

MANITOWOC ENGINEERING CO.

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



LIFTCRANE BOOM CAPACITIES

4100W

BOOM NO. 22A OR NO. 22C WITH OPEN THROAT TOP

4100W SERIES 1

122,400 LB. COUNTERWEIGHT

26'6" CRAWLERS EXTENDED

CRAWLER MACHINE ON A BARGE

0 DEGREE THRU 3 DEGREE MACHINE LIST

NO TRAVEL - 360 DEGREE RATING

CAPACITIES ARE FOR A CRAWLER MACHINE WHEN OPERATING ON A BARGE. MACHINE SHALL BE POSITIVELY SECURED TO PREVENT SHIFTING. 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 (*).

UPPER BOOM POINT CAPACITY FOR LIFTCRANE SERVICE WITH SINGLE PART WHIP LINE OR COMBINATION OF TWO SINGLE PART LINES IS 28,300 LBS. IN ALL CASES, UPPER BOOM POINT CAPACITIES CANNOT EXCEED THOSE LISTED FOR MAIN BOOM CAPACITY.

WEIGHT OF UPPER BOOM POINT, ALL LOAD BLOCKS, HOOKS, WEIGHT BALL, SLINGS, HOIST LINES, ETC., BENEATH BOOM POINT SHEAVES, IS CONSIDERED PART OF MAIN BOOM LOAD. 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 ON A FIRM UNIFORMLY SUPPORTING SURFACE WITH CRAWLERS FULLY EXTENDED, GANTRY UP AND MACHINE LIST NOT TO EXCEED DEGREES NOTED. REFER TO BOOM RIGGING NO. 48721 OR NO. 190693 AND WIRE ROPE SPECIFICATION CHART NO. 5345. CRANE OPERATOR JUDGMENT MUST BE USED TO ALLOW FOR DYNAMIC LOAD EFFECTS OF SWINGING, HOISTING OR LOWERING, WIND CONDITIONS, AS WELL AS ADVERSE OPERATING CONDITIONS AND PHYSICAL MACHINE DEPRECIATION.

OPERATING RADIUS IS HORIZONTAL DISTANCE FROM AXIS OF ROTATION AT BARGE DECK 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 BARGE DECK TO CENTERLINE OF BOOM POINT SHAFT.

MACHINE EQUIPPED WITH 26'6" EXTENDIBLE CRAWLERS, 48" TREADS, 17' RETRACTABLE GANTRY, 12 PART BOOM HOIST REEVING, FOUR 1-3/8" BOOM PENDANTS, 1ST COUNTERWEIGHT = 41,900 LBS., 2ND COUNTERWEIGHT = 41,500 LBS., AND 3RD COUNTERWEIGHT = 39,000 LBS.

MAXIMUM BOOM LENGTHS LIFTED UNASSISTED			DEDUCT FROM CAPACITIES WHEN UPPER BOOM POINT IS ATTACHED	
LIST	OVER FRONT OF BLOCKED CRAWLERS	OVER SIDE OF EXTENDED CRAWLERS	ONE SHEAVE POINT	TWO SHEAVE POINT
0 DEGREE	260'	230'		1,200 LBS.
1 DEGREE	250'	220'		1,500 LBS.
2 DEGREE	250'	220'		
3 DEGREE	250'	220'		
LOAD BLOCK, HOOK AND WEIGHT BALL ON BARGE AT START. UPPER BOOM POINT CANNOT BE USED ON 260' BOOM. JIB IS NOT TO BE USED ON CRAWLER MACHINE WHILE OPERATING ON A BARGE.				

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY 0 DEGREE LIST POUNDS	BOOM CAPACITY 1 DEGREE LIST POUNDS	BOOM CAPACITY 2 DEGREE LIST POUNDS	BOOM CAPACITY 3 DEGREE LIST POUNDS	OPER. RAD. FEET
70	16	80.1	76.0	400,000*	360,800*			16
	17	79.3	75.8	383,300*	344,700*			17
	18	78.5	75.6	365,300*	329,900*	297,100*	265,200*	18
	19	77.6	75.4	348,900*	316,200*	281,400*	252,500*	19
	20	76.8	75.2	319,800	298,700*	267,300*	240,900*	20
	22	75.1	74.7	270,100	268,300	242,900*	220,600*	22
	24	73.4	74.1	233,600	232,000	222,400*	204,100*	24
	26	71.7	73.5	205,500	204,100	202,500	189,300*	26
	28	69.9	72.8	183,400	182,100	180,600	176,400*	28
	30	68.2	72.0	165,400	164,200	162,900	161,600	30
	32	66.4	71.2	150,500	149,400	148,200	147,000	32
	34	64.6	70.3	138,000	137,000	135,900	134,800	34
	36	62.8	69.3	127,300	126,400	125,400	124,300	36
	38	60.9	68.2	118,100	117,200	116,300	115,300	38
	40	59.1	67.0	110,000	109,300	108,400	107,500	40
	45	54.1	63.7	93,900	93,200	92,400	91,700	45
	50	48.9	59.8	81,600	81,000	80,300	79,700	50
	55	43.2	55.0	72,000	71,500	70,900	70,300	55
	60	36.9	49.0	64,300	63,800	63,300	62,700	60
	65	29.4	41.3	57,900	57,500	57,000	56,500	65
	70	19.5	30.3	52,600	52,200	51,800	51,300	70

