

# MANITOWOC ENGINEERING CO.

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



## LIFTCRANE CAPACITIES

MEETS  
ANSI B30.5  
REQUIREMENTS

## 4600 SERIES 5

**BOOM NO. 27B WITH OPEN THROAT TOP**  
**161,400 LB. OR 164,400 LB. CRANE COUNTERWEIGHT**  
**110,000 LB. CARBODY 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 (\*).

UPPER BOOM POINT CAPACITY FOR LIFTCRANE SERVICE WITH SINGLE PART WHIP LINE IS 44,000 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. 65234 AND WIRE ROPE SPECIFICATION CHART NO. 6645-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 30'5" CRAWLERS, 60" TREADS, 33' RETRACTABLE GANTRY, 12 PART BOOM HOIST REEVING, FOUR 1-3/8" BOOM PENDANTS, 164,400 LB. CRANE COUNTERWEIGHT (161,400 LB. COUNTERWEIGHT ON SERIAL NO. 460001 THRU NO. 460045), AND 110,000 LB. CARBODY COUNTERWEIGHT. ROTATING BED MODIFICATION PER DRAWING NO. 420317 REQUIRED ON SERIAL NO. 460001 THRU NO. 460049.

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED					
OVER FRONT OF CRAWLERS			OVER SIDE OF CRAWLERS		DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED
BOOM LGTH.	JIB NO.	125	BOOM LGTH.	JIB NO.	
310'	---		310'	---	40'
300'	---		300'	---	50'
290'	---		290'	---	60'
280'	40'		280'	40'	70'
270'	60'		270'	60'	80'
260'	80'		260'	80'	

LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START. TO COMPLY WITH B30.5 REQUIREMENTS, INSERT NO. 49682 CANNOT BE USED ON 310' BOOM.

CONSULT JIB CHART FOR JIB CAPACITIES.

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
80	20	80.3	87.8	700,000*	90	20	81.4	97.9	675,000*	100	22	81.1	107.7	619,600*
	21	79.6	87.6	649,600*		21	80.7	97.8	647,900*		23	80.5	107.6	598,300*
	22	78.8	87.4	624,500*		22	80.1	97.6	622,800*		24	79.9	107.4	573,000*
	23	78.1	87.2	601,200*		23	79.4	97.4	599,500*		25	79.3	107.2	543,700*
	24	77.4	87.0	579,500*		24	78.8	97.2	577,800*		26	78.8	107.0	517,500*
	25	76.6	86.8	559,300*		25	78.1	97.0	557,600*		27	78.2	106.8	493,700*
	26	75.9	86.5	540,400*		26	77.5	96.8	538,800*		28	77.6	106.6	472,200*
	27	75.2	86.3	516,300*		27	76.8	96.6	515,000*		29	77.0	106.4	452,500*
	28	74.4	86.0	490,200*		28	76.2	96.3	488,900*		30	76.4	106.1	434,500*
	29	73.7	85.7	466,600*		29	75.5	96.1	465,300*		32	75.2	105.6	401,800*
	30	72.9	85.4	445,100*		30	74.9	95.8	443,700*		34	74.0	105.1	366,200*
	32	71.4	84.8	402,900*		32	73.5	95.2	402,200*		36	72.8	104.5	336,200*
	34	69.9	84.1	367,400*		34	72.2	94.6	366,700*		38	71.6	103.8	310,600*
	36	68.4	83.3	337,400*		36	70.9	94.0	336,700*		40	70.4	103.2	288,400*
	38	66.8	82.5	311,800*		38	69.5	93.2	311,100*		45	67.4	101.2	244,300*
	40	65.2	81.6	289,700*		40	68.1	92.5	289,000*		50	64.2	99.0	211,300*
	45	61.2	79.1	245,600*		45	64.7	90.3	244,800*		55	61.0	96.4	185,800*
	50	57.1	76.1	212,700*		50	61.1	87.7	211,900*		60	57.7	93.4	165,400*
55	52.7	72.6	187,100*	55	57.4	84.8	186,300*	65	54.2	90.0	148,700*			
60	48.0	68.4	166,700*	60	53.5	81.3	165,900*	70	50.6	86.2	134,900*			
65	43.0	63.5	147,700*	65	49.5	77.3	149,300*	75	46.8	81.8	123,200*			
70	37.5	57.6	128,700*	70	45.1	72.7	135,500*	80	42.7	76.7	113,200*			
75	31.1	50.3	112,100*	75	40.4	67.3	122,800*	85	38.3	70.9	104,200*			
				80	35.2	60.9	108,200*	90	33.4	64.0	92,600*			
				85	29.3	53.0	95,100*	95	27.7	55.5	81,900*			

