

MANITOWOC ENGINEERING CO.

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



LIFTCRANE CAPACITIES

BOOM NO. 22C WITH OPEN THROAT TOP
OFFSET 4-1/2 DEGREES
122,400 LB. COUNTERWEIGHT
360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS

4100W

4100W SERIES 1

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 (*). CAPACITIES INDICATED BY (b) REPRESENT BOOM POSITIONS WHICH, WITHOUT LOAD, PROVIDE LESS THAN REQUIRED ANSI B30.5 BACKWARD STABILITY.

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 THE MAIN BOOM CAPACITY.

WEIGHT OF UPPER BOOM POINT, JIB, ALL LOAD BLOCKS, HOOKS, WEIGHT BALL, SLINGS, HOIST LINES, ETC., BENEATH BOOM AND JIB POINT SHEAVES, IS CONSIDERED PART OF THE 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 IN A LEVEL POSITION ON A FIRM UNIFORMLY SUPPORTING SURFACE WITH GANTRY UP. REFER TO BOOM RIGGING 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, TRAVEL, WIND CONDITIONS, AS WELL AS ADVERSE OPERATING CONDITIONS AND PHYSICAL MACHINE DEPRECIATION.

OPERATING RADIUS IS THE HORIZONTAL DISTANCE FROM THE AXIS OF ROTATION TO THE CENTER OF VERTICAL HOIST LINE OR LOAD BLOCK. BOOM ANGLE IS THE 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 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 AND JIB LENGTHS LIFTED UNASSISTED					
OVER FRONT OF BLOCKED CRAWLERS		OVER SIDE OF EXTENDED CRAWLERS		OVER SIDE OF RETRACTED CRAWLERS	
BOOM LGTH.	JIB NO. 123	BOOM LGTH.	JIB NO. 123	BOOM LGTH.	JIB NO. 123
260'	---	230'	---	220'	---
250'	---	220'	30'	210'	---
240'	40'	210'	60'	200'	50'
230'	60'			190'	60'

LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START.

DEDUCT FROM CAPACITIES WHEN UPPER BOOM POINT IS ATTACHED		DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED	
ONE SHEAVE POINT	1,200 LBS.	JIB LGTH.	JIB NO. 123
TWO SHEAVE POINT	1,500 LBS.	30'	3,000 LBS.
TO COMPLY WITH B30.5 REQUIREMENTS, UPPER BOOM POINT CANNOT BE USED ON 260' BOOM.		40'	3,600 LBS.
		50'	4,200 LBS.
		60'	4,900 LBS.
		JIB DEDUCTS INCLUDE JIB ADAPTOR.	

CONSULT JIB CHART FOR JIB CAPACITIES.

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS
70	16	82.8	76.2	308,100b*	308,100*
	17	82.0	76.0	302,300b*	302,300*
	18	81.2	75.8	296,800b*	296,800*
	19	80.3	75.6	287,100b	291,500*
	20	79.5	75.4	263,400b	286,500*
	22	77.8	74.9	225,900b	270,100
	24	76.1	74.3	197,500b	233,600
	26	74.4	73.7	175,300b	205,500
	28	72.7	73.0	157,500b	183,400
	30	71.0	72.3	142,800b	165,400
	32	69.2	71.4	130,500b	150,500
	34	67.4	70.5	120,100b	138,000
	36	65.6	69.5	111,100b	127,300
	38	63.7	68.5	103,400b	118,100
	40	61.8	67.3	96,600	110,000
	45	57.0	64.0	82,700	93,900
	50	51.8	60.1	72,100	81,600
	55	46.1	55.3	63,800	72,000
	60	39.8	49.4	57,000	64,300
	65	32.4	41.8	51,500	57,900
	70	22.7	31.1	46,800	52,600

