900
	38	63.7	69.8	100,900
	40	61.9	68.7	91,400
	42	60.0	67.5	83,000
	44	58.0	66.2	75,700
	17	83.0	87.2	345,000*
	18	82.3	87.0	324,900*
	19	81.5	86.9	306,700*
	20	80.8	86.7	290,100*
	22	79.3	86.3	261,200*
	24	77.9	85.8	236,700*
	26	76.4	85.3	210,200
90	28	74.9	84.7	182,200
	30	73.4	84.1	159,900
	32	71.9	83.4	141,600
	34	70.4	82.7	126,300
	36	68.8	81.9	113,400
	38	67.3	81.0	102,400
	40	65.7	80.0	92,800
	42	64.1	79.0	84,400
	44	62.4	78.0	77,000
	46	60.8	76.8	70,400
	48	59.1	75.6	64,500
	50	57.4	74.3	59,200
100	19	82.5	97.0	306,900*
	20	81.8	96.8	290,300*
	22	80.5	96.5	261,500*
	24	79.2	96.1	237,000*
	26	77.9	95.6	211,900
	28	76.6	95.1	183,800
	30	75.3	94.6	161,300
	32	74.0	94.0	142,900
	34	72.6	93.3	127,600
	36	71.3	92.6	114,600
	38	69.9	91.8	103,500
	40	68.6	91.0	93,900
110	42	67.2	90.1	85,500
	44	65.8	89.2	78,000
	46	64.3	88.2	71,400
	48	62.9	87.2	65,500
	50	61.4	86.0	60,100
	55	57.7	82.9	48,900
120	20	82.7	107.0	290,700*
	22	81.5	106.6	261,800*
	24	80.3	106.3	237,400*
	26	79.2	105.9	213,100
	28	78.0	105.4	184,900
	30	76.8	104.9	162,400
	32	75.6	104.4	144,000
	34	74.4	103.8	128,600

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
100	36	73.2	103.2	115,700
	38	72.0	102.5	104,500
	40	70.8	101.8	94,900
	42	69.6	101.0	86,400
	44	68.3	100.2	78,900
	46	67.1	99.3	72,300
	48	65.8	98.4	66,400
	50	64.6	97.4	61,000
	55	61.3	94.7	49,800
	60	57.9	91.6	40,700
	22	82.3	116.8	261,700*
	24	81.2	116.4	237,300*
110	26	80.2	116.1	214,200
	28	79.1	115.7	186,000
	30	78.0	115.2	163,300
	32	77.0	114.7	144,800
	34	75.9	114.2	129,400
	36	74.8	113.6	116,400
	38	73.7	113.0	105,200
	40	72.6	112.4	95,500
	42	71.5	111.7	87,000
	44	70.4	110.9	79,500
	46	69.3	110.2	72,800
	48	68.2	109.3	66,900
120	50	67.0	108.5	61,500
	55	64.1	106.1	50,200
	60	61.2	103.4	41,100
	65	58.1	100.3	33,700
	22	82.9	126.9	261,600*
	24	82.0	126.6	237,300*
	26	81.0	126.2	215,000
	28	80.0	125.9	186,700
	30	79.1	125.5	164,000
	32	78.1	125.0	145,400
	34	77.1	124.5	130,000
	36	76.1	124.0	116,900
130	38	75.1	123.5	105,700
	40	74.1	122.9	96,000
	42	73.1	122.2	87,500
	44	72.1	121.6	80,000
	46	71.1	120.9	73,300
	48	70.1	120.1	67,300
	50	69.1	119.3	61,900
	55	66.5	117.2	50,600
	60	63.8	114.7	41,500
	65	61.1	112.0	34,100
	70	58.3	109.0	27,900
140	24	82.6	136.7	237,400*
	26	81.7	136.4	215,700
	28	80.8	136.0	187,400
	30	79.9	135.7	164,700
	32	79.0	135.3	146,100
	34	78.1	134.8	130,600
	36	77.2	134.3	117,500
	38	76.3	133.8	106,200
	40	75.4	133.3	96,500
	42	74.5	132.7	88,000
	44	73.5	132.1	80,500
	46	72.6	131.5	73,800
160	48	71.7	130.8	67,800

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
100	50	70.7	130.1	62,400
	55	68.4	128.1	51,100
	60	66.0	125.9	42,000
	65	63.5	123.4	34,500
	70	61.0	120.7	28,300
	75	58.4	117.6	23,000
	26	82.3	146.5	216,300
	28	81.5	146.2	187,800
	30	80.6	145.8	165,100
	32	79.8	145.5	146,500
	34	79.0	145.1	131,000
	36	78.1	144.6	117,800
110	38	77.3	144.1	106,600
	40	76.4	143.6	96,800
	42	75.6	143.1	88,300
	44	74.7	142.5	80,800
	46	73.9	141.9	74,100
	48	73.0	141.3	68,100
	50	72.2	140.7	62,700
	55	70.0	138.9	51,300
	60	67.8	136.8	42,200
	65	65.5	134.6	34,700
	70	63.3	132.1	28,500
	75	60.9	129.3	23,200
120	80	58.5	126.3	18,700
	26	82.8	156.6	203,500*
	28	82.0	156.3	188,400
	30	81.3	156.0	165,600
	32	80.5	155.6	146,900
	34	79.7	155.3	131,300
	36	78.9	154.8	118,100
	38	78.2	154.4	106,800
	40	77.4	153.9	97,000
	42	76.6	153.5	88,500
	44	75.8	152.9	80,900
	46	75.0	152.4	74,200
130	48	74.2	151.8	68,200
	50	73.4	151.2	62,800
	55	71.4	149.5	51,300
	60	69.4	147.6	42,200
	65	67.3	145.6	34,700
	70	65.2	143.3	28,400
	75	63.0	140.8	23,200
	80	60.9	138.0	18,600
	85	58.6	135.0	14,700
	28	82.5	166.4	164,000
	30	81.8	166.1	142,200
	32	81.1	165.8	124,500
140	34	80.4	165.4	109,600
	36	79.6	165.1	97,100
	38	78.9	164.6	86,300
	40	78.2	164.2	77,000
	42	77.4	163.7	68,900
	44	76.7	163.3	61,700
	46	76.0	162.7	55,300
	48	75.2	162.2	49,500
	50	74.5	161.6	44,400
	55	72.6	160.1	33,500
	60	70.7	158.3	24,800
	65	68.8	156.4	17,700
160	70	66.8	154.3	11,800

MANITOWOC ENGINEERING CO.