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MEETS  
ANSI B30.5  
REQUIREMENTS

## 4600 SERIES 5

BOOM NO. 27B WITH OPEN THROAT TOP  
161,400 LB. OR 164,400 LB. CRANE COUNTERWEIGHT  
110,000 LB. CARBODY COUNTERWEIGHT  
360 DEGREE RATING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
<b>110</b>	23	81.4	117.7	580,700*	<b>130</b>	65	63.3	125.0	146,300	<b>160</b>	32	80.8	166.9	333,800*
	24	80.8	117.5	549,200*		70	60.8	122.4	132,400		34	80.1	166.6	310,600*
	25	80.3	117.4	521,200*		75	58.2	119.4	120,700		36	79.4	166.2	290,600*
	26	79.8	117.2	496,100*		80	55.6	116.2	110,700		38	78.6	165.8	273,100*
	27	79.3	117.0	473,400*		85	52.9	112.6	102,000		40	77.9	165.4	257,800*
	28	78.7	116.8	452,800*		90	50.0	108.6	94,400		45	76.1	164.2	226,300*
	29	78.2	116.6	434,100*		95	47.1	104.2	87,700		50	74.2	162.9	202,000*
	30	77.7	116.4	416,900*		100	44.0	99.3	81,800		55	72.4	161.4	182,100
	32	76.6	115.9	386,500*		105	40.7	93.8	76,500		60	70.5	159.7	161,700
	34	75.5	115.4	360,400*		110	37.2	87.6	71,700		65	68.6	157.9	145,000
	36	74.4	114.9	335,500		115	33.4	80.5	66,300*		70	66.6	155.8	131,100
	38	73.4	114.3	309,800		120	29.2	72.3	59,600*		75	64.7	153.5	119,400
	40	72.3	113.7	287,700		28	81.2	147.3	411,300*		80	62.7	151.1	109,300
	45	69.5	112.0	243,500		29	80.8	147.1	393,900*		85	60.6	148.4	100,600
	50	66.7	110.0	210,600		30	80.3	147.0	378,100*		90	58.5	145.4	93,000
55	63.8	107.7	185,000	32	79.5	146.6	350,100*	95	56.4	142.2	86,300			
60	60.9	105.1	164,600	34	78.7	146.2	326,300*	100	54.2	138.8	80,400			
65	57.9	102.1	147,900	36	77.8	145.8	305,700*	105	52.0	135.0	75,000			
70	54.7	98.8	134,100	38	77.0	145.3	287,600*	110	49.7	131.0	70,300			
75	51.5	95.0	122,400	40	76.2	144.9	271,700*	115	47.3	126.5	65,900			
80	48.1	90.8	112,300	45	74.0	143.5	239,000*	120	44.8	121.7	62,000			
85	44.5	86.0	103,700	50	71.9	142.0	208,500	125	42.2	116.4	58,400			
90	40.6	80.5	96,100	55	69.7	140.3	182,900	130	39.5	110.7	55,100			
95	36.4	74.3	89,000*	60	67.5	138.3	162,500	135	36.6	104.3	52,100			
100	31.8	66.9	79,500*	65	65.3	136.1	145,800	140	33.4	97.1	49,200*			
105	26.4	57.9	70,700*	70	63.0	133.7	132,000	145	30.0	89.0	44,500*			
25	81.1	127.5	504,300*	75	60.7	131.0	120,200	150	26.2	79.7	40,100*			
26	80.6	127.3	479,800*	80	58.3	128.1	110,200	32	81.4	177.0	324,400*			
27	80.2	127.2	457,700*	85	55.9	124.9	101,500	34	80.7	176.7	301,600*			
