

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

OFFSET 4-1/2 DEGREES

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 LIFT CRANE 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				DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED	
OVER FRONT OF CRAWLERS		OVER SIDE OF CRAWLERS			
BOOM LGTH.	JIB NO. 125	BOOM LGTH.	JIB NO. 125	JIB LGTH.	JIB NO. 125
310'	---	310'	---	40'	6,400 LBS.
300'	---	300'	---	50'	7,500 LBS.
290'	---	290'	---	60'	8,600 LBS.
280'	40'	280'	40'	70'	9,800 LBS.
270'	60'	270'	60'	80'	11,000 LBS.
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	82.5	88.0	650,000*	90	21	82.7	98.0	485,800*	100	22	82.8	107.9	456,500*
	21	81.8	87.8	638,300*		22	82.0	97.8	478,600*		23	82.3	107.8	449,800*
	22	81.0	87.6	623,600*		23	81.4	97.6	471,800*		24	81.7	107.6	443,500*
	23	80.3	87.4	600,300*		24	80.7	97.4	465,300*		25	81.1	107.4	437,500*
	24	79.6	87.2	578,600*		25	80.1	97.2	459,100*		26	80.5	107.2	431,700*
	25	78.8	87.0	558,400*		26	79.4	97.0	453,100*		27	79.9	107.0	426,100*
	26	78.1	86.7	539,500*		27	78.8	96.8	447,400*		28	79.3	106.8	420,800*
	27	77.4	86.5	516,300*		28	78.1	96.5	441,900*		29	78.8	106.6	415,700*
	28	76.6	86.2	490,300*		29	77.5	96.3	436,600*		30	78.2	106.3	410,800*
	29	75.9	85.9	466,600*		30	76.8	96.0	431,400*		32	77.0	105.8	401,200*
	30	75.1	85.6	445,000*		32	75.5	95.5	401,700*		34	75.8	105.3	365,700*
	32	73.6	85.0	402,500*		34	74.2	94.8	366,200*		36	74.6	104.7	335,700*
	34	72.1	84.3	367,000*		36	72.8	94.2	336,200*		38	73.4	104.0	310,000*
	36	70.6	83.5	337,000*		38	71.5	93.5	310,600*		40	72.2	103.4	287,900*
	38	69.0	82.7	311,400*		40	70.1	92.7	288,400*		45	69.1	101.4	243,700*
	40	67.5	81.8	289,300*		45	66.7	90.5	244,300*		50	66.0	99.2	210,800*
	45	63.5	79.3	245,100*		50	63.1	87.9	211,400*		55	62.8	96.6	185,200*
	50	59.3	76.3	212,200*		55	59.4	85.0	185,800*		60	59.5	93.6	164,800*
	55	55.0	72.8	186,700*		60	55.6	81.6	165,400*		65	56.0	90.3	148,200*
	60	50.3	68.7	166,300*		65	51.5	77.6	148,800*		70	52.4	86.4	134,300*
70	65	45.3	63.8	147,700*	80	70	47.2	73.0	134,900*	95	75	48.6	82.1	122,600*
	70	39.8	57.9	128,600*		75	42.5	67.6	123,200*		80	44.6	77.0	112,600*
	75	33.5	50.7	112,000*		80	37.4	61.2	108,700*		85	40.2	71.2	103,900*
						85	31.4	53.4	95,400*		90	35.3	64.3	92,800*
											95	29.7	55.9	82,100*

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110,000 LB. CARBODY COUNTERWEIGHT

