

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

**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. 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. 7830-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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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
100	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
110	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
120	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
130	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
140	40	72.6	112.4	98,500
	42	71.5	111.7	90,100
	44	70.4	110.9	82,700

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
120	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
130	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
140	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
150	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
160	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
170	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
180	46	73.9	141.9	76,700
	48	73.0	141.3	70,800
	50	72.2	140.7	65,400

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
150	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
160	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
170	46	75.0	152.4	76,600
	48	74.2	151.8	70,700
	50	73.4	151.2	65,300
	55	71.4	149.5	54,100
180	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
	36	79.6	165.1	120,000
190	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
	46	76.0	162.7	76,500
200	48	75.2	162.2	70,600
	50	74.5	161.6	65,200
	55	72.6	160.1	53,900
	60	70.7	158.3	44,900

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BOOM NO. 22EL
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
	32	69.2	72.7	143,100
	34	67.4	71.8	128,000
	36	65.6	70.9	115,200
80	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
	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
90	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*
	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
100	36	71.3	92.6	117,200
	38	69.9	91.8	106,100
	40	68.6	91.0	96,500
	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
	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
110	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
	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
120	46	69.3	110.2	75,200
	48	68.2	109.3	69,200
	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
	28	80.8	136.0	188,700
	30	79.9	135.7	166,100
140	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
	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
	46	73.9	141.9	75,900
	48	73.0	141.3	70,000
150	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
	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
160	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
	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
	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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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
	32	69.2	72.7	139,700
	34	67.4	71.8	124,800
	36	65.6	70.9	112,200
80	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	206,700
	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
90	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*
	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
100	36	71.3	92.6	114,300
	38	69.9	91.8	103,400
	40	68.6	91.0	93,900
	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
	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
110	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
	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
120	46	69.3	110.2	72,900
	48	68.2	109.3	67,000
	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
	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
	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
150	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
	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
	34	79.7	155.3	130,000
160	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
	60	69.4	147.6	42,400
	65	67.3	145.6	35,000
	70	65.2	143.3	28,900
170	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
	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



LIFT CRANE BOOM CAPACITIES WITH LUFFING JIB ATTACHED

MEETS
ANSI B30.5
REQUIREMENTS

888 SERIES 1

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
	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
	36	73.2	103.2	115,700
	38	72.0	102.5	104,500

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
100	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
110	55	61.3	94.7	49,800
	60	57.9	91.6	40,700
120	22	82.3	116.8	261,700*
	24	81.2	116.4	237,300*
	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
130	46	69.3	110.2	72,800
	48	68.2	109.3	66,900
	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
140	34	77.1	124.5	130,000
	36	76.1	124.0	116,900
	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
150	70	58.3	109.0	27,900
	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
	48	71.7	130.8	67,800
	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

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
140	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
150	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
160	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
170	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
180	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
190	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
200	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	188,700
	30	81.8	166.1	165,800
	32	81.1	165.8	147,100
210	34	80.4	165.4	131,500
	36	79.6	165.1	118,200
	38	78.9	164.6	106,900
	40	78.2	164.2	97,100
	42	77.4	163.7	88,500
	44	76.7	163.3	81,000
220	46	76.0	162.7	74,200
	48	75.2	162.2	68,200
	50	74.5	161.6	62,800
	55	72.6	160.1	51,300
	60	70.7	158.3	42,200
	65	68.8	156.4	34,700
230	70	66.8	154.3	28,400
	75	64.9	152.0	23,100
	80	62.9	149.4	18,600
	85	60.8	146.7	14,600
	90	58.7	143.6	11,200

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

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
70	16	82.8	77.2	364,500*
	17	82.0	77.1	342,100*
	18	81.1	76.9	322,000*
	19	80.3	76.7	303,800*
	20	79.5	76.5	287,300*
	22	77.8	76.0	258,500*
	24	76.1	75.5	234,100*
	26	74.4	74.9	205,100
	28	72.7	74.2	177,600
	30	70.9	73.5	155,500
	32	69.2	72.7	137,500
	34	67.4	71.8	122,400
	36	65.6	70.9	109,700
	38	63.7	69.8	98,800
	40	61.9	68.7	89,300
	42	60.0	67.5	81,100
	44	58.0	66.2	73,700
80	17	83.0	87.2	342,200*
	18	82.3	87.0	322,200*
	19	81.5	86.9	304,000*
	20	80.8	86.7	287,600*
	22	79.3	86.3	258,800*
	24	77.9	85.8	234,400*
	26	76.4	85.3	207,300
	28	74.9	84.7	179,600
	30	73.4	84.1	157,400
	32	71.9	83.4	139,200
	34	70.4	82.7	124,100
	36	68.8	81.9	111,300
	38	67.3	81.0	100,300
	40	65.7	80.0	90,800
	42	64.1	79.0	82,500
	44	62.4	78.0	75,100
90	19	82.5	97.0	304,300*
	20	81.8	96.8	287,900*
	22	80.5	96.5	259,100*
	24	79.2	96.1	234,800*
	26	77.9	95.6	209,100
	28	76.6	95.1	181,200
	30	75.3	94.6	158,900
	32	74.0	94.0	140,700
	34	72.6	93.3	125,500
	36	71.3	92.6	112,600
	38	69.9	91.8	101,600
	40	68.6	91.0	92,000
	42	67.2	90.1	83,700
	44	65.8	89.2	76,300
	46	64.3	88.2	69,700
	48	62.9	87.2	63,900
100	50	61.4	86.0	58,600
	55	57.7	82.9	47,400
	20	82.7	107.0	288,200*
	22	81.5	106.6	259,500*
	24	80.3	106.3	235,200*
	26	79.2	105.9	210,400
	28	78.0	105.4	182,500
	30	76.8	104.9	160,100
	32	75.6	104.4	141,800
	34	74.4	103.8	126,600
	36	73.2	103.2	113,700
	38	72.0	102.5	102,700

