

MANITOWOC ENGINEERING CO.

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



LIFTCRANE CAPACITIES BOOM NO. 9A WITH OPEN THROAT TOP 84,600 LB. COUNTERWEIGHT 360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS

3900W SERIES 2

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. (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. 123	JIB NO. 124	BOOM LGTH.	JIB NO. 123	JIB NO. 124	BOOM LGTH.	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	CAPACITY
				CRAWLERS RETRACTED POUNDS	CRAWLERS EXTENDED POUNDS
60	15	79.4	65.8	280,000b*	280,000*
	16	78.5	65.6	258,100b	268,700*
	17	77.5	65.4	232,300b	255,500*
	18	76.5	65.2	211,000b	243,400*
	19	75.5	64.9	193,300b	232,500*
	20	74.5	64.7	178,300b	217,000*
	22	72.5	64.1	154,100b	185,100
	24	70.5	63.4	135,600b	161,300
	26	68.5	62.7	121,000b	142,700
	28	66.4	61.8	109,100b	127,900
	30	64.3	60.9	99,200b	115,800
	32	62.2	59.9	91,000b	105,700
	34	60.0	58.8	83,900b	97,200
	36	57.8	57.6	77,800b	89,900
	38	55.5	56.3	72,500b	83,600
	40	53.1	54.9	67,900b	78,000
	45	46.9	50.7	58,400b	66,800
	50	39.9	45.4	51,000b	58,300
55	31.8	38.5	45,200	51,500	
60	21.0	28.4	40,500	46,100	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY	CAPACITY
				CRAWLERS RETRACTED POUNDS	CRAWLERS EXTENDED POUNDS
70	15	81.0	76.0	273,700b*	273,700*
	16	80.1	75.8	257,900b	267,800*
	17	79.3	75.6	232,000b	254,600*
	18	78.5	75.4	210,700b	242,500*
	19	77.6	75.2	193,000b	231,600*
	20	76.8	75.0	177,900b	216,800*
	22	75.1	74.5	153,800b	184,900
	24	73.4	73.9	135,200b	161,000
	26	71.7	73.3	120,600b	142,400
	28	69.9	72.6	108,700b	127,600
	30	68.2	71.8	98,900b	115,500
	32	66.4	71.0	90,600b	105,400
	34	64.6	70.1	83,500b	96,800
	36	62.8	69.1	77,400b	89,500
	38	60.9	68.0	72,100b	83,200
	40	59.1	66.9	67,500b	77,600
	45	54.1	63.6	57,900b	66,400
	50	48.9	59.6	50,600	57,900
55	43.2	54.8	44,800	51,100	
60	36.9	48.9	40,100	45,700	
65	29.4	41.2	36,200	41,200	
70	19.5	30.2	32,900	37,500	

