

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	
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	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 CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS
80	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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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
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
100	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
	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
110	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
	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	CAPACITY CRAWLERS 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
130	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
	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	CAPACITY CRAWLERS EXTENDED POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS
140	26	81.0	145.3	172,600	203,200	160	110	48.5	126.9	21,500	24,900
	28	80.1	144.9	154,700	180,900		115	46.1	122.2	20,000	23,200
	30	79.3	144.6	139,900	162,800		120	43.5	117.2	18,600	21,600
	32	78.5	144.2	127,600	147,800		125	40.9	111.7	17,300	20,200
	34	77.6	143.8	117,100	135,200		130	38.0	105.6	16,100	18,900
	36	76.8	143.3	108,100	124,500		135	35.0	98.9	15,100	17,700
	38	75.9	142.8	100,300	115,200		140	31.8	91.3	14,100	16,600
	40	75.1	142.3	93,500	107,200		145	28.2	82.6	13,100	15,500
	45	73.0	140.9	79,600	90,900		150	24.1	72.5	12,300	14,600
	50	70.8	139.2	69,000	78,600		155	19.3	59.9	11,400	13,700
	55	68.6	137.4	60,600	68,900	170	30	81.2	175.0	138,800	161,700
	60	66.4	135.3	53,800	61,100		32	80.5	174.7	126,400	146,700
	65	64.2	133.0	48,200	54,700		34	79.8	174.3	116,000	134,100
	70	61.9	130.5	43,500	49,400		36	79.2	174.0	107,000	123,400
	75	59.5	127.7	39,500	44,900		38	78.5	173.6	99,100	114,100
	80	57.1	124.6	36,000	41,000		40	77.8	173.1	92,300	106,000
	85	54.6	121.2	33,000	37,600		45	76.0	172.0	78,400	89,700
	90	52.1	117.5	30,400	34,600		50	74.3	170.7	67,700	77,400
	95	49.5	113.4	28,000	32,000		55	72.5	169.2	59,300	67,700
	100	46.7	108.9	25,900	29,700		60	70.8	167.5	52,500	59,900
	105	43.8	104.0	24,000	27,600		65	69.0	165.7	46,900	53,500
	110	40.8	98.5	22,400	25,700		70	67.2	163.7	42,200	48,200
	115	37.5	92.3	20,800	24,000		75	65.3	161.5	38,200	43,600
	120	34.0	85.4	19,400	22,400		80	63.4	159.1	34,700	39,700
	125	30.2	77.4	18,200	21,000		85	61.5	156.5	31,700	36,300
	130	25.8	68.0	17,000	19,700		90	59.6	153.6	29,100	33,400
	135	20.7	56.4	15,900	18,500		95	57.6	150.6	26,700	30,700
150	28	80.8	155.1	154,200	180,500		100	55.6	147.3	24,600	28,400
	30	80.0	154.7	139,500	162,400		105	53.6	143.7	22,800	26,300
	32	79.2	154.4	127,200	147,400		110	51.4	139.9	21,100	24,400
	34	78.5	154.0	116,700	134,800		115	49.2	135.8	19,500	22,700
	36	77.7	153.6	107,700	124,100		120	47.0	131.3	18,100	21,100
	38	76.9	153.1	99,900	114,800		125	44.6	126.4	16,900	19,700
	40	76.1	152.6	93,100	106,700		130	42.2	121.1	15,700	18,400
	45	74.1	151.3	79,100	90,500		135	39.6	115.4	14,600	17,200
	50	72.1	149.8	68,500	78,100		140	36.9	109.0	13,600	16,100
	55	70.1	148.1	60,100	68,500		145	34.0	102.0	12,700	15,100
	60	68.1	146.2	53,300	60,700		150	30.8	94.1	11,800	14,100
	65	66.0	144.0	47,700	54,300		155	27.3	85.1	11,000	13,200
	70	63.9	141.7	43,000	49,000		160	23.4	74.6	10,200	12,400
