

MANITOWOC ENGINEERING CO.

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



LIFTCRANE CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

4600 SERIES 4

**BOOM NO. 27B WITH OPEN THROAT TOP
OFFSET 4-1/2 DEGREES
120,000 LB. OR 123,000 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 (*).

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. 6495-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, AND 123,000 LB. COUNTERWEIGHT WITH COUNTERWEIGHT ASSEMBLY NO. 190821 (120,000 LB. COUNTERWEIGHT WITH COUNTERWEIGHT ASSEMBLY NO. 49667).

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED					
OVER FRONT OF BLOCKED CRAWLERS			OVER SIDE OF CRAWLERS		DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED
BOOM LGTH.	JIB NO.	125	BOOM LGTH.	JIB NO.	
310'	---	---	290'	---	40'
300'	---	---	280'	---	50'
290'	---	---	270'	---	60'
280'	40'	---	260'	60'	70'
270'	60'	---	250'	80'	80'
260'	80'	---	---	---	11,000 LBS.

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	467,600*	100	22	82.8	107.9	433,000*
	21	81.8	87.8	622,300*		22	82.0	97.8	461,400*		23	82.3	107.8	427,300*
	22	81.0	87.6	584,600		23	81.4	97.6	455,500*		24	81.7	107.6	421,800*
	23	80.3	87.4	536,800		24	80.7	97.4	449,800*		25	81.1	107.4	416,500*
	24	79.6	87.2	496,000		25	80.1	97.2	444,300*		26	80.5	107.2	411,400*
	25	78.8	87.0	460,900		26	79.4	97.0	429,600		27	79.9	107.0	402,200
	26	78.1	86.7	430,300		27	78.8	96.8	402,700		28	79.3	106.8	378,400
	27	77.4	86.5	403,400		28	78.1	96.5	378,900		29	78.8	106.6	357,100
	28	76.6	86.2	379,600		29	77.5	96.3	357,600		30	78.2	106.3	338,000
	29	75.9	85.9	358,400		30	76.8	96.0	338,600		32	77.0	105.8	305,200
	30	75.1	85.6	339,300		32	75.5	95.5	305,700		34	75.8	105.3	278,000
	32	73.6	85.0	306,500		34	74.2	94.8	278,500		36	74.6	104.7	255,000
	34	72.1	84.3	279,300		36	72.8	94.2	255,500		38	73.4	104.0	235,400
	36	70.6	83.5	256,300		38	71.5	93.5	235,900		40	72.2	103.4	218,400
	38	69.0	82.7	236,700		40	70.1	92.7	218,900		45	69.1	101.4	184,600
	40	67.5	81.8	219,800		45	66.7	90.5	185,100		50	66.0	99.2	159,300
	45	63.5	79.3	186,000		50	63.1	87.9	159,900		55	62.8	96.6	139,700
	50	59.3	76.3	160,700		55	59.4	85.0	140,300		60	59.5	93.6	124,100
	55	55.0	72.8	141,200		60	55.6	81.6	124,700		65	56.0	90.3	111,400
	60	50.3	68.7	125,600		65	51.5	77.6	112,000		70	52.4	86.4	100,700
	65	45.3	63.8	112,800		70	47.2	73.0	101,400		75	48.6	82.1	91,800
	70	39.8	57.9	102,200		75	42.5	67.6	92,400		80	44.6	77.0	84,100
	75	33.5	50.7	93,300		80	37.4	61.2	84,700		85	40.2	71.2	77,500
						85	31.4	53.4	78,100		90	35.3	64.3	71,600
											95	29.7	55.9	66,500