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
100	40	70.8	101.8	93,100
	42	69.6	101.0	84,700
	44	68.3	100.2	77,300
	46	67.1	99.3	70,700
	48	65.8	98.4	64,800
	50	64.6	97.4	59,500
	55	61.3	94.7	48,300
	60	57.9	91.6	39,400
110	22	82.3	116.8	259,400*
	24	81.2	116.4	235,200*
	26	80.2	116.1	211,600
	28	79.1	115.7	183,500
	30	78.0	115.2	161,100
	32	77.0	114.7	142,700
	34	75.9	114.2	127,400
	36	74.8	113.6	114,500
	38	73.7	113.0	103,400
	40	72.6	112.4	93,800
	42	71.5	111.7	85,300
	44	70.4	110.9	77,900
	46	69.3	110.2	71,300
	48	68.2	109.3	65,400
	50	67.0	108.5	60,100
	55	64.1	106.1	48,800
120	60	61.2	103.4	39,800
	65	58.1	100.3	32,500
	22	82.9	126.9	259,400*
	24	82.0	126.6	235,200*
	26	81.0	126.2	212,400
	28	80.0	125.9	184,300
	30	79.1	125.5	161,800
	32	78.1	125.0	143,400
	34	77.1	124.5	128,100
	36	76.1	124.0	115,100
	38	75.1	123.5	104,000
	40	74.1	122.9	94,300
	42	73.1	122.2	85,900
	44	72.1	121.6	78,400
	46	71.1	120.9	71,800
	48	70.1	120.1	65,900
130	50	69.1	119.3	60,600
	55	66.5	117.2	49,300
	60	63.8	114.7	40,300
	65	61.1	112.0	32,900
	70	58.3	109.0	26,800
	24	82.6	136.7	235,300*
	26	81.7	136.4	213,200
	28	80.8	136.0	185,000
	30	79.9	135.7	162,500
	32	79.0	135.3	144,100
	34	78.1	134.8	128,700
	36	77.2	134.3	115,700
	38	76.3	133.8	104,600
	40	75.4	133.3	94,900
	42	74.5	132.7	86,400
	44	73.5	132.1	79,000
	46	72.6	131.5	72,300
	48	71.7	130.8	66,400
	50	70.7	130.1	61,100
	55	68.4	128.1	49,800
	60	66.0	125.9	40,800
	65	63.5	123.4	33,400
	70	61.0	120.7	27,200
	75	58.4	117.6	22,000

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
140	26	82.3	146.5	213,800
	28	81.5	146.2	185,600
	30	80.6	145.8	163,000
	32	79.8	145.5	144,500
	34	79.0	145.1	129,100
	36	78.1	144.6	116,100
	38	77.3	144.1	104,900
	40	76.4	143.6	95,200
	42	75.6	143.1	86,800
	44	74.7	142.5	79,300
	46	73.9	141.9	72,700
	48	73.0	141.3	66,700
	50	72.2	140.7	61,400
	55	70.0	138.9	50,100
	60	67.8	136.8	41,000
	65	65.5	134.6	33,600
	70	63.3	132.1	27,500
	75	60.9	129.3	22,200
	80	58.5	126.3	17,800
150	26	82.8	156.6	201,900*
	28	82.0	156.3	186,200
	30	81.3	156.0	163,500
	32	80.5	155.6	145,000
	34	79.7	155.3	129,500
	36	78.9	154.8	116,400
	38	78.2	154.4	105,200
	40	77.4	153.9	95,500
	42	76.6	153.5	87,000
	44	75.8	152.9	79,500
	46	75.0	152.4	72,800
	48	74.2	151.8	66,800
	50	73.4	151.2	61,500
	55	71.4	149.5	50,100
	60	69.4	147.6	41,100
	65	67.3	145.6	33,600
	70	65.2	143.3	27,400
	75	63.0	140.8	22,200
	80	60.9	138.0	17,700
	85	58.6	135.0	13,800
160	28	82.5	166.4	186,500
	30	81.8	166.1	163,800
	32	81.1	165.8	145,200
	34	80.4	165.4	129,700
	36	79.6	165.1	116,600
	38	78.9	164.6	105,300
	40	78.2	164.2	95,600
	42	77.4	163.7	87,100
	44	76.7	163.3	79,600
	46	76.0	162.7	72,900
	48	75.2	162.2	66,900
	50	74.5	161.6	61,500
	55	72.6	160.1	50,200
	60	70.7	158.3	41,100
	65	68.8	156.4	33,600
	70	66.8	154.3	27,400
	75	64.9	152.0	22,200
	80	62.9	149.4	17,700
	85	60.8	146.7	13,800
	90	58.7	143.6	10,300