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BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY 0 DEGREE LIST POUNDS	BOOM CAPACITY 1 DEGREE LIST POUNDS	BOOM CAPACITY 2 DEGREE LIST POUNDS	BOOM CAPACITY 3 DEGREE LIST POUNDS	OPER. RAD. FEET
80	17	80.6	85.9	381,800*				17
	18	79.9	85.8	364,000*	324,100*			18
	19	79.2	85.6	347,600*	309,900*	271,800*		19
	20	78.5	85.4	319,400	292,900*	258,600*	230,700*	20
	22	77.0	85.0	269,700	263,700*	235,400*	211,700*	22
	24	75.5	84.5	233,100	231,500	215,800*	195,500*	24
	26	74.0	83.9	205,100	203,700	199,200*	181,800*	26
	28	72.5	83.3	182,900	181,600	180,100	169,900*	28
	30	71.0	82.7	164,900	163,700	162,400	159,200*	30
	32	69.5	81.9	150,000	148,900	147,700	146,500	32
	34	68.0	81.2	137,400	136,500	135,400	134,200	34
	36	66.4	80.3	126,800	125,800	124,800	123,800	36
	38	64.8	79.4	117,500	116,700	115,700	114,800	38
	40	63.3	78.4	109,500	108,700	107,800	106,900	40
	45	59.2	75.7	93,300	92,600	91,900	91,100	45
	50	54.9	72.5	81,000	80,400	79,800	79,100	50
	55	50.4	68.6	71,400	70,900	70,300	69,700	55
	60	45.6	64.1	63,700	63,200	62,700	62,100	60
	65	40.3	58.8	57,300	56,900	56,400	55,900	65
	70	34.4	52.2	52,000	51,600	51,200	50,700	70
90	75	27.4	43.9	47,500	47,100	46,700	46,300	75
	80	18.2	32.0	43,600	43,300	42,900	42,500	80
	18	81.1	95.9	355,400*				18
	19	80.4	95.7	346,900*	292,700*			19
	20	79.8	95.6	319,200	287,400*			20
	22	78.5	95.2	269,500	259,000*	228,500*	203,500*	22
	24	77.2	94.8	232,900	231,300	209,800*	188,300*	24
	26	75.9	94.3	204,800	203,400	193,800*	175,100*	26
	28	74.5	93.7	182,600	181,300	179,900	163,500*	28
	30	73.2	93.2	164,600	163,400	162,100	153,800*	30
	32	71.9	92.5	149,700	148,600	147,400	144,800*	32
	34	70.5	91.9	137,100	136,200	135,000	133,900	34
	36	69.2	91.1	126,400	125,500	124,500	123,500	36
	38	67.8	90.3	117,200	116,400	115,400	114,500	38
	40	66.4	89.5	109,200	108,400	107,500	106,600	40
	45	62.9	87.1	93,000	92,300	91,500	90,700	45
	50	59.3	84.4	80,700	80,100	79,400	78,700	50
	55	55.5	81.2	71,100	70,500	69,900	69,300	55
	60	51.5	77.5	63,300	62,800	62,300	61,800	60
	65	47.3	73.2	57,000	56,500	56,000	55,500	65
100	70	42.8	68.2	51,600	51,200	50,800	50,300	70
	75	37.9	62.3	47,100	46,700	46,300	45,900	75
	80	32.4	55.2	43,200	42,900	42,500	42,100	80
	85	25.8	46.2	39,900	39,500	39,200	38,800	85
	90	17.1	33.5	36,900	36,600	36,300	35,900	90
	19	81.4	105.9	331,400*				19
	20	80.8	105.7	318,900				20
	22	79.6	105.4	269,200	254,400*			22
	24	78.5	105.0	232,500	230,900	203,900*	181,400*	24
	26	77.3	104.6	204,400	203,000	188,500*	168,900*	26
	28	76.1	104.1	182,200	180,900	175,200*	157,900*	28
	30	74.9	103.6	164,100	163,000	161,600	148,200*	30
	32	73.7	103.0	149,200	148,100	146,900	139,900*	32
	34	72.5	102.4	136,700	135,700	134,600	132,200*	34
	36	71.3	101.7	125,900	125,000	124,000	123,000	36
	38	70.1	101.0	116,700	115,900	114,900	113,900	38
	40	68.9	100.3	108,700	107,900	107,000	106,100	40
	45	65.8	98.2	92,400	91,700	91,000	90,200	45
	50	62.6	95.8	80,100	79,500	78,900	78,200	50
	55	59.3	93.0	70,500	70,000	69,400	68,800	55
	60	55.9	89.9	62,800	62,300	61,800	61,200	60
	65	52.4	86.2	56,400	56,000	55,500	55,000	65
	70	48.7	82.1	51,100	50,700	50,200	49,800	70
	75	44.8	77.4	46,600	46,200	45,800	45,300	75
	80	40.5	72.0	42,700	42,300	41,900	41,500	80
	85	35.9	65.6	39,300	39,000	38,600	38,200	85
	90	30.7	58.0	36,300	36,000	35,700	35,400	90
	95	24.5	48.5	33,700	33,400	33,100	32,800	95
	100	16.3	35.0	31,400	31,100	30,800	30,500	100