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OFFSET 4-1/2 DEGREES

120,000 LB. OR 123,000 LB. COUNTERWEIGHT

360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS

4600 SERIES 4

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
110	24	82.4	117.7	425,100*	130	70	62.1	122.6	98,100	160	32	81.9	167.1	301,700
	25	81.9	117.6	419,800*		75	59.6	119.6	89,200		34	81.2	166.7	274,400
	26	81.4	117.4	414,700*		80	57.0	116.4	81,500		36	80.5	166.4	251,400
	27	80.9	117.2	401,500		85	54.3	112.8	74,800		38	79.7	166.0	231,700
	28	80.3	117.0	377,600		90	51.4	108.8	69,000		40	79.0	165.6	214,700
	29	79.8	116.8	356,300		95	48.5	104.4	63,900		45	77.2	164.4	180,800
	30	79.3	116.6	337,200		100	45.4	99.5	59,300		50	75.3	163.1	155,500
	32	78.2	116.1	304,400		105	42.2	94.1	55,200		55	73.5	161.6	135,800
	34	77.1	115.6	277,100		110	38.7	87.9	51,600		60	71.6	159.9	120,200
	36	76.1	115.1	254,200		115	34.9	80.9	48,200		65	69.7	158.0	107,400
120	38	75.0	114.5	234,500	140	120	30.7	72.7	45,200		70	67.7	156.0	96,800
	40	73.9	113.9	217,500		28	82.4	147.5	353,800*		75	65.8	153.7	87,800
	45	71.1	112.2	183,700		29	82.0	147.3	349,600*		80	63.8	151.3	80,100
	50	68.3	110.2	158,400		30	81.6	147.1	335,400		85	61.7	148.6	73,400
	55	65.5	107.9	138,800		32	80.8	146.8	302,500		90	59.7	145.6	67,600
	60	62.5	105.3	123,200		34	79.9	146.4	275,200		95	57.5	142.4	62,400
	65	59.5	102.3	110,500		36	79.1	146.0	252,200		100	55.4	139.0	57,900
	70	56.4	99.0	99,800		38	78.3	145.5	232,500		105	53.1	135.2	53,800
	75	53.1	95.2	90,900		40	77.4	145.1	215,500		110	50.8	131.2	50,100
	80	49.7	91.0	83,200		45	75.3	143.7	181,600		115	48.4	126.8	46,800
130	85	46.1	86.3	76,500	150	50	73.2	142.2	156,300		120	46.0	122.0	43,800
	90	42.3	80.8	70,700		55	71.0	140.5	136,700		125	43.4	116.7	41,000
	95	38.1	74.6	65,600		60	68.8	138.5	121,100		130	40.6	110.9	38,500
	100	33.5	67.2	61,000		65	66.6	136.3	108,300		135	37.7	104.6	36,200
	105	28.2	58.3	57,000		70	64.3	133.9	97,700		140	34.6	97.4	34,100
	25	82.6	127.7	392,000*		75	62.0	131.2	88,700		145	31.2	89.4	32,100
	26	82.1	127.5	387,200*		80	59.6	128.3	81,000	170	32	82.4	177.2	301,000
	27	81.6	127.4	382,500*		85	57.2	125.1	74,300		34	81.7	176.9	273,700
	28	81.1	127.2	377,000		90	54.7	121.5	68,500		36	81.0	176.5	250,600