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



LIFTCRANE BOOM CAPACITIES WITH LUFFING JIB ATTACHED

MEETS
ANSI B30.5
REQUIREMENTS

888 SERIES 1

NEW YORK CITY CODE

BOOM NO. 22EL

LUFFING JIB NO. 135

144,100 LB. COUNTERWEIGHT

28'2" CRAWLERS EXTENDED

360 DEGREE RATING

110 FT. LUFFING JIB, ATTACHED AT 160 DEGREE BOOM TO LUFFING JIB ANGLE

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
70	16	82.8	77.2	364,500*	100	36	73.2	103.2	113,700	130	50	70.7	130.1	61,100
	17	82.0	77.1	342,100*		38	72.0	102.5	102,700		55	68.4	128.1	49,800
	18	81.1	76.9	322,000*		40	70.8	101.8	93,100		60	66.0	125.9	40,800
	19	80.3	76.7	303,800*		42	69.6	101.0	84,700		65	63.5	123.4	33,400
	20	79.5	76.5	287,300*		44	68.3	100.2	77,300		70	61.0	120.7	27,200
	22	77.8	76.0	258,500*		46	67.1	99.3	70,700		75	58.4	117.6	22,000
	24	76.1	75.5	234,100*	110	48	65.8	98.4	64,800	140	26	82.3	146.5	213,800
	26	74.4	74.9	205,100		50	64.6	97.4	59,500		28	81.5	146.2	185,600
	28	72.7	74.2	177,600		55	61.3	94.7	48,300		30	80.6	145.8	163,000
	30	70.9	73.5	155,500		60	57.9	91.6	39,400		32	79.8	145.5	144,500
	32	69.2	72.7	137,500		22	82.3	116.8	259,400*		34	79.0	145.1	129,100
	34	67.4	71.8	122,400		24	81.2	116.4	235,200*		36	78.1	144.6	116,100
80	36	65.6	70.9	109,700	120	26	80.2	116.1	211,600		38	77.3	144.1	104,900
	38	63.7	69.8	98,800		28	79.1	115.7	183,500		40	76.4	143.6	95,200
	40	61.9	68.7	89,300		30	78.0	115.2	161,100		42	75.6	143.1	86,800
	42	60.0	67.5	81,100		32	77.0	114.7	142,700		44	74.7	142.5	79,300
	44	58.0	66.2	73,700		34	75.9	114.2	127,400		46	73.9	141.9	72,700
	17	83.0	87.2	342,200*		36	74.8	113.6	114,500		48	73.0	141.3	66,700
	18	82.3	87.0	322,200*		38	73.7	113.0	103,400		50	72.2	140.7	61,400
	19	81.5	86.9	304,000*		40	72.6	112.4	93,800		55	70.0	138.9	50,100
	20	80.8	86.7	287,600*		42	71.5	111.7	85,300		60	67.8	136.8	41,000
	22	79.3	86.3	258,800*		44	70.4	110.9	77,900		65	65.5	134.6	33,600
	24	77.9	85.8	234,400*		46	69.3	110.2	71,300		70	63.3	132.1	27,500
	26	76.4	85.3	207,300		48	68.2	109.3	65,400		75	60.9	129.3	22,200
	28	74.9	84.7	179,600		50	67.0	108.5	60,100		80	58.5	126.3	17,800
90	30	73.4	84.1	157,400	130	55	64.1	106.1	48,800	150	26	82.8	156.6	187,900
	32	71.9	83.4	139,200		60	61.2	103.4	39,800		28	82.0	156.3	161,000
	34	70.4	82.7	124,100		65	58.1	100.3	32,500		30	81.3	156.0	139,500
	36	68.8	81.9	111,300		22	82.9	126.9	259,400*		32	80.5	155.6	121,900
	38	67.3	81.0	100,300		24	82.0	126.6	235,200*		34	79.7	155.3	107,300
	40	65.7	80.0	90,800		26	81.0	126.2	212,400		36	78.9	154.8	94,900
	42	64.1	79.0	82,500		28	80.0	125.9	184,300		38	78.2	154.4	84,200
	44	62.4	78.0	75,100		30	79.1	125.5	161,800		40	77.4	153.9	75,000
	46	60.8	76.8	68,600		32	78.1	125.0	143,400		42	76.6	153.5	67,000
	48	59.1	75.6	62,800		34	77.1	124.5	128,100		44	75.8	152.9	59,900
	50	57.4	74.3	57,500		36	76.1	124.0	115,100		46	75.0	152.4	53,500
	19	82.5	97.0	304,300*		38	75.1	123.5	104,000		48	74.2	151.8	47,900
	20	81.8	96.8	287,900*		40	74.1	122.9	94,300		50	73.4	151.2	42,800
	22	80.5	96.5	259,100*		42	73.1	122.2	85,900		55	71.4	149.5	32,100
	24	79.2	96.1	234,800*		44	72.1	121.6	78,400		60	69.4	147.6	23,500
100	26	77.9	95.6	209,100	140	46	71.1	120.9	71,800	160	65	67.3	145.6	16,400
	28	76.6	95.1	181,200		48	70.1	120.1	65,900		70	65.2	143.3	10,600
	30	75.3	94.6	158,900		50	69.1	119.3	60,600		28	82.5	166.4	161,200
	32	74.0	94.0	140,700		55	66.5	117.2	49,300		30	81.8	166.1	139,700
	34	72.6	93.3	125,500		60	63.8	114.7	40,300		32	81.1	165.8	122,100
	36	71.3	92.6	112,600		65	61.1	112.0	32,900		34	80.4	165.4	107,400
	38	69.9	91.8	101,600		70	58.3	109.0	26,800		36	79.6	165.1	95,000
	40	68.6	91.0	92,000		24	82.6	136.7	235,300*		38	78.9	164.6	84,300
	42	67.2	90.1	83,700		26	81.7	136.4	213,200		40	78.2	164.2	75,100
	44	65.8	89.2	76,300		28	80.8	136.0	185,000		42	77.4	163.7	67,000
	46	64.3	88.2	69,700		30	79.9	135.7	162,500		44	76.7	163.3	59,900
	48	62.9	87.2	63,900		32	79.0	135.3	144,100		46	76.0	162.7	53,500
	50	61.4	86.0	58,600		34	78.1	134.8	128,700		48	75.2	162.2	47,900
	55	57.7	82.9	47,400		36	77.2	134.3	115,700		50	74.5	161.6	42,800
	20	82.7	107.0	288,200*		38	76.3	133.8	104,600		55	72.6	160.1	32,000
	22	81.5	106.6	259,500*		40	75.4	133.3	94,900		60	70.7	158.3	23,400
	24	80.3	106.3	235,200*		42	74.5	132.7	86,400		65	68.8	156.4	16,400
	26	79.2	105.9	210,400		44	73.5	132.1	79,000		70	66.8	154.3	10,500
	28	78.0	105.4	182,500		46	72.6	131.5	72,300					
	30	76.8	104.9	160,100		48	71.7	130.8	66,400					
	32	75.6	104.4	141,800										
	34	74.4	103.8	126,600										

MANITOWOC ENGINEERING CO.