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS
80	17	83.0	86.2	282,800b*	282,800*
	18	82.3	86.0	277,400b*	277,400*
	19	81.6	85.8	272,300b*	272,300*
	20	80.8	85.6	263,000b	267,400*
	22	79.4	85.2	225,400b	258,300*
	24	77.9	84.7	197,000b	233,100
	26	76.4	84.2	174,800b	205,100
	28	74.9	83.6	156,900b	182,900
	30	73.4	82.9	142,200b	164,900
	32	71.9	82.2	130,000b	150,000
	34	70.4	81.4	119,500b	137,400
	36	68.8	80.6	110,600	126,800
	38	67.3	79.7	102,800	117,500
	40	65.7	78.7	96,000	109,500
	45	61.6	76.0	82,100	93,300
	50	57.4	72.7	71,500	81,000
	55	52.9	68.9	63,200	71,400
	60	48.1	64.5	56,400	63,700
	65	42.9	59.1	50,800	57,300
	70	37.0	52.6	46,100	52,000
	75	30.1	44.4	42,100	47,500
	80	21.0	32.7	38,700	43,600

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BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS
90	19	82.5	96.0	257,800b•	257,800•
	20	81.9	95.8	252,900b•	252,900•
	22	80.6	95.4	225,200b	244,000•
	24	79.3	95.0	196,700b	232,900
	26	78.0	94.5	174,500b	204,800
	28	76.7	94.0	156,600b	182,600
	30	75.3	93.4	141,900b	164,600
	32	74.0	92.8	129,600b	149,700
	34	72.7	92.1	119,200	137,100
	36	71.3	91.4	110,200	126,400
	38	69.9	90.6	102,400	117,200
	40	68.6	89.7	95,600	109,200
	45	65.1	87.4	81,800	93,000
	50	61.4	84.6	71,200	80,700
	55	57.7	81.4	62,800	71,100
	60	53.7	77.8	56,000	63,300
	65	49.5	73.5	50,500	57,000
	70	45.1	68.5	45,800	51,600
	75	40.2	62.7	41,800	47,100
	80	34.7	55.6	38,300	43,200
100	85	28.2	46.8	35,300	39,900
	90	19.7	34.3	32,700	36,900
	20	82.7	105.9	240,600b•	240,600•
	22	81.5	105.6	224,700b	231,900•
	24	80.4	105.2	196,300b	223,900•
	26	79.2	104.8	174,000b	204,400
	28	78.0	104.3	156,100b	182,200
	30	76.8	103.8	141,400	164,100
	32	75.7	103.2	129,100	149,200
	34	74.5	102.6	118,700	136,700
	36	73.3	102.0	109,700	125,900
	38	72.0	101.3	101,900	116,700
	40	70.8	100.5	95,100	108,700
	45	67.7	98.5	81,200	92,400
	50	64.6	96.0	70,600	80,100
	55	61.3	93.3	62,200	70,500
	60	57.9	90.1	55,500	62,800
	65	54.4	86.5	49,900	56,400
	70	50.7	82.4	45,200	51,100
110	75	46.8	77.7	41,200	46,600
	80	42.6	72.3	37,700	42,700
	85	38.0	66.0	34,700	39,300
	90	32.8	58.5	32,100	36,300
	95	26.6	49.0	29,800	33,700
	100	18.6	35.8	27,700	31,400
	22	82.3	115.7	221,700b•	221,700•
	24	81.3	115.4	195,900b	213,900•
	26	80.2	115.0	173,700b	204,100
	28	79.1	114.6	155,700	181,800
	30	78.1	114.1	141,000	163,800
	32	77.0	113.6	128,700	148,800
	34	75.9	113.1	118,300	136,300
	36	74.8	112.5	109,300	125,600
	38	73.7	111.8	101,500	116,300
	40	72.6	111.2	94,700	108,300
	45	69.9	109.3	80,800	92,000
	50	67.0	107.2	70,200	79,700
	55	64.1	104.7	61,800	70,100
	60	61.2	101.9	55,100	62,400
	65	58.1	98.8	49,500	56,000
120	70	54.9	95.3	44,800	50,700
	75	51.6	91.3	40,800	46,100
	80	48.1	86.8	37,300	42,300
	85	44.4	81.7	34,300	38,900
	90	40.4	75.9	31,700	35,900
	95	36.1	69.2	29,300	33,300
	100	31.1	61.1	27,300	31,000
	105	25.3	51.1	25,400	28,900
	110	17.6	37.2	23,700	27,000

