

# MANITOWOC ENGINEERING CO.

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



## LIFTCRANE CAPACITIES

**BOOM NO. 22C WITH OPEN THROAT TOP**  
**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	
		JIB LGTH.	JIB NO. 123
ONE SHEAVE POINT	1,200 LBS.	30'	3,000 LBS.
TWO SHEAVE POINT	1,500 LBS.	40'	3,600 LBS.
TO COMPLY WITH B30.5 REQUIREMENTS, UPPER BOOM POINT CANNOT BE USED ON 260' BOOM.		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	CAPACITY
				CRAWLERS RETRACTED POUNDS	CRAWLERS EXTENDED POUNDS
<b>70</b>	16	80.1	76.0	392,000b	400,000*
	17	79.3	75.8	349,600b	383,300*
	18	78.5	75.6	315,400b	365,300*
	19	77.6	75.4	287,100b	348,900*
	20	76.8	75.2	263,400b	319,800
	22	75.1	74.7	225,900b	270,100
	24	73.4	74.1	197,500b	233,600
	26	71.7	73.5	175,300b	205,500
	28	69.9	72.8	157,500b	183,400
	30	68.2	72.0	142,800b	165,400
	32	66.4	71.2	130,500b	150,500
	34	64.6	70.3	120,100b	138,000
	36	62.8	69.3	111,100b	127,300
	38	60.9	68.2	103,400b	118,100
	40	59.1	67.0	96,600	110,000
	45	54.1	63.7	82,700	93,900
	50	48.9	59.8	72,100	81,600
	55	43.2	55.0	63,800	72,000
	60	36.9	49.0	57,000	64,300
	65	29.4	41.3	51,500	57,900
70	19.5	30.3	46,800	52,600	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY	CAPACITY
				CRAWLERS RETRACTED POUNDS	CRAWLERS EXTENDED POUNDS
<b>80</b>	17	80.6	85.9	349,300b	381,800*
	18	79.9	85.8	315,000b	364,000*
	19	79.2	85.6	286,700b	347,600*
	20	78.5	85.4	263,000b	319,400
	22	77.0	85.0	225,400b	269,700
	24	75.5	84.5	197,000b	233,100
	26	74.0	83.9	174,800b	205,100
	28	72.5	83.3	156,900b	182,900
	30	71.0	82.7	142,200b	164,900
	32	69.5	81.9	130,000b	150,000
	34	68.0	81.2	119,500b	137,400
	36	66.4	80.3	110,600	126,800
	38	64.8	79.4	102,800	117,500
	40	63.3	78.4	96,000	109,500
	45	59.2	75.7	82,100	93,300
	50	54.9	72.5	71,500	81,000
	55	50.4	68.6	63,200	71,400
	60	45.6	64.1	56,400	63,700
	65	40.3	58.8	50,800	57,300
	70	34.4	52.2	46,100	52,000
75	27.4	43.9	42,100	47,500	
80	18.2	32.0	38,700	43,600	

