

MEETS
ANSI B30.5
REQUIREMENTS

**BOOM NO. 27 WITH OPEN THROAT TOP OFFSET 4-1/2 DEGREES
113,500 LB. COUNTERWEIGHT**

MACHINE EQUIPMENT: Machine equipped with 26'-1" crawlers, 60" treads, 30' heavy duty mast, Vicon independent boom hoist with 16 part reeving, 12 part mast hoist reeving, four 1-3/8" boom pendants and 113,500 lb. counterweight.

HOIST REEVING FOR MAIN LOAD BLOCK						
No. Parts of Line	1	2	3	4	5	6
Max. Load — Lbs.	40,000	80,000	120,000	160,000	200,000	240,000
No. Parts of Line	7	8	9	10	11	
Max. Load — Lbs.	280,000	320,000	360,000	400,000	440,000	

LOAD AND WHIP LINE SPECIFICATIONS	
LOAD LINE: 1-1/4" — 6x31 Warrington-Seale, Extra Improved Plow Steel, Regular Lay, IWRC. Minimum Breaking Strength 79.9 Ton. (Approx. Weight Per Ft. in Lbs. 2.89)	
WHIP LINE: 1-1/4" — 6x31 Warrington-Seale, Extra Improved Plow Steel, Regular Lay, IWRC. Minimum Breaking Strength 79.9 Ton. Maximum Load — 40,000 Lbs. Per Line (Approx. Weight Per Ft. in Lbs. 2.89)	

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED				(A) DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED	
OVER FRONT OF BLOCKED CRAWLERS		OVER SIDE OF CRAWLERS			
Boom Lgth.	Jib No. 122A	Boom Lgth.	Jib No. 122A	Jib Length	Jib No. 122A
260'	—	230'	—	40' 50'	6,300 Lb. 7,200 Lb.
250'	—	220'	—		
240'	—	210'	40'		
230'	50'	200'	50'		

Load block, hook and weight ball on ground at start.

DEDUCT FROM CAPACITIES WHEN UPPER BOOM POINT IS ATTACHED	
One Sheave Point	1,200 Lb.
Two Sheave Point	1,500 Lb.
Integral Point	1,600 Lb.

Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity:	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity:	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity:	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity:
19	83.0	87.0	434,900		21	82.5	96.8	386,100		22	82.6	106.7	356,200		23	82.8	116.7	330,000	
20	82.2	86.8	421,400		22	81.8	96.6	356,600		23	82.1	106.6	330,800		24	82.3	116.5	307,900	
21	81.5	86.6	386,900		23	81.2	96.4	331,200		24	81.5	106.4	308,700		25	81.7	116.4	288,500	
22	80.8	86.4	357,400		24	80.5	96.2	309,100		25	80.9	106.2	289,200		26	81.2	116.2	271,200	
23	80.1	86.2	332,000		25	79.9	96.0	289,700		26	80.3	106.0	272,000		27	80.7	116.0	255,900	
24	79.3	86.0	309,900		26	79.2	95.8	272,500		27	79.7	105.8	256,700		28	80.2	115.8	242,100	
25	78.6	85.8	290,500		27	78.6	95.6	257,100		28	79.2	105.6	242,900		29	79.6	115.6	229,600	
26	77.9	85.5	273,300		28	77.9	95.3	243,400		29	78.6	105.4	230,500		30	79.1	115.4	218,400	
27	77.1	85.3	258,000		29	77.3	95.1	230,900		30	78.0	105.1	219,200		32	78.0	114.9	198,700	
28	76.4	85.0	244,200		30	76.6	94.8	219,700		32	76.8	104.6	199,500		34	77.0	114.4	182,100	
29	75.6	84.7	231,800		32	75.3	94.2	200,000		34	75.6	104.0	182,900		36	75.9	113.9	167,900	
30	74.9	84.4	220,500		34	74.0	93.6	183,400		36	74.4	103.4	168,700		38	74.8	113.3	155,600	
32	73.4	83.7	200,800		36	72.6	92.9	169,200		38	73.2	102.8	156,500		40	73.7	112.7	144,900	
34	71.9	83.0	184,300		38	71.3	92.2	157,000		40	72.0	102.1	145,800		45	70.9	110.9	123,300	
36	70.3	82.2	170,100		40	69.9	91.4	146,300		45	68.9	100.2	124,200		50	68.1	108.9	106,900	
38	68.8	81.4	157,900		45	66.4	89.2	124,700		50	65.8	97.9	107,800		55	65.3	106.6	94,000	
40	67.2	80.5	147,200		50	62.9	86.6	108,300		55	62.6	95.3	94,900		60	62.3	103.9	83,600	
45	63.2	78.0	125,600		55	59.2	83.6	95,400		60	59.2	92.3	84,500		65	59.3	101.0	75,100	
50	59.0	75.0	109,200		60	55.3	80.2	85,000		65	55.8	88.9	76,000		70	56.2	97.6	67,900	
55	54.7	71.4	96,300		65	51.2	76.2	76,500		70	52.2	85.0	68,800		75	52.9	93.8	61,800	
60	50.0	67.3	85,900		70	46.9	71.5	69,300		75	48.3	80.6	62,700		80	49.5	89.6	56,600	
65	45.0	62.3	77,400		75	42.2	66.1	63,300		80	44.3	75.5	57,500		85	45.9	84.8	52,100	
70	39.4	56.4	70,200		80	37.0	59.6	58,000		85	39.8	69.6	53,000		90	42.0	79.3	48,100	
75	33.1	49.0	64,200		85	31.0	51.6	53,500		90	34.9	62.7	49,000		95	37.9	73.0	44,500	
80	25.2	39.1	58,900		90	23.6	41.1	49,500		95	29.3	54.1	45,400		100	33.2	65.6	41,400	
										100	22.3	42.9	42,300						
															105	27.8	56.5	38,600	
															110	21.1	44.7	36,000	