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS
120	22	83.0	125.9	213,200b•	213,200•
	24	82.0	125.5	195,800b	205,500•
	26	81.0	125.2	173,500	198,600•
	28	80.0	124.8	155,600	181,600
	30	79.1	124.4	140,800	163,600
	32	78.1	123.9	128,500	148,600
	34	77.1	123.4	118,100	136,000
	36	76.1	122.9	109,100	125,300
	38	75.1	122.3	101,300	116,100
	40	74.1	121.7	94,400	108,000
	45	71.6	120.0	80,600	91,800
	50	69.1	118.1	69,900	79,500
	55	66.5	115.9	61,600	69,800
	60	63.8	113.4	54,800	62,100
	65	61.1	110.6	49,200	55,700
	70	58.3	107.5	44,500	50,400
	75	55.4	104.0	40,500	45,800
	80	52.4	100.1	37,000	41,900
	85	49.2	95.8	34,000	38,600
	90	45.9	91.0	31,400	35,600
130	95	42.4	85.6	29,000	33,000
	100	38.6	79.4	26,900	30,700
	105	34.4	72.2	25,100	28,600
	110	29.7	63.7	23,400	26,700
	115	24.1	53.2	21,800	25,000
	120	16.8	38.5	20,500	23,400
	24	82.6	135.7	195,500	197,900•
	26	81.7	135.3	173,200	191,100•
	28	80.8	135.0	155,300	181,300
	30	79.9	134.6	140,500	163,200
	32	79.0	134.2	128,200	148,200
	34	78.1	133.7	117,700	135,700
	36	77.2	133.2	108,700	125,000
	38	76.3	132.7	100,900	115,700
	40	75.4	132.1	94,100	107,600
	45	73.1	130.6	80,200	91,400
	50	70.8	128.8	69,600	79,100
	55	68.4	126.8	61,200	69,400
	60	66.0	124.6	54,400	61,700
	65	63.5	122.0	48,800	55,300
	70	61.0	119.2	44,100	49,900
140	75	58.4	116.2	40,100	45,400
	80	55.7	112.7	36,600	41,500
	85	53.0	109.0	33,600	38,100
	90	50.1	104.8	31,000	35,200
	95	47.1	100.1	28,600	32,600
	100	43.9	95.0	26,500	30,200
	105	40.6	89.2	24,700	28,100
	110	36.9	82.6	23,000	26,300
	115	33.0	75.1	21,400	24,500
	120	28.5	66.2	20,000	23,000
150	125	23.1	55.1	18,800	21,600
	130	16.1	39.8	17,600	20,300

