

MANITOWOC ENGINEERING CO.

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



LIFT CRANE CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

3900W SERIES 2

**BOOM NO. 9A WITH OPEN THROAT TOP
OFFSET 4-1/2 DEGREES
84,600 LB. COUNTERWEIGHT
360 DEGREE RATING**

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 LIFT CRANE SERVICE WITH SINGLE PART WHIP LINE OR COMBINATION OF TWO SINGLE PART LINES IS 22,500 LBS. (20,000 LBS. ON FIRST THREE LAYERS, 14,000 LBS. THEREAFTER WHEN REAR AUXILIARY DRUM IS USED). 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. 49501 AND WIRE ROPE SPECIFICATION CHART NO. 6437-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' RETRACTABLE GANTRY, 10 OR 12 PART BOOM HOIST REEVING, FOUR 1-1/4" BOOM PENDANTS, 1ST COUNTERWEIGHT = 43,000 LBS., 2ND COUNTERWEIGHT = 30,000 LBS., AND 3RD COUNTERWEIGHT = 11,600 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.	JIB NO. 123	BOOM LGTH.	JIB NO.	JIB NO. 123	BOOM LGTH.	JIB NO.	JIB NO. 123	JIB NO. 124
250'	---	---	240'	---	---	220'	---	---	---
240'	30'	50'	230'	---	---	210'	---	---	---
230'	50'	60'	220'	30'	40'	200'	40'	50'	---
220'	60'	60'	210'	40'	60'	190'	50'	60'	---
			200'	60'	60'	180'	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.	2,050 LBS.
50'	3,700 LBS.	2,300 LBS.
60'	4,400 LBS.	2,500 LBS.

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
60	15	81.8	66.0	206,400b*	206,400*
	16	80.8	65.8	203,000b*	203,000*
	17	79.8	65.6	199,300b*	199,300*
	18	78.8	65.4	195,700b*	195,700*
	19	77.9	65.1	192,300b*	192,300*
	20	76.9	64.9	178,300b*	189,000*
	22	74.9	64.3	154,100b*	182,800*
	24	72.9	63.6	135,600b*	161,300*
	26	70.9	62.9	121,000b*	142,700*
	28	68.8	62.0	109,100b*	127,900*
	30	66.7	61.1	99,200b*	115,800*
	32	64.6	60.1	91,000b*	105,700*
	34	62.4	59.0	83,900b*	97,200*
	36	60.2	57.8	77,800b*	89,900*
	38	57.9	56.5	72,500b*	83,600*
	40	55.6	55.1	67,900b*	78,000*
	45	49.3	50.9	58,400b*	66,800*
	50	42.4	45.6	51,000b*	58,300*
	55	34.4	38.8	45,200*	51,500*
	60	23.8	28.9	40,500*	46,100*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS
70	15	83.0	76.2	193,200b*	193,200*
	16	82.1	76.0	189,300b*	189,300*
	17	81.3	75.8	185,600b*	185,600*
	18	80.5	75.6	182,100b*	182,100*
	19	79.6	75.4	178,800b*	178,800*
	20	78.8	75.2	175,600b*	175,600*
	22	77.1	74.7	153,800b*	169,700*
	24	75.4	74.1	135,200b*	161,000*
	26	73.7	73.5	120,600b*	142,400*
	28	72.0	72.8	108,700b*	127,600*
	30	70.2	72.0	98,900b*	115,500*
	32	68.5	71.2	90,600b*	105,400*
	34	66.7	70.3	83,500b*	96,800*
	36	64.8	69.3	77,400b*	89,500*
	38	63.0	68.2	72,100b*	83,200*
	40	61.1	67.1	67,500b*	77,600*
	45	56.2	63.8	57,900b*	66,400*
	50	51.0	59.8	50,600*	57,900*
	55	45.3	55.0	44,800*	51,100*
	60	39.0	49.1	40,100*	45,700*
	65	31.6	41.5	36,200*	41,200*
	70	21.8	30.7	32,900*	37,500*