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Form No. 6722-B, 2-20-84/GA

SEE CONDITIONS ON REVERSE SIDE

Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity:	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity:	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity:	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity:
24	82.9	126.7	307,800		28	82.8	156.4	240,000		32	82.7	186.1	195,000		36	82.3	205.7	163,000	
25	82.4	126.5	288,400		29	82.4	156.2	227,500		34	82.1	185.8	178,300		38	81.7	205.4	150,700	
26	82.0	126.3	271,200		30	82.0	156.1	216,200		36	81.4	185.5	164,100		40	81.1	205.1	140,000	
27	81.5	126.2	255,800		32	81.3	155.7	196,500		38	80.8	185.1	151,800		45	79.7	204.2	118,300	
28	81.0	126.0	242,000		34	80.5	155.4	179,900		40	80.1	184.8	141,100		50	78.2	203.1	101,900	
29	80.5	125.8	229,600		36	79.7	155.0	165,700		45	78.5	183.7	119,400		55	76.8	201.9	88,900	
30	80.0	125.6	218,300		38	78.9	154.6	153,400		50	76.9	182.6	103,000		60	75.3	200.6	78,500	
32	79.0	125.2	198,600		40	78.1	154.1	142,700		55	75.2	181.2	90,100		65	73.8	199.1	70,000	
34	78.1	124.7	182,000		45	76.2	152.9	121,000		60	73.6	179.7	79,700		70	72.3	197.5	62,800	
36	77.1	124.2	167,800		50	74.2	151.4	104,600		65	71.9	178.1	71,100		75	70.8	195.8	56,700	
38	76.1	123.7	155,600		55	72.2	149.8	91,700		70	70.2	176.3	63,900		80	69.2	193.9	51,500	
40	75.1	123.1	144,800		60	70.2	148.0	81,300		75	68.5	174.3	57,800		85	67.7	191.8	46,900	
45	72.6	121.5	123,200		65	68.1	146.0	72,700		80	66.8	172.1	52,600		90	66.1	189.6	42,900	
50	70.1	119.7	106,800		70	66.0	143.7	65,600		85	65.0	169.8	48,000		95	64.5	187.2	39,400	
55	67.5	117.6	93,900		75	63.9	141.3	59,500		90	63.2	167.3	44,000		100	62.9	184.6	36,200	
60	64.8	115.3	83,500		80	61.7	138.6	54,200		95	61.4	164.5	40,500		105	61.3	181.9	33,400	
65	62.1	112.6	75,000		85	59.5	135.6	49,200		100	59.6	161.6	37,400		110	59.6	178.9	30,800	
70	59.4	109.6	67,800		90	57.2	132.4	45,700		105	57.7	158.4	34,500		115	57.9	175.8	28,500	
75	56.5	106.3	61,700		95	54.9	128.9	42,200		110	55.8	155.0	32,000		120	56.2	172.4	26,400	
80	53.5	102.6	56,500		100	52.5	125.1	39,000		115	53.8	151.4	29,700		125	54.5	168.9	24,500	
85	50.5	98.5	52,000		105	50.0	120.9	36,200		120	51.8	147.5	27,600		130	52.7	165.1	22,800	
90	47.2	93.9	48,000		110	47.4	116.3	33,700		125	49.7	143.2	25,700		135	50.8	161.0	21,100	
95	43.8	88.7	44,500		115	44.7	111.3	31,400		130	47.5	138.7	23,900		140	48.9	156.6	19,600	
100	40.1	82.9	41,300		120	41.9	105.8	29,300		135	45.3	133.8	22,300		145	47.0	152.0	18,200	
105	36.1	76.2	38,500		125	38.9	99.6	27,300		140	43.0	128.4	20,800		150	44.9	147.0	17,000	
110	31.7	68.3	36,000		130	35.6	92.8	25,600		145	40.6	122.6	19,400		155	42.8	141.7	15,800	
115	26.6	58.8	33,700		135	32.1	85.0	24,000		150	38.0	116.3	18,100		160	40.6	135.9	14,600	
120	20.2	46.3	31,600		140	28.1	75.9	22,500		155	35.3	109.3	16,900		165	38.4	129.6	13,600	
125					145	23.6	65.1	21,100		160	32.3	101.6	15,800		170	35.9	122.8	12,600	
130					150	17.9	51.0	19,800		165	29.1	92.8	14,700		175	33.4	115.3	11,700	
135										170	25.6	82.8	13,800		180	30.6	107.0	10,800	
140										175	21.4	70.7	12,800		185	27.6	97.7	10,000	
145										180	16.2	55.2	12,000		190	24.2	87.0	9,200	
150															195	20.2	74.2	8,500	
155															200	15.3	57.8	7,800	
160																			
165																			
170																			
175																			
180																			
185																			
190																			
195																			
200																			
205																			