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

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
80	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
	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
90	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
	46	60.8	76.8	65,700
	48	59.1	75.6	59,900
	50	57.4	74.3	54,700
100	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
110	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
	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
	36	73.2	103.2	110,600
	38	72.0	102.5	99,700

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
100	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
120	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
	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
130	46	69.3	110.2	68,700
	48	68.2	109.3	62,900
	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
	30	79.1	125.5	158,400
	32	78.1	125.0	140,200
140	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
	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
150	70	58.3	109.0	24,700
	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
160	46	72.6	131.5	69,900
	48	71.7	130.8	64,000
	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
	75	58.4	117.6	20,000

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
140	26	82.3	146.5	210,100
	28	81.5	146.2	182,100
	30	80.6	145.8	159,800
	32	79.8	145.5	141,500
	34	79.0	145.1	126,200
	36	78.1	144.6	113,300
	38	77.3	144.1	102,200
	40	76.4	143.6	92,600
	42	75.6	143.1	84,200
	44	74.7	142.5	76,800
	46	73.9	141.9	70,300
	48	73.0	141.3	64,400
150	50	72.2	140.7	59,100
	55	70.0	138.9	47,900
	60	67.8	136.8	38,900
	65	65.5	134.6	31,600
	70	63.3	132.1	25,500
	75	60.9	129.3	20,300
	80	58.5	126.3	15,900
	26	82.8	156.6	198,500*
	28	82.0	156.3	182,800
	30	81.3	156.0	160,300
	32	80.5	155.6	142,000
	34	79.7	155.3	126,600
160	36	78.9	154.8	113,700
	38	78.2	154.4	102,600
	40	77.4	153.9	92,900
	42	76.6	153.5	84,500
	44	75.8	152.9	77,100
	46	75.0	152.4	70,500
	48	74.2	151.8	64,500
	50	73.4	151.2	59,200
	55	71.4	149.5	48,000
	60	69.4	147.6	39,000
	65	67.3	145.6	31,600
	70	65.2	143.3	25,500
170	75	63.0	140.8	20,300
	80	60.9	138.0	15,900
	85	58.6	135.0	12,000
	28	82.5	166.4	183,100
	30	81.8	166.1	160,600
	32	81.1	165.8	142,200
	34	80.4	165.4	126,900
	36	79.6	165.1	113,900
	38	78.9	164.6	102,700
	40	78.2	164.2	93,100
	42	77.4	163.7	84,700
	44	76.7	163.3	77,200
180	46	76.0	162.7	70,600
	48	75.2	162.2	64,700
	50	74.5	161.6	59,300
	55	72.6	160.1	48,100
	60	70.7	158.3	39,000
	65	68.8	156.4	31,700
	70	66.8	154.3	25,500
	75	64.9	152.0	20,300
	80	62.9	149.4	15,900
	85	60.8	146.7	12,000

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

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
110	19	82.5	97.0	305,300*
	20	81.8	96.8	288,600*
	22	80.5	96.5	259,300*
	24	79.2	96.1	234,600*
	26	77.9	95.6	209,100
	28	76.6	95.1	180,900
	30	75.3	94.6	158,200
	32	74.0	94.0	139,700
	34	72.6	93.3	124,200
	36	71.3	92.6	111,200
120	38	69.9	91.8	100,000
	40	68.6	91.0	90,300
	42	67.2	90.1	81,800
	44	65.8	89.2	74,200
	46	64.3	88.2	67,600
	48	62.9	87.2	61,600
	50	61.4	86.0	56,200
	55	57.7	82.9	44,900
	60	53.8	79.3	35,700
130	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

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
100	36	73.2	103.2	112,600
	38	72.0	102.5	101,300
	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
110	65	54.4	88.1	29,500
	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
120	40	72.6	112.4	92,600
	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
130	75	51.7	93.0	18,700
	22	82.9	126.9	260,200*
	24	82.0	126.6	235,600*
	26	81.0	126.2	213,300
	28	80.0	125.9	184,700
	30	79.1	125.5	161,900
	32	78.1	125.0	143,200
	34	77.1	124.5	127,600
	36	76.1	124.0	114,400
	38	75.1	123.5	103,100
140	40	74.1	122.9	93,300
	42	73.1	122.2	84,700
	44	72.1	121.6	77,200
	46	71.1	120.9	70,400
	48	70.1	120.1	64,400
	50	69.1	119.3	59,000
	55	66.5	117.2	47,600
	60	63.8	114.7	38,400
	65	61.1	112.0	30,900
	70	58.3	109.0	24,600
150	75	55.4	105.6	19,300
	80	52.4	101.8	14,800
	24	82.6	136.7	235,800*
	26	81.7	136.4	214,300
	28	80.8	136.0	185,700
	30	79.9	135.7	162,800
	32	79.0	135.3	144,000
	34	78.1	134.8	128,400
	36	77.2	134.3	115,200
	38	76.3	133.8	103,900
160	40	75.4	133.3	94,100
	42	74.5	132.7	85,500
	44	73.5	132.1	77,900
	46	72.6	131.5	71,200
	48	71.7	130.8	65,100
	50	70.7	130.1	59,700
	55	68.4	128.1	48,200