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



LIFTCRANE BOOM CAPACITIES WITH LUFFING JIB ATTACHED

MEETS
ANSI B30.5
REQUIREMENTS

888 SERIES 1

NEW YORK CITY CODE

BOOM NO. 22EL

LUFFING JIB NO. 135

144,100 LB. COUNTERWEIGHT

28'2" CRAWLERS EXTENDED

360 DEGREE RATING

120 FT. LUFFING JIB, ATTACHED AT 160 DEGREE BOOM TO LUFFING JIB ANGLE

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
70	16	82.8	77.2	360,000*
	17	82.0	77.1	337,800*
	18	81.1	76.9	317,800*
	19	80.3	76.7	299,700*
	20	79.5	76.5	283,200*
	22	77.8	76.0	254,500*
	24	76.1	75.5	230,100*
	26	74.4	74.9	200,700
	28	72.7	74.2	173,400
	30	70.9	73.5	151,500
	32	69.2	72.7	133,700
	34	67.4	71.8	118,800
	36	65.6	70.9	106,200
	38	63.7	69.8	95,400
	40	61.9	68.7	86,000
	42	60.0	67.5	77,800
	44	58.0	66.2	70,600
80	17	83.0	87.2	338,000*
	18	82.3	87.0	318,100*
	19	81.5	86.9	300,000*
	20	80.8	86.7	283,600*
	22	79.3	86.3	254,900*
	24	77.9	85.8	230,600*
	26	76.4	85.3	203,000
	28	74.9	84.7	175,500
	30	73.4	84.1	153,600
	32	71.9	83.4	135,600
	34	70.4	82.7	120,600
	36	68.8	81.9	107,900
	38	67.3	81.0	97,100
	40	65.7	80.0	87,700
	42	64.1	79.0	79,400
	44	62.4	78.0	72,100
90	19	82.5	97.0	300,400*
	20	81.8	96.8	284,000*
	22	80.5	96.5	255,400*
	24	79.2	96.1	231,100*
	26	77.9	95.6	204,900
	28	76.6	95.1	177,300
	30	75.3	94.6	155,300
	32	74.0	94.0	137,200
	34	72.6	93.3	122,100
	36	71.3	92.6	109,400
	38	69.9	91.8	98,500
	40	68.6	91.0	89,000
	42	67.2	90.1	80,700
	44	65.8	89.2	73,400
	46	64.3	88.2	66,900
	48	62.9	87.2	61,100
100	50	61.4	86.0	55,900
	55	57.7	82.9	44,800
	20	82.7	107.0	284,500*
	22	81.5	106.6	255,900*
	24	80.3	106.3	231,700*
	26	79.2	105.9	206,400
	28	78.0	105.4	178,700
	30	76.8	104.9	156,600
	32	75.6	104.4	138,500
	34	74.4	103.8	123,400

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
100	36	73.2	103.2	110,600
	38	72.0	102.5	99,700
	40	70.8	101.8	90,200
	42	69.6	101.0	81,900
	44	68.3	100.2	74,500
	46	67.1	99.3	68,000
	48	65.8	98.4	62,200
	50	64.6	97.4	57,000
110	55	61.3	94.7	45,900
	60	57.9	91.6	37,000
	22	82.3	116.8	255,800*
	24	81.2	116.4	231,700*
	26	80.2	116.1	207,700
	28	79.1	115.7	179,900
	30	78.0	115.2	157,700
	32	77.0	114.7	139,500
120	34	75.9	114.2	124,300
	36	74.8	113.6	111,500
	38	73.7	113.0	100,500
	40	72.6	112.4	91,000
	42	71.5	111.7	82,600
	44	70.4	110.9	75,300
	46	69.3	110.2	68,700
	48	68.2	109.3	62,900
130	50	67.0	108.5	57,600
	55	64.1	106.1	46,500
	60	61.2	103.4	37,600
	65	58.1	100.3	30,300
	22	82.9	126.9	255,900*
	24	82.0	126.6	231,800*
	26	81.0	126.2	208,600
	28	80.0	125.9	180,700
140	30	79.1	125.5	158,400
	32	78.1	125.0	140,200
	34	77.1	124.5	125,000
	36	76.1	124.0	112,200
	38	75.1	123.5	101,100
	40	74.1	122.9	91,600
	42	73.1	122.2	83,200
	44	72.1	121.6	75,800
150	46	71.1	120.9	69,300
	48	70.1	120.1	63,400
	50	69.1	119.3	58,100
	55	66.5	117.2	47,000
	60	63.8	114.7	38,100
	65	61.1	112.0	30,800
	70	58.3	109.0	24,700
	24	82.6	136.7	232,000*
160	26	81.7	136.4	209,500
	28	80.8	136.0	181,600
	30	79.9	135.7	159,200
	32	79.0	135.3	141,000
	34	78.1	134.8	125,700
	36	77.2	134.3	112,800
	38	76.3	133.8	101,800
	40	75.4	133.3	92,200
170	42	74.5	132.7	83,900
	44	73.5	132.1	76,500
	46	72.6	131.5	69,900
	48	71.7	130.8	64,000
	24	82.6	136.7	232,000*
	26	81.7	136.4	209,500
	28	80.8	136.0	181,600
	30	79.9	135.7	159,200
	32	79.0	135.3	141,000
	34	78.1	134.8	125,700
	36	77.2	134.3	112,800
	38	76.3	133.8	101,800
	40	75.4	133.3	92,200
	42	74.5	132.7	83,900
	44	73.5	132.1	76,500
	46	72.6	131.5	69,900
	48	71.7	130.8	64,000