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110	22	80.6	115.5	268,900				22
	24	79.5	115.2	232,200	227,800*	198,000*		24
	26	78.5	114.8	204,100	202,600	183,700*	163,300*	26
	28	77.4	114.4	181,800	180,500	170,900*	152,800*	28
	30	76.3	113.9	163,800	162,600	159,700*	143,600*	30
	32	75.3	113.4	148,800	147,800	146,600	135,300*	32
	34	74.2	112.8	136,300	135,300	134,200	127,900*	34
	36	73.1	112.2	125,600	124,700	123,600	121,500*	36
	38	72.0	111.6	116,300	115,500	114,500	113,600	38
	40	70.9	110.9	108,300	107,500	106,600	105,700	40
	45	68.1	109.1	92,000	91,400	90,600	89,800	45
	50	65.3	106.9	79,700	79,100	78,500	77,800	50
	55	62.4	104.5	70,100	69,600	69,000	68,400	55
	60	59.4	101.7	62,400	61,900	61,300	60,800	60
	65	56.3	98.5	56,000	55,500	55,100	54,600	65
	70	53.1	95.0	50,700	50,300	49,800	49,400	70
	75	49.8	91.0	46,100	45,800	45,400	44,900	75
	80	46.3	86.5	42,300	41,900	41,500	41,100	80
	85	42.6	81.4	38,900	38,500	38,200	37,800	85
	90	38.6	75.6	35,900	35,600	35,300	34,900	90
120	95	34.2	68.8	33,300	33,000	32,700	32,400	95
	100	29.2	60.7	31,000	30,700	30,400	30,100	100
	105	23.9	50.6	28,900	28,600	28,300	28,100	105
	110	15.5	36.4	27,000	26,800	26,500	26,200	110
	22	81.4	125.6	268,700				22
	24	80.4	125.3	232,000	223,900*			24
	26	79.4	125.0	203,900	202,400	178,500*		26
	28	78.5	124.6	181,600	180,300	166,500*	147,700*	28
	30	77.5	124.2	163,600	162,400	155,700*	138,900*	30
	32	76.5	123.7	148,600	147,500	146,000*	131,000*	32
	34	75.5	123.2	136,000	135,100	133,900	123,800*	34
	36	74.5	122.7	125,300	124,400	123,400	117,300*	36
	38	73.5	122.1	116,100	115,200	114,300	111,800*	38
	40	72.5	121.5	108,000	107,200	106,300	105,400	40
	45	70.0	119.8	91,800	91,100	90,300	89,500	45
	50	67.5	117.8	79,500	78,900	78,200	77,500	50
	55	64.8	115.6	69,800	69,300	68,700	68,100	55
	60	62.2	113.1	62,100	61,600	61,000	60,500	60
	65	59.4	110.3	55,700	55,200	54,800	54,300	65
	70	56.6	107.2	50,400	49,900	49,500	49,100	70
	75	53.7	103.7	45,800	45,500	45,000	44,600	75
	80	50.7	99.9	41,900	41,600	41,200	40,800	80
	85	47.5	95.5	38,600	38,200	37,900	37,500	85
	90	44.2	90.7	35,600	35,300	35,000	34,600	90
	95	40.7	85.2	33,000	32,700	32,400	32,100	95
	100	36.9	79.0	30,700	30,400	30,100	29,800	100
	105	32.7	71.8	28,600	28,300	28,000	27,700	105
	110	28.0	63.3	26,700	26,400	26,200	25,900	110
	115	22.3	52.6	25,000	24,700	24,500	24,200	115

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130	24	81.2	135.5	231,700				24
	26	80.3	135.1	203,500	202,100			26
	28	79.4	134.8	181,300	180,000	162,600*		28
	30	78.5	134.4	163,200	162,000	152,300*	134,900*	30
	32	77.6	134.0	148,200	147,200	143,000*	127,400*	32
	34	76.7	133.5	135,700	134,700	133,600	120,500*	34
	36	75.7	133.0	125,000	124,000	123,000	114,300*	36
	38	74.8	132.5	115,700	114,800	113,900	108,600*	38
	40	73.9	131.9	107,600	106,800	105,900	103,600*	40
	45	71.6	130.4	91,400	90,700	89,900	89,100	45
	50	69.3	128.6	79,100	78,500	77,800	77,100	50
	55	66.9	126.6	69,400	68,900	68,300	67,700	55
	60	64.5	124.3	61,700	61,200	60,600	60,100	60
	65	62.0	121.8	55,300	54,800	54,400	53,900	65
	70	59.5	119.0	49,900	49,500	49,100	48,600	70
	75	56.9	115.9	45,400	45,000	44,600	44,200	75
	80	54.2	112.5	41,500	41,200	40,800	40,400	80
	85	51.5	108.7	38,100	37,800	37,500	37,100	85
	90	48.6	104.5	35,200	34,900	34,500	34,200	90
	95	45.6	99.8	32,600	32,300	32,000	31,600	95
	100	42.4	94.7	30,200	29,900	29,700	29,300	100
	105	39.0	88.9	28,100	27,900	27,600	27,300	105
	110	35.4	82.3	26,300	26,000	25,700	25,500	110
	115	31.4	74.7	24,500	24,300	24,100	23,800	115
	120	26.8	65.7	23,000	22,800	22,500	22,300	120
	125	21.4	54.5	21,600	21,400	21,100	20,900	125
140	26	81.0	145.3	203,200				26
	28	80.1	144.9	180,900	179,600			28
	30	79.3	144.6	162,800	161,600	148,400*		30
	32	78.5	144.2	147,800	146,700	139,500*	123,400*	32
	34	77.6	143.8	135,200	134,200	131,400*	116,800*	34
	36	76.8	143.3	124,500	123,600	122,500	110,800*	36
	38	75.9	142.8	115,200	114,400	113,400	105,300*	38
	40	75.1	142.3	107,200	106,300	105,500	100,300*	40
	45	73.0	140.9	90,900	90,200	89,400	88,600	45
	50	70.8	139.2	78,600	77,900	77,300	76,600	50
	55	68.6	137.4	68,900	68,300	67,800	67,100	55
	60	66.4	135.3	61,100	60,600	60,100	59,600	60
	65	64.2	133.0	54,700	54,300	53,800	53,300	65
	70	61.9	130.5	49,400	49,000	48,500	48,100	70
	75	59.5	127.7	44,900	44,500	44,100	43,700	75
	80	57.1	124.6	41,000	40,600	40,200	39,800	80
	85	54.6	121.2	37,600	37,300	36,900	36,500	85
	90	52.1	117.5	34,600	34,300	34,000	33,600	90
	95	49.5	113.4	32,000	31,700	31,400	31,100	95
	100	46.7	108.9	29,700	29,400	29,100	28,800	100
	105	43.8	104.0	27,600	27,300	27,000	26,700	105
	110	40.8	98.5	25,700	25,400	25,200	24,900	110
	115	37.5	92.3	24,000	23,700	23,500	23,200	115
	120	34.0	85.4	22,400	22,200	22,000	21,700	120
	125	30.2	77.4	21,000	20,800	20,600	20,300	125
	130	25.8	68.0	19,700	19,500	19,300	19,000	130
	135	20.7	56.4	18,500	18,300	18,100	17,900	135