	75	61.7	139.1	39,000	44,400		165	18.7	61.6	9,500	11,600
	80	59.6	136.3	35,600	40,500	180	32	81.1	184.8	126,000	146,300
	85	57.3	133.3	32,500	37,100		34	80.4	184.5	115,500	133,700
	90	55.0	129.9	29,900	34,200		36	79.8	184.1	106,500	122,900
	95	52.7	126.2	27,600	31,600		38	79.1	183.8	98,600	113,600
	100	50.2	122.3	25,500	29,200		40	78.5	183.4	91,800	105,500
	105	47.7	117.9	23,600	27,100		45	76.8	182.3	77,900	89,200
	110	45.0	113.1	21,900	25,200		50	75.2	181.0	67,200	76,900
	115	42.3	107.9	20,400	23,500		55	73.5	179.6	58,800	67,200
	120	39.3	102.1	19,000	22,000		60	71.9	178.1	52,000	59,400
	125	36.2	95.7	17,700	20,600		65	70.2	176.4	46,400	53,000
	130	32.9	88.4	16,500	19,200		70	68.5	174.5	41,700	47,600
	135	29.2	80.1	15,400	18,000		75	66.8	172.4	37,600	43,100
	140	25.0	70.3	14,400	16,900		80	65.0	170.2	34,200	39,200
	145	19.9	58.2	13,500	15,900		85	63.3	167.8	31,200	35,800
160	28	81.4	165.2	153,900	180,200		90	61.5	165.1	28,500	32,800
	30	80.6	164.9	139,200	162,100		95	59.6	162.3	26,200	30,200
	32	79.9	164.5	126,800	147,100		100	57.8	159.3	24,100	27,900
	34	79.2	164.2	116,400	134,500		105	55.9	156.0	22,200	25,800
	36	78.5	163.8	107,400	123,800		110	53.9	152.5	20,500	23,900
	38	77.7	163.4	99,600	114,500		115	51.9	148.7	19,000	22,200
	40	77.0	162.9	92,700	106,400		120	49.9	144.6	17,600	20,600
	45	75.2	161.7	78,800	90,100		125	47.8	140.3	16,300	19,200
	50	73.3	160.3	68,200	77,800		130	45.6	135.6	15,100	17,900
	55	71.4	158.7	59,800	68,100		135	43.3	130.5	14,000	16,700
	60	69.5	156.9	53,000	60,300		140	40.9	124.9	13,000	15,500
	65	67.6	154.9	47,400	54,000		145	38.4	118.9	12,100	14,500
	70	65.6	152.8	42,600	48,600		150	35.8	112.3	11,200	13,600
	75	63.7	150.4	38,600	44,100		155	33.0	105.0	10,400	12,700
	80	61.6	147.8	35,200	40,200		160	29.9	96.8	9,700	11,800
	85	59.6	145.0	32,200	36,800		165	26.6	87.5	9,000	11,100
	90	57.5	141.9	29,500	33,800		170	22.7	76.6	8,300	10,300
	95	55.3	138.6	27,200	31,200		175	18.2	63.2	7,600	9,600
	100	53.1	135.0	25,100	28,800						
	105	50.9	131.1	23,200	26,800						

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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	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS
190	32	81.5	194.9	125,500	145,900	210	36	81.2	214.6	105,200	121,800
	34	80.9	194.6	115,000	133,300		38	80.7	214.2	97,400	112,500
	36	80.3	194.3	106,000	122,500		40	80.1	213.9	90,500	104,300
	38	79.7	193.9	98,200	113,200		45	78.7	213.0	76,600	88,000
	40	79.1	193.6	91,300	105,100		50	77.3	211.9	65,900	75,600
	45	77.5	192.5	77,400	88,800		55	75.9	210.7	57,500	65,900
	50	76.0	191.4	66,700	76,400		60	74.5	209.4	50,700	58,100
	55	74.4	190.0	58,300	66,700		65	73.1	208.0	45,100	51,700
	60	72.9	188.6	51,500	59,000		70	71.7	206.4	40,300	46,400
	65	71.3	186.9	45,900	52,500		75	70.2	204.6	36,300	41,800
	70	69.7	185.2	41,200	47,200		80	68.8	202.8	32,900	37,900
	75	68.1	183.2	37,200	42,600		85	67.3	200.8	29,800	34,500
	80	66.4	181.1	33,700	38,700		90	65.8	198.6	27,200	31,500
	85	64.8	178.9	30,700	35,300		95	64.3	196.3	24,800	28,900
	90	63.1	176.4	28,100	32,400		100	62.8	193.8	22,700	26,500
	95	61.4	173.8	25,700	29,700		105	61.3	191.1	20,900	24,400
	100	59.7	171.0	23,600	27,400		110	59.7	188.3	19,200	22,500
	105	57.9	167.9	21,700	25,300		115	58.1	185.3	17,600	20,800
