

MANITOWOC ENGINEERING CO.

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



LIFTCRANE CAPACITIES

BOOM NO. 39 WITH OPEN THROAT TOP
102,400 LB. COUNTERWEIGHT
360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS

3950W

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 22,500 LBS. IN ALL CASES, UPPER BOOM POINT CAPACITIES CANNOT EXCEED THOSE LISTED FOR THE MAIN BOOM CAPACITY.

WEIGHT OF 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. 160926 AND WIRE ROPE SPECIFICATION CHART NO. 6668-A. CRANE OPERATOR JUDGMENT MUST BE USED TO ALLOW FOR DYNAMIC LOAD EFFECTS OF SWINGING, HOISTING OR LOWERING, TRAVEL, WIND CONDITIONS, AS WELL AS ADVERSE OPERATING CONDITIONS AND PHYSICAL MACHINE DEPRECIATION.

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 24' EXTENDIBLE CRAWLERS, 48" TREADS, 16'6" RETRACTABLE GANTRY, 12 PART BOOM HOIST REEVING, FOUR 1-1/4" BOOM PENDANTS, 1ST COUNTERWEIGHT = 43,000 LBS., 2ND COUNTERWEIGHT = 30,000 LBS., AND 3RD COUNTERWEIGHT = 29,400 LBS.

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED								
OVER END OF BLOCKED CRAWLERS			OVER SIDE OF EXTENDED CRAWLERS			OVER SIDE OF RETRACTED CRAWLERS		
BOOM LGTH.	JIB NO. 123	JIB NO. 124	BOOM LGTH.	JIB NO. 123	JIB NO. 124	BOOM LGTH.	JIB NO. 123	JIB NO. 124
260'	---	---	240'	---	---	230'	---	---
250'	---	---	230'	---	---	220'	---	---
240'	30'	50'	220'	40'	60'	210'	30'	50'
230'	50'	60'	210'	60'	60'	200'	50'	60'
220'	60'	60'				190'	60'	60'

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

DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED		
JIB LGTH.	JIB NO. 123	JIB NO. 124
30'	2,500 LBS.	1,800 LBS.
40'	3,100 LBS.	2,100 LBS.
50'	3,700 LBS.	2,300 LBS.
60'	4,400 LBS.	2,500 LBS.

CONSULT JIB CHART FOR JIB CAPACITIES.

70	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS
	16	80.1	76.0	300,000b*	300,000*	
	17	79.3	75.8	287,800b*	287,800*	
	18	78.5	75.6	273,600b*	274,200*	
	19	77.6	75.4	249,100b	261,800*	
	20	76.8	75.2	228,500b	250,400*	
	22	75.1	74.7	195,900b	230,200*	
	24	73.4	74.1	171,200b	202,700	
	26	71.7	73.5	151,900b	178,300	
	28	69.9	72.8	136,400b	159,000	
	30	68.2	72.0	123,600b	143,300	
	32	66.4	71.2	113,000b	130,400	
	34	64.6	70.3	103,900b	119,500	
	36	62.8	69.3	96,100b	110,200	
38	60.9	68.2	89,400b	102,200		
40	59.1	67.0	83,500b	95,200		
45	54.1	63.7	71,400	81,200		
50	48.9	59.8	62,200	70,500		
55	43.2	55.0	55,000	62,200		
60	36.9	49.0	49,100	55,400		
65	29.4	41.3	44,200	49,900		
70	19.5	30.3	40,200	45,300		

80	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS
	16	81.4	86.1	288,900b*	288,900*	
	17	80.6	85.9	283,500b*	283,500*	
	18	79.9	85.8	273,300b*	273,300*	
	19	79.2	85.6	248,800b	260,900*	
	20	78.5	85.4	228,200b	249,500*	
	22	77.0	85.0	195,600b	229,400*	
	24	75.5	84.5	170,900b	202,400	
	26	74.0	83.9	151,600b	178,000	
	28	72.5	83.3	136,000b	158,700	
	30	71.0	82.7	123,300b	143,000	
	32	69.5	81.9	112,600b	130,100	
	34	68.0	81.2	103,600b	119,200	
	36	66.4	80.3	95,800b	109,900	
38	64.8	79.4	89,000b	101,900		
40	63.3	78.4	83,100b	94,900		
45	59.2	75.7	71,000	80,800		
50	54.9	72.5	61,800	70,100		
55	50.4	68.6	54,600	61,800		
60	45.6	64.1	48,700	55,100		
65	40.3	58.8	43,900	49,500		
70	34.4	52.2	39,800	44,900		
75	27.4	43.9	36,300	41,000		
80	18.2	32.0	33,300	37,600		