	29	80.7	127.0	355,700		95	52.1	117.6	63,400		38	80.4	176.2	230,900
	30	80.2	126.8	336,600		100	49.4	113.4	58,800		40	79.7	175.8	213,900
	32	79.2	126.4	303,700		105	46.6	108.7	54,700		45	77.9	174.7	180,000
	34	78.2	125.9	276,400		110	43.7	103.5	51,100		50	76.2	173.5	154,600
	36	77.2	125.4	253,400		115	40.5	97.7	47,700		55	74.5	172.1	135,000
	38	76.3	124.9	233,800		120	37.2	91.2	44,700		60	72.7	170.5	119,300
	40	75.3	124.4	216,800		125	33.5	83.8	42,000		65	70.9	168.7	106,500
140	45	72.8	122.8	183,000		130	29.5	75.2	39,500		70	69.1	166.8	95,900
	50	70.2	121.0	157,700		29	82.5	157.4	337,900*		75	67.3	164.7	86,900
	55	67.7	118.9	138,100		30	82.2	157.3	333,900*		80	65.4	162.4	79,200
	60	65.0	116.6	122,400		32	81.4	156.9	301,700		85	63.6	159.9	72,500
	65	62.3	113.9	109,700		34	80.6	156.6	274,400		90	61.6	157.2	66,700
	70	59.6	111.0	99,000		36	79.8	156.2	251,400		95	59.7	154.3	61,600
	75	56.7	107.7	90,100		38	79.1	155.8	231,700		100	57.7	151.1	57,000
	80	53.7	104.0	82,400		40	78.3	155.3	214,700		105	55.7	147.7	52,900
	85	50.7	99.9	75,700		45	76.3	154.1	180,800		110	53.6	144.0	49,200
	90	47.4	95.4	69,900		50	74.3	152.7	155,500		115	51.4	140.0	45,900
150	95	44.0	90.2	64,800		55	72.3	151.1	135,800		120	49.2	135.7	42,900
	100	40.4	84.4	60,200		60	70.3	149.3	120,200		125	46.9	131.1	40,100
	105	36.4	77.8	56,200		65	68.2	147.2	107,400		130	44.5	126.0	37,600
	110	32.0	70.0	52,500		70	66.1	145.0	96,800		135	42.0	120.5	35,300
	26	82.7	137.6	380,400*		75	64.0	142.6	87,800		140	39.3	114.5	33,200
	27	82.3	137.5	375,800*		80	61.9	139.9	80,100		145	36.5	107.8	31,200
	28	81.8	137.3	371,500*		85	59.6	137.0	73,400		150	33.5	100.4	29,300
	29	81.4	137.2	354,900		90	57.4	133.8	67,600		155	30.3	92.0	27,600
	30	80.9	137.0	335,800		95	55.1	130.3	62,400					
	32	80.0	136.6	302,900		100	52.7	126.5	57,900					
	34	79.1	136.2	275,600		105	50.2	122.3	53,800					
	36	78.2	135.7	252,600		110	47.6	117.7	50,100					
	38	77.3	135.2	232,900		115	44.9	112.8	46,800					
	40	76.4	134.7	216,000		120	42.1	107.3	43,800					
	45	74.1	133.3	182,100		125	39.1	101.2	41,100					
	50	71.8	131.6	156,800		130	35.8	94.4	38,500					
	55	69.5	129.7	137,200		135	32.3	86.7	36,200					
	60	67.1	127.6	121,500		140	28.4	77.7	34,100					
	65	64.6	125.2	108,800										