360 DEGREE RATING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
110	24	82.4	117.7	431,100*
	25	81.9	117.6	425,100*
	26	81.4	117.4	419,300*
	27	80.9	117.2	413,800*
	28	80.3	117.0	408,500*
	29	79.8	116.8	403,400*
	30	79.3	116.6	398,500*
	32	78.2	116.1	389,300*
	34	77.1	115.6	364,100*
	36	76.1	115.1	334,900*
	38	75.0	114.5	309,300*
	40	73.9	113.9	287,100*
	45	71.1	112.2	242,900*
	50	68.3	110.2	210,000*
	55	65.5	107.9	184,400*
120	60	62.5	105.3	164,000*
	65	59.5	102.3	147,300*
	70	56.4	99.0	133,500*
	75	53.1	95.2	121,800*
	80	49.7	91.0	111,700*
	85	46.1	86.3	103,000*
	90	42.3	80.8	95,500*
	95	38.1	74.6	88,800*
	100	33.5	67.2	79,400*
	105	28.2	58.3	70,500*
	25	82.6	127.7	407,500*
	26	82.1	127.5	401,700*
	27	81.6	127.4	396,200*
	28	81.1	127.2	390,900*
	29	80.7	127.0	385,800*
130	30	80.2	126.8	380,900*
	32	79.2	126.4	371,600*
	34	78.2	125.9	351,300*
	36	77.2	125.4	329,000*
	38	76.3	124.9	308,500*
	40	75.3	124.4	286,300*
	45	72.8	122.8	242,200*
	50	70.2	121.0	209,200*
	55	67.7	118.9	183,600*
	60	65.0	116.6	163,200*
	65	62.3	113.9	146,500*
	70	59.6	111.0	132,600*
	75	56.7	107.7	120,900*
	80	53.7	104.0	110,900*
	85	50.7	99.9	102,200*
140	90	47.4	95.4	94,600*
	95	44.0	90.2	87,900*
	100	40.4	84.4	82,000*
	105	36.4	77.8	76,500*
	110	32.0	70.0	68,500*
	115	26.9	60.6	61,000*
	26	82.7	137.6	392,500*
	27	82.3	137.5	387,000*
	28	81.8	137.3	381,700*
	29	81.4	137.2	376,600*
	30	80.9	137.0	371,700*
	32	80.0	136.6	362,300*
	34	79.1	136.2	337,600*
	36	78.2	135.7	316,200*
	38	77.3	135.2	297,500*
	40	76.4	134.7	281,000*
150	45	74.1	133.3	241,300*
	50	71.8	131.6	208,300*
	55	69.5	129.7	182,700*
	60	67.1	127.6	162,300*
	65	64.6	125.2	145,700*
	28	82.4	147.5	379,900*
	29	82.0	147.3	374,800*
	30	81.6	147.1	370,000*
	32	80.8	146.8	350,000*
	34	79.9	146.4	326,000*
	36	79.1	146.0	303,300*
	38	78.3	145.5	287,200*
	40	77.4	145.1	271,300*
	45	75.3	143.7	238,500*
	50	73.2	142.2	207,900*
160	55	71.0	140.5	182,300*
	60	68.8	138.5	161,900*
	65	66.6	136.3	145,200*
	70	64.3	133.9	131,400*
	75	62.0	131.2	119,600*
	80	59.6	128.3	109,600*
	85	57.2	125.1	100,900*
	90	54.7	121.5	93,300*
	95	52.1	117.6	86,600*
	100	49.4	113.4	80,700*