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
130	60	66.0	125.9	39,100
	65	63.5	123.4	31,500
	70	61.0	120.7	25,300
	75	58.4	117.6	20,000
	80	55.8	114.3	15,400
	85	53.0	110.6	11,400
140	26	82.3	146.5	214,800*
	28	81.5	146.2	186,300
	30	80.6	145.8	163,400
	32	79.8	145.5	144,600
	34	79.0	145.1	129,000
	36	78.1	144.6	115,800
	38	77.3	144.1	104,400
	40	76.4	143.6	94,600
	42	75.6	143.1	86,000
	44	74.7	142.5	78,400
150	46	73.9	141.9	71,600
	48	73.0	141.3	65,600
	50	72.2	140.7	60,100
	55	70.0	138.9	48,700
	60	67.8	136.8	39,500
	65	65.5	134.6	31,900
	70	63.3	132.1	25,700
	75	60.9	129.3	20,300
	80	58.5	126.3	15,800
	85	56.1	123.0	11,800
160	26	82.8	156.6	205,600*
	28	82.0	156.3	187,100
	30	81.3	156.0	164,000
	32	80.5	155.6	145,200
	34	79.7	155.3	129,500
	36	78.9	154.8	116,200
	38	78.2	154.4	104,800
	40	77.4	153.9	94,900
	42	76.6	153.5	86,300
	44	75.8	152.9	78,700
170	46	75.0	152.4	71,900
	48	74.2	151.8	65,800
	50	73.4	151.2	60,400
	55	71.4	149.5	48,800
	60	69.4	147.6	39,600
	65	67.3	145.6	32,100
	70	65.2	143.3	25,800
	75	63.0	140.8	20,400
	80	60.9	138.0	15,900
	85	58.6	135.0	11,900
180	28	82.5	166.4	187,500
	30	81.8	166.1	164,400
	32	81.1	165.8	145,500
	34	80.4	165.4	129,800
	36	79.6	165.1	116,500
	38	78.9	164.6	105,100
	40	78.2	164.2	95,200
	42	77.4	163.7	86,500
	44	76.7	163.3	78,900
	46	76.0	162.7	72,100
190	48	75.2	162.2	66,000
	50	74.5	161.6	60,500
	55	72.6	160.1	49,000
	60	70.7	158.3	39,700
	65	68.8	156.4	32,200
	70	66.8	154.3	25,900
	75	64.9	152.0	20,500
	80	62.9	149.4	15,900
	85	60.8	146.7	12,000

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

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
	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
80	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
	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
	34	70.4	82.7	119,300
	36	68.8	81.9	106,300
90	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
	19	82.5	97.0	302,000*
	20	81.8	96.8	285,300*
	22	80.5	96.5	256,100*
	24	79.2	96.1	231,400*
	26	77.9	95.6	205,600
	28	76.6	95.1	177,500
	30	75.3	94.6	155,000
	32	74.0	94.0	136,600
100	34	72.6	93.3	121,200
	36	71.3	92.6	108,200
	38	69.9	91.8	97,100
	40	68.6	91.0	87,400
	42	67.2	90.1	79,000
	44	65.8	89.2	71,500
	46	64.3	88.2	64,900
	48	62.9	87.2	59,000
	50	61.4	86.0	53,600
	55	57.7	82.9	42,300
	60	53.8	79.3	33,300
	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

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
100	36	73.2	103.2	109,800
	38	72.0	102.5	98,600
	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
110	65	54.4	88.1	27,300
	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
120	40	72.6	112.4	90,000
	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
130	75	51.7	93.0	16,600
	22	82.9	126.9	257,300*
	24	82.0	126.6	232,700*
	26	81.0	126.2	210,100
	28	80.0	125.9	181,700
	30	79.1	125.5	159,000
	32	78.1	125.0	140,400
	34	77.1	124.5	124,900
	36	76.1	124.0	111,800
	38	75.1	123.5	100,600
140	40	74.1	122.9	90,800
	42	73.1	122.2	82,300
	44	72.1	121.6	74,800
	46	71.1	120.9	68,100
	48	70.1	120.1	62,100
	50	69.1	119.3	56,700
	55	66.5	117.2	45,400
	60	63.8	114.7	36,300
	65	61.1	112.0	28,800
	70	58.3	109.0	22,600
150	75	55.4	105.6	17,300
	80	52.4	101.8	12,800
	24	82.6	136.7	233,000*
	26	81.7	136.4	211,200
	28	80.8	136.0	182,700
	30	79.9	135.7	160,000
	32	79.0	135.3	141,300
	34	78.1	134.8	125,800
	36	77.2	134.3	112,700
	38	76.3	133.8	101,400
160	40	75.4	133.3	91,700
	42	74.5	132.7	83,100
	44	73.5	132.1	75,600
	46	72.6	131.5	68,900
	48	71.7	130.8	62,900
	50	70.7	130.1	57,500