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140	26	82.3	145.5	172,700	184,100*
	28	81.5	145.1	154,700	178,000*
	30	80.7	144.8	140,000	162,800
	32	79.8	144.4	127,600	147,800
	34	79.0	144.0	117,200	135,200
	36	78.1	143.5	108,200	124,500
	38	77.3	143.0	100,400	115,200
	40	76.5	142.5	93,500	107,200
	45	74.3	141.1	79,600	90,900
	50	72.2	139.4	69,000	78,600
	55	70.0	137.6	60,600	68,900
	60	67.8	135.5	53,800	61,100
	65	65.6	133.2	48,200	54,700
	70	63.3	130.7	43,500	49,400
	75	60.9	127.9	39,500	44,900
	80	58.5	124.8	36,000	41,000
	85	56.1	121.4	33,000	37,600
	90	53.5	117.7	30,400	34,600
	95	50.9	113.7	28,000	32,000
	100	48.1	109.2	25,900	29,700
150	105	45.3	104.2	24,100	27,600
	110	42.2	98.8	22,400	25,700
	115	39.0	92.7	20,800	24,000
	120	35.5	85.8	19,400	22,400
	125	31.7	77.8	18,200	21,000
	130	27.4	68.5	17,000	19,700
	135	22.2	57.0	15,900	18,500
	140	15.4	41.1	14,900	17,400
	26	82.8	155.6	172,200	178,600*
	28	82.1	155.3	154,200	172,600*
	30	81.3	154.9	139,500	162,400
	32	80.5	154.6	127,200	147,400
	34	79.7	154.2	116,700	134,800
	36	79.0	153.8	107,700	124,100
	38	78.2	153.3	99,900	114,800
	40	77.4	152.8	93,100	106,700
	45	75.4	151.5	79,100	90,500
	50	73.4	150.0	68,500	78,100
	55	71.4	148.3	60,100	68,500
	60	69.4	146.4	53,300	60,700
	65	67.3	144.3	47,700	54,300
	70	65.2	141.9	43,000	49,000
	75	63.0	139.4	39,000	44,400
170	80	60.9	136.6	35,600	40,500
	85	58.6	133.5	32,500	37,100
	90	56.3	130.2	29,900	34,200
	95	54.0	126.5	27,600	31,600
	100	51.5	122.5	25,500	29,200
	105	49.0	118.2	23,600	27,100
	110	46.4	113.4	21,900	25,200
	115	43.6	108.2	20,400	23,500
	120	40.7	102.4	19,000	22,000
	125	37.6	96.0	17,700	20,600
	130	34.2	88.8	16,500	19,200
	135	30.5	80.5	15,400	18,000
	140	26.4	70.8	14,400	16,900
	145	21.4	58.8	13,500	15,900
	28	82.6	165.4	153,900	166,800*
	30	81.8	165.1	139,200	161,400*
	32	81.1	164.7	126,800	147,100
	34	80.4	164.4	116,400	134,500
	36	79.7	164.0	107,400	123,800
	38	78.9	163.6	99,600	114,500
	40	78.2	163.1	92,700	106,400
	45	76.3	161.9	78,800	90,100
	50	74.5	160.5	68,200	77,800
	55	72.6	158.9	59,800	68,100
160	60	70.7	157.1	53,000	60,300
	65	68.8	155.1	47,400	54,000
	70	66.8	153.0	42,600	48,600
	75	64.9	150.6	38,600	44,100
	80	62.9	148.0	35,200	40,200
	85	60.8	145.2	32,200	36,800
	90	58.7	142.2	29,500	33,800
	95	56.6	138.9	27,200	31,200
	100	54.4	135.3	25,100	28,800
	105	52.1	131.4	23,200	26,800
	110	49.7	127.1	21,500	24,900
	115	47.3	122.5	20,000	23,200
	120	44.8	117.5	18,600	21,600
	125	42.1	112.0	17,300	20,200
	130	39.3	105.9	16,100	18,900
	135	36.3	99.2	15,100	17,700
	140	33.1	91.7	14,100	16,600
	145	29.5	83.1	13,100	15,500
	150	25.5	72.9	12,300	14,600
	155	20.7	60.5	11,400	13,700
150	28	83.0	175.5	153,500	162,300*
	30	82.3	175.2	138,800	157,000*
	32	81.6	174.9	126,400	146,700
	34	81.0	174.5	116,000	134,100
	36	80.3	174.2	107,000	123,400
	38	79.6	173.8	99,100	114,100
	40	78.9	173.4	92,300	106,000
	45	77.2	172.2	78,400	89,700
	50	75.4	170.9	67,700	77,400
	55	73.7	169.4	59,300	67,700
	60	71.9	167.7	52,500	59,900
	65	70.1	165.9	46,900	53,500
	70	68.3	163.9	42,200	48,200
	75	66.4	161.7	38,200	43,600
	80	64.6	159.3	34,700	39,700
	85	62.7	156.7	31,700	36,300
	90	60.8	153.9	29,100	33,400
	95	58.8	150.8	26,700	30,700
	100	56.8	147.5	24,600	28,400
	105	54.7	144.0	22,800	26,300
160	110	52.6	140.2	21,100	24,400
	115	50.4	136.0	19,500	22,700
	120	48.1	131.6	18,100	21,100
	125	45.8	126.7	16,900	19,700
	130	43.3	121.4	15,700	18,400
	135	40.8	115.7	14,600	17,200
	140	38.1	109.3	13,600	16,100
	145	35.2	102.3	12,700	15,100
	150	32.0	94.5	11,800	14,100
	155	28.6	85.5	11,000	13,200
160	160	24.7	75.1	10,200	12,400
	165	20.0	62.2	9,500	11,600