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BOOM NO. 9A WITH OPEN THROAT TOP
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
80	16	81.4	85.9	249,800b*	249,800*
	17	80.6	85.8	231,800b	245,000*
	18	79.9	85.6	210,500b	240,500*
	19	79.2	85.4	192,700b	230,900*
	20	78.5	85.2	177,700b	216,600
	22	77.0	84.8	153,500b	184,700
	24	75.5	84.3	135,000b	160,700
	26	74.0	83.8	120,300b	142,200
	28	72.5	83.2	108,400b	127,300
	30	71.0	82.5	98,600b	115,200
	32	69.5	81.8	90,300b	105,100
	34	68.0	81.0	83,200b	96,600
	36	66.4	80.2	77,200b	89,300
	38	64.8	79.3	71,800b	82,900
	40	63.3	78.3	67,200b	77,400
	45	59.2	75.5	57,600	66,100
50	54.9	72.3	50,300	57,600	
55	50.4	68.5	44,500	50,800	
60	45.6	64.0	39,800	45,400	
65	40.3	58.6	35,900	40,900	
70	34.4	52.1	32,600	37,200	
75	27.4	43.7	29,800	34,000	
80	18.2	31.8	27,400	31,200	
90	18	81.1	95.8	210,200b	228,300*
	19	80.4	95.6	192,400b	224,300*
	20	79.8	95.4	177,300b	216,300
	22	78.5	95.0	153,200b	184,300
	24	77.2	94.6	134,600b	160,400
	26	75.9	94.1	119,900b	141,800
	28	74.5	93.6	108,000b	127,000
	30	73.2	93.0	98,200b	114,800
	32	71.9	92.4	89,900b	104,700
	34	70.5	91.7	82,800b	96,200
	36	69.2	91.0	76,700b	88,900
	38	67.8	90.2	71,400b	82,500
	40	66.4	89.3	66,800	77,000
	45	62.9	87.0	57,200	65,700
	50	59.3	84.2	49,900	57,200
	55	55.6	81.0	44,100	50,400
60	51.5	77.3	39,400	45,000	
65	47.3	73.0	35,500	40,500	
70	42.8	68.0	32,200	36,700	
75	37.9	62.2	29,400	33,500	
80	32.4	55.1	27,000	30,800	
85	25.8	46.1	24,800	28,400	
90	17.1	33.4	23,000	26,300	
100	19	81.4	105.7	192,500b	196,400*
	20	80.8	105.6	177,400b	193,300*
	22	79.6	105.2	153,200b	184,400
	24	78.5	104.8	134,700b	160,500
	26	77.3	104.4	120,000b	141,900
	28	76.1	103.9	108,100b	127,000
	30	74.9	103.4	98,200b	114,900
	32	73.7	102.9	89,900b	104,800
	34	72.5	102.2	82,900b	96,200
	36	71.3	101.6	76,800	88,900
	38	70.1	100.9	71,500	82,600
	40	68.9	100.1	66,800	77,000
	45	65.8	98.1	57,300	65,800
	50	62.6	95.6	49,900	57,200
	55	59.3	92.9	44,100	50,500
	60	55.9	89.7	39,400	45,000
65	52.4	86.1	35,500	40,600	
70	48.7	82.0	32,200	36,800	
75	44.8	77.3	29,400	33,600	
80	40.5	71.8	27,000	30,800	
85	35.9	65.5	24,900	28,500	
90	30.7	57.9	23,000	26,400	
95	24.5	48.3	21,400	24,500	
100	16.3	34.9	19,900	22,800	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS
110	22	80.6	115.4	152,900b	179,100*
	24	79.5	115.0	134,300b	160,200
	26	78.5	114.6	119,600b	141,600
	28	77.4	114.2	107,700b	126,700
	30	76.3	113.7	97,900b	114,600
	32	75.3	113.2	89,600b	104,500
	34	74.2	112.7	82,500	95,900
	36	73.1	112.1	76,400	88,600
	38	72.0	111.5	71,100	82,200
	40	70.9	110.8	66,400	76,700
	45	68.1	108.9	56,900	65,400
	50	65.3	106.8	49,500	56,800
	55	62.4	104.3	43,700	50,100
	60	59.4	101.5	39,000	44,700
	65	56.3	98.4	35,100	40,200
	70	53.1	94.9	31,800	36,400
75	49.8	90.9	29,000	33,200	
80	46.3	86.4	26,600	30,400	
85	42.6	81.3	24,500	28,100	
90	38.6	75.4	22,600	25,900	
95	34.2	68.7	21,000	24,100	
100	29.2	60.6	19,500	22,400	
105	23.3	50.4	18,200	20,900	
110	15.5	36.2	17,000	19,600	
120	22	81.4	125.5	152,600b	172,000*
	24	80.4	125.2	134,000b	159,900
	26	79.4	124.8	119,300b	141,300
	28	78.5	124.4	107,400b	126,400
	30	77.5	124.0	97,600b	114,300
	32	76.5	123.5	89,300	104,200
	34	75.5	123.0	82,200	95,600
	36	74.5	122.5	76,100	88,300
	38	73.5	121.9	70,800	81,900
	40	72.5	121.3	66,100	76,400
	45	70.0	119.6	56,500	65,100
	50	67.5	117.7	49,200	56,500
	55	64.8	115.5	43,400	49,800
	60	62.2	113.0	38,700	44,300
	65	59.4	110.2	34,800	39,800
	70	56.6	107.1	31,500	36,100
75	53.7	103.6	28,700	32,900	
80	50.7	99.7	26,300	30,100	
85	47.5	95.4	24,100	27,700	
90	44.2	90.5	22,300	25,600	
95	40.7	85.1	20,600	23,700	
100	36.9	78.9	19,200	22,100	
105	32.7	71.7	17,800	20,600	
110	28.0	63.1	16,600	19,300	
115	22.3	52.5	15,600	18,000	