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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	EXTENDED POUNDS
90	18	81.1	95.9	314,700b	355,400*
	19	80.4	95.7	286,500b	346,900*
	20	79.8	95.6	262,700b	319,200
	22	78.5	95.2	225,200b	269,500
	24	77.2	94.8	196,700b	232,900
	26	75.9	94.3	174,500b	204,800
	28	74.5	93.7	156,600b	182,600
	30	73.2	93.2	141,900b	164,600
	32	71.9	92.5	129,600b	149,700
	34	70.5	91.9	119,200	137,100
	36	69.2	91.1	110,200	126,400
	38	67.8	90.3	102,400	117,200
	40	66.4	89.5	95,600	109,200
	45	62.9	87.1	81,800	93,000
	50	59.3	84.4	71,200	80,700
	55	55.5	81.2	62,800	71,100
	60	51.5	77.5	56,000	63,300
	65	47.3	73.2	50,500	57,000
70	42.8	68.2	45,800	51,600	
75	37.9	62.3	41,800	47,100	
80	32.4	55.2	38,300	43,200	
85	25.8	46.2	35,300	39,900	
90	17.1	33.5	32,700	36,900	
100	19	81.4	105.9	286,100b	331,400*
	20	80.8	105.7	262,300b	318,900
	22	79.6	105.4	224,700b	269,200
	24	78.5	105.0	196,300b	232,500
	26	77.3	104.6	174,000b	204,400
	28	76.1	104.1	156,100b	182,200
	30	74.9	103.6	141,400	164,100
	32	73.7	103.0	129,100	149,200
	34	72.5	102.4	118,700	136,700
	36	71.3	101.7	109,700	125,900
	38	70.1	101.0	101,900	116,700
	40	68.9	100.3	95,100	108,700
	45	65.8	98.2	81,200	92,400
	50	62.6	95.8	70,600	80,100
	55	59.3	93.0	62,200	70,500
	60	55.9	89.9	55,500	62,800
	65	52.4	86.2	49,900	56,400
	70	48.7	82.1	45,200	51,100
75	44.8	77.4	41,200	46,600	
80	40.5	72.0	37,700	42,700	
85	35.9	65.6	34,700	39,300	
90	30.7	58.0	32,100	36,300	
95	24.5	48.5	29,800	33,700	
100	16.3	35.0	27,700	31,400	
110	22	80.6	115.5	224,400b	268,900
	24	79.5	115.2	195,900b	232,200
	26	78.5	114.8	173,700b	204,100
	28	77.4	114.4	155,700	181,800
	30	76.3	113.9	141,000	163,800
	32	75.3	113.4	128,700	148,800
	34	74.2	112.8	118,300	136,300
	36	73.1	112.2	109,300	125,600
	38	72.0	111.6	101,500	116,300
	40	70.9	110.9	94,700	108,300
	45	68.1	109.1	80,800	92,000
	50	65.3	106.9	70,200	79,700
	55	62.4	104.5	61,800	70,100
	60	59.4	101.7	55,100	62,400
	65	56.3	98.5	49,500	56,000
	70	53.1	95.0	44,800	50,700
	75	49.8	91.0	40,800	46,100
	80	46.3	86.5	37,300	42,300
85	42.6	81.4	34,300	38,900	
90	38.6	75.6	31,700	35,900	
95	34.2	68.8	29,300	33,300	
100	29.2	60.7	27,300	31,000	
105	23.3	50.6	25,400	28,900	
110	15.5	36.4	23,700	27,000	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS	
				RETRACTED POUNDS	EXTENDED POUNDS
120	22	81.4	125.6	224,200b	268,700
	24	80.4	125.3	195,700b	232,000
	26	79.4	125.0	173,400	203,900
	28	78.5	124.6	155,500	181,600
	30	77.5	124.2	140,800	163,600
	32	76.5	123.7	128,500	148,600
	34	75.5	123.2	118,000	136,000
	36	74.5	122.7	109,000	125,300
	38	73.5	122.1	101,200	116,100
	40	72.5	121.5	94,400	108,000
	45	70.0	119.8	80,500	91,800
	50	67.5	117.8	69,900	79,500
	55	64.8	115.6	61,500	69,800
	60	62.2	113.1	54,700	62,100
	65	59.4	110.3	49,200	55,700
	70	56.6	107.2	44,400	50,400
	75	53.7	103.7	40,400	45,800
	80	50.7	99.9	37,000	41,900
85	47.5	95.5	34,000	38,600	
90	44.2	90.7	31,400	35,600	
95	40.7	85.2	29,000	33,000	
100	36.9	79.0	26,900	30,700	
105	32.7	71.8	25,100	28,600	
110	28.0	63.3	23,400	26,700	
115	22.3	52.6	21,800	25,000	
130	24	81.2	135.5	195,300	231,700
	26	80.3	135.1	173,000	203,500
	28	79.4	134.8	155,100	181,300
	30	78.5	134.4	140,400	163,200
	32	77.6	134.0	128,100	148,200
	34	76.7	133.5	117,600	135,700
	36	75.7	133.0	108,600	125,000
	38	74.8	132.5	100,800	115,700
	40	73.9	131.9	94,000	107,600
	45	71.6	130.4	80,100	91,400
	50	69.3	128.6	69,500	79,100
	55	66.9	126.6	61,100	69,400
	60	64.5	124.3	54,300	61,700
	65	62.0	121.8	48,700	55,300
	70	59.5	119.0	44,000	49,900
	75	56.9	115.9	40,000	45,400
	80	54.2	112.5	36,600	41,500
	85	51.5	108.7	33,600	38,100
90	48.6	104.5	30,900	35,200	
95	45.6	99.8	28,600	32,600	
100	42.4	94.7	26,500	30,200	
105	39.0	88.9	24,600	28,100	
110	35.4	82.3	22,900	26,300	
115	31.4	74.7	21,400	24,500	
120	26.8	65.7	20,000	23,000	
125	21.4	54.5	18,700	21,600	