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150	28	80.8	155.1	180,500				28
	30	80.0	154.7	162,400	161,200			30
	32	79.2	154.4	147,400	146,300	136,200*		32
	34	78.5	154.0	134,800	133,800	128,500*	113,400*	34
	36	77.7	153.6	124,100	123,200	121,400*	107,600*	36
	38	76.9	153.1	114,800	114,000	113,000	102,300*	38
	40	76.1	152.6	106,700	105,900	105,000	97,500*	40
	45	74.1	151.3	90,500	89,800	89,000	87,000*	45
	50	72.1	149.8	78,100	77,500	76,800	76,200	50
	55	70.1	148.1	68,500	67,900	67,300	66,700	55
	60	68.1	146.2	60,700	60,200	59,700	59,100	60
	65	66.0	144.0	54,300	53,900	53,400	52,900	65
	70	63.9	141.7	49,000	48,500	48,100	47,600	70
	75	61.7	139.1	44,400	44,000	43,600	43,200	75
	80	59.6	136.3	40,500	40,200	39,800	39,400	80
	85	57.3	133.3	37,100	36,800	36,500	36,100	85
	90	55.0	129.9	34,200	33,900	33,500	33,200	90
	95	52.7	126.2	31,600	31,300	30,900	30,600	95
	100	50.2	122.3	29,200	28,900	28,600	28,300	100
	105	47.7	117.9	27,100	26,900	26,600	26,300	105
	110	45.0	113.1	25,200	25,000	24,700	24,400	110
	115	42.3	107.9	23,500	23,300	23,000	22,800	115
	120	39.3	102.1	22,000	21,700	21,500	21,200	120
	125	36.2	95.7	20,600	20,300	20,100	19,900	125
	130	32.9	88.4	19,200	19,000	18,800	18,600	130
160	135	29.2	80.1	18,000	17,800	17,600	17,400	135
	140	25.0	70.3	16,900	16,700	16,500	16,300	140
	145	19.9	58.2	15,900	15,700	15,500	15,300	145
	28	81.4	165.2	180,200				28
	30	80.6	164.9	162,100				30
	32	79.9	164.5	147,100	146,000			32
	34	79.2	164.2	134,500	133,500	125,400*		34
	36	78.5	163.8	123,800	122,800	118,500*	104,300*	36
	38	77.7	163.4	114,500	113,600	112,200*	99,200*	38
	40	77.0	162.9	106,400	105,600	104,700	94,500*	40
	45	75.2	161.7	90,100	89,400	88,700	84,300*	45
	50	73.3	160.3	77,800	77,200	76,500	75,800	50
	55	71.4	158.7	68,100	67,600	67,000	66,400	55
	60	69.5	156.9	60,300	59,800	59,300	58,800	60
	65	67.6	154.9	54,000	53,500	53,000	52,500	65
	70	65.6	152.8	48,600	48,200	47,700	47,300	70
	75	63.7	150.4	44,100	43,700	43,300	42,800	75
	80	61.6	147.8	40,200	39,800	39,400	39,000	80
	85	59.6	145.0	36,800	36,400	36,100	35,700	85
	90	57.5	141.9	33,800	33,500	33,200	32,800	90
	95	55.3	138.6	31,200	30,900	30,600	30,200	95
	100	53.1	135.0	28,800	28,600	28,300	28,000	100
	105	50.9	131.1	26,800	26,500	26,200	25,900	105
	110	48.5	126.9	24,900	24,600	24,300	24,100	110
	115	46.1	122.2	23,200	22,900	22,700	22,400	115
	120	43.5	117.2	21,600	21,400	21,100	20,900	120
	125	40.9	111.7	20,200	20,000	19,700	19,500	125
	130	38.0	105.6	18,900	18,700	18,400	18,200	130
	135	35.0	98.9	17,700	17,500	17,300	17,000	135
	140	31.8	91.3	16,600	16,300	16,100	15,900	140
	145	28.2	82.6	15,500	15,200	15,000	14,800	145
	150	24.1	72.5	14,600	14,200	14,000	13,800	150
	155	19.3	59.9	13,700	13,300	13,100	12,900	155