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3900W SERIES 2

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
80	17	82.4	86.0	175,100b	175,100	110	20	82.9	115.8	144,100b	144,100
	18	81.7	85.8	171,700b	171,700		22	81.9	115.5	138,700b	138,700
	19	80.9	85.6	168,500b	168,500		24	80.8	115.2	133,800b	133,800
	20	80.2	85.4	165,400b	165,400		26	79.7	114.8	119,600b	129,300
	22	78.7	85.0	153,500b	159,600		28	78.7	114.4	107,700b	125,100
	24	77.3	84.5	135,000b	154,300		30	77.6	113.9	97,900b	114,600
	26	75.8	83.9	120,300b	142,200		32	76.5	113.4	89,600b	104,500
	28	74.3	83.3	108,400b	127,300		34	75.5	112.8	82,500	95,900
	30	72.8	82.7	98,600b	115,200		36	74.4	112.3	76,400	88,600
	32	71.3	82.0	90,300b	105,100		38	73.3	111.6	71,100	82,200
	34	69.7	81.2	83,200b	96,600		40	72.2	111.0	66,400	76,700
	36	68.2	80.4	77,200b	89,300		45	69.4	109.1	56,900	65,400
	38	66.6	79.4	71,800b	82,900		50	66.6	106.9	49,500	56,800
	40	65.0	78.5	67,200b	77,400		55	63.7	104.5	43,700	50,100
	45	61.0	75.7	57,600	66,100		60	60.7	101.7	39,000	44,700
	50	56.7	72.5	50,300	57,600		65	57.6	98.6	35,100	40,200
	55	52.2	68.7	44,500	50,800		70	54.4	95.0	31,800	36,400
	60	47.4	64.2	39,800	45,400		75	51.1	91.1	29,000	33,200
	65	42.2	58.9	35,900	40,900		80	47.6	86.6	26,600	30,400
	70	36.3	52.3	32,600	37,200		85	43.9	81.5	24,500	28,100
90	75	29.4	44.1	29,800	34,000	120	90	39.9	75.7	22,600	25,900
	80	20.3	32.3	27,400	31,200		95	35.6	68.9	21,000	24,100
	18	82.6	95.9	164,300b	164,300		100	30.6	60.9	19,500	22,400
	19	82.0	95.8	161,100b	161,100		105	24.8	50.8	18,200	20,900
	20	81.3	95.6	158,000b	158,000		110	17.0	36.8	17,000	19,600
	22	80.0	95.2	152,300b	152,300		22	82.5	125.6	134,200b	134,200
	24	78.7	94.8	134,600b	147,100		24	81.6	125.3	129,400b	129,400
	26	77.4	94.3	119,900b	141,800		26	80.6	125.0	119,300b	124,900
	28	76.1	93.8	108,000b	127,000		28	79.6	124.6	107,400b	120,900
	30	74.8	93.2	98,200b	114,800		30	78.7	124.2	97,600b	114,300
	32	73.4	92.6	89,900b	104,700		32	77.7	123.7	89,300	104,200
	34	72.1	91.9	82,800b	96,200		34	76.7	123.2	82,200	95,600
	36	70.7	91.1	76,700b	88,900		36	75.7	122.7	76,100	88,300
	38	69.4	90.4	71,400b	82,500		38	74.7	122.1	70,800	81,900
	40	68.0	89.5	66,800	77,000		40	73.7	121.5	66,100	76,400
	45	64.5	87.1	57,200	65,700		45	71.2	119.8	56,500	65,100
	50	60.9	84.4	49,900	57,200		50	68.6	117.8	49,200	56,500
	55	57.1	81.2	44,100	50,400		55	66.0	115.6	43,400	49,800
	60	53.1	77.5	39,400	45,000		60	63.4	113.2	38,700	44,300
	65	49.0	73.2	35,500	40,500		65	60.6	110.4	34,800	39,800
100	70	44.5	68.3	32,200	36,700		70	57.8	107.3	31,500	36,100
	75	39.6	62.4	29,400	33,500		75	54.9	103.8	28,700	32,900
	80	34.1	55.4	27,000	30,800		80	51.9	99.9	26,300	30,100
	85	27.6	46.4	24,800	28,400		85	48.8	95.6	24,100	27,700
	90	19.0	33.9	23,000	26,300		90	45.4	90.8	22,300	25,600
	19	82.8	105.9	152,300b	152,300		95	41.9	85.3	20,600	23,700
	20	82.2	105.7	149,400b	149,400		100	38.1	79.1	19,200	22,100
	22	81.0	105.4	143,900b	143,900		105	33.9	71.9	17,800	20,600
	24	79.9	105.0	134,700b	138,900		110	29.2	63.4	16,600	19,300
	26	78.7	104.6	120,000b	134,300		115	23.7	52.8	15,600	18,000
	28	77.5	104.1	108,100b	127,000		120	16.3	38.2	14,600	16,900
	30	76.3	103.6	98,200b	114,900						
	32	75.1	103.0	89,900b	104,800						
	34	74.0	102.4	82,900b	96,200						
	36	72.7	101.8	76,800	88,900						
	38	71.5	101.1	71,500	82,600						
	40	70.3	100.3	66,800	77,000						
	45	67.2	98.2	57,300	65,800						
	50	64.0	95.8	49,900	57,200						
	55	60.8	93.0	44,100	50,500						
	60	57.4	89.9	39,400	45,000						
	65	53.9	86.3	35,500	40,600						
	70	50.2	82.2	32,200	36,800						
	75	46.2	77.5	29,400	33,600						
	80	42.0	72.1	27,000	30,800						
	85	37.4	65.8	24,900	28,500						
	90	32.2	58.2	23,000	26,400						
	95	26.1	48.7	21,400	24,500						
	100	17.9	35.4	19,900	22,800						