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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	18	81.1	95.9	256,800b*	256,800*
	19	80.4	95.7	248,600b	252,300*
	20	79.8	95.6	227,900b	248,000*
	22	78.5	95.2	195,300b	228,500*
	24	77.2	94.8	170,600b	202,200
	26	75.9	94.3	151,200b	177,700
	28	74.5	93.7	135,700b	158,400
	30	73.2	93.2	122,900b	142,700
	32	71.9	92.5	112,200b	129,800
	34	70.5	91.9	103,200b	118,900
	36	69.2	91.1	95,400b	109,600
	38	67.8	90.3	88,600	101,500
	40	66.4	89.5	82,700	94,500
	45	62.9	87.1	70,600	80,400
	50	59.3	84.4	61,400	69,800
	55	55.5	81.2	54,200	61,400
	60	51.5	77.5	48,300	54,700
	65	47.3	73.2	43,400	49,100
100	70	42.8	68.2	39,300	44,500
	75	37.9	62.3	35,900	40,600
	80	32.4	55.2	32,900	37,200
	85	25.8	46.2	30,300	34,300
	90	17.1	33.5	28,000	31,700
	19	81.4	105.9	244,100b*	244,100*
	20	80.8	105.7	227,600b	240,100*
	22	79.6	105.4	194,900b	227,100*
	24	78.5	105.0	170,200b	201,800
	26	77.3	104.6	150,800b	177,400
	28	76.1	104.1	135,300b	158,000
	30	74.9	103.6	122,500b	142,400
	32	73.7	103.0	111,800b	129,400
	34	72.5	102.4	102,700	118,500
	36	71.3	101.7	94,900	109,100
	38	70.1	101.0	88,200	101,100
	40	68.9	100.3	82,200	94,100
	45	65.8	98.2	70,200	80,000
110	50	62.6	95.8	61,000	69,300
	55	59.3	93.0	53,700	60,900
	60	55.9	89.9	47,800	54,200
	65	52.4	86.2	42,900	48,600
	70	48.7	82.1	38,800	44,000
	75	44.8	77.4	35,400	40,100
	80	40.5	72.0	32,400	36,700
	85	35.9	65.6	29,800	33,800
	90	30.7	58.0	27,500	31,200
	95	24.5	48.5	25,400	28,900
	100	16.3	35.0	23,600	26,900
	22	80.6	115.5	185,800b*	185,800*
	24	79.5	115.2	169,800b	180,200*
	26	78.5	114.8	150,400b	174,900*
	28	77.4	114.4	134,900b	157,700
	30	76.3	113.9	122,100b	142,000
	32	75.3	113.4	111,400	129,000
	34	74.2	112.8	102,300	118,100
	36	73.1	112.2	94,500	108,700
	38	72.0	111.6	87,700	100,700
120	40	70.9	110.9	81,800	93,700
	45	68.1	109.1	69,700	79,600
	50	65.3	106.9	60,500	68,900
	55	62.4	104.5	53,200	60,500
	60	59.4	101.7	47,300	53,700
	65	56.3	98.5	42,500	48,200
	70	53.1	95.0	38,400	43,500
	75	49.8	91.0	34,900	39,600
	80	46.3	86.5	31,900	36,200
	85	42.6	81.4	29,300	33,300
	90	38.6	75.6	27,000	30,700
	95	34.2	68.8	25,000	28,400
	100	29.2	60.7	23,100	26,400
	105	23.3	50.6	21,500	24,600
	110	15.5	36.4	20,100	23,000
130	22	81.4	125.6	178,400b*	178,400*
	24	80.4	125.3	169,500b	173,000*
	26	79.4	125.0	150,100b	167,900*
	28	78.5	124.6	134,600b	157,400
	30	77.5	124.2	121,800	141,700
	32	76.5	123.7	111,100	128,700
	34	75.5	123.2	102,000	117,700
	36	74.5	122.7	94,200	108,400
	38	73.5	122.1	87,400	100,400
	40	72.5	121.5	81,400	93,400
	45	70.0	119.8	69,400	79,200
	50	67.5	117.8	60,100	68,500
	55	64.8	115.6	52,900	60,100
	60	62.2	113.1	47,000	53,400
	65	59.4	110.3	42,100	47,800
	70	56.6	107.2	38,000	43,200
	75	53.7	103.7	34,500	39,300
	80	50.7	99.9	31,500	35,900
140	85	47.5	95.5	28,900	32,900
	90	44.2	90.7	26,600	30,400
	95	40.7	85.2	24,600	28,100
	100	36.9	79.0	22,800	26,000
	105	32.7	71.8	21,100	24,200
	110	28.0	63.3	19,700	22,600
	115	22.3	52.6	18,400	21,100
	24	81.2	135.5	167,900b*	167,900*
	26	80.3	135.1	149,900b	163,000*
	28	79.4	134.8	134,300	157,200
	30	78.5	134.4	121,500	141,500
	32	77.6	134.0	110,800	128,500
	34	76.7	133.5	101,700	117,500
	36	75.7	133.0	93,900	108,200
	38	74.8	132.5	87,100	100,100
	40	73.9	131.9	81,200	93,100
	45	71.6	130.4	69,100	79,000
	50	69.3	128.6	59,900	68,300
	55	66.9	126.6	52,600	59,900
150	60	64.5	124.3	46,700	53,100
	65	62.0	121.8	41,800	47,600
	70	59.5	119.0	37,700	42,900
	75	56.9	115.9	34,200	39,000
	80	54.2	112.5	31,200	35,600
	85	51.5	108.7	28,600	32,700
	90	48.6	104.5	26,300	30,100
	95	45.6	99.8	24,300	27,800
	100	42.4	94.7	22,500	25,800
	105	39.0	88.9	20,900	23,900
	110	35.4	82.3	19,400	22,300
	115	31.4	74.7	18,100	20,800
	120	26.8	65.7	16,800	19,500
	125	21.4	54.5	15,700	18,200