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BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS
180	30	82.7	185.3	138,300	151,500*
	32	82.1	185.0	126,000	146,300
	34	81.5	184.7	115,500	133,700
	36	80.8	184.3	106,500	122,900
	38	80.2	184.0	98,600	113,600
	40	79.5	183.6	91,800	105,500
	45	77.9	182.5	77,900	89,200
	50	76.3	181.2	67,200	76,900
	55	74.6	179.8	58,800	67,200
	60	72.9	178.3	52,000	59,400
	65	71.3	176.6	46,400	53,000
	70	69.6	174.7	41,700	47,600
	75	67.8	172.6	37,600	43,100
	80	66.1	170.4	34,200	39,200
	85	64.3	168.0	31,200	35,800
	90	62.5	165.4	28,500	32,800
	95	60.7	162.5	26,200	30,200
	100	58.9	159.5	24,100	27,900
190	105	57.0	156.2	22,200	25,800
	110	55.0	152.7	20,500	23,900
	115	53.0	149.0	19,000	22,200
	120	51.0	144.9	17,600	20,600
	125	48.9	140.5	16,300	19,200
	130	46.7	135.8	15,100	17,900
	135	44.4	130.7	14,000	16,700
	140	42.0	125.2	13,000	15,500
	145	39.6	119.2	12,100	14,500
	150	36.9	112.6	11,200	13,600
	155	34.1	105.3	10,400	12,700
	160	31.1	97.2	9,700	11,800
	165	27.7	87.9	9,000	11,100
	170	23.9	77.1	8,300	10,300
	175	19.4	63.8	7,600	9,600
	32	82.5	195.1	125,500	142,800*
	34	81.9	194.8	115,000	133,300
	36	81.3	194.5	106,000	122,500
	38	80.7	194.1	98,200	113,200
	40	80.1	193.8	91,300	105,100
	45	78.5	192.7	77,400	88,800
	50	77.0	191.6	66,700	76,400
	55	75.4	190.2	58,300	66,700
	60	73.9	188.8	51,500	59,000
	65	72.3	187.2	45,900	52,500
	70	70.7	185.4	41,200	47,200
	75	69.1	183.5	37,200	42,600
	80	67.4	181.4	33,700	38,700
	85	65.8	179.1	30,700	35,300
	90	64.1	176.6	28,100	32,400
	95	62.4	174.0	25,700	29,700
	100	60.7	171.2	23,600	27,400
	105	58.9	168.2	21,700	25,300
	110	57.1	164.9	20,000	23,400
	115	55.3	161.5	18,500	21,700
	120	53.4	157.7	17,100	20,100
	125	51.5	153.7	15,800	18,700
	130	49.5	149.5	14,600	17,400
	135	47.5	144.9	13,600	16,200
	140	45.3	140.0	12,600	15,100
	145	43.1	134.7	11,600	14,000
	150	40.8	128.9	10,800	13,100
	155	38.4	122.6	10,000	12,200
	160	35.9	115.8	9,200	11,400
	165	33.2	108.3	8,500	10,600
	170	30.2	99.8	7,700	9,900
	175	27.0	90.3	7,100	9,200
	180	23.3	79.1	6,400	8,500
	185	18.9	65.4	5,900	7,800