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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
130	24	82.2	135.5	124,700*	124,700*	150	95	53.6	126.3	19,500	22,600
	26	81.3	135.1	118,800*	120,600*		100	51.2	122.3	18,000	20,900
	28	80.4	134.8	106,900*	116,700*		105	48.6	117.9	16,700	19,500
	30	79.5	134.4	97,000	113,000*		110	46.0	113.2	15,500	18,100
	32	78.6	134.0	88,700	103,700		115	43.2	108.0	14,400	16,900
	34	77.7	133.5	81,600	95,100		120	40.3	102.2	13,400	15,800
	36	76.8	133.0	75,500	87,700		125	37.2	95.7	12,500	14,800
	38	75.9	132.5	70,200	81,400		130	33.9	88.5	11,700	13,800
	40	75.0	131.9	65,500	75,800		135	30.2	80.2	10,900	13,000
	45	72.7	130.4	56,000	64,500		140	26.0	70.5	10,200	12,200
	50	70.4	128.6	48,600	56,000		145	21.0	58.4	9,500	11,400
	55	68.0	126.6	42,800	49,200	160	28	82.2	165.2	100,900*	100,900*
	60	65.6	124.3	38,100	43,800		30	81.5	164.9	96,200	98,200*
	65	63.1	121.8	34,200	39,300		32	80.8	164.5	87,900	95,600*
	70	60.6	119.0	30,900	35,500		34	80.1	164.2	80,800	93,100*
	75	58.0	115.9	28,100	32,300		36	79.3	163.8	74,700	87,000
	80	55.3	112.5	25,600	29,500		38	78.6	163.3	69,400	80,600
	85	52.6	108.7	23,500	27,100		40	77.9	162.9	64,700	75,000
	90	49.7	104.5	21,700	25,000		45	76.0	161.7	55,100	63,700
	95	46.7	99.9	20,000	23,100		50	74.2	160.2	47,800	55,100
	100	43.5	94.7	18,600	21,500		55	72.3	158.7	42,000	48,400
	105	40.2	88.9	17,200	20,000		60	70.4	156.9	37,200	42,900
	110	36.5	82.4	16,000	18,600		65	68.5	154.9	33,300	38,400
	115	32.5	74.8	15,000	17,400		70	66.5	152.8	30,000	34,700
	120	28.0	65.9	14,000	16,300		75	64.5	150.4	27,200	31,400
	125	22.7	54.8	13,100	15,300		80	62.5	147.8	24,800	28,700
	130	15.6	39.4	12,200	14,400		85	60.5	145.0	22,700	26,300
140	24	82.8	145.6	117,800*	117,800*		90	58.4	141.9	20,800	24,200
	26	82.0	145.3	114,000*	114,000*		95	56.2	138.6	19,200	22,300
	28	81.1	144.9	106,700	110,500*		100	54.0	135.0	17,700	20,600
	30	80.3	144.6	96,900	107,100*		105	51.8	131.1	16,400	19,100
	32	79.5	144.2	88,600	103,500		110	49.4	126.9	15,200	17,800
	34	78.6	143.8	81,500	94,900		115	47.0	122.3	14,100	16,600
	36	77.8	143.3	75,400	87,600		120	44.4	117.3	13,100	15,500
	38	76.9	142.8	70,100	81,200		125	41.8	111.8	12,200	14,400
	40	76.1	142.3	65,400	75,700		130	39.0	105.7	11,400	13,500
	45	74.0	140.9	56,800	64,400		135	36.0	99.0	10,600	12,700
	50	71.8	139.2	48,500	55,800		140	32.7	91.4	9,900	11,900
	55	69.6	137.4	42,700	49,100		145	29.2	82.8	9,200	11,100
	60	67.4	135.3	37,900	43,600		150	25.1	72.7	8,600	10,400
	65	65.2	133.0	34,000	39,100		155	20.3	60.2	8,000	9,800
	70	62.9	130.5	30,700	35,300	170	28	82.7	175.3	96,500*	96,500*
	75	60.5	127.7	27,900	32,100		30	82.0	175.0	94,000*	94,000*
	80	58.1	124.6	25,500	29,400		32	81.3	174.7	87,500	91,700*
	85	55.7	121.2	23,400	27,000		34	80.7	174.3	80,400	89,400*
	90	53.1	117.5	21,500	24,900		36	80.0	174.0	74,300	86,600
	95	50.5	113.4	19,900	23,000		38	79.3	173.6	69,000	80,200
	100	47.8	109.0	18,400	21,300		40	78.6	173.1	64,300	74,600
	105	44.9	104.0	17,100	19,900		45	76.9	172.0	54,700	63,300
	110	41.8	98.5	15,900	18,500		50	75.1	170.7	47,400	54,700
	115	38.6	92.4	14,800	17,300		55	73.4	169.2	41,500	48,000
	120	35.1	85.5	13,800	16,200		60	71.6	167.5	36,800	42,500
	125	31.3	77.6	12,900	15,200		65	69.8	165.7	32,900	38,000
	130	27.0	68.2	12,100	14,200		70	68.0	163.7	29,600	34,200
	135	21.8	56.6	11,300	13,400		75	66.1	161.5	26,800	31,000
150	26	82.5	155.4	109,600*	109,600*		80	64.3	159.1	24,300	28,200
	28	81.7	155.1	106,400*	106,400*		85	62.4	156.5	22,200	25,800
	30	80.9	154.7	96,500	103,300*		90	60.5	153.7	20,400	23,700
	32	80.2	154.4	88,200	100,400*		95	58.5	150.6	18,700	21,800
	34	79.4	154.0	81,100	94,600		100	56.5	147.3	17,200	20,200
	36	78.6	153.5	75,000	87,200		105	54.4	143.8	15,900	18,700
	38	77.8	153.1	69,700	80,900		110	52.3	139.9	14,700	17,300
	40	77.0	152.6	65,000	75,300		115	50.1	135.8	13,600	16,100
	45	75.1	151.3	55,400	64,000		120	47.8	131.3	12,600	15,000
	50	73.1	149.8	48,100	55,400		125	45.5	126.5	11,700	14,000
	55	71.1	148.1	42,300	48,700		130	43.0	121.2	10,900	13,100
	60	69.0	146.2	37,500	43,200		135	40.5	115.4	10,100	12,200
	65	66.9	144.0	33,600	38,700		140	37.7	109.1	9,400	11,400
	70	64.8	141.7	30,300	35,000		145	34.8	102.1	8,800	10,700
	75	62.7	139.1	27,500	31,700		150	31.7	94.2	8,100	10,000
	80	60.5	136.3	25,100	29,000		155	28.3	85.3	7,600	9,300
	85	58.3	133.3	23,000	26,600		160	24.3	74.8	7,000	8,700
	90	56.0	129.9	21,100	24,500		165	19.7	61.9	6,500	8,200