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES

BOOM NO. 22A OR NO. 22C WITH OPEN THROAT TOP

122,400 LB. COUNTERWEIGHT

26'6" CRAWLERS EXTENDED

CRAWLER MACHINE ON A BARGE

0 DEGREE THRU 3 DEGREE MACHINE LIST

NO TRAVEL - 360 DEGREE RATING

4100W

4100W SERIES 1

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY 0 DEGREE LIST POUNDS	BOOM CAPACITY 1 DEGREE LIST POUNDS	BOOM CAPACITY 2 DEGREE LIST POUNDS	BOOM CAPACITY 3 DEGREE LIST POUNDS	OPER. RAD. FEET
170	30	81.2	175.0	161,700				30
	32	80.5	174.7	146,700	145,600			32
	34	79.8	174.3	134,100	133,100			34
	36	79.2	174.0	123,400	122,400	116,300*		36
	38	78.5	173.6	114,100	113,200	110,200*	96,800*	38
	40	77.8	173.1	106,000	105,200	104,300	92,300*	40
	45	76.0	172.0	89,700	89,000	88,200	82,400*	45
	50	74.3	170.7	77,400	76,800	76,100	74,100*	50
	55	72.5	169.2	67,700	67,100	66,500	65,900	55
	60	70.8	167.5	59,900	59,400	58,900	58,300	60
	65	69.0	165.7	53,500	53,100	52,600	52,100	65
	70	67.2	163.7	48,200	47,700	47,300	46,800	70
	75	65.3	161.5	43,600	43,200	42,800	42,400	75
	80	63.4	159.1	39,700	39,400	39,000	38,600	80
	85	61.5	156.5	36,300	36,000	35,600	35,300	85
	90	59.6	153.6	33,400	33,000	32,700	32,400	90
	95	57.6	150.6	30,700	30,400	30,100	29,800	95
	100	55.6	147.3	28,400	28,100	27,800	27,500	100
	105	53.6	143.7	26,300	26,000	25,800	25,500	105
	110	51.4	139.9	24,400	24,200	23,900	23,600	110
180	115	49.2	135.8	22,700	22,500	22,200	21,900	115
	120	47.0	131.3	21,100	20,900	20,700	20,400	120
	125	44.6	126.4	19,700	19,500	19,300	19,000	125
	130	42.2	121.1	18,400	18,200	18,000	17,700	130
	135	39.6	115.4	17,200	17,000	16,800	16,600	135
	140	36.9	109.0	16,100	15,900	15,700	15,500	140
	145	34.0	102.0	15,100	14,900	14,700	14,500	145
	150	30.8	94.1	14,100	13,900	13,700	13,500	150
	155	27.3	85.1	13,200	13,000	12,800	12,600	155
	160	23.4	74.6	12,400	12,200	12,000	11,800	160
	165	18.7	61.6	11,600	11,300	11,100	10,900	165
	32	81.1	184.8	146,300				32
	34	80.4	184.5	133,700	132,700			34
	36	79.8	184.1	122,900	122,000			36
	38	79.1	183.8	113,600	112,800	107,600*		38
	40	78.5	183.4	105,500	104,700	102,200*	89,600*	40
	45	76.8	182.3	89,200	88,500	87,800	79,900*	45
	50	75.2	181.0	76,900	76,300	75,600	71,900*	50
	55	73.5	179.6	67,200	66,600	66,000	65,300*	55
	60	71.9	178.1	59,400	58,900	58,400	57,800	60
	65	70.2	176.4	53,000	52,500	52,100	51,500	65
	70	68.5	174.5	47,600	47,200	46,800	46,300	70
	75	66.8	172.4	43,100	42,700	42,300	41,900	75
	80	65.0	170.2	39,200	38,800	38,400	38,100	80
	85	63.3	167.8	35,800	35,500	35,100	34,700	85
	90	61.5	165.1	32,800	32,500	32,200	31,800	90
	95	59.6	162.3	30,200	29,900	29,600	29,300	95
	100	57.8	159.3	27,900	27,600	27,300	27,000	100
	105	55.9	156.0	25,800	25,500	25,200	24,900	105
	110	53.9	152.5	23,900	23,600	23,300	23,100	110
	115	51.9	148.7	22,200	21,900	21,700	21,400	115
	120	49.9	144.6	20,600	20,400	20,100	19,900	120
	125	47.8	140.3	19,200	18,900	18,700	18,500	125
	130	45.6	135.6	17,900	17,600	17,400	17,200	130
	135	43.3	130.5	16,700	16,500	16,200	16,000	135
	140	40.9	124.9	15,500	15,300	15,100	14,900	140
	145	38.4	118.9	14,500	14,300	14,100	13,900	145
	150	35.8	112.3	13,600	13,400	13,200	13,000	150
	155	33.0	105.0	12,700	12,400	12,200	12,000	155
	160	29.9	96.8	11,800	11,500	11,300	11,100	160
	165	26.6	87.5	11,100	10,700	10,500	10,300	165
	170	22.7	76.6	10,300	9,900	9,700	9,600	170
	175	18.2	63.2	9,600	9,200	9,000	8,800	175

MANITOWOC ENGINEERING CO.