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS
200	32	82.9	205.2	125,200	139,100*
	34	82.3	204.9	114,700	132,900
	36	81.7	204.6	105,700	122,200
	38	81.2	204.3	97,800	112,900
	40	80.6	203.9	91,000	104,800
	45	79.1	203.0	77,000	88,400
	50	77.7	201.8	66,400	76,100
	55	76.2	200.6	58,000	66,400
	60	74.7	199.2	51,100	58,600
	65	73.2	197.7	45,500	52,200
	70	71.7	196.0	40,800	46,800
	75	70.2	194.2	36,800	42,300
	80	68.6	192.2	33,300	38,300
	85	67.1	190.1	30,300	34,900
	90	65.5	187.8	27,600	32,000
	95	63.9	185.3	25,300	29,300
	100	62.3	182.7	23,200	27,000
	105	60.6	179.9	21,300	24,900
210	110	59.0	176.8	19,600	23,000
	115	57.3	173.6	18,100	21,300
	120	55.5	170.2	16,700	19,700
	125	53.8	166.5	15,400	18,300
	130	51.9	162.6	14,200	17,000
	135	50.1	158.4	13,100	15,800
	140	48.1	153.9	12,100	14,700
	145	46.2	149.1	11,200	13,600
	150	44.1	144.0	10,300	12,700
	155	42.0	138.4	9,400	11,800
	160	39.7	132.5	8,600	10,900
	165	37.4	126.0	7,900	10,100
	170	34.9	118.9	7,100	9,300
	175	32.3	111.1	6,500	8,600
	180	29.4	102.4	5,800	7,900
	185	26.2	92.5	5,300	7,200
	190	22.6	81.0	4,700	6,600
	195	18.4	67.0	4,200	6,000
220	34	82.7	215.0	114,300	124,000*
	36	82.1	214.7	105,200	121,800
	38	81.6	214.4	97,400	112,500
	40	81.0	214.1	90,500	104,300
	45	79.6	213.2	76,600	88,000
	50	78.3	212.1	65,900	75,600
	55	76.9	210.9	57,500	65,900
	60	75.4	209.6	50,700	58,100
	65	74.0	208.2	45,100	51,700
	70	72.6	206.6	40,300	46,400
	75	71.2	204.8	36,300	41,800
	80	69.7	203.0	32,900	37,900
	85	68.2	201.0	29,800	34,500
	90	66.7	198.8	27,200	31,500
	95	65.2	196.5	24,800	28,900
	100	63.7	194.0	22,700	26,500
	105	62.2	191.3	20,900	24,400
	110	60.6	188.5	19,200	22,500
230	115	59.0	185.5	17,600	20,800
	120	57.4	182.3	16,200	19,300
	125	55.7	178.9	14,900	17,800
	130	54.1	175.2	13,800	16,500
	135	52.3	171.4	12,700	15,300
	140	50.6	167.3	11,700	14,200
	145	48.8	162.9	10,700	13,200
	150	46.9	158.2	9,900	12,200
	155	45.0	153.2	9,100	11,300
	160	43.0	147.9	8,300	10,500
	165	40.9	142.1	7,500	9,700
	170	38.7	135.9	6,800	9,000
	175	36.5	129.2	6,100	8,200
	180	34.0	121.9	5,500	7,500
	185	31.5	113.9	4,900	6,900
	190	28.7	104.9	4,400	6,300
	195	25.6	94.8	4,000	5,700
	200	22.1	82.9	3,600	5,100

MANITOWOC ENGINEERING CO.