28	79.7	127.0	437,700*	90	53.4	121.3	93,900	36	80.0	176.4	282,000*			
29	79.2	126.8	419,500*	95	50.8	117.4	87,200	38	79.3	176.0	264,900*			
30	78.7	126.6	402,800*	100	48.1	113.1	81,300	40	78.6	175.6	249,900*			
32	77.7	126.2	373,400*	105	45.3	108.4	76,000	45	76.9	174.5	219,200*			
34	76.8	125.7	348,200*	110	42.3	103.2	71,200	50	75.2	173.3	195,500*			
36	75.8	125.3	326,400*	115	39.2	97.4	66,900	55	73.4	171.9	176,500*			
38	74.8	124.7	307,200*	120	35.8	90.9	62,900	60	71.7	170.3	160,900			
40	73.8	124.2	287,000	125	32.2	83.5	57,900*	65	69.9	168.6	144,200			
45	71.3	122.6	242,800	130	28.1	74.9	52,100*	70	68.1	166.6	130,300			
50	68.7	120.8	209,800	29	81.4	157.2	383,800*	75	66.2	164.5	118,500			
55	66.2	118.7	184,200	30	81.0	157.1	368,100*	80	64.4	162.2	108,500			
60	63.5	116.4	163,800	32	80.2	156.8	340,600*	85	62.5	159.7	99,800			
65	60.8	113.7	147,100	34	79.4	156.4	317,200*	90	60.6	157.0	92,200			
70	58.1	110.8	133,300	36	78.7	156.0	296,900*	95	58.6	154.1	85,500			
75	55.2	107.5	121,600	38	77.9	155.6	279,200*	100	56.6	150.9	79,500			
80	52.2	103.8	111,500	40	77.1	155.1	263,700*	105	54.6	147.5	74,200			
85	49.1	99.7	102,900	45	75.1	153.9	231,700*	110	52.5	143.8	69,400			
90	45.9	95.1	95,300	50	73.1	152.5	206,900*	115	50.3	139.8	65,100			
95	42.5	90.0	88,600	55	71.1	150.9	182,100	120	48.1	135.5	61,200			
100	38.8	84.2	82,600	60	69.1	149.1	161,700	125	45.8	130.8	57,600			
105	34.8	77.5	76,800*	65	67.0	147.1	145,000	130	43.4	125.8	54,300			
110	30.4	69.7	68,800*	70	65.0	144.8	131,100	135	40.9	120.2	51,200			
115	25.3	60.2	61,300*	75	62.8	142.4	119,400	140	38.3	114.2	48,500			
26	81.4	137.5	464,100*	80	60.7	139.7	109,400	145	35.4	107.5	45,900			
27	80.9	137.3	442,600*	85	58.4	136.8	100,700	150	32.4	100.1	42,500*			
28	80.5	137.1	423,100*	90	56.2	133.5	93,100	155	29.1	91.7	38,400*			
29	80.0	137.0	405,400*	95	53.8	130.0	86,400	160	25.5	82.0	34,500*			
30	79.6	136.8	389,200*	100	51.4	126.2	80,400							
32	78.7	136.4	360,700*	105	49.0	122.1	75,100							
34	77.8	136.0	336,300*	110	46.4	117.5	70,300							
36	76.9	135.5	315,100*	115	43.7	112.5	66,000							
38	76.0	135.1	296,600*	120	40.8	107.0	62,100							
40	75.1	134.5	280,300*	125	37.8	100.9	58,500							
45	72.8	133.1	242,000	130	34.6	94.1	55,200							
50	70.5	131.4	209,000	135	31.1	86.3	50,200*							
55	68.1	129.6	183,400	140	27.1	77.3	45,200*							
60	65.7	127.4	163,000											