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BOOM NO. 9A WITH OPEN THROAT TOP
OFFSET 4-1/2 DEGREES
84,600 LB. COUNTERWEIGHT
360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS

3900W SERIES 2

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS
180	30	82.8	185.1	87,700*	87,700*
	32	81.8	184.8	85,700*	85,700*
	34	81.2	184.5	80,200	83,800*
	36	80.5	184.1	74,100	82,000*
	38	79.9	183.8	68,700	80,000*
	40	79.2	183.4	64,100	74,400*
	45	77.6	182.3	54,500	63,100
	50	76.0	181.0	47,100	54,500*
	55	74.3	179.6	41,300	47,700*
	60	72.7	178.1	36,600	42,300*
	65	71.0	176.4	32,700	37,800*
	70	69.3	174.5	29,400	34,000*
	75	67.6	172.4	26,500	30,800*
	80	65.8	170.2	24,100	28,000*
	85	64.0	167.8	22,000	25,600*
	90	62.3	165.1	20,100	23,500*
	95	60.4	162.3	18,500	21,600*
	100	58.6	159.3	17,000	20,000*
	105	56.7	156.0	15,700	18,500*
	110	54.7	152.5	14,500	17,100*
190	115	52.7	148.7	13,400	15,900*
	120	50.7	144.7	12,400	14,800*
	125	48.6	140.3	11,500	13,800*
	130	46.4	135.6	10,700	12,800*
	135	44.1	130.5	9,900	12,000*
	140	41.7	125.0	9,200	11,200*
	145	39.3	119.0	8,500	10,400*
	150	36.6	112.4	7,900	9,800*
	155	33.8	105.1	7,400	9,100*
	160	30.8	96.9	6,800	8,500*
	165	27.4	87.7	6,300	8,000*
	170	23.6	76.8	5,800	7,400*
	175	19.1	63.5	5,400	6,900*
	32	82.3	194.9	81,500*	81,500*
	34	81.6	194.6	79,800*	79,800*
	36	81.0	194.3	73,700	78,100*
	38	80.4	193.9	68,400	76,500*
	40	79.8	193.6	63,700	74,100*
	45	78.3	192.5	54,100	62,800*
	50	76.7	191.3	46,800	54,200*
	55	75.2	190.0	40,900	47,400*
	60	73.6	188.6	36,200	41,900*
	65	72.0	186.9	32,300	37,400*
	70	70.4	185.2	29,000	33,600*
	75	68.8	183.2	26,200	30,400*
	80	67.2	181.1	23,700	27,700*
	85	65.5	178.9	21,600	25,200*
	90	63.8	176.4	19,800	23,100*
	95	62.1	173.8	18,100	21,300*
	100	60.4	171.0	16,600	19,600*
	105	58.6	167.9	15,300	18,100*
	110	56.8	164.7	14,100	16,700*
	115	55.0	161.2	13,000	15,500*
	120	53.1	157.5	12,000	14,400*
	125	51.2	153.5	11,100	13,400*
	130	49.2	149.3	10,300	12,500*
	135	47.2	144.7	9,500	11,600*
	140	45.1	139.7	8,800	10,800*
	145	42.9	134.4	8,200	10,100*
	150	40.6	128.7	7,500	9,400*
	155	38.2	122.4	7,000	8,700*
	160	35.6	115.6	6,400	8,100*
	165	32.9	108.0	5,900	7,600*
	170	29.9	99.6	5,500	7,100*
	175	26.7	90.0	5,000	6,600*
	180	23.0	78.8	4,600	6,100*