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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	81.2	135.3	133,500b	154,800*	150	110	45.0	113.0	15,500	18,100	
	26	80.3	135.0	118,800b	140,800		115	42.3	107.7	14,400	16,900	
	28	79.4	134.6	106,900b	126,000		120	39.3	102.0	13,400	15,800	
	30	78.5	134.2	97,000	113,800		125	36.2	95.5	12,500	14,800	
	32	77.6	133.8	88,700	103,700		130	32.9	88.2	11,700	13,800	
	34	76.7	133.3	81,600	95,100		135	29.2	79.9	10,900	13,000	
	36	75.7	132.9	75,500	87,700		140	25.0	70.1	10,200	12,200	
	38	74.8	132.3	70,200	81,400		145	19.9	58.0	9,500	11,400	
	40	73.9	131.8	65,500	75,800		160	28	81.4	165.0	106,100	118,500*
	45	71.6	130.2	56,000	64,500			30	80.6	164.7	96,200	113,000
	50	69.3	128.4	48,600	56,000			32	79.9	164.4	87,900	102,900
	55	66.9	126.4	42,800	49,200			34	79.2	164.0	80,800	94,300
	60	64.5	124.2	38,100	43,800			36	78.5	163.6	74,700	87,000
	65	62.0	121.7	34,200	39,300			38	77.7	163.2	69,400	80,600
	70	59.5	118.9	30,900	35,500			40	77.0	162.8	64,700	75,000
75	56.9	115.8	28,100	32,300	45	75.2		161.5	55,100	63,700		
80	54.2	112.3	25,600	29,500	50	73.3		160.1	47,800	55,100		
85	51.5	108.5	23,500	27,100	55	71.4		158.5	42,000	48,400		
90	48.6	104.3	21,700	25,000	60	69.5		156.7	37,200	42,900		
95	45.6	99.7	20,000	23,100	65	67.6		154.8	33,300	38,400		
100	42.4	94.5	18,600	21,500	70	65.6		152.6	30,000	34,700		
105	39.0	88.7	17,200	20,000	75	63.7		150.2	27,200	31,400		
110	35.4	82.1	16,000	18,600	80	61.6		147.7	24,800	28,700		
115	31.4	74.5	15,000	17,400	85	59.6	144.8	22,700	26,300			
120	26.8	65.5	14,000	16,300	90	57.5	141.8	20,800	24,200			
125	21.4	54.4	13,100	15,300	95	55.3	138.5	19,200	22,300			
140	26	81.0	145.1	118,700b	136,000*	100	53.1	134.9	17,700	20,600		
	28	80.1	144.8	106,700	125,800	105	50.9	130.9	16,400	19,100		
	30	79.3	144.4	96,900	113,600	110	48.5	126.7	15,200	17,800		
	32	78.5	144.0	88,600	103,500	115	46.1	122.1	14,100	16,600		
	34	77.6	143.6	81,500	94,900	120	43.5	117.1	13,100	15,500		
	36	76.8	143.1	75,400	87,600	125	40.9	111.5	12,200	14,400		
	38	75.9	142.7	70,100	81,200	130	38.0	105.5	11,400	13,500		
	40	75.1	142.1	65,400	75,700	135	35.0	98.7	10,600	12,700		
	45	73.0	140.7	58,800	64,400	140	31.8	91.1	9,900	11,900		