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	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS	
					RETRACTED POUNDS	EXTENDED POUNDS
140	26	81.0	145.3	172.600	203.200	
	28	80.1	144.9	154.700	180.900	
	30	79.3	144.6	139.900	162.800	
	32	78.5	144.2	127.600	147.800	
	34	77.6	143.8	117.100	135.200	
	36	76.8	143.3	108.100	124.500	
	38	75.9	142.8	100.300	115.200	
	40	75.1	142.3	93.500	107.200	
	45	73.0	140.9	79.600	90.900	
	50	70.8	139.2	69.000	78.600	
	55	68.6	137.4	60.600	68.900	
	60	66.4	135.3	53.800	61.100	
	65	64.2	133.0	48.200	54.700	
	70	61.9	130.5	43.500	49.400	
	75	59.5	127.7	39.500	44.900	
80	57.1	124.6	36.000	41.000		
85	54.6	121.2	33.000	37.600		
90	52.1	117.5	30.400	34.600		
95	49.5	113.4	28.000	32.000		
100	46.7	108.9	25.900	29.700		
105	43.8	104.0	24.000	27.600		
110	40.8	98.5	22.400	25.700		
115	37.5	92.3	20.800	24.000		
120	34.0	85.4	19.400	22.400		
125	30.2	77.4	18.200	21.000		
130	25.8	68.0	17.000	19.700		
135	20.7	56.4	15.900	18.500		
150	28	80.8	155.1	154.200	180.500	
	30	80.0	154.7	139.500	162.400	
	32	79.2	154.4	127.200	147.400	
	34	78.5	154.0	116.700	134.800	
	36	77.7	153.6	107.700	124.100	
	38	76.9	153.1	99.900	114.800	
	40	76.1	152.6	93.100	106.700	
	45	74.1	151.3	79.100	90.500	
	50	72.1	149.8	68.500	78.100	
	55	70.1	148.1	60.100	68.500	
	60	68.1	146.2	53.300	60.700	
	65	66.0	144.0	47.700	54.300	
	70	63.9	141.7	43.000	49.000	
	75	61.7	139.1	39.000	44.400	
	80	59.6	136.3	35.600	40.500	
85	57.3	133.3	32.500	37.100		
90	55.0	129.9	29.900	34.200		
95	52.7	126.2	27.600	31.600		
100	50.2	122.3	25.500	29.200		
105	47.7	117.9	23.600	27.100		
110	45.0	113.1	21.900	25.200		
115	42.3	107.9	20.400	23.500		
120	39.3	102.1	19.000	22.000		
125	36.2	95.7	17.700	20.600		
130	32.9	88.4	16.500	19.200		
135	29.2	80.1	15.400	18.000		
140	25.0	70.3	14.400	16.900		
145	19.9	58.2	13.500	15.900		
160	28	81.4	165.2	153.900	180.200	
	30	80.6	164.9	139.200	162.100	
	32	79.9	164.5	126.800	147.100	
	34	79.2	164.2	116.400	134.500	
	36	78.5	163.8	107.400	123.800	
	38	77.7	163.4	99.600	114.500	
	40	77.0	162.9	92.700	106.400	
	45	75.2	161.7	78.800	90.100	
	50	73.3	160.3	68.200	77.800	
	55	71.4	158.7	59.800	68.100	
	60	69.5	156.9	53.000	60.300	
	65	67.6	154.9	47.400	54.000	
	70	65.6	152.8	42.600	48.600	
	75	63.7	150.4	38.600	44.100	
	80	61.6	147.8	35.200	40.200	
85	59.6	145.0	32.200	36.800		
90	57.5	141.9	29.500	33.800		
95	55.3	138.6	27.200	31.200		
100	53.1	135.0	25.100	28.800		
105	50.9	131.1	23.200	26.800		