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OFFSET 4-1/2 DEGREES
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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	273,200
	36	81.5	186.7	250,100
	38	80.9	186.3	230,400
	40	80.3	186.0	213,400
	45	78.6	184.9	179,500
	50	77.0	183.8	154,100
	55	75.4	182.5	134,500
	60	73.7	181.0	118,800
	65	72.0	179.3	106,000
	70	70.3	177.5	95,400
	75	68.6	175.6	86,400
	80	66.9	173.4	78,600
	85	65.1	171.1	72,000
	90	63.4	168.6	66,100
	95	61.5	165.9	61,000
	100	59.7	162.9	56,400
190	105	57.8	159.8	52,400
	110	55.9	156.4	48,700
	115	53.9	152.8	45,400
	120	51.9	148.9	42,300
	125	49.8	144.7	39,600
	130	47.7	140.1	37,100
	135	45.5	135.2	34,700
	140	43.2	129.9	32,600
	145	40.7	124.2	30,600
	150	38.2	117.9	28,800
	155	35.5	111.0	27,100
	160	32.5	103.3	25,500
	165	29.4	94.6	24,000
	36	82.0	196.8	249,400
	38	81.4	196.5	229,700
	40	80.8	196.1	212,600
	45	79.2	195.2	178,700
	50	77.7	194.1	153,300
	55	76.1	192.8	133,700
	60	74.6	191.4	118,000
	65	73.0	189.9	105,200
	70	71.4	188.2	94,500
	75	69.8	186.3	85,500
	80	68.2	184.3	77,800
	85	66.5	182.1	71,100
	90	64.9	179.8	65,300
	95	63.2	177.3	60,100
	100	61.5	174.5	55,600
	105	59.7	171.6	51,500
	110	57.9	168.5	47,800
	115	56.1	165.1	44,500
	120	54.3	161.5	41,500
	125	52.4	157.7	38,700
	130	50.4	153.5	36,200
	135	48.4	149.1	33,900
	140	46.3	144.4	31,700
	145	44.2	139.3	29,700
	150	41.9	133.7	27,900
	155	39.6	127.7	26,200
	160	37.1	121.2	24,600
	165	34.5	114.0	23,100
	170	31.6	106.1	21,700
	175	28.5	97.1	20,400