	105	46.6	108.7	75,300*
	110	43.7	103.5	70,600*
	115	40.5	97.7	66,200*
	120	37.2	91.2	62,300*
	125	33.5	83.8	57,300*
170	130	29.5	75.2	51,500*
	29	82.5	157.4	367,600*
	30	82.2	157.3	363,100*
	32	81.4	156.9	340,800*
	34	80.6	156.6	317,200*
	36	79.8	156.2	296,800*
	38	79.1	155.8	279,000*
	40	78.3	155.3	263,400*
	45	76.3	154.1	231,300*
	50	74.3	152.7	206,300*
	55	72.3	151.1	181,400*
	60	70.3	149.3	161,000*
	65	68.2	147.2	144,300*
	70	66.1	145.0	130,400*
	75	64.0	142.6	118,700*
180	80	61.9	139.9	108,700*
	85	59.6	137.0	100,000*
	90	57.4	133.8	92,400*
	95	55.1	130.3	85,700*
	100	52.7	126.5	79,700*
	105	50.2	122.3	74,400*
	110	47.6	117.7	69,600*
	115	44.9	112.8	65,300*
	120	42.1	107.3	61,400*
	125	39.1	101.2	57,800*
	130	35.8	94.4	54,500*
	135	32.3	86.7	49,500*
	140	28.4	77.7	44,400*
	32	81.9	167.1	334,500*
	34	81.2	166.7	311,100*
	36	80.5	166.4	290,900*
	38	79.7	166.0	273,300*
	40	79.0	165.6	257,800*
	45	77.2	164.4	226,200*
	50	75.3	163.1	201,700*
	55	73.5	161.6	181,400*
	60	71.6	159.9	160,900*
	65	69.7	158.0	144,200*
	70	67.7	156.0	130,400*
	75	65.8	153.7	118,600*
	80	63.8	151.3	108,600*
	85	61.7	148.6	99,900*
	90	59.7	145.6	92,300*
	95	57.5	142.4	85,600*
	100	55.4	139.0	79,600*
	105	53.1	135.2	74,300*
	110	50.8	131.2	69,500*
	115	48.4	126.8	65,200*
	120	46.0	122.0	61,300*
	125	43.4	116.7	57,700*
	130	40.6	110.9	54,400*
	135	37.7	104.6	51,400*
	140	34.6	97.4	48,400*
	145	31.2	89.4	43,800*
	150	27.5	80.1	39,300*
	32	82.4	177.2	325,000*
	34	81.7	176.9	302,000*
	36	81.0	176.5	282,200*
	38	80.4	176.2	265,000*
	40	79.7	175.8	249,900*
	45	77.9	174.7	218,900*
	50	76.2	173.5	195,100*
	55	74.5	172.1	176,000*
	60	72.7	170.5	160,100*
	65	70.9	168.7	143,400*
	70	69.1	166.8	129,600*
	75	67.3	164.7	117,800*
	80	65.4	162.4	107,800*
	85	63.6	159.9	99,100*
	90	61.6	157.2	91,500*
	95	59.7	154.3	84,800*
	100	57.7	151.1	78,800*
	105	55.7	147.7	73,500*
	110	53.6	144.0	68,700*
	115	51.4	140.0	64,400*
	120	49.2	135.7	60,400*
	125	46.9	131.1	56,800*
	130	44.5	126.0	53,500*
	135	42.0	120.5	50,500*
	140	39.3	114.5	47,700*
	145	36.5	107.8	45,100*
	150	33.5	100.4	41,700*
	155	30.3	92.0	37,600*
	160	26.6	82.4	33,700*