	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS	
					RETRACTED POUNDS	EXTENDED POUNDS
160	110	48.5	126.9	21.500	24.900	
	115	46.1	122.2	20.000	23.200	
	120	43.5	117.2	18.600	21.600	
	125	40.9	111.7	17.300	20.200	
	130	38.0	105.6	16.100	18.900	
	135	35.0	98.9	15.100	17.700	
	140	31.8	91.3	14.100	16.600	
	145	28.2	82.6	13.100	15.500	
	150	24.1	72.5	12.300	14.600	
	155	19.3	59.9	11.400	13.700	
170	30	81.2	175.0	138.800	161.700	
	32	80.5	174.7	126.400	146.700	
	34	79.8	174.3	116.000	134.100	
	36	79.2	174.0	107.000	123.400	
	38	78.5	173.6	99.100	114.100	
	40	77.8	173.1	92.300	106.000	
	45	76.0	172.0	78.400	89.700	
	50	74.3	170.7	67.700	77.400	
	55	72.5	169.2	59.300	67.700	
	60	70.8	167.5	52.500	59.900	
	65	69.0	165.7	46.900	53.500	
	70	67.2	163.7	42.200	48.200	
	75	65.3	161.5	38.200	43.600	
	80	63.4	159.1	34.700	39.700	
	85	61.5	156.5	31.700	36.300	
90	59.6	153.6	29.100	33.400		
95	57.6	150.6	26.700	30.700		
100	55.6	147.3	24.600	28.400		
105	53.6	143.7	22.800	26.300		
110	51.4	139.9	21.100	24.400		
115	49.2	135.8	19.500	22.700		
120	47.0	131.3	18.100	21.100		
125	44.6	126.4	16.900	19.700		
130	42.2	121.1	15.700	18.400		
135	39.6	115.4	14.600	17.200		
140	36.9	109.0	13.600	16.100		
145	34.0	102.0	12.700	15.100		
150	30.8	94.1	11.800	14.100		
155	27.3	85.1	11.000	13.200		
160	23.4	74.6	10.200	12.400		
165	18.7	61.6	9.500	11.600		
180	32	81.1	184.8	126.000	146.300	
	34	80.4	184.5	115.500	133.700	
	36	79.8	184.1	106.500	122.900	
	38	79.1	183.8	98.600	113.600	
	40	78.5	183.4	91.800	105.500	
	45	76.8	182.3	77.900	89.200	
	50	75.2	181.0	67.200	76.900	
	55	73.5	179.6	58.800	67.200	
	60	71.9	178.1	52.000	59.400	
	65	70.2	176.4	46.400	53.000	
	70	68.5	174.5	41.700	47.600	
	75	66.8	172.4	37.600	43.100	
	80	65.0	170.2	34.200	39.200	
	85	63.3	167.8	31.200	35.800	
	90	61.5	165.1	28.500	32.800	
95	59.6	162.3	26.200	30.200		
100	57.8	159.3	24.100	27.900		
105	55.9	156.0	22.200	25.800		
110	53.9	152.5	20.500	23.900		
115	51.9	148.7	19.000	22.200		
120	49.9	144.6	17.600	20.600		
125	47.8	140.3	16.300	19.200		
130	45.6	135.6	15.100	17.900		
135	43.3	130.5	14.000	16.700		
140	40.9	124.9	13.000	15.500		
145	38.4	118.9	12.100	14.500		
150	35.8	112.3	11.200	13.600		
155	33.0	105.0	10.400	12.700		
160	29.9	96.8	9.700	11.800		
165	26.6	87.5	9.000	11.100		
170	22.7	76.6	8.300	10.300		
175	18.2	63.2	7.600	9.600		