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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	149,600	156,200*	160	105	50.9	131.1	19,600	22,700
	28	80.1	144.9	134,000	151,800*		110	48.5	126.9	18,200	21,100
	30	79.3	144.6	121,200	141,200		115	46.1	122.2	16,800	19,600
	32	78.5	144.2	110,500	128,200		120	43.5	117.2	15,600	18,200
	34	77.6	143.8	101,400	117,200		125	40.9	111.7	14,500	17,000
	36	76.8	143.3	93,600	107,900		130	38.0	105.6	13,500	15,900
	38	75.9	142.8	86,800	99,800		135	35.0	98.9	12,500	14,800
	40	75.1	142.3	80,800	92,800		140	31.8	91.3	11,700	13,900
	45	73.0	140.9	68,800	78,600		145	28.2	82.6	10,900	13,000
	50	70.8	139.2	59,500	67,900		150	24.1	72.5	10,100	12,100
	55	68.6	137.4	52,200	59,500		155	19.3	59.9	9,400	11,400
	60	66.4	135.3	46,300	52,800	170	30	81.2	175.0	120,200	122,700*
	65	64.2	133.0	41,500	47,200		32	80.5	174.7	109,500	119,800*
	70	61.9	130.5	37,400	42,600		34	79.8	174.3	100,400	116,300
	75	59.5	127.7	33,900	38,600		36	79.2	174.0	92,600	106,900
	80	57.1	124.6	30,900	35,200		38	78.5	173.6	85,800	98,900
	85	54.6	121.2	28,300	32,300		40	77.8	173.1	79,800	91,800
	90	52.1	117.5	26,000	29,700		45	76.0	172.0	67,700	77,600
	95	49.5	113.4	23,900	27,400		50	74.3	170.7	58,500	66,900
	100	46.7	108.9	22,100	25,400		55	72.5	169.2	51,200	58,500
	105	43.8	104.0	20,500	23,600		60	70.8	167.5	45,300	51,700
	110	40.8	98.5	19,000	21,900		65	69.0	165.7	40,400	46,200
	115	37.5	92.3	17,700	20,400		70	67.2	163.7	36,300	41,500
	120	34.0	85.4	16,500	19,100		75	65.3	161.5	32,800	37,600
	125	30.2	77.4	15,400	17,900		80	63.4	159.1	29,800	34,200
	130	25.8	68.0	14,300	16,700		85	61.5	156.5	27,200	31,200
	135	20.7	56.4	13,400	15,700		90	59.6	153.6	24,900	28,600
150	28	80.8	155.1	133,600	136,200*		95	57.6	150.6	22,800	26,300
	30	80.0	154.7	120,800	132,900*		100	55.6	147.3	21,000	24,300
	32	79.2	154.4	110,100	127,800		105	53.6	143.7	19,400	22,500
	34	78.5	154.0	101,000	116,800		110	51.4	139.9	17,900	20,800
	36	77.7	153.6	93,200	107,500		115	49.2	135.8	16,600	19,300
	38	76.9	153.1	86,400	99,400		120	47.0	131.3	15,400	18,000
	40	76.1	152.6	80,400	92,400		125	44.6	126.4	14,200	16,800
	45	74.1	151.3	68,300	78,200		130	42.2	121.1	13,200	15,600
	50	72.1	149.8	59,100	67,500		135	39.6	115.4	12,300	14,600