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BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
180	34	82.2	187.0	294,200*
	36	81.5	186.7	274,800*
	38	80.9	186.3	257,900*
	40	80.3	186.0	243,100*
	45	78.6	184.9	212,700*
	50	77.0	183.8	189,300*
	55	75.4	182.5	170,700*
	60	73.7	181.0	155,400*
	65	72.0	179.3	142,700*
	70	70.3	177.5	129,000*
	75	68.6	175.6	117,300*
	80	66.9	173.4	107,200*
	85	65.1	171.1	98,500*
	90	63.4	168.6	90,900*
	95	61.5	165.9	84,200*
	100	59.7	162.9	78,200*
190	105	57.8	159.8	72,900*
	110	55.9	156.4	68,100*
	115	53.9	152.8	63,800*
	120	51.9	148.9	59,900*
	125	49.8	144.7	56,300*
	130	47.7	140.1	53,000*
	135	45.5	135.2	49,900*
	140	43.2	129.9	47,100*
	145	40.7	124.2	44,600*
	150	38.2	117.9	42,200*
	155	35.5	111.0	39,900*
	160	32.5	103.3	36,100*
	165	29.4	94.6	32,500*
	36	82.0	196.8	270,500*
	38	81.4	196.5	253,600*
	40	80.8	196.1	238,700*
	45	79.2	195.2	208,400*
	50	77.7	194.1	185,100*
	55	76.1	192.8	166,600*
	60	74.6	191.4	151,500*
	65	73.0	189.9	138,900*
	70	71.4	188.2	128,100*
	75	69.8	186.3	116,400*
	80	68.2	184.3	106,400*
	85	66.5	182.1	97,700*
	90	64.9	179.8	90,100*
	95	63.2	177.3	83,400*
	100	61.5	174.5	77,400*
	105	59.7	171.6	72,100*
	110	57.9	168.5	67,300*
	115	56.1	165.1	63,000*
	120	54.3	161.5	59,000*
	125	52.4	157.7	55,400*
	130	50.4	153.5	52,100*
	135	48.4	149.1	49,100*
	140	46.3	144.4	46,300*
	145	44.2	139.3	43,700*
	150	41.9	133.7	41,300*
	155	39.6	127.7	39,100*
	160	37.1	121.2	37,000*
	165	34.5	114.0	34,200*
	170	31.6	106.1	30,800*
	175	28.5	97.1	27,600*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
200	36	82.4	206.9	265,900*
	38	81.8	206.6	249,300*
	40	81.2	206.3	234,700*
	45	79.8	205.4	205,000*
	50	78.3	204.3	182,200*
	55	76.8	203.1	164,100*
	60	75.4	201.8	149,200*
	65	73.9	200.4	136,900*
	70	72.4	198.8	126,400*
	75	70.9	197.0	116,800*
	80	69.3	195.1	106,800*
	85	67.8	193.1	98,100*
	90	66.2	190.9	90,500*
	95	64.6	188.5	83,800*
	100	63.0	185.9	77,800*
	105	61.4	183.2	72,500*
210	110	59.7	180.3	67,700*
	115	58.0	177.1	63,300*
	120	56.3	173.8	59,400*
	125	54.6	170.3	55,800*
	130	52.8	166.5	52,500*
	135	50.9	162.4	49,500*
	140	49.0	158.1	46,700*
	145	47.1	153.5	44,100*
	150	45.1	148.5	41,700*
	155	43.0	143.2	39,500*
	160	40.8	137.4	37,400*
	165	38.5	131.2	35,400*
	170	36.1	124.4	33,500*
	175	33.5	117.0	30,300*
	180	30.8	108.8	27,300*
	185	27.8	99.5	24,400*
220	38	82.2	216.7	242,700*
	40	81.7	216.4	228,300*
	45	80.3	215.5	199,200*
	50	78.9	214.6	176,700*
	55	77.5	213.4	158,900*
	60	76.1	212.2	144,400*
	65	74.7	210.8	132,300*
	70	73.2	209.3	122,000*
	75	71.8	207.6	113,200*
	80	70.4	205.8	105,500*
	85	68.9	203.9	97,300*
	90	67.4	201.8	89,700*
	95	65.9	199.6	83,000*
	100	64.4	197.2	77,000*
	105	62.9	194.6	71,700*
	110	61.3	191.9	66,900*
230	115	59.7	188.9	62,500*
	120	58.1	185.8	58,600*
	125	56.5	182.5	55,000*
	130	54.8	179.0	51,700*
	135	53.1	175.2	48,700*
	140	51.4	171.3	45,900*
	145	49.6	167.0	43,300*
	150	47.8	162.5	40,900*
	155	45.9	157.7	38,600*
	160	43.9	152.5	36,500*
	165	41.9	146.9	34,600*
	170	39.8	141.0	32,700*
	175	37.5	134.5	30,800*
	180	35.2	127.5	28,500*
	185	32.7	119.9	25,600*
	190	30.0	111.4	22,900*
	195	27.1	101.9	20,300*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
240	40	82.0	226.5	225,800*
	45	80.7	225.7	196,300*
	50	79.4	224.8	173,800*
	55	78.1	223.7	156,000*
	60	76.7	222.5	141,500*
	65	75.4	221.2	129,500*
	70	74.0	219.7	119,200*
	75	72.7	218.2	110,500*
	80	71.3	216.5	102,800*
	85	69.9	214.6	96,100*
	90	68.5	212.7	89,100*
	95	67.1	210.5	82,400*
	100	65.7	208.3	76,400*
	105	64.2	205.8	71,100*
	110	62.8	203.3	66,300*
	115	61.3	200.5	61,900*
250	120	59.8	197.6	58,000*
	125	58.2	194.5	54,400*
	130	56.7	191.2	51,100*
	135	55.1	187.7	48,100*
	140	53.5	184.0	45,300*
	145	51.8	180.1	42,700*
	150	50.1	175.9	40,300*
	155	48.4	171.5	38,000*
	160	46.6	166.8	35,900*
	165	44.7	161.7	34,000*
	170	42.8	156.4	32,000*
	175	40.9	150.6	30,000*
	180	38.8	144.5	28,200*
	185	36.6	137.8	26,500*
	190	34.3	130.6	24,300*
	195	31.9	122.7	21,700*
	200	29.3	114.0	19,200*
	205	26.4	104.2	16,800*