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
130	50	70.7	130.1	58,700
	55	68.4	128.1	47,500
	60	66.0	125.9	38,600
	65	63.5	123.4	31,300
	70	61.0	120.7	25,200
140	75	58.4	117.6	20,000
	26	82.3	146.5	182,600
	28	81.5	146.2	156,200
	30	80.6	145.8	135,000
	32	79.8	145.5	117,700
150	34	79.0	145.1	103,200
	36	78.1	144.6	91,000
	38	77.3	144.1	80,600
	40	76.4	143.6	71,500
	42	75.6	143.1	63,600
160	44	74.7	142.5	56,600
	46	73.9	141.9	50,400
	48	73.0	141.3	44,800
	50	72.2	140.7	39,800
	55	70.0	138.9	29,200
170	60	67.8	136.8	20,800
	65	65.5	134.6	13,900
	26	82.8	156.6	183,300
	28	82.0	156.3	156,700
	30	81.3	156.0	135,500
180	32	80.5	155.6	118,100
	34	79.7	155.3	103,600
	36	78.9	154.8	91,300
	38	78.2	154.4	80,800
	40	77.4	153.9	71,700
190	42	76.6	153.5	63,800
	44	75.8	152.9	56,700
	46	75.0	152.4	50,500
	48	74.2	151.8	44,900
	50	73.4	151.2	39,900
200	55	71.4	149.5	29,200
	60	69.4	147.6	20,800
	65	67.3	145.6	13,800
	28	82.5	166.4	157,000
	30	81.8	166.1	135,700
210	32	81.1	165.8	118,300
	34	80.4	165.4	103,800
	36	79.6	165.1	91,500
	38	78.9	164.6	81,000
	40	78.2	164.2	71,800
220	42	77.4	163.7	63,800
	44	76.7	163.3	56,800
	46	76.0	162.7	50,500
	48	75.2	162.2	44,900
	50	74.5	161.6	39,900
230	55	72.6	160.1	29,300
	60	70.7	158.3	20,800
	65	68.8	156.4	13,800
	28	82.5	166.4	157,000
	30	81.8	166.1	135,700
240	32	81.1	165.8	118,300
	34	80.4	165.4	103,800
	36	79.6	165.1	91,500
	38	78.9	164.6	81,000
	40	78.2	164.2	71,800
250	42	77.4	163.7	63,800
	44	76.7	163.3	56,800
	46	76.0	162.7	50,500
	48	75.2	162.2	44,900
	50	74.5	161.6	39,900
260	55	72.6	160.1	29,300
	60	70.7	158.3	20,800
	65	68.8	156.4	13,800
	28	82.5	166.4	157,000
	30	81.8	166.1	135,700
270	32	81.1	165.8	118,300
	34	80.4	165.4	103,800
	36	79.6	165.1	91,500
	38	78.9	164.6	81,000
	40	78.2	164.2	71,800
280	42	77.4	163.7	63,800
	44	76.7	163.3	56,800
	46	76.0	162.7	50,500
	48	75.2	162.2	44,900
	50	74.5	161.6	39,900
290	55	72.6	160.1	29,300
	60	70.7	158.3	20,800
	65	68.8	156.4	13,800
	28	82.5	166.4	157,000
	30	81.8	166.1	13

MANITOWOC ENGINEERING CO.

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



LIFTCRANE BOOM CAPACITIES WITH LUFFING JIB ATTACHED

MEETS
ANSI B30.5
REQUIREMENTS

888 SERIES 1

NEW YORK CITY CODE

BOOM NO. 22EL

LUFFING JIB NO. 135

144,100 LB. COUNTERWEIGHT

28'2" CRAWLERS EXTENDED

360 DEGREE RATING

130 FT. LUFFING JIB, ATTACHED AT 168 DEGREE BOOM TO LUFFING JIB ANGLE

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
70	16	82.8	77.2	365,900*
	17	82.0	77.1	343,200*
	18	81.1	76.9	322,700*
	19	80.3	76.7	304,200*
	20	79.5	76.5	287,400*
	22	77.8	76.0	258,000*
	24	76.1	75.5	233,200*
	26	74.4	74.9	204,300
	28	72.7	74.2	176,300
	30	70.9	73.5	153,900
80	32	69.2	72.7	135,600
	34	67.4	71.8	120,300
	36	65.6	70.9	107,300
	38	63.7	69.8	96,200
	40	61.9	68.7	86,600
	42	60.0	67.5	78,200
	44	58.0	66.2	70,800
	46	56.0	64.9	64,200
	48	54.0	63.4	58,200
	50	51.9	61.7	52,900
90	17	83.0	87.2	343,600*
	18	82.3	87.0	323,200*
	19	81.5	86.9	304,800*
	20	80.8	86.7	288,000*
	22	79.3	86.3	258,700*
	24	77.9	85.8	233,900*
	26	76.4	85.3	207,000
	28	74.9	84.7	178,800
	30	73.4	84.1	156,300
	32	71.9	83.4	137,800
100	34	70.4	82.7	122,500
	36	68.8	81.9	109,500
	38	67.3	81.0	98,300
	40	65.7	80.0	88,600
	42	64.1	79.0	80,200
	44	62.4	78.0	72,700
	46	60.8	76.8	66,000
	48	59.1	75.6	60,100
	50	57.4	74.3	54,700
	55	52.9	70.6	43,400

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
100	20	82.7	107.0	289,100*
	22	81.5	106.6	259,900*
	24	80.3	106.3	235,300*
	26	79.2	105.9	210,800
	28	78.0	105.4	182,400
	30	76.8	104.9	159,700
	32	75.6	104.4	141,200
	34	74.4	103.8	125,700
	36	73.2	103.2	112,600
	38	72.0	102.5	101,300
110	40	70.8	101.8	91,600
	42	69.6	101.0	83,100
	44	68.3	100.2	75,600
	46	67.1	99.3	68,900
	48	65.8	98.4	62,900
	50	64.6	97.4	57,500
	55	61.3	94.7	46,100
	60	57.9	91.6	37,000
	65	54.4	88.1	29,500
120	22	82.3	116.8	260,000*
	24	81.2	116.4	235,400*
	26	80.2	116.1	212,200
	28	79.1	115.7	183,700
	30	78.0	115.2	161,000
	32	77.0	114.7	142,300
	34	75.9	114.2	126,800
	36	74.8	113.6	113,600
	38	73.7	113.0	102,300
	40	72.6	112.4	92,600
130	42	71.5	111.7	84,000
	44	70.4	110.9	76,400
	46	69.3	110.2	69,700
	48	68.2	109.3	63,700
	50	67.0	108.5	58,300
	55	64.1	106.1	46,900
	60	61.2	103.4	37,700
	65	58.1	100.3	30,200
	70	55.0	96.8	24,000
	75	51.7	93.0	18,700

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
130	24	82.6	136.7	223,000
	26	81.7	136.4	187,900
	28	80.8	136.0	160,700
	30	79.9	135.7	138,900
	32	79.0	135.3	121,000
	34	78.1	134.8	106,100
	36	77.2	134.3	93,600
	38	76.3	133.8	82,800
	40	75.4	133.3	73,400
	42	74.5	132.7	65,200
140	44	73.5	132.1	58,000
	46	72.6	131.5	51,600
	48	71.7	130.8	45,900
	50	70.7	130.1	40,700
	55	68.4	128.1	29,800
	60	66.0	125.9	21,000
	65	63.5	123.4	13,900
150	26	82.3	146.5	188,700
	28	81.5	146.2	161,400
	30	80.6	145.8	139,500
	32	79.8	145.5	121,600
	34	79.0	145.1	106,700
	36	78.1	144.6	94,100
	38	77.3	144.1	83,300
	40	76.4	143.6	74,000
	42	75.6	143.1	65,800
	44	74.7	142.5	58,500
160	46	73.9	141.9	52,100
	48	73.0	141.3	46,300
	50	72.2	140.7	41,200
	55	70.0	138.9	30,200
	60	67.8	136.8	21,500
	65	65.5	134.6	14,300
170	28	82.8	156.6	189,500
	30	82.0	156.3	162,000
	32	81.3	156.0	140,100
	34	80.5	155.6	122,100
	36	79.7	155.3	107,200
	38	78.9	154.8	94,500
	40	78.2	154.4	83,700
	42	77.4	153.9	74,300
	44	76.6	153.5	66,000
	46	75.8	152.9	58,800
180	48	75.0	152.4	52,300
	50	74.2	151.8	46,500
	55	71.4	149.5	30,400
	60	69.4	147.6	21,600
	65	67.3	145.6	14,400
190	28	82.5	166.4	162,400
	30	81.8	166.1	140,400
	32	81.1	165.8	122,400
	34	80.4	165.4	107,500
	36	79.6	165.1	94,800
	38	78.9	164.6	83,900
	40	78.2	164.2	74,500
	42	77.4	163.7	66,200
	44	76.7	163.3	58,900
	46	76.0	162.7	52,500
200	48	75.2	162.2	46,700
	50	74.5	161.6	41,500
	55	72.6	160.1	30,500
	60	70.7	158.3	21,700
	65	68.8	156.4	14,400

MANITOWOC ENGINEERING CO.