	185	18.6	65.1	4,200	5,700*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS
200	32	82.6	205.0	75,900*	75,900*
	34	82.1	204.7	74,400*	74,400*
	36	81.5	204.4	73,000*	73,000*
	38	80.9	204.1	68,200	71,600*
	40	80.3	203.7	63,500	70,300*
	45	78.9	202.7	54,000	62,600*
	50	77.4	201.6	46,600	54,000*
	55	75.9	200.4	40,800	47,200*
	60	74.4	199.0	36,000	41,800*
	65	72.9	197.5	32,100	37,200*
	70	71.4	195.8	28,800	33,500*
	75	69.9	194.0	26,000	30,200*
	80	68.4	192.0	23,600	27,500*
	85	66.8	189.9	21,400	25,100*
	90	65.2	187.6	19,600	22,900*
	95	63.6	185.1	17,900	21,100*
	100	62.0	182.5	16,400	19,400*
	105	60.4	179.6	15,100	17,900*
	110	58.7	176.6	13,900	16,600*
	115	57.0	173.4	12,800	15,300*
210	120	55.3	169.9	11,800	14,200*
	125	53.5	166.3	10,900	13,200*
	130	51.7	162.4	10,100	12,300*
	135	49.8	158.2	9,300	11,400*
	140	47.9	153.7	8,600	10,600*
	145	45.9	148.9	8,000	9,900*
	150	43.8	143.7	7,400	9,200*
	155	41.7	138.2	6,800	8,600*
	160	39.5	132.2	6,200	8,000*
	165	37.1	125.7	5,700	7,400*
	170	34.7	118.7	5,300	6,900*
	175	32.0	110.8	4,800	6,400*
	180	29.1	102.1	4,400	5,900*
	185	26.0	92.3	4,000	5,500*
	190	22.4	80.7	3,700	5,100*
	195	18.1	66.6	3,300	4,700*
	34	82.5	214.8	70,500*	70,500*
	36	81.9	214.5	69,200*	69,200*
	38	81.3	214.2	67,900*	67,900*
	40	80.8	213.9	63,200	66,700*
	45	79.4	213.0	53,600	62,300*
	50	78.0	211.9	46,200	53,600*
	55	76.6	210.7	40,400	46,900*
	60	75.2	209.4	35,600	41,400*
	65	73.8	207.9	31,700	36,900*
	70	72.4	206.4	28,400	33,100*
	75	70.9	204.6	25,600	29,900*
	80	69.5	202.8	23,200	27,100*
	85	68.0	200.8	21,000	24,700*
	90	66.5	198.6	19,200	22,600*
	95	65.0	196.3	17,500	20,700*
	100	63.5	193.8	16,000	19,000*
	105	61.9	191.1	14,700	17,500*
	110	60.4	188.3	13,500	16,200*
	115	58.8	185.3	12,400	14,900*
	120	57.2	182.1	11,400	13,800*
	125	55.5	178.7	10,500	12,800*
	130	53.8	175.0	9,700	11,900*
	135	52.1	171.2	8,900	11,000*
	140	50.3	167.0	8,200	10,200*
	145	48.5	162.7	7,600	9,500*
	150	46.6	158.0	6,900	8,800*
	155	44.7	153.0	6,400	8,100*
	160	42.7	147.6	5,800	7,500*
	165	40.6	141.9	5,300	7,000*
	170	38.5	135.7	4,900	6,500*
	175	36.2	129.0	4,400	6,000*
	180	33.8	121.7	4,000	5,500*
	185	31.2	113.6	3,600	5,100*
	190	28.4	104.6	3,200	4,700*
	195	25.3	94.5	2,800	4,300*
	200	21.8	82.6	2,400	3,900*
	205	17.6	68.1	2,000	3,500*