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



LIFTCRANE BOOM CAPACITIES

4100W

4100W SERIES 1

BOOM NO. 22A OR NO. 22C WITH OPEN THROAT TOP
122,400 LB. COUNTERWEIGHT
26'6" CRAWLERS EXTENDED
CRAWLER MACHINE ON A BARGE
0 DEGREE THRU 3 DEGREE MACHINE LIST
NO TRAVEL - 360 DEGREE RATING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY 0 DEGREE LIST POUNDS	BOOM CAPACITY 1 DEGREE LIST POUNDS	BOOM CAPACITY 2 DEGREE LIST POUNDS	BOOM CAPACITY 3 DEGREE LIST POUNDS	OPER. RAD. FEET
190	32	81.5	194.9	145,900				32
	34	80.9	194.6	133,300				34
	36	80.3	194.3	122,500	121,600			36
	38	79.7	193.9	113,200	112,300			38
	40	79.1	193.6	105,100	104,300	99,900*		40
	45	77.5	192.5	88,800	88,100	87,300	77,700*	45
	50	76.0	191.4	76,400	75,800	75,100	69,900*	50
	55	74.4	190.0	66,700	66,200	65,600	63,200*	55
	60	72.9	188.6	59,000	58,400	57,900	57,400	60
	65	71.3	186.9	52,500	52,100	51,600	51,100	65
	70	69.7	185.2	47,200	46,800	46,300	45,900	70
	75	68.1	183.2	42,600	42,300	41,800	41,400	75
	80	66.4	181.1	38,700	38,400	38,000	37,600	80
	85	64.8	178.9	35,300	35,000	34,600	34,300	85
	90	63.1	176.4	32,400	32,000	31,700	31,400	90
	95	61.4	173.8	29,700	29,400	29,100	28,800	95
	100	59.7	171.0	27,400	27,100	26,800	26,500	100
	105	57.9	167.9	25,300	25,000	24,700	24,400	105
	110	56.1	164.7	23,400	23,100	22,900	22,600	110
	115	54.3	161.2	21,700	21,400	21,200	20,900	115
	120	52.4	157.5	20,100	19,900	19,600	19,400	120
	125	50.4	153.5	18,700	18,500	18,200	18,000	125
	130	48.5	149.2	17,400	17,200	17,000	16,700	130
	135	46.4	144.6	16,200	16,000	15,800	15,500	135
	140	44.3	139.7	15,100	14,900	14,700	14,500	140
	145	42.1	134.4	14,000	13,900	13,700	13,400	145
	150	39.8	128.6	13,100	12,900	12,600	12,400	150
	155	37.4	122.3	12,200	11,900	11,700	11,500	155
	160	34.8	115.5	11,400	11,000	10,800	10,600	160
	165	32.1	107.9	10,600	10,200	10,000	9,800	165
	170	29.1	99.4	9,900	9,400	9,200	9,000	170
	175	25.8	89.8	9,200	8,700	8,500	8,300	175
	180	22.1	78.6	8,500	8,000	7,800	7,600	180
	185	17.7	64.8	7,800	7,300	7,200	7,000	185
200	34	81.4	204.7	132,900				34
	36	80.8	204.4	122,200				36
	38	80.2	204.1	112,900	112,000			38
	40	79.6	203.7	104,800	103,900			40
	45	78.2	202.8	88,400	87,700	86,300*	75,400*	45
	50	76.7	201.6	76,100	75,400	74,800	67,700*	50
	55	75.2	200.4	66,400	65,800	65,200	61,200*	55
	60	73.7	199.0	58,600	58,100	57,500	55,800*	60
	65	72.2	197.5	52,200	51,700	51,200	50,700	65
	70	70.7	195.8	46,800	46,400	45,900	45,500	70
	75	69.2	194.0	42,300	41,900	41,400	41,000	75
	80	67.7	192.0	38,300	38,000	37,600	37,200	80
	85	66.1	189.9	34,900	34,600	34,200	33,900	85
	90	64.5	187.6	32,000	31,600	31,300	31,000	90
	95	62.9	185.1	29,300	29,000	28,700	28,400	95
	100	61.3	182.5	27,000	26,700	26,400	26,100	100
	105	59.7	179.6	24,900	24,600	24,300	24,000	105
	110	58.0	176.6	23,000	22,700	22,500	22,200	110
	115	56.3	173.4	21,300	21,000	20,800	20,500	115
	120	54.5	169.9	19,700	19,500	19,200	19,000	120
	125	52.8	166.3	18,300	18,100	17,800	17,600	125
	130	50.9	162.3	17,000	16,800	16,500	16,300	130
	135	49.1	158.1	15,800	15,500	15,300	15,100	135
	140	47.2	153.6	14,700	14,400	14,100	13,900	140
	145	45.2	148.8	13,600	13,300	13,000	12,800	145
	150	43.1	143.7	12,700	12,200	12,000	11,800	150
	155	41.0	138.2	11,800	11,300	11,100	10,900	155
	160	38.7	132.2	10,900	10,400	10,200	10,000	160
	165	36.4	125.7	10,100	9,600	9,400	9,200	165
	170	33.9	118.6	9,300	8,800	8,600	8,400	170
	175	31.2	110.7	8,600	8,100	7,900	7,700	175
	180	28.4	102.0	7,900	7,400	7,200	7,000	180
	185	25.2	92.1	7,200	6,700	6,500	6,400	185
	190	21.6	80.5	6,600	6,100	5,900	5,800	190
	195	17.3	66.3	6,000	5,500	5,400	5,200	195

MANITOWOC ENGINEERING CO.

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



LIFTCRANE BOOM CAPACITIES

4100W

BOOM NO. 22A OR NO. 22C WITH OPEN THROAT TOP

4100W SERIES 1

122,400 LB. COUNTERWEIGHT

26'6" CRAWLERS EXTENDED

CRAWLER MACHINE ON A BARGE

0 DEGREE THRU 3 DEGREE MACHINE LIST

NO TRAVEL - 360 DEGREE RATING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY 0 DEGREE LIST POUNDS	BOOM CAPACITY 1 DEGREE LIST POUNDS	BOOM CAPACITY 2 DEGREE LIST POUNDS	BOOM CAPACITY 3 DEGREE LIST POUNDS	OPER. RAD. FEET
210	36	81.2	214.6	121,800				36
	38	80.7	214.2	112,500				38
	40	80.1	213.9	104,300	103,500			40
	45	78.7	213.0	88,000	87,300	84,700*		45
	50	77.3	211.9	75,600	75,000	74,300	66,100*	50
	55	75.9	210.7	65,900	65,400	64,800	59,800*	55
	60	74.5	209.4	58,100	57,600	57,100	54,300*	60
	65	73.1	208.0	51,700	51,300	50,800	49,700*	65
	70	71.7	206.4	46,400	45,900	45,500	45,000	70
	75	70.2	204.6	41,800	41,400	41,000	40,600	75
	80	68.8	202.8	37,900	37,500	37,100	36,700	80
	85	67.3	200.8	34,500	34,100	33,800	33,400	85
	90	65.8	198.6	31,500	31,200	30,900	30,500	90
	95	64.3	196.3	28,900	28,600	28,300	27,900	95
	100	62.8	193.8	26,500	26,200	25,900	25,600	100
	105	61.3	191.1	24,400	24,200	23,900	23,600	105
	110	59.7	188.3	22,500	22,300	22,000	21,700	110
	115	58.1	185.3	20,800	20,600	20,300	20,100	115
	120	56.5	182.1	19,300	19,000	18,800	18,500	120
	125	54.8	178.6	17,800	17,600	17,400	17,100	125
220	130	53.1	175.0	16,500	16,300	16,100	15,900	130
	135	51.4	171.1	15,300	15,100	14,900	14,700	135
	140	49.6	167.0	14,200	14,000	13,800	13,600	140
	145	47.8	162.6	13,200	13,000	12,700	12,500	145
	150	46.0	157.9	12,200	11,900	11,700	11,500	150
	155	44.0	152.9	11,300	11,000	10,800	10,600	155
	160	42.0	147.6	10,500	10,100	9,900	9,700	160
	165	39.9	141.8	9,700	9,300	9,100	8,900	165
	170	37.8	135.6	9,000	8,500	8,300	8,100	170
	175	35.5	128.9	8,200	7,800	7,600	7,400	175
	180	33.1	121.6	7,500	7,100	6,900	6,700	180
	185	30.5	113.5	6,900	6,400	6,200	6,100	185
	190	27.7	104.5	6,300	5,800	5,600	5,500*	190
	195	24.6	94.3	5,700	5,200	5,100*	4,900*	195
	200	21.0	82.4	5,100	4,600*	4,500*	4,300*	200
	205	16.8	67.8		4,000*	4,000		205
	38	81.1	224.4	112,000				38
	40	80.6	224.0	103,900				40
	45	79.3	223.2	87,500	86,800	77,600*		45
	50	77.9	222.1	75,100	74,500	73,800*		50
	55	76.6	221.0	65,400	64,900	64,300	60,100*	55
	60	75.3	219.8	57,600	57,100	56,600	52,600*	60
	65	73.9	218.4	51,200	50,700	50,300	48,000*	65
	70	72.5	216.9	45,800	45,400	45,000	43,900*	70
	75	71.2	215.2	41,300	40,900	40,500	40,000	75
	80	69.8	213.5	37,400	37,000	36,600	36,200	80
	85	68.4	211.6	34,000	33,600	33,300	32,900	85
	90	67.0	209.5	31,000	30,700	30,300	30,000	90
	95	65.6	207.3	28,300	28,000	27,700	27,400	95
	100	64.1	205.0	26,000	25,700	25,400	25,100	100
	105	62.7	202.5	23,900	23,600	23,300	23,000	105
	110	61.2	199.8	22,000	21,700	21,500	21,200	110
	115	59.7	196.9	20,300	20,000	19,800	19,500	115
	120	58.2	193.9	18,700	18,500	18,200	18,000	120
	125	56.6	190.7	17,300	17,100	16,800	16,600	125
	130	55.1	187.3	16,000	15,800	15,500	15,300	130
	135	53.5	183.8	14,800	14,600	14,400	14,100	135
	140	51.8	179.9	13,700	13,500	13,200	13,000	140
	145	50.1	175.9	12,600	12,400	12,100	11,900	145
	150	48.4	171.6	11,700	11,300	11,100	10,900	150
	155	46.7	167.0	10,800	10,400	10,200	10,000	155
	160	44.8	162.1	9,900	9,500	9,300	9,100	160
	165	43.0	156.9	9,200	8,700	8,500	8,300	165
	170	41.0	151.4	8,400	7,900	7,700	7,500*	170
	175	39.0	145.4	7,700	7,200	7,000	6,700*	175
	180	36.9	139.0	7,000	6,500	6,300*	5,900*	180
	185	34.6	132.1	6,300	5,800*	5,500*	5,200*	185
	190	32.3	124.5	5,700	5,100*	4,800*	4,500*	190
	195	29.8	116.2	5,100	4,400*	4,100*		195
	200	27.0	106.9	4,500				200