	50	70.8	139.1	48,500	55,800	145	28.2	82.5	9,200	11,100		
	55	68.6	137.2	42,700	49,100	150	24.1	72.3	8,600	10,400		
	60	66.4	135.2	37,900	43,600	155	19.3	59.8	8,000	9,800		
	65	64.2	132.9	34,000	39,100	170	30	81.2	174.9	95,800	109,600*	
	70	61.9	130.3	30,700	35,300		32	80.5	174.5	87,500	102,500	
	75	59.5	127.5	27,900	32,100		34	79.8	174.2	80,400	93,900	
80	57.1	124.4	25,500	29,400	36		79.2	173.8	74,300	86,600		
85	54.6	121.0	23,400	27,000	38		78.5	173.4	69,000	80,200		
90	52.1	117.3	21,500	24,900	40		77.8	173.0	64,300	74,600		
95	49.5	113.2	19,900	23,000	45		76.0	171.8	54,700	63,300		
100	46.7	108.8	18,400	21,300	50		74.3	170.5	47,400	54,700		
105	43.8	103.8	17,100	19,900	55		72.5	169.0	41,500	48,000		
110	40.8	98.3	15,900	18,500	60		70.8	167.4	36,800	42,500		
115	37.5	92.2	14,800	17,300	65		69.0	165.5	32,900	38,000		
120	34.0	85.2	13,800	16,200	70		67.2	163.5	29,600	34,200		
125	30.2	77.3	12,900	15,200	75		65.3	161.3	26,800	31,000		
130	25.8	67.9	12,100	14,200	80		63.4	158.9	24,300	28,200		
135	20.7	56.2	11,300	13,400	85		61.5	156.3	22,200	25,800		
150	28	80.8	154.9	106,400	124,900*	90	59.6	153.5	20,400	23,700		
	30	80.0	154.6	96,500	113,300	95	57.6	150.4	18,700	21,800		
	32	79.2	154.2	88,200	103,200	100	55.6	147.2	17,200	20,200		
	34	78.5	153.8	81,100	94,600	105	53.6	143.6	15,900	18,700		
	36	77.7	153.4	75,000	87,200	110	51.4	139.8	14,700	17,300		
	38	76.9	153.0	69,700	80,900	115	49.2	135.6	13,600	16,100		
	40	76.1	152.5	65,000	75,300	120	47.0	131.1	12,600	15,000		
	45	74.1	151.1	58,400	64,000	125	44.6	126.3	11,700	14,000		
	50	72.1	149.6	48,100	55,400	130	42.2	121.0	10,900	13,100		
	55	70.1	147.9	42,300	48,700	135	39.6	115.2	10,100	12,200		
	60	68.1	146.0	37,500	43,200	140	36.9	108.9	9,400	11,400		
	65	66.0	143.9	33,600	38,700	145	34.0	101.8	8,800	10,700		
	70	63.9	141.6	30,300	35,000	150	30.8	93.9	8,100	10,000		
	75	61.7	139.0	27,500	31,700	155	27.3	85.0	7,600	9,300		
	80	59.6	136.2	25,100	29,000	160	23.4	74.4	7,000	8,700		
85	57.3	133.1	23,000	26,600	165	18.7	61.4	6,500	8,200			
90	55.0	129.8	21,100	24,500								
95	52.7	126.1	19,500	22,600								
100	50.2	122.1	18,000	20,900								
105	47.7	117.8	16,700	19,500								