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LIFTCRANE BOOM CAPACITIES WITH LUFFING JIB ATTACHED

MEETS
ANSI B30.5
REQUIREMENTS

888 SERIES 1

NEW YORK CITY CODE

BOOM NO. 22EL

LUFFING JIB NO. 135

144,100 LB. COUNTERWEIGHT

28'2" CRAWLERS EXTENDED

360 DEGREE RATING

140 FT. LUFFING JIB, ATTACHED AT 168 DEGREE BOOM TO LUFFING JIB ANGLE

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
70	16	82.8	77.2	362,300*
	17	82.0	77.1	339,600*
	18	81.1	76.9	319,100*
	19	80.3	76.7	300,700*
	20	79.5	76.5	283,900*
	22	77.8	76.0	254,500*
	24	76.1	75.5	229,700*
	26	74.4	74.9	200,300
	28	72.7	74.2	172,500
	30	70.9	73.5	150,200
80	32	69.2	72.7	132,000
	34	67.4	71.8	116,800
	36	65.6	70.9	104,000
	38	63.7	69.8	93,000
	40	61.9	68.7	83,400
	42	60.0	67.5	75,100
	44	58.0	66.2	67,700
	46	56.0	64.9	61,100
	48	54.0	63.4	55,200
	50	51.9	61.7	49,900
90	17	83.0	87.2	340,100*
	18	82.3	87.0	319,800*
	19	81.5	86.9	301,300*
	20	80.8	86.7	284,600*
	22	79.3	86.3	255,300*
	24	77.9	85.8	230,600*
	26	76.4	85.3	203,200
	28	74.9	84.7	175,200
	30	73.4	84.1	152,800
	32	71.9	83.4	134,500
100	34	70.4	82.7	119,300
	36	68.8	81.9	106,300
	38	67.3	81.0	95,300
	40	65.7	80.0	85,700
	42	64.1	79.0	77,200
	44	62.4	78.0	69,800
	46	60.8	76.8	63,200
	48	59.1	75.6	57,300
	50	57.4	74.3	52,000
	55	52.9	70.6	40,700

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
110	20	82.7	107.0	286,000*
	22	81.5	106.6	256,800*
	24	80.3	106.3	232,200*
	26	79.2	105.9	207,400
	28	78.0	105.4	179,200
	30	76.8	104.9	156,600
	32	75.6	104.4	138,200
	34	74.4	103.8	122,800
	36	73.2	103.2	109,800
	38	72.0	102.5	98,600
120	40	70.8	101.8	88,900
	42	69.6	101.0	80,500
	44	68.3	100.2	73,000
	46	67.1	99.3	66,400
	48	65.8	98.4	60,400
	50	64.6	97.4	55,100
	55	61.3	94.7	43,800
	60	57.9	91.6	34,700
	65	54.4	88.1	27,300
130	22	82.3	116.8	257,000*
	24	81.2	116.4	232,400*
	26	80.2	116.1	208,900
	28	79.1	115.7	180,600
	30	78.0	115.2	158,000
	32	77.0	114.7	139,400
	34	75.9	114.2	124,000
	36	74.8	113.6	110,900
	38	73.7	113.0	99,700
	40	72.6	112.4	90,000
140	42	71.5	111.7	81,500
	44	70.4	110.9	74,000
	46	69.3	110.2	67,300
	48	68.2	109.3	61,300
	50	67.0	108.5	56,000
	55	64.1	106.1	44,600
	60	61.2	103.4	35,500
	65	58.1	100.3	28,100
	70	55.0	96.8	21,900
	75	51.7	93.0	16,600

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
130	24	82.6	136.7	218,800
	26	81.7	136.4	184,000
	28	80.8	136.0	156,900
	30	79.9	135.7	135,300
	32	79.0	135.3	117,600
	34	78.1	134.8	102,800
	36	77.2	134.3	90,300
	38	76.3	133.8	79,600
	40	75.4	133.3	70,300
	42	74.5	132.7	62,200
140	44	73.5	132.1	55,000
	46	72.6	131.5	48,700
	48	71.7	130.8	43,000
	50	70.7	130.1	37,800
	55	68.4	128.1	27,000
	60	66.0	125.9	18,300
	65	63.5	123.4	11,200
150	26	82.3	146.5	184,800
	28	81.5	146.2	157,700
	30	80.6	145.8	136,000
	32	79.8	145.5	118,300
	34	79.0	145.1	103,500
	36	78.1	144.6	91,000
	38	77.3	144.1	80,300
	40	76.4	143.6	71,000
	42	75.6	143.1	62,800
	44	74.7	142.5	55,600
160	46	73.9	141.9	49,300
	48	73.0	141.3	43,500
	50	72.2	140.7	38,400
	55	70.0	138.9	27,500
	60	67.8	136.8	18,900
	65	65.5	134.6	11,700
170	28	82.8	156.6	185,700
	30	82.0	156.3	158,500
	32	81.3	156.0	136,700
	34	80.5	155.6	118,900
	36	79.7	155.3	104,000
	38	78.9	154.8	91,400
	40	78.2	154.4	80,700
	42	77.4	153.9	71,300
	44	76.6	153.5	63,200
	46	75.8	152.9	56,000
180	48	75.0	152.4	49,500
	50	74.2	151.8	43,800
	55	71.4	149.5	27,700
	60	69.4	147.6	19,000
	65	67.3	145.6	11,900
190	28	82.5	166.4	158,900
	30	81.8	166.1	137,100
	32	81.1	165.8	119,200
	34	80.4	165.4	104,400
	36	79.6	165.1	91,800
	38	78.9	164.6	81,000
	40	78.2	164.2	71,600
	42	77.4	163.7	63,400
	44	76.7	163.3	56,200
	46	76.0	162.7	49,800
200	48	75.2	162.2	44,000
	50	74.5	161.6	38,800
	55	72.6	160.1	27,900
	60	70.7	158.3	19,200
	65	68.8	156.4	12,000

MANITOWOC ENGINEERING CO.