	55	70.1	148.1	51,800	59,100		140	36.9	109.0	11,400	13,600
	60	68.1	146.2	45,900	52,300		145	34.0	102.0	10,600	12,700
	65	66.0	144.0	41,000	46,800		150	30.8	94.1	9,900	11,900
	70	63.9	141.7	36,900	42,100		155	27.3	85.1	9,200	11,100
	75	61.7	139.1	33,400	38,200		160	23.4	74.6	8,500	10,400
	80	59.6	136.3	30,400	34,800		165	18.7	61.6	7,900	9,700
	85	57.3	133.3	27,800	31,800	180	32	81.1	184.8	109,200	112,900*
	90	55.0	129.9	25,500	29,200		34	80.4	184.5	100,100	110,400*
	95	52.7	126.2	23,500	27,000		36	79.8	184.1	92,300	106,700
	100	50.2	122.3	21,600	24,900		38	79.1	183.8	85,500	98,600
	105	47.7	117.9	20,000	23,100		40	78.5	183.4	79,500	91,500
	110	45.0	113.1	18,500	21,500		45	76.8	182.3	67,400	77,400
	115	42.3	107.9	17,200	20,000		50	75.2	181.0	58,200	66,600
	120	39.3	102.1	16,000	18,600		55	73.5	179.6	50,900	58,200
	125	36.2	95.7	14,900	17,400		60	71.9	178.1	44,900	51,400
	130	32.9	88.4	13,900	16,300		65	70.2	176.4	40,100	45,900
	135	29.2	80.1	12,900	15,200		70	68.5	174.5	36,000	41,200
	140	25.0	70.3	12,100	14,200		75	66.8	172.4	32,500	37,200
	145	19.9	58.2	11,200	13,400		80	65.0	170.2	29,500	33,800
160	28	81.4	165.2	131,600*	131,600*		85	63.3	167.8	26,800	30,900
	30	80.6	164.9	120,400	128,500*		90	61.5	165.1	24,500	28,300
	32	79.9	164.5	109,700	125,500*		95	59.6	162.3	22,500	26,000
	34	79.2	164.2	100,600	116,500		100	57.8	159.3	20,700	24,000
	36	78.5	163.8	92,800	107,100		105	55.9	156.0	19,000	22,200
	38	77.7	163.4	86,000	99,100		110	53.9	152.5	17,600	20,500
	40	77.0	162.9	80,000	92,000		115	51.9	148.7	16,200	19,000
	45	75.2	161.7	67,900	77,900		120	49.9	144.6	15,000	17,700
	50	73.3	160.3	58,700	67,100		125	47.8	140.3	13,900	16,400
	55	71.4	158.7	51,400	58,700		130	45.6	135.6	12,900	15,300
	60	69.5	156.9	45,500	52,000		135	43.3	130.5	11,900	14,200
	65	67.6	154.9	40,600	46,400		140	40.9	124.9	11,100	13,300
	70	65.6	152.8	36,500	41,700		145	38.4	118.9	10,300	12,400
	75	63.7	150.4	33,000	37,800		150	35.8	112.3	9,500	11,600
	80	61.6	147.8	30,000	34,400		155	33.0	105.0	8,800	10,800
	85	59.6	145.0	27,400	31,500		160	29.9	96.8	8,200	10,100
	90	57.5	141.9	25,100	28,900		165	26.6	87.5	7,600	9,400
	95	55.3	138.6	23,100	26,600		170	22.7	76.6	7,000	8,700
	100	53.1	135.0	21,300	24,500		175	18.2	63.2	6,400	8,100