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

OFFSET 4-1/2 DEGREES

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
230	45	81.1	235.9	191,300*	240	185	42.7	169.6	24,800*	260	150	57.2	225.9	37,700
	50	79.9	235.0	169,100*		190	40.9	163.9	23,200*		155	55.9	222.6	35,500*
	55	78.6	233.9	151,500*		195	39.0	157.8	21,700*		160	54.5	219.0	33,000*
	60	77.3	232.8	137,200*		200	37.0	151.2	20,200*		165	53.1	215.2	30,800*
	65	76.0	231.5	125,400*		205	35.0	144.1	18,800*		170	51.7	211.3	28,600*
	70	74.7	230.2	115,300*		210	32.8	136.5	16,900*		175	50.3	207.2	26,600*
	75	73.4	228.7	106,700*		215	30.5	128.1	14,700*		180	48.8	202.8	24,800*
	80	72.1	227.1	99,200*		220	28.0	118.9	12,700*		185	47.3	198.2	23,000*
	85	70.8	225.3	92,600*		45	81.8	256.1	186,100*		190	45.8	193.4	21,300*
	90	69.5	223.4	86,800*		50	80.7	255.3	163,800*		195	44.2	188.2	19,800*
	95	68.1	221.4	81,500*	250	55	79.5	254.4	146,200*		200	42.6	182.8	18,300*
	100	66.8	219.3	75,600*		60	78.3	253.3	131,900*		205	40.9	177.1	16,900*
	105	65.4	217.0	70,300*		65	77.2	252.2	120,100*		210	39.2	171.0	15,600*
	110	64.0	214.5	65,500*		70	76.0	250.9	110,200*		215	37.4	164.5	14,300*
	115	62.6	211.9	61,100*		75	74.8	249.5	101,700*		220	35.5	157.6	13,100*
	120	61.2	209.2	57,200*		80	73.6	248.1	94,300*		225	33.5	150.2	12,000*
	125	59.8	206.3	53,600*		85	72.4	246.5	87,800*		230	31.5	142.1	10,100*
	130	58.3	203.2	50,300*		90	71.2	244.8	82,100*		235	29.2	133.3	8,300*
	135	56.8	199.9	47,200*		95	70.0	242.9	77,000*		240	26.8	123.7	6,500*
	140	55.3	196.4	44,400*		100	68.7	241.0	72,300*	270	50	81.4	275.6	156,300*
240	145	53.8	192.8	41,900*		105	67.5	238.9	68,100*		55	80.3	274.7	139,100*
	150	52.2	188.9	39,400*		110	66.3	236.7	64,300*		60	79.2	273.7	125,100*
	155	50.6	184.8	37,200*		115	65.0	234.3	60,000*		65	78.1	272.7	113,600*
	160	48.9	180.4	35,100*		120	63.7	231.9	56,100*		70	77.1	271.5	103,900*
	165	47.2	175.8	32,900*		125	62.4	229.3	52,500*		75	76.0	270.3	95,600*
	170	45.5	170.9	30,800*		130	61.1	226.5	49,200*		80	74.9	268.9	88,400*
	175	43.7	165.7	28,900*		135	59.8	223.6	46,100*		85	73.8	267.4	82,100*
	180	41.8	160.2	27,000*		140	58.4	220.5	43,300*		90	72.6	265.9	76,600*
	185	39.9	154.2	25,300*		145	57.1	217.3	40,700*		95	71.5	264.2	71,600*
	190	37.9	147.9	23,700*		150	55.7	213.8	38,300*		100	70.4	262.4	67,100*
	195	35.8	141.0	22,100*		155	54.3	210.3	36,100*		105	69.3	260.5	63,100*