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BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
180	34	81.2	186.8	296,400*
	36	80.6	186.5	276,900*
	38	79.9	186.2	259,900*
	40	79.3	185.8	244,900*
	45	77.6	184.8	214,400*
	50	76.0	183.6	190,900*
	55	74.4	182.3	172,200*
	60	72.7	180.8	156,900*
	65	71.0	179.2	143,600*
	70	69.3	177.4	129,700*
	75	67.6	175.4	118,000*
	80	65.9	173.2	108,000*
85	64.1	170.9	99,300*	
90	62.4	168.4	91,700*	
95	60.5	165.7	84,900*	
100	58.7	162.7	79,000*	
105	56.8	159.6	73,700*	
110	54.9	156.2	68,900*	
115	52.9	152.6	64,500*	
120	50.9	148.6	60,600*	
125	48.8	144.4	57,000*	
130	46.7	139.9	53,700*	
135	44.4	135.0	50,700*	
140	42.1	129.7	47,900*	
145	39.7	123.9	45,300*	
150	37.1	117.6	42,900*	
155	34.4	110.7	40,700*	
160	31.5	102.9	37,100*	
165	28.3	94.2	33,400*	
190	36	81.1	196.6	269,700*
	38	80.5	196.3	253,000*
	40	79.8	196.0	238,300*
	45	78.3	195.0	208,300*
	50	76.8	193.9	185,300*
	55	75.2	192.6	166,900*
	60	73.6	191.2	151,900*
	65	72.1	189.7	139,400*
	70	70.5	188.0	128,700*
	75	68.9	186.2	117,200*
	80	67.2	184.1	107,100*
	85	65.6	182.0	98,400*
	90	63.9	179.6	90,800*
	95	62.2	177.1	84,100*
	100	60.5	174.3	78,200*
	105	58.8	171.4	72,800*
	110	57.0	168.3	68,000*
115	55.2	164.9	63,700*	
120	53.3	161.3	59,800*	
125	51.4	157.5	56,200*	
130	49.5	153.3	52,900*	
135	47.4	148.9	49,900*	
140	45.4	144.1	47,100*	
145	43.2	139.0	44,500*	
150	41.0	133.5	42,100*	
155	38.6	127.5	39,800*	
160	36.1	120.9	37,700*	
165	33.5	113.7	35,100*	
170	30.6	105.7	31,700*	
175	27.5	96.7	28,400*	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
200	36	81.5	206.7	264,000*
	38	80.9	206.4	247,500*
	40	80.4	206.1	233,000*
	45	78.9	205.2	203,500*
	50	77.4	204.1	180,900*
	55	76.0	203.0	162,800*
	60	74.5	201.6	148,100*
	65	73.0	200.2	135,800*
	70	71.5	198.6	125,400*
	75	70.0	196.8	116,400*
	80	68.4	194.9	106,900*
	85	66.9	192.9	98,200*
	90	65.3	190.7	90,600*
	95	63.7	188.3	83,900*
	100	62.1	185.7	78,000*
	105	60.5	183.0	72,600*
	110	58.8	180.1	67,800*
115	57.1	176.9	63,500*	