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
130	55	68.4	128.1	46,100
	60	66.0	125.9	37,000
	65	63.5	123.4	29,500
	70	61.0	120.7	23,300
	75	58.4	117.6	18,000
	80	55.8	114.3	13,500
140	26	82.3	146.5	212,000
	28	81.5	146.2	183,500
	30	80.6	145.8	160,700
	32	79.8	145.5	142,000
	34	79.0	145.1	126,500
	36	78.1	144.6	113,300
	38	77.3	144.1	102,000
	40	76.4	143.6	92,200
	42	75.6	143.1	83,700
	44	74.7	142.5	76,100
	46	73.9	141.9	69,400
	48	73.0	141.3	63,400
	50	72.2	140.7	58,000
	55	70.0	138.9	46,600
150	60	67.8	136.8	37,500
	65	65.5	134.6	30,000
	70	63.3	132.1	23,800
	75	60.9	129.3	18,500
	80	58.5	126.3	13,900
	85	56.1	123.0	10,000
160	26	82.8	156.6	202,800*
	28	82.0	156.3	184,300
	30	81.3	156.0	161,400
	32	80.5	155.6	142,600
	34	79.7	155.3	127,000
	36	78.9	154.8	113,800
	38	78.2	154.4	102,500
	40	77.4	153.9	92,700
	42	76.6	153.5	84,100
	44	75.8	152.9	76,500
	46	75.0	152.4	69,800
	48	74.2	151.8	63,700
	50	73.4	151.2	58,300
	55	71.4	149.5	46,900
170	60	69.4	147.6	37,700
	65	67.3	145.6	30,200
	70	65.2	143.3	23,900
	75	63.0	140.8	18,600
	80	60.9	138.0	14,100
	85	58.6	135.0	10,100
180	28	82.5	166.4	184,700
	30	81.8	166.1	161,800
	32	81.1	165.8	143,000
	34	80.4	165.4	127,400
	36	79.6	165.1	114,100
	38	78.9	164.6	102,800
	40	78.2	164.2	93,000
	42	77.4	163.7	84,400
	44	76.7	163.3	76,800
	46	76.0	162.7	70,000
	48	75.2	162.2	64,000
	50	74.5	161.6	58,500
	55	72.6	160.1	47,100
	60	70.7	158.3	37,900
190	65	68.8	156.4	30,300
	70	66.8	154.3	24,100
	75	64.9	152.0	18,800
	80	62.9	149.4	14,200
	85	60.8	146.7	10,300

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

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
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

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
100	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
110	22	82.3	116.8	254,900*
	24	81.2	116.4	230,400*
	26	80.2	116.1	206,400
	28	79.1	115.7	178,300
	30	78.0	115.2	155,800
	32	77.0	114.7	137,400
	34	75.9	114.2	122,000
	36	74.8	113.6	109,000
	38	73.7	113.0	97,900
	40	72.6	112.4	88,200
120	42	71.5	111.7	79,800
	44	70.4	110.9	72,300
	46	69.3	110.2	65,700
	48	68.2	109.3	59,700
	50	67.0	108.5	54,400
	55	64.1	106.1	43,100
	60	61.2	103.4	34,100
	65	58.1	100.3	26,700
	70	55.0	96.8	20,500
	75	51.7	93.0	15,300
130	22	82.9	126.9	255,200*
	24	82.0	126.6	230,700*
	26	81.0	126.2	207,700
	28	80.0	125.9	179,500
	30	79.1	125.5	156,900
	32	78.1	125.0	138,400
	34	77.1	124.5	123,000
	36	76.1	124.0	110,000
	38	75.1	123.5	98,800
	40	74.1	122.9	89,100
140	42	73.1	122.2	80,700
	44	72.1	121.6	73,200
	46	71.1	120.9	66,500
	48	70.1	120.1	60,600
	50	69.1	119.3	55,200
	55	66.5	117.2	43,900
	60	63.8	114.7	34,900
	65	61.1	112.0	27,500
	70	58.3	109.0	21,300
	75	55.4	105.6	16,100
150	80	52.4	101.8	11,600
	24	82.6	136.7	231,100*
	26	81.7	136.4	208,800
	28	80.8	136.0	180,500
	30	79.9	135.7	157,900
	32	79.0	135.3	139,400
	34	78.1	134.8	124,000
	36	77.2	134.3	110,900
	38	76.3	133.8	99,700
	40	75.4	133.3	90,000
160	42	74.5	132.7	81,600
	44	73.5	132.1	74,100
	46	72.6	131.5	67,400
	48	71.7	130.8	61,400
	50	70.7	130.1	56,100