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REQUIREMENTS

3950W

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS
190	34	80.9	194.6	99,700	102,700*
	36	80.3	194.3	91,900	100,600*
	38	79.7	193.9	85,100	98,200
	40	79.1	193.6	79,100	91,200
	45	77.5	192.5	67,000	77,000
	50	76.0	191.4	57,700	66,200
	55	74.4	190.0	50,400	57,800
	60	72.9	188.6	44,500	51,000
	65	71.3	186.9	39,600	45,400
	70	69.7	185.2	35,500	40,800
	75	68.1	183.2	32,000	36,800
	80	66.4	181.1	29,000	33,400
	85	64.8	178.9	26,400	30,500
	90	63.1	176.4	24,100	27,900
	95	61.4	173.8	22,000	25,600
	100	59.7	171.0	20,200	23,500
	105	57.9	167.9	18,600	21,700
	110	56.1	164.7	17,100	20,100
	115	54.3	161.2	15,800	18,600
	120	52.4	157.5	14,600	17,200
200	125	50.4	153.5	13,400	16,000
	130	48.5	149.2	12,400	14,800
	135	46.4	144.6	11,500	13,800
	140	44.3	139.7	10,600	12,800
	145	42.1	134.4	9,800	11,900
	150	39.8	128.6	9,100	11,100
	155	37.4	122.3	8,400	10,300
	160	34.8	115.5	7,700	9,600
	165	32.1	107.9	7,100	8,900
	170	29.1	99.4	6,500	8,300
	175	25.8	89.8	6,000	7,700
	180	22.1	78.6	5,500	7,100
	185	17.7	64.8	5,000	6,600
	34	81.4	204.7	97,600*	97,600*
	36	80.8	204.4	91,500	95,700*
	38	80.2	204.1	84,700	93,800*
	40	79.6	203.7	78,700	90,800
	45	78.2	202.8	66,600	76,600
	50	76.7	201.6	57,300	65,800
	55	75.2	200.4	50,000	57,400
	60	73.7	199.0	44,100	50,600
	65	72.2	197.5	39,200	45,000
	70	70.7	195.8	35,100	40,400
	75	69.2	194.0	31,600	36,400
	80	67.7	192.0	28,600	33,000
	85	66.1	189.9	26,000	30,100
	90	64.5	187.6	23,700	27,500
	95	62.9	185.1	21,600	25,200
210	100	61.3	182.5	19,800	23,100
	105	59.7	179.6	18,200	21,300
	110	58.0	176.6	16,700	19,700
	115	56.3	173.4	15,400	18,200
	120	54.5	169.9	14,200	16,800
	125	52.8	166.3	13,000	15,600
	130	50.9	162.3	12,000	14,400
	135	49.1	158.1	11,100	13,400
	140	47.2	153.6	10,200	12,400
	145	45.2	148.8	9,400	11,500
	150	43.1	143.7	8,700	10,700
	155	41.0	138.2	8,000	9,900
	160	38.7	132.2	7,300	9,200
	165	36.4	125.7	6,700	8,500
	170	33.9	118.6	6,100	7,900
	175	31.2	110.7	5,600	7,300
	180	28.4	102.0	5,100	6,700
	185	25.2	92.1	4,600	6,200
	190	21.6	80.5	4,100	5,700
	195	17.3	66.3		5,200