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



LIFT CRANE CAPACITIES

BOOM NO. 22C WITH OPEN THROAT TOP
OFFSET 4-1/2 DEGREES
122,400 LB. COUNTERWEIGHT
360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS

4100W
4100W SERIES 1

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS
220	36	82.5	224.9	104,800	121,600*
	38	82.0	224.6	96,900	112,000
	40	81.4	224.2	90,000	103,900
	45	80.1	223.3	76,100	87,500
	50	78.8	222.3	65,400	75,100
	55	77.5	221.2	57,000	65,400
	60	76.1	220.0	50,200	57,600
	65	74.8	218.6	44,500	51,200
	70	73.4	217.1	39,800	45,800
	75	72.0	215.4	35,800	41,300
	80	70.7	213.7	32,300	37,400
	85	69.3	211.8	29,300	34,000
	90	67.9	209.7	26,600	31,000
	95	66.4	207.5	24,300	28,300
	100	65.0	205.2	22,200	26,000
	105	63.6	202.7	20,300	23,900
	110	62.1	200.0	18,600	22,000
	115	60.6	197.2	17,100	20,300
	120	59.1	194.2	15,700	18,700
	125	57.5	191.0	14,400	17,300
230	130	55.9	187.6	13,200	16,000
	135	54.3	184.0	12,100	14,800
	140	52.7	180.2	11,100	13,700
	145	51.0	176.1	10,200	12,600
	150	49.3	171.8	9,300	11,700
	155	47.6	167.3	8,500	10,800
	160	45.7	162.4	7,700	9,900
	165	43.9	157.2	6,900	9,200
	170	41.9	151.7	6,200	8,400
	175	39.9	145.7	5,600	7,700
	180	37.8	139.3	4,900	7,000
	185	35.6	132.4	4,300	6,300
	190	33.2	124.9	5,700	5,700
	195	30.7	116.6	5,100	5,100
	200	28.0	107.3	4,500	4,500
	38	82.3	234.7	96,500	111,600
	40	81.8	234.4	89,600	103,500
	45	80.6	233.5	75,600	87,100
	50	79.3	232.6	64,900	74,700
	55	78.0	231.5	56,500	65,000
	60	76.7	230.3	49,700	57,200
	65	75.4	229.0	44,100	50,800
	70	74.2	227.5	39,300	45,400
	75	72.9	226.0	35,300	40,800
	80	71.5	224.3	31,800	36,900
	85	70.2	222.5	28,800	33,500
	90	68.9	220.5	26,200	30,500
	95	67.5	218.4	23,800	27,900
	100	66.2	216.2	21,700	25,500
	105	64.8	213.9	19,800	23,400
	110	63.4	211.3	18,100	21,500
	115	62.0	208.7	16,600	19,800
	120	60.6	205.8	15,200	18,200
	125	59.1	202.8	13,900	16,800
	130	57.6	199.6	12,700	15,500
	135	56.1	196.3	11,600	14,300
	140	54.6	192.7	10,600	13,200
	145	53.0	189.0	9,700	12,100
	150	51.5	185.0	8,800	11,200
	155	49.8	180.7	8,000	10,300
	160	48.2	176.3	7,200	9,500
	165	46.4	171.5	6,400	8,700
	170	44.7	166.5	5,700	7,900
	175	42.8	161.1	5,000	7,100
	180	40.9	155.4	4,400	6,400
	185	39.0	149.2	5,800	5,800
	190	36.9	142.6	5,200	5,200
	195	34.7	135.5	4,600	4,600
	200	32.4	127.7	4,000	4,000