	200	33.5	133.6	20,100*		160	52.8	206.5	33,900*		110	68.1	258.5	59,400*
	205	31.2	125.4	17,700*		165	51.4	202.5	31,600*		115	67.0	256.4	56,000*
	210	28.6	116.5	15,500*		170	49.9	198.3	29,500*		120	65.8	254.1	52,900*
	215	25.8	106.4	13,200*		175	48.4	193.8	27,500*		125	64.6	251.7	50,000*
						180	46.8	189.2	25,600*		130	63.4	249.2	47,400*
	45	81.5	246.0	187,300*	260	185	45.2	184.2	23,900*		135	62.2	246.6	44,700*
	50	80.3	245.1	165,400*		190	43.5	179.0	22,200*		140	61.0	243.8	41,900*
	55	79.1	244.2	148,000*		195	41.8	173.4	20,600*		145	59.8	240.9	39,300*
	60	77.9	243.1	134,000*		200	40.0	167.5	19,200*		150	58.6	237.8	36,900*
	65	76.6	241.9	122,300*		205	38.2	161.2	17,800*		155	57.3	234.6	34,400*
	70	75.4	240.6	112,400*		210	36.3	154.4	16,500*		160	56.0	231.3	31,900*
	75	74.2	239.1	103,900*		215	34.2	147.2	15,200*		165	54.7	227.7	29,700*
	80	72.9	237.6	96,600*		220	32.1	139.3	13,300*		170	53.4	224.0	27,500*
	85	71.6	235.9	90,100*		225	29.8	130.8	11,300*		175	52.1	220.1	25,500*
	90	70.4	234.1	84,300*		230	27.4	121.3	9,400*		180	50.7	216.0	23,700*
	95	69.1	232.2	79,200*	270	50	81.0	265.4	160,100*		185	49.3	211.7	21,900*
	100	67.8	230.2	74,500*		55	79.9	264.5	142,700*		190	47.9	207.2	20,200*
	105	66.5	228.0	69,900*		60	78.8	263.5	128,600*		195	46.4	202.5	18,600*
	110	65.2	225.7	65,100*		65	77.7	262.4	116,900*		200	44.9	197.5	17,200*
	115	63.9	223.2	60,800*		70	76.5	261.2	107,100*		205	43.4	192.2	15,700*
	120	62.5	220.6	56,900*		75	75.4	259.9	98,700*		210	41.8	186.6	14,400*
	125	61.2	217.8	53,300*		80	74.3	258.5	91,400*		215	40.1	180.7	13,200*
	130	59.8	214.9	50,000*		85	73.1	257.0	85,100*		220	38.4	174.5	12,000*
	135	58.4	211.8	46,900*		90	71.9	255.3	79,400*		225	36.7	167.8	10,800*
	140	57.0	208.6	44,100*		95	70.8	253.6	74,400*		230	34.8	160.7	9,700*
	145	55.5	205.1	41,500*		100	69.6	251.7	69,800*		235	32.9	153.1	8,600*
	150	54.0	201.5	39,100*		105	68.4	249.7	65,700*		240	30.8	144.8	6,900*
	155	52.5	197.7	36,900*		110	67.2	247.6	62,000*		245	28.7	135.8	5,200*
	160	51.0	193.6	34,700*		115	66.0	245.4	58,500*					
	165	49.4	189.4	32,500*		120	64.8	243.0	55,300*					
	170	47.8	184.9	30,400*		125	63.6	240.5	51,900*					
	175	46.2	180.1	28,400*		130	62.3	237.9	48,600*					
	180	44.5	175.0	26,600*		135	61.1	235.1	45,500*					
						140	59.8	232.2	42,700*					
						145	58.5	229.2	40,100*					