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
200	36	82.4	206.9	249,800
	38	81.8	206.6	230,100
	40	81.2	206.3	213,100
	45	79.8	205.4	179,100
	50	78.3	204.3	153,700
	55	76.8	203.1	134,100
	60	75.4	201.8	118,400
	65	73.9	200.4	105,600
	70	72.4	198.8	94,900
	75	70.9	197.0	85,900
	80	69.3	195.1	78,200
	85	67.8	193.1	71,500
	90	66.2	190.9	65,700
	95	64.6	188.5	60,600
	100	63.0	185.9	56,000
	105	61.4	183.2	51,900
210	110	59.7	180.3	48,200
	115	58.0	177.1	44,900
	120	56.3	173.8	41,900
	125	54.6	170.3	39,100
	130	52.8	166.5	36,600
	135	50.9	162.4	34,300
	140	49.0	158.1	32,100
	145	47.1	153.5	30,100
	150	45.1	148.5	28,300
	155	43.0	143.2	26,600
	160	40.8	137.4	25,000
	165	38.5	131.2	23,500
	170	36.1	124.4	22,100
	175	33.5	117.0	20,800
	180	30.8	108.8	19,500
	38	82.2	216.7	229,300
	40	81.7	216.4	212,300
	45	80.3	215.5	178,300
	50	78.9	214.6	153,000
	55	77.5	213.4	133,300
	60	76.1	212.2	117,600
	65	74.7	210.8	104,800
	70	73.2	209.3	94,100
	75	71.8	207.6	85,100
	80	70.4	205.8	77,400
	85	68.9	203.9	70,700
	90	67.4	201.8	64,900
	95	65.9	199.6	59,700
	100	64.4	197.2	55,100
	105	62.9	194.6	51,100
	110	61.3	191.9	47,400
	115	59.7	188.9	44,100
	120	58.1	185.8	41,000
	125	56.5	182.5	38,300
	130	54.8	179.0	35,700
	135	53.1	175.2	33,400
	140	51.4	171.3	31,300
	145	49.6	167.0	29,300
	150	47.8	162.5	27,400
	155	45.9	157.7	25,700
	160	43.9	152.5	24,100
	165	41.9	146.9	22,600
	170	39.8	141.0	21,200
	175	37.5	134.5	19,900
	180	35.2	127.5	18,700
	185	32.7	119.9	17,500
	190	30.0	111.4	16,400

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
220	40	82.0	226.5	211,800
	45	80.7	225.7	177,800
	50	79.4	224.8	152,400
	55	78.1	223.7	132,700
	60	76.7	222.5	117,000
	65	75.4	221.2	104,200
	70	74.0	219.7	93,500
	75	72.7	218.2	84,500
	80	71.3	216.5	76,800
	85	69.9	214.6	70,100
	90	68.5	212.7	64,300
	95	67.1	210.5	59,100
	100	65.7	208.3	54,600
	105	64.2	205.8	50,500
	110	62.8	203.3	46,800
	115	61.3	200.5	43,500
230	120	59.8	197.6	40,400
	125	58.2	194.5	37,700
	130	56.7	191.2	35,200
	135	55.1	187.7	32,800
	140	53.5	184.0	30,700
	145	51.8	180.1	28,700
	150	50.1	175.9	26,900
	155	48.4	171.5	25,100
	160	46.6	166.8	23,500
	165	44.7	161.7	22,000
	170	42.8	156.4	20,600
	175	40.9	150.6	19,300
	180	38.8	144.5	18,100
	185	36.6	137.8	16,900
	190	34.3	130.6	15,800
	195	31.9	122.7	14,800
	200	29.3	114.0	13,800