120	55.4	173.6	59,600*	
125	53.7	170.1	56,000*	
130	51.9	166.3	52,700*	
135	50.0	162.2	49,600*	
140	48.1	157.9	46,800*	
145	46.2	153.2	44,300*	
150	44.2	148.2	41,900*	
155	42.1	142.9	39,600*	
160	39.9	137.1	37,500*	
165	37.6	130.9	35,600*	
170	35.2	124.1	33,800*	
175	32.6	116.7	30,700*	
180	29.8	108.4	27,700*	
185	26.8	99.1	24,800*	
210	38	81.4	216.6	244,100*
	40	80.8	216.2	229,600*
	45	79.4	215.4	200,000*
	50	78.0	214.4	177,300*
	55	76.6	213.3	159,300*
	60	75.2	212.0	144,700*
	65	73.8	210.6	132,500*
	70	72.4	209.1	122,100*
	75	71.0	207.5	113,200*
	80	69.5	205.7	105,500*
	85	68.0	203.7	97,400*
	90	66.6	201.6	89,800*
	95	65.1	199.4	83,100*
	100	63.6	197.0	77,200*
	105	62.0	194.4	71,800*
	110	60.5	191.7	67,000*
	115	58.9	188.7	62,700*
120	57.3	185.6	58,800*	
125	55.6	182.3	55,200*	
130	54.0	178.8	51,900*	
135	52.3	175.0	48,800*	
140	50.5	171.0	46,000*	
145	48.7	166.8	43,400*	
150	46.9	162.3	41,000*	
155	45.0	157.4	38,800*	
160	43.0	152.2	36,700*	
165	41.0	146.7	34,800*	
170	38.9	140.7	32,900*	
175	36.6	134.3	31,000*	
180	34.3	127.2	28,900*	
185	31.8	119.6	26,100*	
190	29.1	111.1	23,300*	
195	26.2	101.5	20,700*	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
220	40	81.2	226.4	224,600*
	45	79.9	225.5	195,400*
	50	78.6	224.6	173,000*
	55	77.3	223.5	155,300*
	60	75.9	222.3	140,800*
	65	74.6	221.0	128,800*
	70	73.2	219.6	118,600*
	75	71.9	218.0	109,900*
	80	70.5	216.3	102,300*
	85	69.1	214.5	95,600*
	90	67.7	212.5	89,300*
	95	66.3	210.4	82,500*
	100	64.8	208.1	76,600*
	105	63.4	205.7	71,200*
	110	61.9	203.1	66,400*
	115	60.5	200.3	62,100*
	120	58.9	197.4	58,200*
125	57.4	194.3	54,600*	
130	55.8	191.0	51,300*	
135	54.3	187.5	48,200*	
140	52.6	183.8	45,400*	
145	51.0	179.9	42,900*	
150	49.3	175.7	40,400*	
155	47.5	171.3	38,200*	
160	45.8	166.5	36,100*	
165	43.9	161.5	34,200*	
170	42.0	156.1	32,100*	
175	40.0	150.4	30,200*	
180	37.9	144.2	28,400*	
185	35.8	137.5	26,600*	
190	33.5	130.3	24,600*	
195	31.0	122.4	22,000*	
200	28.4	113.6	19,500*	
205	25.5	103.8	17,100*	