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REQUIREMENTS

3900W SERIES 2

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS	
				RETRACTED POUNDS	EXTENDED POUNDS
100	32	81.1	184.7	87,300	96,100*
	34	80.4	184.3	80,200	93,700
	36	79.8	184.0	74,100	86,300
	38	79.1	183.6	68,700	80,000
	40	78.5	183.2	64,100	74,400
	45	76.8	182.1	54,500	63,100
	50	75.2	180.9	47,100	54,500
	55	73.5	179.5	41,300	47,700
	60	71.9	177.9	36,600	42,300
	65	70.2	176.2	32,700	37,800
	70	68.5	174.3	29,400	34,000
	75	66.8	172.3	26,500	30,800
	80	65.0	170.0	24,100	28,000
	85	63.3	167.6	22,000	25,600
	90	61.5	165.0	20,100	23,500
	95	59.6	162.2	18,500	21,600
	100	57.8	159.1	17,000	20,000
	109	105	55.9	155.8	15,700
110		53.9	152.3	14,500	17,100
115		51.9	148.6	13,400	15,900
120		49.9	144.5	12,400	14,800
125		47.8	140.1	11,500	13,800
130		45.6	135.4	10,700	12,800
135		43.3	130.3	9,900	12,000
140		40.9	124.8	9,200	11,200
145		38.4	118.7	8,500	10,400
150		35.8	112.1	7,900	9,800
155		33.0	104.8	7,400	9,100
160		29.9	96.7	6,800	8,500
165		26.6	87.3	6,300	8,000
170		22.7	76.5	5,800	7,400
175		18.2	63.1	5,400	6,900
34		80.9	194.5	79,900	88,600*
36		80.3	194.1	73,700	86,000
38		79.7	193.8	68,400	79,700
40	79.1	193.4	63,700	74,100	
45	77.5	192.4	54,100	62,800	
50	76.0	191.2	46,800	54,200	
55	74.4	189.9	40,900	47,400	
60	72.9	188.4	36,200	41,900	
65	71.3	186.8	32,300	37,400	
70	69.7	185.0	29,000	33,600	
75	68.1	183.1	26,200	30,400	
80	66.4	181.0	23,700	27,700	
85	64.8	178.7	21,600	25,200	
90	63.1	176.3	19,800	23,100	
95	61.4	173.6	18,100	21,300	
100	59.7	170.8	16,600	19,600	
105	57.9	167.8	15,300	18,100	
110	56.1	164.5	14,100	16,700	
115	54.3	161.1	13,000	15,500	
120	52.4	157.3	12,000	14,400	
125	50.4	153.3	11,100	13,400	
130	48.5	149.1	10,300	12,500	
135	46.4	144.5	9,500	11,600	
140	44.3	139.5	8,800	10,800	
145	42.1	134.2	8,200	10,100	
150	39.8	128.4	7,500	9,400	
155	37.4	122.2	7,000	8,700	
160	34.8	115.3	6,400	8,100	
165	32.1	107.7	5,900	7,600	
170	29.1	99.3	5,500	7,100	
175	25.8	89.7	5,000	6,600	
180	22.1	78.4	4,600	6,100	
185	17.7	64.6	4,200	5,700	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS	