# MANITOWOC ENGINEERING CO.

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



## LIFT CRANE CAPACITIES

BOOM NO. 22C WITH OPEN THROAT TOP  
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	EXTENDED POUNDS
190	32	81.5	194.9	125,500	145,900
	34	80.9	194.6	115,000	133,300
	36	80.3	194.3	106,000	122,500
	38	79.7	193.9	98,200	113,200
	40	79.1	193.6	91,300	105,100
	45	77.5	192.5	77,400	88,800
	50	76.0	191.4	66,700	76,400
	55	74.4	190.0	58,300	66,700
	60	72.9	188.6	51,500	59,000
	65	71.3	186.9	45,900	52,500
	70	69.7	185.2	41,200	47,200
	75	68.1	183.2	37,200	42,600
	80	66.4	181.1	33,700	38,700
	85	64.8	178.9	30,700	35,300
	90	63.1	176.4	28,100	32,400
	95	61.4	173.8	25,700	29,700
	100	59.7	171.0	23,600	27,400
	105	57.9	167.9	21,700	25,300
	110	56.1	164.7	20,000	23,400
	115	54.3	161.2	18,500	21,700
120	52.4	157.5	17,100	20,100	
125	50.4	153.5	15,800	18,700	
130	48.5	149.2	14,600	17,400	
135	46.4	144.6	13,600	16,200	
140	44.3	139.7	12,600	15,100	
145	42.1	134.4	11,600	14,000	
150	39.8	128.6	10,800	13,100	
155	37.4	122.3	10,000	12,200	
160	34.8	115.5	9,200	11,400	
165	32.1	107.9	8,500	10,600	
170	29.1	99.4	7,700	9,900	
175	25.8	89.8	7,100	9,200	
180	22.1	78.6	6,400	8,500	
185	17.7	64.8	5,900	7,800	
200	34	81.4	204.7	114,700	132,900
	36	80.8	204.4	105,700	122,200
	38	80.2	204.1	97,800	112,900
	40	79.6	203.7	91,000	104,800
	45	78.2	202.8	77,000	88,400
	50	76.7	201.6	66,400	76,100
	55	75.2	200.4	58,000	66,400
	60	73.7	199.0	51,100	58,600
	65	72.2	197.5	45,500	52,200
	70	70.7	195.8	40,800	46,800
	75	69.2	194.0	36,800	42,300
	80	67.7	192.0	33,300	38,300
	85	66.1	189.9	30,300	34,900
	90	64.5	187.6	27,600	32,000
	95	62.9	185.1	25,300	29,300
	100	61.3	182.5	23,200	27,000
	105	59.7	179.6	21,300	24,900
	110	58.0	176.6	19,600	23,000
	115	56.3	173.4	18,100	21,300
	120	54.5	169.9	16,700	19,700
125	52.8	166.3	15,400	18,300	
130	50.9	162.3	14,200	17,000	
135	49.1	158.1	13,100	15,800	
140	47.2	153.6	12,100	14,700	
145	45.2	148.8	11,200	13,600	
150	43.1	143.7	10,300	12,700	
155	41.0	138.2	9,400	11,800	
160	38.7	132.2	8,600	10,900	
165	36.4	125.7	7,900	10,100	
170	33.9	118.6	7,100	9,300	
175	31.2	110.7	6,500	8,600	
180	28.4	102.0	5,800	7,900	