# MANITOWOC ENGINEERING CO.

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



## LIFT CRANE CAPACITIES

MEETS ANSI B30.5 REQUIREMENTS

## 4600 SERIES 5

BOOM NO. 27B WITH OPEN THROAT TOP  
 161,400 LB. OR 164,400 LB. CRANE COUNTERWEIGHT  
 110,000 LB. CARBODY COUNTERWEIGHT  
 360 DEGREE RATING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
<b>230</b>	45	80.4	235.7	193,000*	<b>240</b>	185	41.9	169.4	25,100*	<b>260</b>	150	56.5	225.8	37,900
	50	79.1	234.8	170,400*		190	40.1	163.6	23,500*		155	55.2	222.4	35,700
	55	77.8	233.8	152,600*		195	38.2	157.5	21,900*		160	53.8	218.8	33,300*
	60	76.5	232.6	138,100*		200	36.3	150.9	20,500*		165	52.4	215.0	31,100*
	65	75.3	231.4	126,100*		205	34.2	143.8	19,100*		170	51.0	211.1	28,900*
	70	74.0	230.0	115,900*		210	32.0	136.2	17,200*		175	49.6	206.9	26,900*
	75	72.7	228.5	107,200*		215	29.7	127.8	15,000*		180	48.1	202.6	25,100*
	80	71.4	226.9	99,700*		220	27.2	118.6	12,900*		185	46.6	198.0	23,300*
	85	70.0	225.1	93,000*		45	81.1	256.0	185,200*		190	45.1	193.1	21,600*
	90	68.7	223.2	87,100*		50	80.0	255.1	163,100*		195	43.5	188.0	20,100*
	95	67.4	221.2	81,700*	55	78.8	254.2	145,600*	200		41.9	182.6	18,600*	
	100	66.0	219.1	75,800*	60	77.6	253.1	131,500*	205		40.2	176.9	17,200*	
	105	64.6	216.8	70,400*	65	76.5	252.0	119,800*	210		38.5	170.8	15,900*	
	110	63.3	214.3	65,600*	70	75.3	250.7	109,900*	215		36.7	164.3	14,600*	
	115	61.9	211.7	61,300*	75	74.1	249.4	101,400*	220		34.8	157.3	13,400*	
	120	60.4	209.0	57,400*	80	72.9	247.9	94,100*	225		32.8	149.9	12,300*	
	125	59.0	206.1	53,800*	85	71.7	246.3	87,600*	230		30.7	141.8	10,400*	
	130	57.5	203.0	50,500*	90	70.5	244.6	81,900*	235		28.5	133.0	8,600*	
	135	56.0	199.7	47,400*	95	69.3	242.7	76,800*	240		26.1	123.3	6,800*	
	140	54.5	196.2	44,600*	100	68.0	240.8	72,200*	50		80.7	275.4	158,500*	
	145	53.0	192.6	42,000*	105	66.8	238.7	68,000*	55		79.7	274.5	141,000*	
150	51.4	188.7	39,600*	110	65.5	236.5	64,200*	60	78.6	273.6	126,800*			
155	49.8	184.6	37,400*	115	64.3	234.2	60,200*	65	77.5	272.5	115,000*			
160	48.1	180.2	35,300*	120	63.0	231.7	56,300*	70	76.4	271.4	105,100*			
165	46.4	175.6	33,200*	125	61.7	229.1	52,700*	75	75.3	270.1	96,700*			
170	44.7	170.7	31,100*	130	60.4	226.3	49,400*	80	74.2	268.7	89,400*			
175	42.9	165.5	29,100*	135	59.1	223.4	46,300*	85	73.1	267.3	83,000*			
180	41.0	159.9	27,300*	140	57.7	220.3	43,500*	90	72.0	265.7	77,400*			
185	39.1	154.0	25,600*	145	56.4	217.1	40,900*	95	70.9	264.0	72,300*			