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS
210	36	81.2	214.6	91,000*	91,000*
	38	80.7	214.2	84,400	89,200*
	40	80.1	213.9	78,500	87,500*
	45	78.7	213.0	66,300	76,300
	50	77.3	211.9	57,100	65,600
	55	75.9	210.7	49,800	57,100
	60	74.5	209.4	43,800	50,400
	65	73.1	208.0	39,000	44,800
	70	71.7	206.4	34,800	40,100
	75	70.2	204.6	31,400	36,200
	80	68.8	202.8	28,300	32,700
	85	67.3	200.8	25,700	29,800
	90	65.8	198.6	23,400	27,200
	95	64.3	196.3	21,400	24,900
	100	62.8	193.8	19,500	22,900
	105	61.3	191.1	17,900	21,000
	110	59.7	188.3	16,400	19,400
	115	58.1	185.3	15,100	17,900
	120	56.5	182.1	13,900	16,500
	125	54.8	178.6	12,800	15,300
220	130	53.1	175.0	11,700	14,200
	135	51.4	171.1	10,800	13,100
	140	49.6	167.0	9,900	12,100
	145	47.8	162.6	9,100	11,200
	150	46.0	157.9	8,400	10,400
	155	44.0	152.9	7,700	9,600
	160	42.0	147.6	7,000	8,900
	165	39.9	141.8	6,400	8,200
	170	37.8	135.6	5,800	7,600
	175	35.5	128.9	5,300	7,000
	180	33.1	121.6	4,800	6,400
	185	30.5	113.5	4,300	5,900
	190	27.7	104.5		5,400
	195	24.6	94.3		4,900
	200	21.0	82.4		4,500
	205	16.8	67.8		4,000
	38	81.1	224.4	82,600*	82,600*
	40	80.6	224.0	78,100	81,100*
	45	79.3	223.2	66,000	76,000
	50	77.9	222.1	56,700	65,200
	55	76.6	221.0	49,400	56,800
	60	75.3	219.8	43,500	50,000
	65	73.9	218.4	38,600	44,400
	70	72.5	216.9	34,500	39,700
	75	71.2	215.2	31,000	35,800
	80	69.8	213.5	28,000	32,400
230	85	68.4	211.6	25,300	29,400
	90	67.0	209.5	23,000	26,800
	95	65.6	207.3	21,000	24,500
	100	64.1	205.0	19,200	22,500
	105	62.7	202.5	17,500	20,700
	110	61.2	199.8	16,000	19,000
	115	59.7	196.9	14,700	17,500
	120	58.2	193.9	13,500	16,200
	125	56.6	190.7	12,400	14,900
	130	55.1	187.3	11,400	13,800
	135	53.5	183.8	10,400	12,700
	140	51.8	179.9	9,500	11,800
	145	50.1	175.9	8,700	10,900
	150	48.4	171.6	8,000	10,000
	155	46.7	167.0	7,300	9,200
	160	44.8	162.1	6,600	8,500
	165	43.0	156.9	6,000	7,800
	170	41.0	151.4	5,400	7,200
	175	39.0	145.4	4,900	6,600
	180	36.9	139.0	4,400	6,000
240	185	34.6	132.1		5,500
	190	32.3	124.5		5,000
	195	29.8	116.2		4,500
	200	27.0	106.9		4,100

MANITOWOC ENGINEERING CO.