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OFFSET 4-1/2 DEGREES

120,000 LB. OR 123,000 LB. COUNTERWEIGHT
360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS

4600 SERIES 4

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	177,000	240	185	42.7	169.6	15,800	260	150	57.2	225.9	24,300
	50	79.9	235.0	151,600		190	40.9	163.9	14,700		155	55.9	222.6	22,600
	55	78.6	233.9	131,900		195	39.0	157.8	13,600		160	54.5	219.0	21,000
	60	77.3	232.8	116,200		200	37.0	151.2	12,600		165	53.1	215.2	19,500
	65	76.0	231.5	103,400		205	35.0	144.1	11,700		170	51.7	211.3	18,100
	70	74.7	230.2	92,700		210	32.8	136.5	10,800		175	50.3	207.2	16,800
	75	73.4	228.7	83,700	250	215	30.5	128.1	10,000		180	48.8	202.8	15,500
	80	72.1	227.1	76,000		220	28.0	118.9	9,200		185	47.3	198.2	14,300
	85	70.8	225.3	69,300		45	81.8	256.1	176,000*		190	45.8	193.4	13,200
	90	69.5	223.4	63,500		50	80.7	255.3	150,600		195	44.2	188.2	12,200
	95	68.1	221.4	58,300		55	79.5	254.4	130,900		200	42.6	182.8	11,200
	100	66.8	219.3	53,700		60	78.3	253.3	115,200		205	40.9	177.1	10,300
	105	65.4	217.0	49,600		65	77.2	252.2	102,300		210	39.2	171.0	9,400
	110	64.0	214.5	46,000		70	76.0	250.9	91,700		215	37.4	164.5	8,500
	115	62.6	211.9	42,600		75	74.8	249.5	82,600		220	35.5	157.6	7,700
	120	61.2	209.2	39,600		80	73.6	248.1	74,900		225	33.5	150.2	6,900
	125	59.8	206.3	36,800		85	72.4	246.5	68,200		230	31.5	142.1	6,200
	130	58.3	203.2	34,300		90	71.2	244.8	62,400		235	29.2	133.3	5,500
	135	56.8	199.9	32,000	270	95	70.0	242.9	57,200		50	81.4	275.6	149,300
	140	55.3	196.4	29,800		100	68.7	241.0	52,600		55	80.3	274.7	129,600
	145	53.8	192.8	27,800		105	67.5	238.9	48,600		60	79.2	273.7	113,800
	150	52.2	188.9	26,000		110	66.3	236.7	44,900		65	78.1	272.7	101,000
	155	50.6	184.8	24,300		115	65.0	234.3	41,500		70	77.1	271.5	90,300
	160	48.9	180.4	22,700		120	63.7	231.9	38,500		75	76.0	270.3	81,300
	165	47.2	175.8	21,200		125	62.4	229.3	35,700		80	74.9	268.9	73,500
	170	45.5	170.9	19,800		130	61.1	226.5	33,200		85	73.8	267.4	66,800
	175	43.7	165.7	18,500		135	59.8	223.6	30,900		90	72.6	265.9	61,000
	180	41.8	160.2	17,200		140	58.4	220.5	28,700		95	71.5	264.2	55,800
	185	39.9	154.2	16,100		145	57.1	217.3	26,800		100	70.4	262.4	51,200
	190	37.9	147.9	14,900		150	55.7	213.8	24,900		105	69.3	260.5	47,100
	195	35.8	141.0	13,900		155	54.3	210.3	23,200		110	68.1	258.5	43,400
	200	33.5	133.6	12,900		160	52.8	206.5	21,600		115	67.0	256.4	40,100
	205	31.2	125.4	12,000		165	51.4	202.5	20,100		120	65.8	254.1	37,100
	210	28.6	116.5	11,100		170	49.9	198.3	18,700		125	64.6	251.7	34,300
240	45	81.5	246.0	176,800		175	48.4	193.8	17,400		130	63.4	249.2	31,800
	50	80.3	245.1	151,400		180	46.8	189.2	16,100		135	62.2	246.6	29,500
	55	79.1	244.2	131,700		185	45.2	184.2	15,000		140	61.0	243.8	27,300
	60	77.9	243.1	116,000		190	43.5	179.0	13,800		145	59.8	240.9	25,300
	65	76.6	241.9	103,100		195	41.8	173.4	12,800		150	58.6	237.8	23,500
	70	75.4	240.6	92,500		200	40.0	167.5	11,800		155	57.3	234.6	21,800
	75	74.2	239.1	83,400		205	38.2	161.2	10,900		160	56.0	231.3	20,100
	80	72.9	237.6	75,700		210	36.3	154.4	10,000		165	54.7	227.7	18,600
	85	71.6	235.9	69,000		215	34.2	147.2	9,100		170	53.4	224.0	17,200
	90	70.4	234.1	63,200		220	32.1	139.3	8,300		175	52.1	220.1	15,900
	95	69.1	232.2	58,000		225	29.8	130.8	7,600		180	50.7	216.0	14,700
	100	67.8	230.2	53,500	260	50	81.0	265.4	150,000		185	49.3	211.7	13,500
	105	66.5	228.0	49,400		55	79.9	264.5	130,300		190	47.9	207.2	12,400
	110	65.2	225.7	45,700		60	78.8	263.5	114,600		195	46.4	202.5	11,400
	115	63.9	223.2	42,400		65	77.7	262.4	101,800		200	44.9	197.5	10,400
	120	62.5	220.6	39,300		70	76.5	261.2	91,100		205	43.4	192.2	9,400
	125	61.2	217.8	36,600		75	75.4	259.9	82,000		210	41.8	186.6	8,500
	130	59.8	214.9	34,000		80	74.3	258.5	74,300		215	40.1	180.7	7,700
	135	58.4	211.8	31,700		85	73.1	257.0	67,600		220	38.4	174.5	6,900
	140	57.0	208.6	29,600		90	71.9	255.3	61,800		225	36.7	167.8	6,100
	145	55.5	205.1	27,600		95	70.8	253.6	56,600		230	34.8	160.7	5,400
	150	54.0	201.5	25,700		100	69.6	251.7	52,000		235	32.9	153.1	4,700
	155	52.5	197.7	24,000		105	68.4	249.7	47,900		240	30.8	144.8	4,000
	160	51.0	193.6	22,400		110	67.2	247.6	44,300					
	165	49.4	189.4	20,900		115	66.0	245.4	40,900					
	170	47.8	184.9	19,500		120	64.8	243.0	37,900					
	175	46.2	180.1	18,200		125	63.6	240.5	35,100					
	180	44.5	175.0	17,000		130	62.3	237.9	32,600					
						135	61.1	235.1	30,300					
						140	59.8	232.2	28,100					
						145	58.5	229.2	26,100					