MANITOWOC ENGINEERING CO.

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LIFTCRANE BOOM CAPACITIES

4100W

BOOM NO. 22A OR NO. 22C WITH OPEN THROAT TOP

4100W SERIES 1

122,400 LB. COUNTERWEIGHT

26'6" CRAWLERS EXTENDED

CRAWLER MACHINE ON A BARGE

0 DEGREE THRU 3 DEGREE MACHINE LIST

NO TRAVEL - 360 DEGREE RATING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY 0 DEGREE LIST POUNDS	BOOM CAPACITY 1 DEGREE LIST POUNDS	BOOM CAPACITY 2 DEGREE LIST POUNDS	BOOM CAPACITY 3 DEGREE LIST POUNDS	OPER. RAD. FEET
230	38	81.5	234.5	111,600				38
	40	81.0	234.2	103,500				40
	45	79.7	233.3	87,100	86,400			45
	50	78.5	232.4	74,700	74,100	68,600*	53,100*	50
	55	77.2	231.3	65,000	64,400	63,800	52,700*	55
	60	75.9	230.1	57,200	56,700	56,100	51,000*	60
	65	74.6	228.8	50,800	50,300	49,800	46,400*	65
	70	73.3	227.3	45,400	45,000	44,500	42,500*	70
	75	72.0	225.8	40,800	40,400	40,000	38,900*	75
	80	70.7	224.1	36,900	36,500	36,200	35,600*	80
	85	69.4	222.3	33,500	33,200	32,800	32,400	85
	90	68.0	220.3	30,500	30,200	29,900	29,500	90
	95	66.7	218.2	27,900	27,600	27,300	26,900	95
	100	65.3	216.0	25,500	25,200	24,900	24,600	100
	105	64.0	213.6	23,400	23,200	22,900	22,600	105
	110	62.6	211.1	21,500	21,300	21,000	20,700	110
	115	61.1	208.4	19,800	19,600	19,300	19,000	115
	120	59.7	205.6	18,200	18,000	17,800	17,500	120
	125	58.3	202.6	16,800	16,600	16,400	16,100	125
	130	56.8	199.4	15,500	15,300	15,100	14,800	130
240	135	55.3	196.1	14,300	14,100	13,900	13,600	135
	140	53.8	192.5	13,200	12,900	12,700	12,500	140
	145	52.2	188.7	12,100	11,800	11,600	11,400	145
	150	50.6	184.7	11,200	10,800	10,600	10,400	150
	155	49.0	180.5	10,300	9,900	9,700	9,400	155
	160	47.3	176.0	9,500	9,000	8,800	8,500*	160
	165	45.6	171.3	8,700	8,100	7,900	7,600*	165
	170	43.8	166.2	7,900	7,400	7,200*	6,900*	170
	175	42.0	160.8	7,100	6,600	6,300*	6,000*	175
	180	40.1	155.1	6,400	5,900*	5,500*	5,100*	180
	185	38.1	148.9	5,800	5,100*	4,700*	4,300*	185
	190	36.0	142.3	5,200	4,300*	4,000*		190
	195	33.9	135.1	4,600				195
	200	31.6	127.4	4,000				200
	40	81.4	244.3	103,100				40
	45	80.2	243.5	86,700	83,400*			45
	50	78.9	242.6	74,300	73,700	60,900*		50
	55	77.7	241.5	64,600	64,000	60,400*	46,300*	55
	60	76.5	240.4	56,800	56,300	55,700	46,000*	60
	65	75.3	239.1	50,400	49,900	49,400	44,800*	65
	70	74.0	237.8	45,000	44,500	44,100	40,900*	70
	75	72.8	236.3	40,400	40,000	39,600	37,400*	75
	80	71.5	234.7	36,500	36,100	35,700	34,300*	80
	85	70.3	232.9	33,100	32,700	32,400	31,400*	85
	90	69.0	231.1	30,100	29,800	29,400	28,800*	90
	95	67.7	229.1	27,500	27,200	26,800	26,500*	95
	100	66.4	227.0	25,100	24,800	24,500	24,200	100
	105	65.1	224.7	23,000	22,700	22,400	22,100	105
	110	63.8	222.3	21,100	20,800	20,600	20,300	110
	115	62.5	219.8	19,400	19,100	18,900	18,600	115
	120	61.1	217.1	17,800	17,600	17,300	17,100	120
	125	59.7	214.3	16,400	16,200	15,900	15,700	125
	130	58.3	211.3	15,100	14,900	14,600	14,400*	130
	135	56.9	208.1	13,900	13,600	13,300	13,100	135
	140	55.5	204.8	12,800	12,400	12,200	11,900	140
	145	54.0	201.2	11,700	11,300	11,100	10,800	145
	150	52.5	197.5	10,800	10,300	10,100	9,700*	150
	155	51.0	193.6	9,900	9,300	9,100	8,600*	155
	160	49.5	189.4	9,000	8,400	8,200	7,600*	160
	165	47.9	185.0	8,100	7,600	7,300*	6,700*	165
	170	46.2	180.3	7,300	6,800	6,300*	5,800*	170
	175	44.6	175.4	6,600	6,000*	5,500*	5,000*	175
	180	42.8	170.2	5,900	5,100*	4,600*	4,200*	180
	185	41.0	164.6	5,200	4,300*			185
	190	39.2	158.7	4,600				190
	195	37.3	152.3	4,000				195