190	37.1	147.6	23,900*	150	55.0	213.7	38,500*	100	69.7	262.2	67,800*			
195	35.0	140.7	22,400*	155	53.6	210.1	36,300*	105	68.6	260.3	63,700*			
200	32.7	133.3	20,400*	160	52.1	206.3	33,900*	110	67.5	258.3	60,000*			
205	30.3	125.1	18,100*	165	50.7	202.3	31,700*	115	66.3	256.2	56,600*			
210	27.8	116.1	15,800*	170	49.2	198.1	29,600*	120	65.1	253.9	53,400*			
215	25.0	106.0	13,600*	175	47.6	193.6	27,600*	125	64.0	251.5	50,500*			
45	80.8	245.8	189,300*	180	46.1	188.9	25,700*	130	62.8	249.0	47,800*			
50	79.6	245.0	167,000*	185	44.4	184.0	24,000*	135	61.6	246.4	44,900*			
55	78.3	244.0	149,400*	190	42.8	178.7	22,400*	140	60.4	243.6	42,100*			
60	77.1	242.9	135,100*	195	41.1	173.2	20,800*	145	59.1	240.7	39,500*			
65	75.9	241.7	123,200*	200	39.3	167.2	19,300*	150	57.9	237.6	37,100*			
70	74.7	240.4	113,200*	205	37.4	160.9	18,000*	155	56.6	234.4	34,700*			
75	73.4	239.0	104,600*	210	35.5	154.2	16,700*	160	55.4	231.1	32,200*			
80	72.2	237.4	97,200*	215	33.5	146.9	15,400*	165	54.1	227.5	30,000*			
85	70.9	235.7	90,600*	220	31.4	139.0	13,500*	170	52.7	223.8	27,800*			
90	69.6	233.9	84,800*	225	29.1	130.4	11,500*	175	51.4	219.9	25,800*			
95	68.4	232.0	79,600*	230	26.6	121.0	9,600*	180	50.0	215.8	24,000*			
100	67.1	230.0	74,900*	50	80.4	265.3	162,100*	185	48.6	211.5	22,200*			
105	65.8	227.8	70,100*	55	79.2	264.4	144,400*	190	47.2	207.0	20,500*			
110	64.5	225.5	65,300*	60	78.1	263.4	130,100*	195	45.7	202.2	18,900*			
115	63.1	223.0	61,000*	65	77.0	262.3	118,200*	200	44.2	197.2	17,500*			
120	61.8	220.4	57,100*	70	75.9	261.1	108,200*	205	42.7	192.0	16,000*			
125	60.4	217.6	53,500*	75	74.7	259.8	99,700*	210	41.1	186.4	14,700*			
130	59.0	214.7	50,200*	80	73.6	258.3	92,300*	215	39.4	180.5	13,400*			
135	57.6	211.6	47,100*	85	72.4	256.8	85,800*	220	37.7	174.2	12,200*			
140	56.2	208.4	44,300*	90	71.3	255.2	80,100*	225	36.0	167.5	11,100*			
145	54.8	204.9	41,700*	95	70.1	253.4	75,000*	230	34.1	160.4	10,000*			
150	53.3	201.3	39,300*	100	68.9	251.5	70,400*	235	32.2	152.8	8,900*			
155	51.8	197.5	37,100*	105	67.7	249.6	66,300*	240	30.1	144.5	6,100*			
160	50.2	193.4	35,000*	110	66.5	247.4	62,500*							
165	48.7	189.2	32,800*	115	65.3	245.2	59,000*							
170	47.1	184.6	30,700*	120	64.1	242.9	55,700*							
175	45.4	179.8	28,700*	125	62.9	240.4	52,100*							
180	43.7	174.8	26,900*	130	61.6	237.7	48,800*							
				135	60.4	235.0	45,700*							
				140	59.1	232.0	42,900*							
				145	57.8	229.0	40,300*							