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
130	55	68.4	128.1	44,800
	60	66.0	125.9	35,700
	65	63.5	123.4	28,300
	70	61.0	120.7	22,100
	75	58.4	117.6	16,800
	80	55.8	114.3	12,300
140	26	82.3	146.5	209,700
	28	81.5	146.2	181,300
	30	80.6	145.8	158,700
	32	79.8	145.5	140,100
	34	79.0	145.1	124,700
	36	78.1	144.6	111,600
	38	77.3	144.1	100,400
	40	76.4	143.6	90,700
	42	75.6	143.1	82,200
	44	74.7	142.5	74,700
150	46	73.9	141.9	68,000
	48	73.0	141.3	62,000
	50	72.2	140.7	56,600
	55	70.0	138.9	45,300
	60	67.8	136.8	36,200
	65	65.5	134.6	28,800
	70	63.3	132.1	22,600
	75	60.9	129.3	17,300
	80	58.5	126.3	12,800
160	26	82.8	156.6	201,000*
	28	82.0	156.3	182,200
	30	81.3	156.0	159,400
	32	80.5	155.6	140,800
	34	79.7	155.3	125,300
	36	78.9	154.8	112,200
	38	78.2	154.4	100,900
	40	77.4	153.9	91,100
	42	76.6	153.5	82,600
	44	75.8	152.9	75,100
170	46	75.0	152.4	68,400
	48	74.2	151.8	62,400
	50	73.4	151.2	57,000
	55	71.4	149.5	45,600
	60	69.4	147.6	36,500
	65	67.3	145.6	29,000
	70	65.2	143.3	22,800
	75	63.0	140.8	17,500
	80	60.9	138.0	13,000
180	28	82.5	166.4	182,700
	30	81.8	166.1	159,900
	32	81.1	165.8	141,200
	34	80.4	165.4	125,700
	36	79.6	165.1	112,500
	38	78.9	164.6	101,200
	40	78.2	164.2	91,500
	42	77.4	163.7	82,900
	44	76.7	163.3	75,400
	46	76.0	162.7	68,600
190	48	75.2	162.2	62,600
	50	74.5	161.6	57,200
	55	72.6	160.1	45,800
	60	70.7	158.3	36,700
	65	68.8	156.4	29,200
	70	66.8	154.3	23,000
	75	64.9	152.0	17,700
	80	62.9	149.4	13,200

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

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
70	16	82.8	77.2	355,800*
	17	82.0	77.1	333,100*
	18	81.1	76.9	312,700*
	19	80.3	76.7	294,300*
	20	79.5	76.5	277,600*
	22	77.8	76.0	248,300*
	24	76.1	75.5	223,600*
	26	74.4	74.9	193,000
	28	72.7	74.2	165,600
	30	70.9	73.5	143,700
	32	69.2	72.7	125,700
	34	67.4	71.8	110,700
	36	65.6	70.9	98,100
	38	63.7	69.8	87,200
	40	61.9	68.7	77,800
	42	60.0	67.5	69,500
	44	58.0	66.2	62,300
	46	56.0	64.9	55,800
	48	54.0	63.4	50,000
	50	51.9	61.7	44,800
80	17	83.0	87.2	333,900*
	18	82.3	87.0	313,600*
	19	81.5	86.9	295,300*
	20	80.8	86.7	278,600*
	22	79.3	86.3	249,500*
	24	77.9	85.8	224,800*
	26	76.4	85.3	196,400
	28	74.9	84.7	168,800
	30	73.4	84.1	146,700
	32	71.9	83.4	128,600
	34	70.4	82.7	113,600
	36	68.8	81.9	100,800
	38	67.3	81.0	89,900
	40	65.7	80.0	80,400
	42	64.1	79.0	72,100
	44	62.4	78.0	64,800
	46	60.8	76.8	58,300
	48	59.1	75.6	52,500
	50	57.4	74.3	47,200
	55	52.9	70.6	36,200
90	19	82.5	97.0	296,200*
	20	81.8	96.8	279,500*
	22	80.5	96.5	250,500*
	24	79.2	96.1	225,900*
	26	77.9	95.6	199,100
	28	76.6	95.1	171,300
	30	75.3	94.6	149,100
	32	74.0	94.0	131,000
	34	72.6	93.3	115,800
	36	71.3	92.6	103,000
	38	69.9	91.8	92,000
	40	68.6	91.0	82,500
	42	67.2	90.1	74,200
	44	65.8	89.2	66,800
	46	64.3	88.2	60,300
	48	62.9	87.2	54,400
	50	61.4	86.0	49,200
	55	57.7	82.9	38,000
	60	53.8	79.3	29,100
100	20	82.7	107.0	280,400*
	22	81.5	106.6	251,400*
	24	80.3	106.3	226,900*
	26	79.2	105.9	201,100
	28	78.0	105.4	173,300
	30	76.8	104.9	151,100
	32	75.6	104.4	132,800
	34	74.4	103.8	117,700

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
100	36	73.2	103.2	104,800
	38	72.0	102.5	93,800
	40	70.8	101.8	84,300
	42	69.6	101.0	75,900
	44	68.3	100.2	68,500
	46	67.1	99.3	62,000
	48	65.8	98.4	56,100
	50	64.6	97.4	50,800
	55	61.3	94.7	39,700
	60	57.9	91.6	30,700
110	22	82.3	116.8	251,800*
	24	81.2	116.4	227,300*
	26	80.2	116.1	203,000
	28	79.1	115.7	175,000
	30	78.0	115.2	152,600
	32	77.0	114.7	134,300
	34	75.9	114.2	119,100
	36	74.8	113.6	106,200
	38	73.7	113.0	95,100
	40	72.6	112.4	85,500
120	42	71.5	111.7	77,100
	44	70.4	110.9	69,700
	46	69.3	110.2	63,100
	48	68.2	109.3	57,200
	50	67.0	108.5	51,900
	55	64.1	106.1	40,700
	60	61.2	103.4	31,800
	65	58.1	100.3	24,400
	70	55.0	96.8	18,300
	75	51.7	93.0	13,100
130	22	82.9	126.9	252,100*
	24	82.0	126.6	227,700*
	26	81.0	126.2	204,300
	28	80.0	125.9	176,300
	30	79.1	125.5	153,800
	32	78.1	125.0	135,500
	34	77.1	124.5	120,200
	36	76.1	124.0	107,300
	38	75.1	123.5	96,200
	40	74.1	122.9	86,500
140	42	73.1	122.2	78,100
	44	72.1	121.6	70,700
	46	71.1	120.9	64,100
	48	70.1	120.1	58,200
	50	69.1	119.3	52,900
	55	66.5	117.2	41,600
	60	63.8	114.7	32,700
	65	61.1	112.0	25,300
	70	58.3	109.0	19,200
	75	55.4	105.6	14,000
150	24	82.6	136.7	228,100*
	26	81.7	136.4	205,500
	28	80.8	136.0	177,400
	30	79.9	135.7	155,000
	32	79.0	135.3	136,600
	34	78.1	134.8	121,300
	36	77.2	134.3	108,300
	38	76.3	133.8	97,200
	40	75.4	133.3	87,500
	42	74.5	132.7	79,100
160	44	73.5	132.1	71,700
	46	72.6	131.5	65,000
	48	71.7	130.8	59,100
	50	70.7	130.1	53,800