MANITOWOC ENGINEERING CO.

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LIFT CRANE CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

4600 SERIES 5

BOOM NO. 27B WITH OPEN THROAT TOP

OFFSET 4-1/2 DEGREES

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
280	50	81.7	285.7	153,400*
	55	80.7	284.9	136,300*
	60	79.6	283.9	122,500*
	65	78.6	282.9	111,100*
	70	77.5	281.8	101,500*
	75	76.5	280.6	93,300*
	80	75.4	279.3	86,200*
	85	74.4	277.9	80,000*
	90	73.3	276.4	74,500*
	95	72.2	274.8	69,600*
	100	71.1	273.0	65,200*
	105	70.0	271.2	61,200*
	110	68.9	269.3	57,600*
	115	67.8	267.2	54,200*
	120	66.7	265.1	51,200*
	125	65.6	262.8	48,400*
	130	64.5	260.4	45,700*
	135	63.3	257.9	43,300*
	140	62.2	255.2	41,000*
	145	61.0	252.5	38,800*
	150	59.8	249.6	36,500*
	155	58.6	246.5	33,900*
	160	57.4	243.3	31,500*
	165	56.2	240.0	29,200*
	170	54.9	236.4	27,100*
	175	53.6	232.8	25,100*
	180	52.4	228.9	23,200*
	185	51.0	224.9	21,400*
	190	49.7	220.6	19,700*
	195	48.3	216.2	18,200*
	200	46.9	211.5	16,700*
	205	45.5	206.6	15,200*
	210	44.0	201.5	13,900*
	215	42.5	196.1	12,600*
	220	41.0	190.3	11,400*
	225	39.4	184.3	10,300*
	230	37.7	177.9	9,200*
	235	36.0	171.0	8,200*
	240	34.2	163.8	7,200*
	245	32.3	155.9	6,100*
	250	30.3	147.5	4,500*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
290	55	81.0	295.0	136,200*
	60	80.0	294.1	122,000*
	65	79.0	293.1	110,300*
	70	78.0	292.1	100,500*
	75	76.9	290.9	92,100*
	80	75.9	289.6	84,800*
	85	74.9	288.3	78,500*
	90	73.9	286.8	73,000*
	95	72.8	285.3	68,000*
	100	71.8	283.6	63,600*
	105	70.8	281.9	59,600*
	110	69.7	280.0	55,900*
	115	68.6	278.0	52,600*
	120	67.6	276.0	49,500*
	125	66.5	273.8	46,700*
	130	65.4	271.5	44,100*
	135	64.3	269.1	41,600*
	140	63.2	266.6	39,300*
	145	62.1	263.9	37,200*
	150	61.0	261.1	35,200*
	155	59.8	258.2	33,200*
	160	58.7	255.2	30,700*
	165	57.5	252.0	28,400*
	170	56.3	248.6	26,300*
	175	55.1	245.2	24,200*
	180	53.9	241.5	22,300*
	185	52.6	237.7	20,500*
	190	51.4	233.7	18,800*
	195	50.1	229.5	17,200*
	200	48.8	225.2	15,700*
	205	47.4	220.6	14,300*
	210	46.1	215.8	12,900*
	215	44.7	210.7	11,600*