MANITOWOC ENGINEERING CO.

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



LIFTCRANE CAPACITIES

BOOM NO. 9A WITH OPEN THROAT TOP
OFFSET 4-1/2 DEGREES
84,600 LB. COUNTERWEIGHT
360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS

3900W SERIES 2

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS
220	36	82.3	224.7	61,000*	61,000*
	38	81.7	224.3	60,700*	60,700*
	40	81.2	224.0	60,400*	60,400*
	45	79.9	223.1	53,400	59,100*
	50	78.6	222.1	46,000	53,400
	55	77.2	221.0	40,200	46,600
	60	75.9	219.7	35,400	41,200
	65	74.5	218.4	31,500	36,700
	70	73.2	216.9	28,200	32,900
	75	71.8	215.2	25,400	29,700
	80	70.4	213.5	23,000	26,900
	85	69.0	211.5	20,800	24,500
	90	67.6	209.5	19,000	22,400
	95	66.2	207.3	17,300	20,500
	100	64.8	205.0	15,800	18,800
	105	63.3	202.5	14,500	17,300
	110	61.8	199.8	13,300	16,000
	115	60.3	197.0	12,200	14,700
	120	58.8	193.9	11,200	13,600
	125	57.3	190.8	10,300	12,600
230	130	55.7	187.4	9,500	11,700
	135	54.1	183.8	8,700	10,800
	140	52.5	180.0	8,000	10,000
	145	50.8	175.9	7,400	9,300
	150	49.1	171.6	6,800	8,600
	155	47.3	167.0	6,200	8,000
	160	45.5	162.2	5,600	7,400
	165	43.6	157.0	5,100	6,800
	170	41.7	151.4	4,700	6,300
	175	39.7	145.5	4,200	5,800
	180	37.5	139.1	3,800	5,300
	185	35.3	132.2	3,400	4,900
	190	33.0	124.6	3,000	4,500
	195	30.4	116.3		4,100
	200	27.7	107.1		3,700
	205	24.7	96.6		3,300
	210	21.3	84.5		3,000
	38	82.1	234.5	55,400*	55,400*
	40	81.6	234.2	55,100*	55,100*
	45	80.3	233.3	53,000	54,400*
	50	79.1	232.3	45,700	53,100
	55	77.8	231.3	39,800	46,300
	60	76.5	230.1	35,100	40,800
	65	75.2	228.8	31,100	36,300
	70	73.9	227.3	27,800	32,500
	75	72.6	225.8	25,000	29,300
	80	71.3	224.1	22,600	26,500
	85	70.0	222.3	20,500	24,100
	90	68.7	220.3	18,600	22,000
	95	67.3	218.2	16,900	20,100
	100	65.9	216.0	15,500	18,400
	105	64.6	213.6	14,100	16,900
	110	63.2	211.1	12,900	15,600
	115	61.8	208.5	11,800	14,400
	120	60.3	205.6	10,900	13,300
	125	58.9	202.6	9,900	12,200
	130	57.4	199.4	9,100	11,300
	135	55.9	196.1	8,300	10,400
	140	54.4	192.5	7,600	9,600
	145	52.8	188.7	7,000	8,900
	150	51.2	184.7	6,400	8,200
	155	49.6	180.5	5,800	7,600
	160	47.9	176.0	5,300	7,000
	165	46.2	171.3	4,800	6,400
	170	44.4	166.2	4,300	5,900
	175	42.6	160.9	3,800	5,400
	180	40.7	155.1	3,400	4,900
	185	38.7	149.0	3,000	4,500
	190	36.7	142.4		4,100
	195	34.5	135.2		3,700
	200	32.2	127.5		3,300
	205	29.7	118.9		3,000