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
130	55	68.4	128.1	42,500
	60	66.0	125.9	33,500
	65	63.5	123.4	26,200
	70	61.0	120.7	20,000
	75	58.4	117.6	14,800
	80	55.8	114.3	10,400
140	26	82.3	146.5	206,500
	28	81.5	146.2	178,300
	30	80.6	145.8	155,800
	32	79.8	145.5	137,400
	34	79.0	145.1	122,000
	36	78.1	144.6	109,000
	38	77.3	144.1	97,900
	40	76.4	143.6	88,200
	42	75.6	143.1	79,800
	44	74.7	142.5	72,300
	46	73.9	141.9	65,700
	48	73.0	141.3	59,800
	50	72.2	140.7	54,400
	55	70.0	138.9	43,100
150	60	67.8	136.8	34,100
	65	65.5	134.6	26,700
	70	63.3	132.1	20,600
	75	60.9	129.3	15,400
	80	58.5	126.3	10,900
160	26	82.8	156.6	198,000*
	28	82.0	156.3	179,200
	30	81.3	156.0	156,600
	32	80.5	155.6	138,100
	34	79.7	155.3	122,700
	36	78.9	154.8	109,600
	38	78.2	154.4	98,500
	40	77.4	153.9	88,800
	42	76.6	153.5	80,300
	44	75.8	152.9	72,800
170	46	75.0	152.4	66,100
	48	74.2	151.8	60,200
	50	73.4	151.2	54,800
	55	71.4	149.5	43,500
	60	69.4	147.6	34,400
	65	67.3	145.6	27,000
	70	65.2	143.3	20,900
	75	63.0	140.8	15,600
	80	60.9	138.0	11,100
180	28	82.5	166.4	179,800
	30	81.8	166.1	157,200
	32	81.1	165.8	138,600
	34	80.4	165.4	123,200
	36	79.6	165.1	110,100
	38	78.9	164.6	98,900
	40	78.2	164.2	89,100
	42	77.4	163.7	80,600
	44	76.7	163.3	73,100
	46	76.0	162.7	66,500
	48	75.2	162.2	60,500
	50	74.5	161.6	55,100
	55	72.6	160.1	43,800
	60	70.7	158.3	34,700
190	65	68.8	156.4	27,300
	70	66.8	154.3	21,100
	75	64.9	152.0	15,900
	80	62.9	149.4	11,400

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

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
70	16	82.8	77.2	352,100*
	17	82.0	77.1	329,500*
	18	81.1	76.9	309,200*
	19	80.3	76.7	290,800*
	20	79.5	76.5	274,100*
	22	77.8	76.0	244,900*
	24	76.1	75.5	220,200*
	26	74.4	74.9	189,000
	28	72.7	74.2	161,800
	30	70.9	73.5	140,000
	32	69.2	72.7	122,200
	34	67.4	71.8	107,300
	36	65.6	70.9	94,800
	38	63.7	69.8	84,000
	40	61.9	68.7	74,700
	42	60.0	67.5	66,500
	44	58.0	66.2	59,300
	46	56.0	64.9	52,900
	48	54.0	63.4	47,100
	50	51.9	61.7	42,000
80	17	83.0	87.2	330,500*
	18	82.3	87.0	310,300*
	19	81.5	86.9	292,000*
	20	80.8	86.7	275,300*
	22	79.3	86.3	246,200*
	24	77.9	85.8	221,600*
	26	76.4	85.3	192,600
	28	74.9	84.7	165,200
	30	73.4	84.1	143,300
	32	71.9	83.4	125,300
	34	70.4	82.7	110,400
	36	68.8	81.9	97,800
	38	67.3	81.0	86,900
	40	65.7	80.0	77,500
	42	64.1	79.0	69,300
	44	62.4	78.0	62,000
	46	60.8	76.8	55,600
	48	59.1	75.6	49,800
	50	57.4	74.3	44,600
	55	52.9	70.6	33,600
90	19	82.5	97.0	293,000*
	20	81.8	96.8	276,400*
	22	80.5	96.5	247,400*
	24	79.2	96.1	222,800*
	26	77.9	95.6	195,500
	28	76.6	95.1	168,000
	30	75.3	94.6	145,900
	32	74.0	94.0	127,900
	34	72.6	93.3	112,900
	36	71.3	92.6	100,100
	38	69.9	91.8	89,200
	40	68.6	91.0	79,800
	42	67.2	90.1	71,500
	44	65.8	89.2	64,200
	46	64.3	88.2	57,700
	48	62.9	87.2	51,900
	50	61.4	86.0	46,700
	55	57.7	82.9	35,700
	60	53.8	79.3	26,800
100	20	82.7	107.0	277,300*
	22	81.5	106.6	248,400*
	24	80.3	106.3	224,000*
	26	79.2	105.9	197,700
	28	78.0	105.4	170,100
	30	76.8	104.9	148,000
	32	75.6	104.4	129,900
	34	74.4	103.8	114,800