				RETRACTED POUNDS	EXTENDED POUNDS
200	34	81.4	204.6	79,700	82,500*
	36	80.8	204.3	73,600	81,700*
	38	80.2	203.9	68,200	79,500
	40	79.6	203.6	63,500	73,900
	45	78.2	202.6	54,000	62,600
	50	76.7	201.5	46,600	54,000
	55	75.2	200.2	40,800	47,200
	60	73.7	198.9	36,000	41,800
	65	72.2	197.3	32,100	37,200
	70	70.7	195.7	28,800	33,500
	75	69.2	193.8	26,000	30,200
	80	67.7	191.9	23,600	27,500
	85	66.1	189.7	21,400	25,100
	90	64.5	187.4	19,600	22,900
	95	62.9	185.0	17,900	21,100
	100	61.3	182.3	16,400	19,400
	105	59.7	179.5	15,100	17,900
	110	58.0	176.5	13,900	16,600
115	56.3	173.2	12,800	15,300	
120	54.5	169.8	11,800	14,200	
125	52.8	166.1	10,900	13,200	
130	50.9	162.2	10,100	12,300	
135	49.1	158.0	9,300	11,400	
140	47.2	153.5	8,600	10,600	
145	45.2	148.7	8,000	9,900	
150	43.1	143.5	7,400	9,200	
155	41.0	138.0	6,800	8,600	
160	38.7	132.0	6,200	8,000	
165	36.4	125.5	5,700	7,400	
170	33.9	118.4	5,300	6,900	
175	31.2	110.6	4,800	6,400	
180	28.4	101.8	4,400	5,900	
185	25.2	91.9	4,000	5,500	
190	21.6	80.4	3,700	5,100	
195	17.3	66.2	3,300	4,700	
36	81.2	214.4	73,100*	73,100*	
38	80.7	214.1	67,900	72,700*	
40	80.1	213.7	63,200	72,200*	
45	78.7	212.8	53,600	62,300	
50	77.3	211.8	46,200	53,600	
55	75.9	210.6	40,400	46,900	
60	74.5	209.2	35,600	41,400	
65	73.1	207.8	31,700	36,900	
70	71.7	206.2	28,400	33,100	
75	70.2	204.5	25,600	29,900	
80	68.8	202.6	23,200	27,100	
85	67.3	200.6	21,000	24,700	
90	65.8	198.4	19,200	22,600	
95	64.3	196.1	17,500	20,700	
100	62.8	193.6	16,000	19,000	
105	61.3	191.0	14,700	17,500	
110	59.7	188.1	13,500	16,200	
115	58.1	185.1	12,400	14,900	
120	56.5	181.9	11,400	13,800	
125	54.8	178.5	10,500	12,800	
130	53.1	174.9	9,700	11,900	
135	51.4	171.0	8,900	11,000	
140	49.6	166.9	8,200	10,200	
145	47.8	162.5	7,600	9,500	
150	46.0	157.8	6,900	8,800	
155	44.0	152.8	6,400	8,100	
160	42.0	147.4	5,800	7,500	
165	39.9	141.7	5,300	7,000	
170	37.8	135.5	4,900	6,500	
175	35.5	128.8	4,400	6,000	
180	33.1	121.4	4,000	5,500	
185	30.5	113.3	3,600	5,100	
190	27.7	104.3	3,200	4,700	
195	24.6	94.1		4,300	
200	21.0	82.2		3,900	
205	16.8	67.7		3,500	