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



LIFTCRANE BOOM CAPACITIES WITH LUFFING JIB ATTACHED

MEETS
ANSI B30.5
REQUIREMENTS

888 SERIES 1

NEW YORK CITY CODE

BOOM NO. 22EL

LUFFING JIB NO. 135

144,100 LB. COUNTERWEIGHT

28'2" CRAWLERS EXTENDED

360 DEGREE RATING

150 FT. LUFFING JIB, ATTACHED AT 168 DEGREE BOOM TO LUFFING JIB ANGLE

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
70	16	82.8	77.2	359,600*
	17	82.0	77.1	336,900*
	18	81.1	76.9	316,500*
	19	80.3	76.7	298,100*
	20	79.5	76.5	281,300*
	22	77.8	76.0	252,000*
	24	76.1	75.5	227,200*
	26	74.4	74.9	197,200
	28	72.7	74.2	169,600
	30	70.9	73.5	147,500
	32	69.2	72.7	129,400
	34	67.4	71.8	114,300
	36	65.6	70.9	101,600
	38	63.7	69.8	90,600
	40	61.9	68.7	81,200
	42	60.0	67.5	72,900
	44	58.0	66.2	65,500
	46	56.0	64.9	59,000
	48	54.0	63.4	53,200
	50	51.9	61.7	47,900
80	17	83.0	87.2	337,600*
	18	82.3	87.0	317,300*
	19	81.5	86.9	298,900*
	20	80.8	86.7	282,200*
	22	79.3	86.3	253,000*
	24	77.9	85.8	228,300*
	26	76.4	85.3	200,300
	28	74.9	84.7	172,500
	30	73.4	84.1	150,300
	32	71.9	83.4	132,100
	34	70.4	82.7	116,900
	36	68.8	81.9	104,100
	38	67.3	81.0	93,100
	40	65.7	80.0	83,500
	42	64.1	79.0	75,200
	44	62.4	78.0	67,800
	46	60.8	76.8	61,300
	48	59.1	75.6	55,400
	50	57.4	74.3	50,100
	55	52.9	70.6	39,000
90	19	82.5	97.0	299,600*
	20	81.8	96.8	283,000*
	22	80.5	96.5	253,800*
	24	79.2	96.1	229,200*
	26	77.9	95.6	202,900
	28	76.6	95.1	174,900
	30	75.3	94.6	152,600
	32	74.0	94.0	134,300
	34	72.6	93.3	119,000
	36	71.3	92.6	106,100
	38	69.9	91.8	95,100
	40	68.6	91.0	85,500
	42	67.2	90.1	77,100
	44	65.8	89.2	69,700
	46	64.3	88.2	63,100
	48	62.9	87.2	57,200
	50	61.4	86.0	51,900
	55	57.7	82.9	40,700
	60	53.8	79.3	31,700

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
100	20	82.7	107.0	283,700*
	22	81.5	106.6	254,700*
	24	80.3	106.3	230,100*
	26	79.2	105.9	204,800
	28	78.0	105.4	176,700
	30	76.8	104.9	154,300
	32	75.6	104.4	136,000
	34	74.4	103.8	120,700
	36	73.2	103.2	107,800
	38	72.0	102.5	96,700
	40	70.8	101.8	87,100
	42	69.6	101.0	78,700
	44	68.3	100.2	71,200
	46	67.1	99.3	64,600
	48	65.8	98.4	58,700
	50	64.6	97.4	53,400
	55	61.3	94.7	42,200
	60	57.9	91.6	33,200
	65	54.4	88.1	25,800
110	22	82.3	116.8	254,900*
	24	81.2	116.4	212,800
	26	80.2	116.1	178,400
	28	79.1	115.7	151,700
	30	78.0	115.2	130,300
	32	77.0	114.7	112,800
	34	75.9	114.2	98,200
	36	74.8	113.6	85,800
	38	73.7	113.0	75,300
	40	72.6	112.4	66,100
	42	71.5	111.7	58,100
	44	70.4	110.9	51,000
	46	69.3	110.2	44,700
	48	68.2	109.3	39,100
	50	67.0	108.5	34,000
	55	64.1	106.1	23,300
	60	61.2	103.4	14,700
120	22	82.9	126.9	255,200*
	24	82.0	126.6	214,300
	26	81.0	126.2	179,800
	28	80.0	125.9	153,000
	30	79.1	125.5	131,500
	32	78.1	125.0	114,000
	34	77.1	124.5	99,300
	36	76.1	124.0	87,000
	38	75.1	123.5	76,400
	40	74.1	122.9	67,200
	42	73.1	122.2	59,100
	44	72.1	121.6	52,000
	46	71.1	120.9	45,700
	48	70.1	120.1	40,100
	50	69.1	119.3	35,000
	55	66.5	117.2	24,300
	60	63.8	114.7	15,700
130	24	82.6	136.7	215,600
	26	81.7	136.4	181,100
	28	80.8	136.0	154,200
	30	79.9	135.7	132,700
	32	79.0	135.3	115,100
	34	78.1	134.8	100,500
	36	77.2	134.3	88,100
	38	76.3	133.8	77,400

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
130	40	75.4	133.3	68,200
	42	74.5	132.7	60,200
	44	73.5	132.1	53,000
	46	72.6	131.5	46,700
	48	71.7	130.8	41,100
	50	70.7	130.1	36,000
140	55	68.4	128.1	25,200
	60	66.0	125.9	16,600
150	26	82.3	146.5	182,000
	28	81.5	146.2	155,100
	30	80.6	145.8	133,500
	32	79.8	145.5	115,900
	34	79.0	145.1	101,200
	36	78.1	144.6	88,800
160	38	77.3	144.1	78,100
	40	76.4	143.6	68,900
	42	75.6	143.1	60,800
	44	74.7	142.5	53,700
	46	73.9	141.9	47,400
	48	73.0	141.3	41,700
170	50	72.2	140.7	36,600
	55	70.0	138.9	25,800
	60	67.8	136.8	17,200
	65	65.5	134.6	10,200
180	26	82.8	156.6	182,900
	28	82.0	156.3	155,900
	30	81.3	156.0	134,200
	32	80.5	155.6	116,500
	34	79.7	155.3	101,800
	36	78.9	154.8	89,300
190	38	78.2	154.4	78,600
	40	77.4	153.9	69,400
	42	76.6	153.5	61,200
	44	75.8	152.9	54,100
	46	75.0	152.4	47,700
	48	74.2	151.8	42,000
200	50	73.4	151.2	36,900
	55	71.4	149.5	26,100
	60	69.4	147.6	17,400
	65	67.3	145.6	10,400
210	28	82.5	166.4	156,400
	30	81.8	166.1	134,700
	32	81.1	165.8	117,000
	34	80.4	165.4	102,200
	36	79.6	165.1	89,700
	38	78.9	164.6	79,000
220	40	78.2	164.2	69,700
	42	77.4	163.7	61,600
	44	76.7	163.3	54,400
	46	76.0	162.7	48,000
	48	75.2	162.2	42,300
	50	74.5	161.6	37,200
230	55	72.6	160.1	26,300
	60	70.7	158.3	17,700
	65	68.8	156.4	10,600

MANITOWOC ENGINEERING CO.