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS
240	40	82.2	244.5	89,200	103,100
	45	81.0	243.7	75,200	86,700
	50	79.7	242.7	64,500	74,300
	55	78.5	241.7	56,100	64,600
	60	77.3	240.6	49,300	56,800
	65	76.1	239.3	43,700	50,400
	70	74.8	237.9	38,900	45,000
	75	73.6	236.5	34,900	40,400
	80	72.3	234.9	31,400	36,500
	85	71.1	233.1	28,400	33,100
	90	69.8	231.3	25,700	30,100
	95	68.5	229.3	23,400	27,500
	100	67.2	227.2	21,300	25,100
	105	65.9	224.9	19,400	23,000
	110	64.6	222.5	17,700	21,100
	115	63.3	220.0	16,200	19,400
	120	61.9	217.3	14,800	17,800
	125	60.5	214.5	13,500	16,400
	130	59.1	211.5	12,300	15,100
	135	57.7	208.3	11,200	13,900
250	140	56.3	205.0	10,200	12,800
	145	54.8	201.6	9,200	11,700
	150	53.3	197.7	8,300	10,800
	155	51.8	193.8	7,400	9,900
	160	50.3	189.6	6,600	9,000
	165	48.7	185.2	5,900	8,100
	170	47.1	180.6	5,200	7,300
	175	45.4	175.7	4,500	6,600
	180	43.7	170.5	5,900	5,900
	185	41.9	164.9	5,200	5,200
	190	40.0	159.0	4,600	4,600
	195	38.1	152.6	4,000	4,000
	40	82.5	254.6	88,800	93,000*
	45	81.3	253.8	74,800	86,300
	50	80.2	252.9	64,100	73,900
	55	79.0	251.9	55,700	64,100
	60	77.8	250.8	48,800	56,300
	65	76.6	249.6	43,200	49,900
	70	75.5	248.3	38,500	44,500
	75	74.3	246.9	34,400	40,000
	80	73.1	245.4	31,000	36,000
	85	71.9	243.7	27,900	32,600
	90	70.6	241.9	25,300	29,600
	95	69.4	240.1	22,900	27,000
	100	68.2	238.0	20,800	24,600
	105	66.9	235.9	18,900	22,500
	110	65.7	233.6	17,200	20,600
	115	64.4	231.2	15,700	18,900
	120	63.1	228.7	14,300	17,400
	125	61.8	226.0	13,000	15,900
	130	60.5	223.1	11,800	14,600
	135	59.2	220.2	10,700	13,400
	140	57.8	217.0	9,700	12,300
	145	56.4	213.7	8,800	11,300
	150	55.1	210.2	7,900	10,300
	155	53.6	206.5	7,100	9,400
	160	52.2	202.6	6,300	8,600
	165	50.7	198.5	5,500	7,800
	170	49.2	194.2	4,800	7,000
	175	47.6	189.6	4,100	6,200
	180	46.0	184.8	5,500	5,500
	185	44.4	179.7	4,900	4,900
	190	42.7	174.3	4,300	4,300

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REQUIREMENTS

4100W

4100W SERIES 1

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS
260	40	82.8	264.7	88,400	93,000*
	45	81.7	263.9	74,300	85,800
	50	80.5	263.1	63,600	73,400
	55	79.4	262.1	55,200	63,700
	60	78.3	261.1	48,300	55,800
	65	77.2	259.9	42,700	49,400
	70	76.0	258.7	37,900	44,000
	75	74.9	257.3	33,900	39,500
	80	73.7	255.8	30,400	35,500
	85	72.6	254.3	27,400	32,100
	90	71.4	252.6	24,700	29,100
	95	70.3	250.8	22,400	26,500
	100	69.1	248.8	20,300	24,100
	105	67.9	246.8	18,400	22,000
	110	66.7	244.6	16,700	20,100
	115	65.5	242.3	15,200	18,400
	120	64.2	239.9	13,800	16,800
	125	63.0	237.3	12,500	15,400
	130	61.8	234.6	11,300	14,100
	135	60.5	231.8	10,200	12,900
260	140	59.2	228.8	9,200	11,800
	145	57.9	225.7	8,300	10,700
	150	56.6	222.4	7,400	9,800
	155	55.2	218.9	6,500	8,900
	160	53.9	215.2	5,700	8,000
	165	52.5	211.4	4,900	7,200
	170	51.1	207.4	4,200	6,400
	175	49.6	203.1		5,700
	180	48.2	198.6		5,000
	185	46.6	193.9		4,300