	220	43.2	205.4	10,400*
	225	41.7	199.9	9,200*
	230	40.2	194.0	8,100*
	235	38.6	187.8	7,100*
	240	37.0	181.2	6,100*
	245	35.3	174.2	5,100*
	250	33.5	166.7	4,200*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
300	55	81.3	305.2	133,300*
	60	80.3	304.3	119,200*
	65	79.3	303.3	107,600*
	70	78.4	302.3	97,800*
	75	77.4	301.2	89,500*
	80	76.4	300.0	82,400*
	85	75.4	298.6	76,100*
	90	74.4	297.2	70,600*
	95	73.4	295.8	65,700*
	100	72.4	294.2	61,300*
	105	71.4	292.5	57,400*
	110	70.4	290.7	53,800*
	115	69.4	288.8	50,500*
	120	68.4	286.8	47,500*
	125	67.3	284.7	44,700*
	130	66.3	282.5	42,100*
	135	65.2	280.2	39,700*
	140	64.2	277.8	37,500*
	145	63.1	275.2	35,400*
	150	62.0	272.6	33,400*
	155	60.9	269.8	31,500*
	160	59.8	266.9	29,800*
	165	58.7	263.8	27,600*
	170	57.6	260.7	25,400*
	175	56.4	257.3	23,400*
	180	55.3	253.9	21,500*
	185	54.1	250.3	19,700*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
300	190	52.9	246.5	18,000*
	195	51.7	242.5	16,400*
	200	50.4	238.4	14,800*
	205	49.2	234.1	13,400*
	210	47.9	229.6	12,100*
	215	46.6	224.9	10,800*
	220	45.2	219.9	9,500*
	225	43.9	214.7	8,400*
	230	42.5	209.3	7,300*
	235	41.0	203.6	6,200*
	240	39.5	197.5	5,200*
	245	38.0	191.2	4,200*
	55	81.6	315.3	130,700*
	60	80.6	314.4	116,700*
	65	79.7	313.5	105,200*
	70	78.7	312.5	95,500*
310	75	77.8	311.4	87,300*
	80	76.9	310.3	80,200*
	85	75.9	309.0	74,000*
	90	74.9	307.6	68,500*
	95	74.0	306.2	63,700*
	100	73.0	304.7	59,300*
	105	72.0	303.0	55,400*
	110	71.1	301.3	51,900*
	115	70.1	299.5	48,600*
	120	69.1	297.6	45,600*
	125	68.1	295.6	42,900*
	130	67.1	293.4	40,400*
	135	66.1	291.2	38,000*
	140	65.1	288.9	35,800*
	145	64.0	286.5	33,700*
	150	63.0	283.9	31,800*
	155	62.0	281.2	30,000*
	160	60.9	278.4	28,200*
	165	59.8	275.5	26,600*
	170	58.7	272.5	24,700*
	175	57.7	269.3	22,700*
	180	56.5	266.0	20,800*
	185	55.4	262.6	19,000*
	190	54.3	259.0	17,300*
	195	53.1	255.2	15,700*
	200	52.0	251.3	14,100*
	205	50.8	247.3	12,700*
	210	49.6	243.0	11,300*
	215	48.3	238.6	10,000*
	220	47.1	233.9	8,800*
	225	45.8	229.1	7,600*
	230	44.5	224.0	6,500*
	235	43.1	218.7	5,500*
	240	41.7	213.1	4,500*