MANITOWOC ENGINEERING CO.

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



LIFTCRANE BOOM CAPACITIES

4100W

4100W SERIES 1

BOOM NO. 22A OR NO. 22C WITH OPEN THROAT TOP
122,400 LB. COUNTERWEIGHT
26'6" CRAWLERS EXTENDED
CRAWLER MACHINE ON A BARGE
0 DEGREE THRU 3 DEGREE MACHINE LIST
NO TRAVEL - 360 DEGREE RATING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY 0 DEGREE LIST POUNDS	BOOM CAPACITY 1 DEGREE LIST POUNDS	BOOM CAPACITY 2 DEGREE LIST POUNDS	BOOM CAPACITY 3 DEGREE LIST POUNDS	OPER. RAD. FEET
250	45	80.6	253.6	86,300				45
	50	79.4	252.7	73,900	73,200	54,500*		50
	55	78.2	251.7	64,100	63,600	54,000*	41,000*	55
	60	77.1	250.7	56,300	55,800	53,500*	40,700*	60
	65	75.9	249.4	49,900	49,400	48,900	40,400*	65
	70	74.7	248.1	44,500	44,100	43,600	39,700*	70
	75	73.5	246.7	40,000	39,600	39,100	36,400*	75
	80	72.3	245.2	36,000	35,700	35,300	33,300*	80
	85	71.1	243.5	32,600	32,300	31,900	30,500*	85
	90	69.9	241.7	29,600	29,300	29,000	27,900*	90
	95	68.7	239.9	27,000	26,700	26,400	25,600*	95
	100	67.4	237.8	24,600	24,400	24,100	23,500*	100
	105	66.2	235.7	22,500	22,300	22,000	21,500*	105
	110	64.9	233.4	20,600	20,400	20,100	19,700*	110
	115	63.6	231.0	18,900	18,700	18,400	18,000*	115
	120	62.4	228.5	17,400	17,100	16,900	16,500*	120
	125	61.1	225.8	15,900	15,700	15,500	15,100*	125
	130	59.7	222.9	14,600	14,400	14,200	13,700*	130
	135	58.4	219.9	13,400	13,200	13,000	12,500*	135
	140	57.0	216.8	12,300	12,000	11,800	11,300*	140
260	145	55.7	213.4	11,300	10,900	10,700	10,200*	145
	150	54.3	209.9	10,300	9,900	9,700	9,100*	150
	155	52.8	206.3	9,400	9,000	8,800*	8,100*	155
	160	51.4	202.4	8,600	8,100	7,700*	7,100*	160
	165	49.9	198.3	7,800	7,200	6,700*	6,100*	165
	170	48.4	193.9	7,000	6,400*	5,800*	5,200*	170
	175	46.8	189.4	6,200	5,500*	4,900*	4,400*	175
	180	45.3	184.6	5,500	4,600*	4,100*		180
	185	43.6	179.5	4,900				185
	190	41.9	174.1	4,300				190
	45	80.9	263.8	85,800				
	50	79.8	262.9	73,400				
	55	78.7	262.0	63,700				
	60	77.6	260.9	55,800				
	65	76.4	259.7	49,400				
	70	75.3	258.5	44,000				
	75	74.2	257.1	39,500				
	80	73.0	255.6	35,500				
	85	71.8	254.1	32,100				
	90	70.7	252.4	29,100				
	95	69.5	250.6	26,500				
	100	68.3	248.6	24,100				
	105	67.1	246.6	22,000				
	110	65.9	244.4	20,100				
	115	64.7	242.1	18,400				
	120	63.5	239.7	16,800				
	125	62.3	237.1	15,400				
	130	61.0	234.4	14,100				
	135	59.7	231.6	12,900				
	140	58.5	228.6	11,800				
	145	57.2	225.5	10,700				
	150	55.8	222.1	9,800				
	155	54.5	218.7	8,900				
	160	53.1	215.0	8,000				
	165	51.7	211.2	7,200				
	170	50.3	207.1	6,400				
	175	48.9	202.9	5,700				
	180	47.4	198.4	5,000				
	185	45.9	193.7	4,300				