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS
240	40	82.0	244.3	48,700*	48,700*
	45	80.7	243.5	48,100*	48,100*
	50	79.5	242.5	45,300	47,400*
	55	78.3	241.5	39,500	46,000
	60	77.1	240.4	34,700	40,500
	65	75.9	239.1	30,800	36,000
	70	74.6	237.7	27,500	32,200
	75	73.4	236.3	24,700	28,900
	80	72.1	234.6	22,200	26,200
	85	70.9	232.9	20,100	23,800
	90	69.6	231.1	18,200	21,600
	95	68.3	229.1	16,600	19,800
	100	67.0	227.0	15,100	18,100
	105	65.7	224.7	13,800	16,600
	110	64.4	222.3	12,600	15,200
	115	63.0	219.8	11,500	14,000
	120	61.7	217.1	10,500	12,900
	125	60.3	214.3	9,600	11,900
	130	58.9	211.3	8,800	10,900
	135	57.5	208.1	8,000	10,100
250	140	56.1	204.8	7,300	9,300
	145	54.6	201.2	6,600	8,500
	150	53.1	197.5	6,000	7,900
	155	51.6	193.6	5,400	7,200
	160	50.1	189.4	4,900	6,600
	165	48.5	185.0	4,400	6,100
	170	46.8	180.4	3,900	5,500
	175	45.2	175.4	3,500	5,000
	180	43.4	170.2	3,100	4,600
	185	41.7	164.7		4,100
	190	39.8	158.7		3,700
	195	37.9	152.4		3,300
	200	35.9	145.6		3,000
	45	81.1	253.6	43,900*	43,900*
	50	80.0	252.7	43,200*	43,200*
	55	78.8	251.7	39,100	42,600*
	60	77.6	250.6	34,300	40,100
	65	76.4	249.4	30,400	35,600
	70	75.3	248.1	27,100	31,800
	75	74.1	246.7	24,300	28,600
	80	72.9	245.2	21,800	25,800
	85	71.7	243.5	19,700	23,400
	90	70.4	241.7	17,900	21,300
	95	69.2	239.8	16,200	19,400
	100	68.0	237.8	14,700	17,700
	105	66.7	235.7	13,400	16,200
	110	65.5	233.4	12,200	14,900
	115	64.2	231.0	11,100	13,600
	120	62.9	228.5	10,100	12,500
	125	61.6	225.8	9,200	11,500
	130	60.3	222.9	8,400	10,600
	135	59.0	219.9	7,600	9,700
	140	57.6	216.8	6,900	8,900
	145	56.2	213.5	6,200	8,100
	150	54.8	210.0	5,600	7,500
	155	53.4	206.3	5,000	6,800
	160	52.0	202.4	4,500	6,200
	165	50.5	198.3	4,000	5,700
	170	49.0	194.0	3,500	5,100
	175	47.4	189.4	3,100	4,600
	180	45.8	184.6		4,200
	185	44.2	179.5		3,700
	190	42.5	174.1		3,300