MANITOWOC ENGINEERING CO.

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



LIFTCRANE CAPACITIES

BOOM NO. 27B WITH OPEN THROAT TOP
OFFSET 4-1/2 DEGREES
120,000 LB. OR 123,000 LB. COUNTERWEIGHT
360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS

4600 SERIES 4

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
280	50	81.7	285.7	148,900
	55	80.7	284.9	129,200
	60	79.6	283.9	113,500
	65	78.6	282.9	100,600
	70	77.5	281.8	90,000
	75	76.5	280.6	80,900
	80	75.4	279.3	73,200
	85	74.4	277.9	66,500
	90	73.3	276.4	60,600
	95	72.2	274.8	55,500
	100	71.1	273.0	50,900
	105	70.0	271.2	46,800
	110	68.9	269.3	43,100
	115	67.8	267.2	39,800
	120	66.7	265.1	36,800
	125	65.6	262.8	34,000
	130	64.5	260.4	31,500
	135	63.3	257.9	29,100
	140	62.2	255.2	27,000
	145	61.0	252.5	25,000
	150	59.8	249.6	23,100
	155	58.6	246.5	21,400
	160	57.4	243.3	19,800
	165	56.2	240.0	18,300
	170	54.9	236.4	16,900

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
290	55	81.0	295.0	128,500
	60	80.0	294.1	112,700
	65	79.0	293.1	99,900
	70	78.0	292.1	89,200
	75	76.9	290.9	80,100
	80	75.9	289.6	72,400
	85	74.9	288.3	65,700
	90	73.9	286.8	59,900
	95	72.8	285.3	54,700
	100	71.8	283.6	50,100
	105	70.8	281.9	46,000
	110	69.7	280.0	42,300
	115	68.6	278.0	39,000
	120	67.6	276.0	36,000
	125	66.5	273.8	33,200
	130	65.4	271.5	30,700
	135	64.3	269.1	28,300
	140	63.2	266.6	26,200
	145	62.1	263.9	24,200
	150	61.0	261.1	22,300
	155	59.8	258.2	20,600
	160	58.7	255.2	19,000
	165	57.5	252.0	17,500
	170	56.3	248.6	16,100
	175	55.1	245.2	14,800
300	180	53.9	241.5	13,500
	185	52.6	237.7	12,400
	190	51.4	233.7	11,300
	195	50.1	229.5	10,200
	200	48.8	225.2	9,200
	205	47.4	220.6	8,300
	210	46.1	215.8	7,400
	215	44.7	210.7	6,500
	220	43.2	205.4	5,700
	225	41.7	199.9	4,900
	230	40.2	194.0	4,200
	55	81.3	305.2	127,900
	60	80.3	304.3	112,100
	65	79.3	303.3	99,300
	70	78.4	302.3	88,600
	75	77.4	301.2	79,500
	80	76.4	300.0	71,800
	85	75.4	298.6	65,100
	90	74.4	297.2	59,200
	95	73.4	295.8	54,100
	100	72.4	294.2	49,500
	105	71.4	292.5	45,400
	110	70.4	290.7	41,700
	115	69.4	288.8	38,400
	120	68.4	286.8	35,300
	125	67.3	284.7	32,600
	130	66.3	282.5	30,000
	135	65.2	280.2	27,700
	140	64.2	277.8	25,600
	145	63.1	275.2	23,600
	150	62.0	272.6	21,700
	155	60.9	269.8	20,000
	160	59.8	266.9	18,400
	165	58.7	263.8	16,900
	170	57.6	260.7	15,500
	175	56.4	257.3	14,200
	180	55.3	253.9	12,900
	185	54.1	250.3	11,700

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
300	190	52.9	246.5	10,600
	195	51.7	242.5	9,600
	200	50.4	238.4	8,600
	205	49.2	234.1	7,600
	210	47.9	229.6	6,800
	215	46.6	224.9	5,900
	220	45.2	219.9	5,100
	225	43.9	214.7	4,300
	55	81.6	315.3	127,100
	60	80.6	314.4	111,400
	65	79.7	313.5	98,500
	70	78.7	312.5	87,800
310	75	77.8	311.4	78,800
	80	76.9	310.3	71,000
	85	75.9	309.0	64,300
	90	74.9	307.6	58,500
	95	74.0	306.2	53,300
	100	73.0	304.7	48,700
	105	72.0	303.0	44,600
	110	71.1	301.3	40,900
	115	70.1	299.5	37,600
	120	69.1	297.6	34,500
	125	68.1	295.6	31,800
	130	67.1	293.4	29,200
	135	66.1	291.2	26,900
	140	65.1	288.9	24,700
	145	64.0	286.5	22,800
	150	63.0	283.9	20,900
	155	62.0	281.2	19,200
	160	60.9	278.4	17,600
	165	59.8	275.5	16,100
	170	58.7	272.5	14,700
	175	57.7	269.3	13,300
	180	56.5	266.0	12,100
	185	55.4	262.6	10,900
	190	54.3	259.0	9,800
	195	53.1	255.2	8,800
	200	52.0	251.3	7,800
	205	50.8	247.3	6,800
	210	49.6	243.0	5,900
	215	48.3	238.6	5,100
	220	47.1	233.9	4,300