# MANITOWOC ENGINEERING CO.

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



## LIFT CRANE CAPACITIES

MEETS  
ANSI B30.5  
REQUIREMENTS

## 4600 SERIES 5

BOOM NO. 27B WITH OPEN THROAT TOP  
161,400 LB. OR 164,400 LB. CRANE COUNTERWEIGHT  
110,000 LB. CARBODY COUNTERWEIGHT  
360 DEGREE RATING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
200	50	81.1	285.5	155,800*
	55	80.0	284.7	138,300*
	60	79.0	283.8	124,200*
	65	77.9	282.8	112,600*
	70	76.9	281.6	102,800*
	75	75.8	280.4	94,500*
	80	74.8	279.1	87,300*
	85	73.7	277.7	80,900*
	90	72.6	276.2	75,400*
	95	71.6	274.6	70,400*
	100	70.5	272.9	65,900*
	105	69.4	271.0	61,900*
	110	68.3	269.1	58,200*
	115	67.2	267.1	54,800*
	120	66.1	264.9	51,800*
	125	65.0	262.6	48,900*
	130	63.8	260.2	46,200*
	135	62.7	257.7	43,800*
	140	61.5	255.1	41,400*
	145	60.4	252.3	39,200*
150	59.2	249.4	36,800*	
155	58.0	246.3	34,200*	
160	56.8	243.1	31,800*	
165	55.5	239.8	29,500*	
170	54.3	236.2	27,400*	
175	53.0	232.6	25,400*	
180	51.7	228.7	23,500*	
185	50.4	224.7	21,700*	
190	49.1	220.4	20,000*	
195	47.7	216.0	18,500*	
200	46.3	211.3	17,000*	
205	44.9	206.4	15,600*	
210	43.4	201.3	14,200*	
215	41.9	195.8	12,900*	
220	40.3	190.1	11,700*	
225	38.7	184.0	10,600*	
230	37.0	177.6	9,500*	
235	35.3	170.8	7,300*	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
200	55	80.4	294.9	135,200*
	60	79.4	294.0	121,200*
	65	78.4	293.0	109,700*
	70	77.4	291.9	100,000*
	75	76.3	290.7	91,700*
	80	75.3	289.5	84,600*
	85	74.3	288.1	78,300*
	90	73.3	286.7	72,800*
	95	72.2	285.1	67,900*
	100	71.2	283.5	63,500*
	105	70.1	281.7	59,500*
	110	69.1	279.8	55,900*
	115	68.0	277.9	52,600*
	120	67.0	275.8	49,500*
	125	65.9	273.6	46,700*
	130	64.8	271.3	44,100*
	135	63.7	268.9	41,700*
	140	62.6	266.4	39,400*
	145	61.5	263.7	37,300*
	150	60.3	260.9	35,300*
155	59.2	258.0	33,200*	
160	58.0	255.0	30,700*	
165	56.9	251.8	28,500*	
170	55.7	248.5	26,300*	
175	54.5	245.0	24,300*	
180	53.3	241.3	22,400*	
185	52.0	237.5	20,600*	
190	50.7	233.5	19,000*	
195	49.5	229.3	17,400*	
200	48.1	224.9	15,900*	
205	46.8	220.4	14,500*	
210	45.4	215.5	13,100*	
215	44.0	210.5	11,800*	
220	42.6	205.2	10,600*	
225	41.1	199.6	8,700*	
230	39.6	193.7	5,600*	
300	55	80.7	305.0	132,500*
	60	79.7	304.1	118,600*
	65	78.8	303.2	107,200*
	70	77.8	302.1	97,500*
	75	76.8	301.0	89,300*
	80	75.8	299.8	82,200*
	85	74.8	298.5	76,100*
	90	73.8	297.1	70,600*
	95	72.8	295.6	65,700*
	100	71.8	294.0	61,400*
	105	70.8	292.3	57,400*
	110	69.8	290.5	53,800*
	115	68.8	288.6	50,600*
	120	67.8	286.6	47,600*
	125	66.7	284.5	44,800*
	130	65.7	282.3	42,200*
	135	64.6	280.0	39,800*
	140	63.6	277.6	37,600*
	145	62.5	275.1	35,500*
	150	61.4	272.4	33,500*
155	60.3	269.6	31,700*	
160	59.2	266.7	29,900*	
165	58.1	263.6	27,600*	
170	57.0	260.5	25,500*	
175	55.8	257.1	23,500*	
180	54.7	253.7	21,600*	
185	53.5	250.1	19,800*	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS	
300	190	52.3	246.3	18,100*	
	195	51.1	242.3	16,500*	
	200	49.8	238.2	15,000*	
	205	48.6	233.9	13,600*	
	210	47.3	229.4	12,300*	
	215	46.0	224.6	10,500*	
	220	44.6	219.7	7,300*	
	225	43.3	214.5	4,400*	
	310	55	81.0	315.1	130,000*
		60	80.1	314.3	116,200*
65		79.1	313.4	104,900*	
70		78.2	312.4	95,300*	
75		77.2	311.3	87,200*	
80		76.3	310.1	80,100*	
85		75.3	308.8	74,000*	
90		74.4	307.5	68,600*	
95		73.4	306.0	63,800*	
100		72.4	304.5	59,400*	
105	71.5	302.9	55,500*		
110	70.5	301.1	52,000*		
115	69.5	299.3	48,800*		
120	68.5	297.4	45,800*		
125	67.5	295.4	43,100*		
130	66.5	293.3	40,500*		
135	65.5	291.1	38,200*		
140	64.5	288.7	36,000*		
145	63.5	286.3	33,900*		
150	62.4	283.7	32,000*		
155	61.4	281.1	30,200*		
160	60.3	278.3	28,500*		
165	59.3	275.4	26,800*		
170	58.2	272.3	24,800*		
175	57.1	269.1	22,800*		
180	56.0	265.8	20,900*		
185	54.8	262.4	19,100*		
190	53.7	258.8	17,400*		
195	52.6	255.0	15,800*		
200	51.4	251.1	14,300*		
205	50.2	247.1	11,300*		
210	49.0	242.8	8,200*		
215	47.7	238.3	5,200*		
220	46.5	233.7	4,400*		