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
100	36	73.2	103.2	102,100
	38	72.0	102.5	91,100
	40	70.8	101.8	81,700
	42	69.6	101.0	73,400
	44	68.3	100.2	66,100
	46	67.1	99.3	59,600
	48	65.8	98.4	53,700
	50	64.6	97.4	48,500
110	55	61.3	94.7	37,400
	60	57.9	91.6	28,600
	65	54.4	88.1	21,300
	22	82.3	116.8	248,800*
	24	81.2	116.4	224,400*
	26	80.2	116.1	199,600
	28	79.1	115.7	171,900
	30	78.0	115.2	149,700
120	32	77.0	114.7	131,500
	34	75.9	114.2	116,400
	36	74.8	113.6	103,600
	38	73.7	113.0	92,600
	40	72.6	112.4	83,000
	42	71.5	111.7	74,700
	44	70.4	110.9	67,400
	46	69.3	110.2	60,800
130	48	68.2	109.3	55,000
	50	67.0	108.5	49,700
	55	64.1	106.1	38,600
	60	61.2	103.4	29,700
	65	58.1	100.3	22,400
	70	55.0	96.8	16,300
	75	51.7	93.0	11,200
	22	82.9	126.9	249,300*
140	24	82.0	126.6	224,900*
	26	81.0	126.2	201,100
	28	80.0	125.9	173,300
	30	79.1	125.5	151,000
	32	78.1	125.0	132,800
	34	77.1	124.5	117,600
	36	76.1	124.0	104,700
	38	75.1	123.5	93,700
150	40	74.1	122.9	84,200
	42	73.1	122.2	75,800
	44	72.1	121.6	68,400
	46	71.1	120.9	61,900
	48	70.1	120.1	56,000
	50	69.1	119.3	50,700
	55	66.5	117.2	39,600
	60	63.8	114.7	30,700
160	65	61.1	112.0	23,400
	70	58.3	109.0	17,300
	75	55.4	105.6	12,100
	24	82.6	136.7	225,400*
	26	81.7	136.4	202,400
	28	80.8	136.0	174,500
	30	79.9	135.7	152,200
	32	79.0	135.3	133,900
170	34	78.1	134.8	118,700
	36	77.2	134.3	105,800
	38	76.3	133.8	94,800
	40	75.4	133.3	85,200
	42	74.5	132.7	76,900
	44	73.5	132.1	69,500
	46	72.6	131.5	62,900
	48	71.7	130.8	57,000

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
130	50	70.7	130.1	51,700
	55	68.4	128.1	40,600
	60	66.0	125.9	31,600
	65	63.5	123.4	24,300
	70	61.0	120.7	18,200
	75	58.4	117.6	13,100
140	26	82.3	146.5	203,400
	28	81.5	146.2	175,500
	30	80.6	145.8	153,100
	32	79.8	145.5	134,800
	34	79.0	145.1	119,600
	36	78.1	144.6	106,700
	38	77.3	144.1	95,600
	40	76.4	143.6	86,000
	42	75.6	143.1	77,600
	44	74.7	142.5	70,200
	46	73.9	141.9	63,600
	48	73.0	141.3	57,700
150	50	72.2	140.7	52,400
	55	70.0	138.9	41,200
	60	67.8	136.8	32,300
	65	65.5	134.6	25,000
	70	63.3	132.1	18,900
	75	60.9	129.3	13,700
	26	82.8	156.6	195,400*
	28	82.0	156.3	176,500
	30	81.3	156.0	154,000
	32	80.5	155.6	135,600
	34	79.7	155.3	120,300
	36	78.9	154.8	107,300
160	38	78.2	154.4	96,200
	40	77.4	153.9	86,600
	42	76.6	153.5	78,200
	44	75.8	152.9	70,700
	46	75.0	152.4	64,100
	48	74.2	151.8	58,200
	50	73.4	151.2	52,900
	55	71.4	149.5	41,700
	60	69.4	147.6	32,700
	65	67.3	145.6	25,300
	70	65.2	143.3	19,200
	75	63.0	140.8	14,000
170	28	82.5	166.4	177,100
	30	81.8	166.1	154,600
	32	81.1	165.8	136,200
	34	80.4	165.4	120,800
	36	79.6	165.1	107,800
	38	78.9	164.6	96,700
	40	78.2	164.2	87,000
	42	77.4	163.7	78,600
	44	76.7	163.3	71,100
	46	76.0	162.7	64,500
	48	75.2	162.2	58,600
	50	74.5	161.6	53,300
180	55	72.6	160.1	42,000
	60	70.7	158.3	33,000
	65	68.8	156.4	25,600
	70	66.8	154.3	19,500
	75	64.9	152.0	14,300