185	25.2	92.1	5,300	7,200	
190	21.6	80.5	4,700	6,600	
195	17.3	66.3	4,200	6,000	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS	
				RETRACTED POUNDS	EXTENDED POUNDS
210	36	81.2	214.6	105,200	121,800
	38	80.7	214.2	97,400	112,500
	40	80.1	213.9	90,500	104,300
	45	78.7	213.0	76,600	88,000
	50	77.3	211.9	65,900	75,600
	55	75.9	210.7	57,500	65,900
	60	74.5	209.4	50,700	58,100
	65	73.1	208.0	45,100	51,700
	70	71.7	206.4	40,300	46,400
	75	70.2	204.6	36,300	41,800
	80	68.8	202.8	32,900	37,900
	85	67.3	200.8	29,800	34,500
	90	65.8	198.6	27,200	31,500
	95	64.3	196.3	24,800	28,900
	100	62.8	193.8	22,700	26,500
	105	61.3	191.1	20,900	24,400
	110	59.7	188.3	19,200	22,500
	115	58.1	185.3	17,600	20,800
	120	56.5	182.1	16,200	19,300
	125	54.8	178.6	14,900	17,800
130	53.1	175.0	13,800	16,500	
135	51.4	171.1	12,700	15,300	
140	49.6	167.0	11,700	14,200	
145	47.8	162.6	10,700	13,200	
150	46.0	157.9	9,900	12,200	
155	44.0	152.9	9,100	11,300	
160	42.0	147.6	8,300	10,500	
165	39.9	141.8	7,500	9,700	
170	37.8	135.6	6,800	9,000	
175	35.5	128.9	6,100	8,200	
180	33.1	121.6	5,500	7,500	
185	30.5	113.5	4,900	6,900	
190	27.7	104.5	4,400	6,300	
195	24.6	94.3	4,000	5,700	
200	21.0	82.4	3,600	5,100	
220	38	81.1	224.4	96,900	112,000
	40	80.6	224.0	90,000	103,900
	45	79.3	223.2	76,100	87,500
	50	77.9	222.1	65,400	75,100
	55	76.6	221.0	57,000	65,400
	60	75.3	219.8	50,200	57,600
	65	73.9	218.4	44,500	51,200
	70	72.5	216.9	39,800	45,800
	75	71.2	215.2	35,800	41,300
	80	69.8	213.5	32,300	37,400
	85	68.4	211.6	29,300	34,000
	90	67.0	209.5	26,600	31,000
	95	65.6	207.3	24,300	28,300
	100	64.1	205.0	22,200	26,000
	105	62.7	202.5	20,300	23,900
	110	61.2	199.8	18,600	22,000
	115	59.7	196.9	17,100	20,300
	120	58.2	193.9	15,700	18,700
	125	56.6	190.7	14,400	17,300
	130	55.1	187.3	13,200	16,000
135	53.5	183.8	12,100	14,800	
140	51.8	179.9	11,100	13,700	
145	50.1	175.9	10,200	12,600	
150	48.4	171.6	9,300	11,700	
155	46.7	167.0	8,500	10,800	
160	44.8	162.1	7,700	9,900	
165	43.0	156.9	6,900	9,200	
170	41.0	151.4	6,200	8,400	
175	39.0	145.4	5,600	7,700	
180	36.9	139.0	4,900	7,000	
185	34.6	132.1	4,300	6,300	
190	32.3	124.5	3,800	5,700	
195	29.8	116.2	3,300	5,100	
200	27.0	106.9	2,900	4,500	