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



LIFTCRANE BOOM CAPACITIES WITH LUFFING JIB ATTACHED

MEETS
ANSI B30.5
REQUIREMENTS

888 SERIES 1

NEW YORK CITY CODE

BOOM NO. 22EL

LUFFING JIB NO. 135

144,100 LB. COUNTERWEIGHT

28'2" CRAWLERS EXTENDED

360 DEGREE RATING

160 FT. LUFFING JIB, ATTACHED AT 168 DEGREE BOOM TO LUFFING JIB ANGLE

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
70	16	82.8	77.2	355,800*	100	20	82.7	107.0	280,400*	130	40	75.4	133.3	65,000
	17	82.0	77.1	333,100*		22	81.5	106.6	251,300		42	74.5	132.7	57,000
	18	81.1	76.9	312,700*		24	80.3	106.3	206,000		44	73.5	132.1	49,900
	19	80.3	76.7	294,300*		26	79.2	105.9	172,100		46	72.6	131.5	43,700
	20	79.5	76.5	277,600*		28	78.0	105.4	145,700		48	71.7	130.8	38,000
	22	77.8	76.0	248,300*		30	76.8	104.9	124,500		50	70.7	130.1	33,000
	24	76.1	75.5	223,600*		32	75.6	104.4	107,300		55	68.4	128.1	22,300
	26	74.4	74.9	193,000		34	74.4	103.8	92,900		60	66.0	125.9	13,800
	28	72.7	74.2	165,600		36	73.2	103.2	80,700	140	26	82.3	146.5	177,900
	30	70.9	73.5	143,700		38	72.0	102.5	70,200		28	81.5	146.2	151,200
	32	69.2	72.7	125,700		40	70.8	101.8	61,200		30	80.6	145.8	129,800
	34	67.4	71.8	110,700		42	69.6	101.0	53,300		32	79.8	145.5	112,400
	36	65.6	70.9	98,100		44	68.3	100.2	46,300		34	79.0	145.1	97,800
	38	63.7	69.8	87,200		46	67.1	99.3	40,100		36	78.1	144.6	85,500
	40	61.9	68.7	77,800		48	65.8	98.4	34,500		38	77.3	144.1	74,900
	42	60.0	67.5	69,500		50	64.6	97.4	29,500		40	76.4	143.6	65,800
	44	58.0	66.2	62,300		55	61.3	94.7	19,000		42	75.6	143.1	57,700
	46	56.0	64.9	55,800		60	57.9	91.6	10,500		44	74.7	142.5	50,700
	48	54.0	63.4	50,000	110	22	82.3	116.8	251,800*		46	73.9	141.9	44,400
	50	51.9	61.7	44,800		24	81.2	116.4	208,100		48	73.0	141.3	38,800
80	17	83.0	87.2	333,900*		26	80.2	116.1	174,000		50	72.2	140.7	33,700
	18	82.3	87.0	313,600*		28	79.1	115.7	147,500		55	70.0	138.9	23,000
	19	81.5	86.9	295,300*		30	78.0	115.2	126,300		60	67.8	136.8	14,500
	20	80.8	86.7	278,600*		32	77.0	114.7	108,900	150	26	82.8	156.6	179,000
	22	79.3	86.3	249,500*		34	75.9	114.2	94,400		28	82.0	156.3	152,100
	24	77.9	85.8	224,800*		36	74.8	113.6	82,200		30	81.3	156.0	130,700
	26	76.4	85.3	196,400		38	73.7	113.0	71,700		32	80.5	155.6	113,100
	28	74.9	84.7	168,800		40	72.6	112.4	62,600		34	79.7	155.3	98,500
	30	73.4	84.1	146,700		42	71.5	111.7	54,700		36	78.9	154.8	86,100
	32	71.9	83.4	128,600		44	70.4	110.9	47,600		38	78.2	154.4	75,500
	34	70.4	82.7	113,600		46	69.3	110.2	41,400		40	77.4	153.9	66,300
	36	68.8	81.9	100,800		48	68.2	109.3	35,800		42	76.6	153.5	58,200
	38	67.3	81.0	89,900		50	67.0	108.5	30,800		44	75.8	152.9	51,100
	40	65.7	80.0	80,400		55	64.1	106.1	20,200		46	75.0	152.4	44,800
	42	64.1	79.0	72,100		60	61.2	103.4	11,700		48	74.2	151.8	39,200
	44	62.4	78.0	64,800	120	22	82.9	126.9	252,100*		50	73.4	151.2	34,100
	46	60.8	76.8	58,300		24	82.0	126.6	209,700		55	71.4	149.5	23,400
	48	59.1	75.6	52,500		26	81.0	126.2	175,500		60	69.4	147.6	14,800
	50	57.4	74.3	47,200		28	80.0	125.9	148,900	160	28	82.5	166.4	152,700
	55	52.9	70.6	36,200		30	79.1	125.5	127,600		30	81.8	166.1	131,200
90	19	82.5	97.0	296,200*		32	78.1	125.0	110,200		32	81.1	165.8	113,600
	20	81.8	96.8	279,500*		34	77.1	124.5	95,700		34	80.4	165.4	98,900
	22	80.5	96.5	250,500*		36	76.1	124.0	83,400		36	79.6	165.1	86,500
	24	79.2	96.1	225,900*		38	75.1	123.5	72,900		38	78.9	164.6	75,900
	26	77.9	95.6	199,100		40	74.1	122.9	63,800		40	78.2	164.2	66,700
	28	76.6	95.1	171,300		42	73.1	122.2	55,800		42	77.4	163.7	58,600
	30	75.3	94.6	149,100		44	72.1	121.6	48,800		44	76.7	163.3	51,500
	32	74.0	94.0	131,000		46	71.1	120.9	42,500		46	76.0	162.7	45,200
	34	72.6	93.3	115,800		48	70.1	120.1	36,900		48	75.2	162.2	39,500
	36	71.3	92.6	103,000		50	69.1	119.3	31,900		50	74.5	161.6	34,400
	38	69.9	91.8	92,000		55	66.5	117.2	21,300		55	72.6	160.1	23,700
	40	68.6	91.0	82,500		60	63.8	114.7	12,700		60	70.7	158.3	15,100
	42	67.2	90.1	74,200	130	24	82.6	136.7	211,200	170	28	81.7	136.4	176,900
	44	65.8	89.2	66,800		26	81.7	136.4	176,900		30	80.8	136.0	150,300
	46	64.3	88.2	60,300		28	80.8	136.0	150,300		32	79.9	135.7	128,900
	48	62.9	87.2	54,400		30	79.9	135.7	128,900		34	79.0	135.3	111,500
	50	61.4	86.0	49,200		32	79.0	135.3	111,500		36	78.1	134.8	97,000
	55	57.7	82.9	38,000		36	77.2	134.3	84,700		38	77.2	134.3	84,700
	60	53.8	79.3	29,100		38	76.3	133.8	74,100					

MANITOWOC ENGINEERING CO.