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



LIFT CRANE CAPACITIES

BOOM NO. 39 WITH OPEN THROAT TOP
102,400 LB. COUNTERWEIGHT
360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS

3950W

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS
230	40	81.0	234.2	75,800*	75,800*
	45	79.7	233.3	65,700	72,400*
	50	78.5	232.4	56,400	64,900
	55	77.2	231.3	49,100	56,500
	60	75.9	230.1	43,100	49,700
	65	74.6	228.8	38,200	44,100
	70	73.3	227.3	34,100	39,400
	75	72.0	225.8	30,600	35,400
	80	70.7	224.1	27,600	32,000
	85	69.4	222.3	25,000	29,100
	90	68.0	220.3	22,700	26,500
	95	66.7	218.2	20,600	24,200
	100	65.3	216.0	18,800	22,100
	105	64.0	213.6	17,200	20,300
	110	62.6	211.1	15,700	18,700
	115	61.1	208.4	14,300	17,200
	120	59.7	205.6	13,100	15,800
	125	58.3	202.6	12,000	14,600
	130	56.8	199.4	11,000	13,400
	135	55.3	196.1	10,000	12,400
240	140	53.8	192.5	9,200	11,400
	145	52.2	188.7	8,400	10,500
	150	50.6	184.7	7,600	9,700
	155	49.0	180.5	6,900	8,900
	160	47.3	176.0	6,300	8,200
	165	45.6	171.3	5,600	7,500
	170	43.8	166.2	5,100	6,800
	175	42.0	160.8	4,500	6,200
	180	40.1	155.1	4,000	5,700
	185	38.1	148.9	3,500	5,100
	190	36.0	142.3	3,000	4,600
	195	33.9	135.1	2,500	4,200
	45	80.2	243.5	65,300	68,300*
	50	78.9	242.6	56,000	64,500
	55	77.7	241.5	48,700	56,100
	60	76.5	240.4	42,700	49,300
	65	75.3	239.1	37,800	43,700
	70	74.0	237.8	33,700	39,000
	75	72.8	236.3	30,200	35,100
	80	71.5	234.7	27,200	31,600
	85	70.3	232.9	24,600	28,700
	90	69.0	231.1	22,300	26,100
	95	67.7	229.1	20,200	23,800
	100	66.4	227.0	18,400	21,700
	105	65.1	224.7	16,800	19,900
	110	63.8	222.3	15,300	18,300
	115	62.5	219.8	13,900	16,800
	120	61.1	217.1	12,700	15,400
	125	59.7	214.3	11,600	14,200
	130	58.3	211.3	10,600	13,000
	135	56.9	208.1	9,600	12,000
	140	55.5	204.8	8,800	11,000
	145	54.0	201.2	8,000	10,100
	150	52.5	197.5	7,200	9,300
	155	51.0	193.6	6,500	8,500
	160	49.5	189.4	5,800	7,800
	165	47.9	185.0	5,200	7,100
	170	46.2	180.3	4,700	6,400
	175	44.6	175.4	4,100	5,800
	180	42.8	170.2	3,600	5,300
	185	41.0	164.6	3,100	4,700
	190	39.2	158.7	2,600	4,200

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	62,000*	62,000*
	50	79.4	252.7	55,700	59,200*
	55	78.2	251.7	48,400	55,800
	60	77.1	250.7	42,400	49,000
	65	75.9	249.4	37,500	43,400
	70	74.7	248.1	33,400	38,700
	75	73.5	246.7	29,900	34,800
	80	72.3	245.2	26,900	31,300
	85	71.1	243.5	24,300	28,400
	90	69.9	241.7	22,000	25,800
	95	68.7	239.9	19,900	23,500
	100	67.4	237.8	18,100	21,400
	105	66.2	235.7	16,500	19,600
	110	64.9	233.4	15,000	18,000
	115	63.6	231.0	13,600	16,500
	120	62.4	228.5	12,400	15,100
	125	61.1	225.8	11,300	13,900
	130	59.7	222.9	10,300	12,700
	135	58.4	219.9	9,300	11,700
	140	57.0	216.8	8,500	10,700
260	145	55.7	213.4	7,600	9,800
	150	54.3	209.9	6,900	9,000
	155	52.8	206.3	6,200	8,200
	160	51.4	202.4	5,500	7,500
	165	49.9	198.3	4,900	6,800
	170	48.4	193.9	4,300	6,100
	175	46.8	189.4	3,800	5,500
	180	45.3	184.6	3,300	5,000
	185	43.6	179.5	2,800	4,400
	50	79.8	262.9	55,300	55,700*
	55	78.7	262.0	48,000	53,100*
	60	77.6	260.9	42,100	48,600
	65	76.4	259.7	37,200	43,000
	70	75.3	258.5	33,000	38,300
	75	74.2	257.1	29,500	34,400
	80	73.0	255.6	26,500	31,000
	85	71.8	254.1	23,900	28,000
	90	70.7	252.4	21,600	25,400
	95	69.5	250.6	19,500	23,100
	100	68.3	248.6	17,700	21,100
	105	67.1	246.6	16,100	19,200
	110	65.9	244.4	14,600	17,600
	115	64.7	242.1	13,200	16,100
	120	63.5	239.7	12,000	14,700
	125	62.3	237.1	10,900	13,500
	130	61.0	234.4	9,900	12,300
	135	59.7	231.6	8,900	11,300
	140	58.5	228.6	8,100	10,300
	145	57.2	225.5	7,300	9,400
	150	55.8	222.1	6,500	8,600
	155	54.5	218.7	5,800	7,800
	160	53.1	215.0	5,100	7,100
	165	51.7	211.2	4,500	6,400
	170	50.3	207.1	4,000	5,700
	175	48.9	202.9	3,500	5,100
	180	47.4	198.4	3,000	4,600
	185	45.9	193.7	2,500	4,000