# MANITOWOC ENGINEERING CO.

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**LIFT CRANE CAPACITIES**  
**BOOM NO. 22C WITH OPEN THROAT TOP**  
**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
230	38	81.5	234.5	96,500	111,600
	40	81.0	234.2	89,600	103,500
	45	79.7	233.3	75,600	87,100
	50	78.5	232.4	64,900	74,700
	55	77.2	231.3	56,500	65,000
	60	75.9	230.1	49,700	57,200
	65	74.6	228.8	44,100	50,800
	70	73.3	227.3	39,300	45,400
	75	72.0	225.8	35,300	40,800
	80	70.7	224.1	31,800	36,900
	85	69.4	222.3	28,800	33,500
	90	68.0	220.3	26,200	30,500
	95	66.7	218.2	23,800	27,900
	100	65.3	216.0	21,700	25,500
	105	64.0	213.6	19,800	23,400
	110	62.6	211.1	18,100	21,500
	115	61.1	208.4	16,600	19,800
	120	59.7	205.6	15,200	18,200
	125	58.3	202.6	13,900	16,800
	130	56.8	199.4	12,700	15,500
135	55.3	196.1	11,600	14,300	
140	53.8	192.5	10,600	13,200	
145	52.2	188.7	9,700	12,100	
150	50.6	184.7	8,800	11,200	
155	49.0	180.5	8,000	10,300	
160	47.3	176.0	7,200	9,500	
165	45.6	171.3	6,400	8,700	
170	43.8	166.2	5,700	7,900	
175	42.0	160.8	5,000	7,100	
180	40.1	155.1	4,400	6,400	
185	38.1	148.9		5,800	
190	36.0	142.3		5,200	
195	33.9	135.1		4,600	
200	31.6	127.4		4,000	
240	40	81.4	244.3	89,200	103,100
	45	80.2	243.5	75,200	86,700
	50	78.9	242.6	64,500	74,300
	55	77.7	241.5	56,100	64,600
	60	76.5	240.4	49,300	56,800
	65	75.3	239.1	43,700	50,400
	70	74.0	237.8	38,900	45,000
	75	72.8	236.3	34,900	40,400
	80	71.5	234.7	31,400	35,500
	85	70.3	232.9	28,400	33,100
	90	69.0	231.1	25,700	30,100
	95	67.7	229.1	23,400	27,500
	100	66.4	227.0	21,300	25,100
	105	65.1	224.7	19,400	23,000
	110	63.8	222.3	17,700	21,100
	115	62.5	219.8	16,200	19,400
	120	61.1	217.1	14,800	17,800
	125	59.7	214.3	13,500	16,400
	130	58.3	211.3	12,300	15,100
	135	56.9	208.1	11,200	13,900
140	55.5	204.8	10,200	12,800	
145	54.0	201.2	9,200	11,700	
150	52.5	197.5	8,300	10,800	
155	51.0	193.6	7,400	9,900	
160	49.5	189.4	6,600	9,000	
165	47.9	185.0	5,900	8,100	
170	46.2	180.3	5,200	7,300	
175	44.6	175.4	4,500	6,600	
180	42.8	170.2		5,900	
185	41.0	164.6		5,200	
190	39.2	158.7		4,600	
195	37.3	152.3		4,000	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS
250	45	80.6	253.6	74,800	86,300
	50	79.4	252.7	64,100	73,900
	55	78.2	251.7	55,700	64,100
	60	77.1	250.7	48,800	56,300
	65	75.9	249.4	43,200	49,900
	70	74.7	248.1	38,500	44,500
	75	73.5	246.7	34,400	40,000
	80	72.3	245.2	31,000	36,000
	85	71.1	243.5	27,900	32,600
	90	69.9	241.7	25,300	29,600
	95	68.7	239.9	22,900	27,000
	100	67.4	237.8	20,800	24,600
	105	66.2	235.7	18,900	22,500
	110	64.9	233.4	17,200	20,600
	115	63.6	231.0	15,700	18,900
	120	62.4	228.5	14,300	17,400
	125	61.1	225.8	13,000	15,900
	130	59.7	222.9	11,800	14,600
	135	58.4	219.9	10,700	13,400
	140	57.0	216.8	9,700	12,300
145	55.7	213.4	8,800	11,300	
150	54.3	209.9	7,900	10,300	
155	52.8	206.3	7,100	9,400	
160	51.4	202.4	6,300	8,600	
165	49.9	198.3	5,500	7,800	
170	48.4	193.9	4,800	7,000	
175	46.8	189.4	4,100	6,200	
180	45.3	184.6		5,500	
185	43.6	179.5		4,900	
190	41.9	174.1		4,300	
260	45	80.9	263.8	74,300	85,800
	50	79.8	262.9	63,600	73,400
	55	78.7	262.0	55,200	63,700
	60	77.6	260.9	48,300	55,800
	65	76.4	259.7	42,700	49,400
	70	75.3	258.5	37,900	44,000
	75	74.2	257.1	33,900	39,500
	80	73.0	255.6	30,400	35,500
	85	71.8	254.1	27,400	32,100
	90	70.7	252.4	24,700	29,100
	95	69.5	250.6	22,400	26,500
	100	68.3	248.6	20,300	24,100
	105	67.1	246.6	18,400	22,000
	110	65.9	244.4	16,700	20,100
	115	64.7	242.1	15,200	18,400
120	63.5	239.7	13,800	16,800	
125	62.3	237.1	12,500	15,400	
130	61.0	234.4	11,300	14,100	
135	59.7	231.6	10,200	12,900	
140	58.5	228.6	9,200	11,800	
145	57.2	225.5	8,300	10,700	
150	55.8	222.1	7,400	9,800	
155	54.5	218.7	6,500	8,900	
160	53.1	215.0	5,700	8,000	
165	51.7	211.2	4,900	7,200	
170	50.3	207.1	4,200	6,400	
175	48.9	202.9		5,700	
180	47.4	198.4		5,000	
185	45.9	193.7		4,300	