	110	56.1	164.7	20,000	23,400		120	56.5	182.1	16,200	19,300
	115	54.3	161.2	18,500	21,700		125	54.8	178.6	14,900	17,800
200	120	52.4	157.5	17,100	20,100	220	130	53.1	175.0	13,800	16,500
	125	50.4	153.5	15,800	18,700		135	51.4	171.1	12,700	15,300
	130	48.5	149.2	14,600	17,400		140	49.6	167.0	11,700	14,200
	135	46.4	144.6	13,600	16,200		145	47.8	162.6	10,700	13,200
	140	44.3	139.7	12,600	15,100		150	46.0	157.9	9,900	12,200
	145	42.1	134.4	11,600	14,000		155	44.0	152.9	9,100	11,300
	150	39.8	128.6	10,800	13,100		160	42.0	147.6	8,300	10,500
	155	37.4	122.3	10,000	12,200		165	39.9	141.8	7,500	9,700
	160	34.8	115.5	9,200	11,400		170	37.8	135.6	6,800	9,000
	165	32.1	107.9	8,500	10,600		175	35.5	128.9	6,100	8,200
	170	29.1	99.4	7,700	9,900		180	33.1	121.6	5,500	7,500
	175	25.8	89.8	7,100	9,200		185	30.5	113.5	4,900	6,900
	180	22.1	78.6	6,400	8,500		190	27.7	104.5	4,400	6,300
	185	17.7	64.8	5,900	7,800		195	24.6	94.3	4,000	5,700
							200	21.0	82.4		5,100
	34	81.4	204.7	114,700	132,900		38	81.1	224.4	96,900	112,000
	36	80.8	204.4	105,700	122,200		40	80.6	224.0	90,000	103,900
	38	80.2	204.1	97,800	112,900		45	79.3	223.2	76,100	87,500
	40	79.6	203.7	91,000	104,800		50	77.9	222.1	65,400	75,100
	45	78.2	202.8	77,000	88,400		55	76.6	221.0	57,000	65,400
	50	76.7	201.6	66,400	76,100		60	75.3	219.8	50,200	57,600
	55	75.2	200.4	58,000	66,400		65	73.9	218.4	44,500	51,200
	60	73.7	199.0	51,100	58,600		70	72.5	216.9	39,800	45,800
	65	72.2	197.5	45,500	52,200		75	71.2	215.2	35,800	41,300
	70	70.7	195.8	40,800	46,800		80	69.8	213.5	32,300	37,400
	75	69.2	194.0	36,800	42,300		85	68.4	211.6	29,300	34,000
	80	67.7	192.0	33,300	38,300		90	67.0	209.5	26,600	31,000
	85	66.1	189.9	30,300	34,900		95	65.6	207.3	24,300	28,300
	90	64.5	187.6	27,600	32,000		100	64.1	205.0	22,200	26,000
	95	62.9	185.1	25,300	29,300		105	62.7	202.5	20,300	23,900
	100	61.3	182.5	23,200	27,000		110	61.2	199.8	18,600	22,000
	105	59.7	179.6	21,300	24,900		115	59.7	196.9	17,100	20,300
	110	58.0	176.6	19,600	23,000		120	58.2	193.9	15,700	18,700
	115	56.3	173.4	18,100	21,300		125	56.6	190.7	14,400	17,300
	120	54.5	169.9	16,700	19,700		130	55.1	187.3	13,200	16,000
	125	52.8	166.3	15,400	18,300		135	53.5	183.8	12,100	14,800
	130	50.9	162.3	14,200	17,000		140	51.8	179.9	11,100	13,700
	135	49.1	158.1	13,100	15,800		145	50.1	175.9	10,200	12,600
	140	47.2	153.6	12,100	14,700		150	48.4	171.6	9,300	11,700
	145	45.2	148.8	11,200	13,600		155	46.7	167.0	8,500	10,800
	150	43.1	143.7	10,300	12,700		160	44.8	162.1	7,700	9,900
	155	41.0	138.2	9,400	11,800		165	43.0	156.9	6,900	9,200
	160	38.7	132.2	8,600	10,900		170	41.0	151.4	6,200	8,400
	165	36.4	125.7	7,900	10,100		175	39.0	145.4	5,600	7,700
	170	33.9	118.6	7,100	9,300		180	36.9	139.0	4,900	7,000
	175	31.2	110.7	6,500	8,600		185	34.6	132.1	4,300	6,300
	180	28.4	102.0	5,800	7,900		190	32.3	124.5		5,700
	185	25.2	92.1	5,300	7,200		195	29.8	116.2		5,100
	190	21.6	80.5	4,700	6,600		200	27.0	106.9		4,500
	195	17.3	66.3	4,200	6,000						

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

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
240	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
	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
260	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
	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