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



LIFTCRANE BOOM CAPACITIES WITH LUFFING JIB ATTACHED

MEETS
ANSI B30.5
REQUIREMENTS

888 SERIES 1

NEW YORK CITY CODE

BOOM NO. 22EL

LUFFING JIB NO. 135

144,100 LB. COUNTERWEIGHT

28'2" CRAWLERS EXTENDED

360 DEGREE RATING

170 FT. LUFFING JIB, ATTACHED AT 168 DEGREE BOOM TO LUFFING JIB ANGLE

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
70	16	82.8	77.2	352,100*	100	20	82.7	107.0	277,300*	130	40	75.4	133.3	62,000
	17	82.0	77.1	329,500*		22	81.5	106.6	246,300		42	74.5	132.7	54,100
	18	81.1	76.9	309,200*		24	80.3	106.3	201,400		44	73.5	132.1	47,100
	19	80.3	76.7	290,800*		26	79.2	105.9	167,800		46	72.6	131.5	40,900
	20	79.5	76.5	274,100*		28	78.0	105.4	141,600		48	71.7	130.8	35,300
	22	77.8	76.0	244,900*		30	76.8	104.9	120,600		50	70.7	130.1	30,300
	24	76.1	75.5	220,200*		32	75.6	104.4	103,500		55	68.4	128.1	19,800
	26	74.4	74.9	189,000		34	74.4	103.8	89,300		60	66.0	125.9	11,300
	28	72.7	74.2	161,800		36	73.2	103.2	77,200	140	26	82.3	146.5	174,100
	30	70.9	73.5	140,000		38	72.0	102.5	66,800		28	81.5	146.2	147,600
	32	69.2	72.7	122,200		40	70.8	101.8	57,900		30	80.6	145.8	126,400
	34	67.4	71.8	107,300		42	69.6	101.0	50,000		32	79.8	145.5	109,100
	36	65.6	70.9	94,800		44	68.3	100.2	43,100		34	79.0	145.1	94,700
	38	63.7	69.8	84,000		46	67.1	99.3	36,900		36	78.1	144.6	82,400
	40	61.9	68.7	74,700		48	65.8	98.4	31,400		38	77.3	144.1	72,000
	42	60.0	67.5	66,500		50	64.6	97.4	26,500		40	76.4	143.6	62,900
	44	58.0	66.2	59,300		55	61.3	94.7	16,000		42	75.6	143.1	55,000
	46	56.0	64.9	52,900		22	82.3	116.8	248,800*		44	74.7	142.5	48,000
	48	54.0	63.4	47,100		24	81.2	116.4	203,700	150	46	73.9	141.9	41,700
	50	51.9	61.7	42,000		26	80.2	116.1	169,900		48	73.0	141.3	36,200
80	17	83.0	87.2	330,500*	110	28	79.1	115.7	143,600		50	72.2	140.7	31,100
	18	82.3	87.0	310,300*		30	78.0	115.2	122,500		55	70.0	138.9	20,600
	19	81.5	86.9	292,000*		32	77.0	114.7	105,300		60	67.8	136.8	12,100
	20	80.8	86.7	275,300*		34	75.9	114.2	91,000	160	26	82.8	156.6	175,200
	22	79.3	86.3	246,200*		36	74.8	113.6	78,800		28	82.0	156.3	148,600
	24	77.9	85.8	221,600*		38	73.7	113.0	68,400		30	81.3	156.0	127,300
	26	76.4	85.3	192,600		40	72.6	112.4	59,400		32	80.5	155.6	109,900
	28	74.9	84.7	165,200		42	71.5	111.7	51,500		34	79.7	155.3	95,400
	30	73.4	84.1	143,300		44	70.4	110.9	44,600		36	78.9	154.8	83,100
	32	71.9	83.4	125,300		46	69.3	110.2	38,400		38	78.2	154.4	72,600
	34	70.4	82.7	110,400		48	68.2	109.3	32,900		40	77.4	153.9	63,500
	36	68.8	81.9	97,800		50	67.0	108.5	27,900		42	76.6	153.5	55,500
	38	67.3	81.0	86,900		55	64.1	106.1	17,400		44	75.8	152.9	48,500
	40	65.7	80.0	77,500	120	22	82.9	126.9	249,300*		46	75.0	152.4	42,200
	42	64.1	79.0	69,300		24	82.0	126.6	205,400		48	74.2	151.8	36,600
	44	62.4	78.0	62,000		26	81.0	126.2	171,500		50	73.4	151.2	31,600
	46	60.8	76.8	55,600		28	80.0	125.9	145,100		55	71.4	149.5	21,000
	48	59.1	75.6	49,800		30	79.1	125.5	124,000		60	69.4	147.6	12,500
	50	57.4	74.3	44,600		32	78.1	125.0	106,800	130	28	82.5	166.4	149,300
	55	52.9	70.6	33,600		34	77.1	124.5	92,400		30	81.8	166.1	127,900
90	19	82.5	97.0	293,000*		36	76.1	124.0	80,200		32	81.1	165.8	110,500
	20	81.8	96.8	276,400*		38	75.1	123.5	69,800		34	80.4	165.4	95,900
	22	80.5	96.5	243,500		40	74.1	122.9	60,800		36	79.6	165.1	83,600
	24	79.2	96.1	198,800		42	73.1	122.2	52,800		38	78.9	164.6	73,100
	26	77.9	95.6	165,200		44	72.1	121.6	45,900		40	78.2	164.2	64,000
	28	76.6	95.1	139,100		46	71.1	120.9	39,700		42	77.4	163.7	56,000
	30	75.3	94.6	118,200		48	70.1	120.1	34,100		44	76.7	163.3	48,900
	32	74.0	94.0	101,100		50	69.1	119.3	29,100		46	76.0	162.7	42,600
	34	72.6	93.3	86,900		55	66.5	117.2	18,600	140	48	75.2	162.2	37,000
	36	71.3	92.6	74,900		60	63.8	114.7	10,200		50	74.5	161.6	32,000
	38	69.9	91.8	64,500	130	24	82.6	136.7	207,000		55	72.6	160.1	21,300
	40	68.6	91.0	55,600		26	81.7	136.4	173,000		60	70.7	158.3	12,800
	42	67.2	90.1	47,800		28	80.8	136.0	146,600					
	44	65.8	89.2	40,900		30	79.9	135.7	125,400					
	46	64.3	88.2	34,700		32	79.0	135.3	108,100					
	48	62.9	87.2	29,200		34	78.1	134.8	93,700					
	50	61.4	86.0	24,300		36	77.2	134.3	81,500					
	55	57.7	82.9	13,900		38	76.3	133.8	71,100					