MANITOWOC ENGINEERING CO.

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



LIFT CRANE CAPACITIES

BOOM NO. 9A WITH OPEN THROAT TOP
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		BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY CRAWLERS	
				RETRACTED POUNDS	EXTENDED POUNDS					RETRACTED POUNDS	EXTENDED POUNDS
220	38	81.1	224.2	62,000*	62,000*	240	45	80.2	243.3	49,000*	49,000*
	40	80.6	223.9	61,700*	61,700*		50	78.9	242.4	45,300	48,200*
	45	79.3	223.0	53,400	60,800*		55	77.7	241.4	39,500	46,000
	50	77.9	222.0	46,000	53,400		60	76.5	240.2	34,700	40,500
	55	76.6	220.9	40,200	46,600		65	75.3	239.0	30,800	36,000
	60	75.3	219.6	35,400	41,200		70	74.0	237.6	27,500	32,200
	65	73.9	218.2	31,500	36,700		75	72.8	236.1	24,700	28,900
	70	72.5	216.7	28,200	32,900		80	71.5	234.5	22,200	26,200
	75	71.2	215.1	25,400	29,700		85	70.3	232.8	20,100	23,800
	80	69.8	213.3	23,000	26,900		90	69.0	230.9	18,200	21,600
	85	68.4	211.4	20,800	24,500		95	67.7	228.9	16,600	19,800
	90	67.0	209.3	19,000	22,400		100	66.4	226.8	15,100	18,100
	95	65.6	207.2	17,300	20,500		105	65.1	224.6	13,800	16,600
	100	64.1	204.8	15,800	18,800		110	63.8	222.2	12,600	15,200
	105	62.7	202.3	14,500	17,300		115	62.5	219.6	11,500	14,000
	110	61.2	199.6	13,300	16,000		120	61.1	217.0	10,500	12,900
	115	59.7	196.8	12,200	14,700		125	59.7	214.1	9,600	11,900
	120	58.2	193.8	11,200	13,600		130	58.3	211.1	8,800	10,900
	125	56.6	190.6	10,300	12,600		135	56.9	207.9	8,000	10,100
	130	55.1	187.2	9,500	11,700		140	55.5	204.6	7,300	9,300
	135	53.5	183.6	8,700	10,800		145	54.0	201.1	6,600	8,500
	140	51.8	179.8	8,000	10,000		150	52.5	197.3	6,000	7,900
145	50.1	175.7	7,400	9,300	155	51.0	193.4	5,400	7,200		
150	48.4	171.4	6,800	8,600	160	49.5	189.2	4,900	6,600		
155	46.7	166.9	6,200	8,000	165	47.9	184.8	4,400	6,100		
160	44.8	162.0	5,600	7,400	170	46.2	180.2	3,900	5,500		
165	43.0	156.8	5,100	6,800	175	44.6	175.3	3,500	5,000		
170	41.0	151.2	4,700	6,300	180	42.8	170.0	3,100	4,600		
175	39.0	145.3	4,200	5,800	185	41.0	164.5	2,800	4,100		
180	36.9	138.9	3,800	5,300	190	39.2	158.5	2,500	3,700		
185	34.6	131.9	3,400	4,900	195	37.3	152.2	2,200	3,300		
190	32.3	124.3	3,000	4,500	200	35.2	145.4	1,900	3,000		
195	29.8	116.0	2,700	4,100							
200	27.0	106.8	2,400	3,700							
205	24.0	96.3	2,100	3,300							
210	20.6	84.1	1,800	3,000							
230	40	81.0	234.0	56,300*	56,300*	250	45	80.6	253.5	44,800*	44,800*
	45	79.7	233.2	53,000	55,400*		50	79.4	252.6	44,000*	44,000*
	50	78.5	232.2	45,700	53,100		55	78.2	251.6	39,100	43,200*
	55	77.2	231.1	39,800	46,300		60	77.1	250.5	34,300	40,100
	60	75.9	229.9	35,100	40,800		65	75.9	249.3	30,400	35,600
	65	74.6	228.6	31,100	36,300		70	74.7	248.0	27,100	31,800
	70	73.3	227.2	27,800	32,500		75	73.5	246.6	24,300	28,600
	75	72.0	225.6	25,000	29,300		80	72.3	245.0	21,800	25,800
	80	70.7	223.9	22,600	26,500		85	71.1	243.4	19,700	23,400
	85	69.4	222.1	20,500	24,100		90	69.9	241.6	17,900	21,300
	90	68.0	220.2	18,600	22,000		95	68.7	239.7	16,200	19,400
	95	66.7	218.1	16,900	20,100		100	67.4	237.7	14,700	17,700
	100	65.3	215.9	15,500	18,400		105	66.2	235.5	13,400	16,200
	105	64.0	213.5	14,100	16,900		110	64.9	233.3	12,200	14,900
	110	62.6	211.0	12,900	15,600		115	63.6	230.9	11,100	13,600
	115	61.1	208.3	11,800	14,400		120	62.4	228.3	10,100	12,500
	120	59.7	205.5	10,900	13,300		125	61.1	225.6	9,200	11,500
	125	58.3	202.5	9,900	12,200		130	59.7	222.8	8,400	10,600
	130	56.8	199.3	9,100	11,300		135	58.4	219.8	7,600	9,700
	135	55.3	195.9	8,300	10,400		140	57.0	216.6	6,900	8,900
	140	53.8	192.3	7,600	9,600		145	55.7	213.3	6,200	8,100
	145	52.2	188.6	7,000	8,900		150	54.3	209.8	5,600	7,500
150	50.6	184.6	6,400	8,200	155	52.8	206.1	5,000	6,800		
155	49.0	180.3	5,800	7,600	160	51.4	202.2	4,500	6,200		
160	47.3	175.9	5,300	7,000	165	49.9	198.1	4,000	5,700		
165	45.6	171.1	4,800	6,400	170	48.4	193.8	3,500	5,100		
170	43.8	166.1	4,300	5,900	175	46.8	189.2	3,100	4,600		
175	42.0	160.7	3,800	5,400	180	45.3	184.4	2,800	4,200		
180	40.1	154.9	3,400	4,900	185	43.6	179.3	2,500	3,700		
185	38.1	148.8	3,000	4,500	190	41.9	173.9	2,200	3,300		
190	36.0	142.1	2,700	4,100							
195	33.9	135.0	2,400	3,700							
200	31.6	127.2	2,100	3,300							
205	29.1	118.7	1,800	3,000							