Capacities continued on next page.

MANITOWOC ENGINEERING CO.

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



LIFT CRANE CAPACITIES — 4600 SERIES-3 BOOM NO. 27 WITH OPEN THROAT TOP, CONT'D

SEE CONDITIONS ON FRONT PAGE

Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity:	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity:	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity:
220	38	82.5	225.7	149,400	240	40	82.6	245.6	137,500	260	45	82.1	265.0	114,500
	40	82.0	225.4	138,700		45	81.4	244.8	115,800		50	81.0	264.2	98,000
	45	80.6	224.5	117,000		50	80.2	243.9	99,400		55	79.9	263.3	85,100
	50	79.3	223.6	100,500		55	79.0	242.9	86,400		60	78.7	262.3	74,600
	55	78.0	222.5	87,600		60	77.8	241.9	76,000		65	77.6	261.2	66,100
	60	76.6	221.3	77,200		65	76.5	240.6	67,400		70	76.5	260.0	58,900
	65	75.3	220.0	68,600		70	75.3	239.3	60,200		75	75.3	258.7	52,800
	70	73.9	218.5	61,400		75	74.1	237.9	54,100		80	74.2	257.3	47,500
	75	72.6	216.9	55,300		80	72.8	236.3	48,900		85	73.0	255.7	42,900
	80	71.2	215.2	50,100		85	71.6	234.7	44,300		90	71.9	254.1	38,900
230	85	69.8	213.4	45,500	250	90	70.3	232.9	40,300	270	95	70.7	252.3	35,400
	90	68.4	211.4	41,500		95	69.0	230.9	36,800		100	69.5	250.5	32,200
	95	67.0	209.2	38,000		100	67.7	228.9	33,600		105	68.3	248.5	29,400
	100	65.6	207.0	34,800		105	66.4	226.7	30,800		110	67.1	246.3	26,900
	105	64.1	204.5	32,000		110	65.1	224.4	28,300		115	65.9	244.1	24,600
	110	62.7	201.9	29,400		115	63.8	221.9	25,900		120	64.7	241.7	22,400
	115	61.2	199.2	27,100		120	62.4	219.3	23,800		125	63.5	239.2	20,500
	120	59.7	196.3	25,000		125	61.1	216.5	21,900		130	62.2	236.6	18,800
	125	58.1	193.1	23,100		130	59.7	213.6	20,200		135	61.0	233.8	17,100
	130	56.6	189.8	21,300		135	58.3	210.5	18,500		140	59.7	230.9	15,600
240	135	55.0	186.3	19,700	260	140	56.9	207.2	17,000	280	145	58.4	227.8	14,200
	140	53.4	182.6	18,200		145	55.4	203.8	15,600		150	57.1	224.6	12,900
	145	51.7	178.7	16,800		150	53.9	200.1	14,400		155	55.8	221.2	11,700
	150	50.0	174.5	15,500		155	52.4	196.3	13,100		160	54.4	217.6	10,600
	155	48.3	170.0	14,300		160	50.9	192.2	12,000		165	53.0	213.9	9,600
	160	46.5	165.3	13,200		165	49.3	187.9	11,000		170	51.6	209.9	8,600
	165	44.6	160.3	12,200		170	47.7	183.4	10,000		175	50.2	205.7	7,600
	170	42.7	154.9	11,200		175	46.1	178.6	9,100		180	48.7	201.4	6,800
	175	40.7	149.1	10,200		180	44.4	173.5	8,200		185	47.2	196.8	5,900
	180	38.6	142.9	9,400		185	42.6	168.1	7,400		190	45.7	191.9	5,200
250	185	36.5	136.2	8,500	270	190	40.8	162.3	6,600	290	195	44.1	186.8	4,400
	190	34.2	129.0	7,800		195	38.9	156.2	5,800					
	195	31.7	121.0	7,000		200	36.9	149.6	5,100					
	200	29.1	112.2	6,300		205	34.8	142.5	4,500					
	205	26.2	102.3	5,700										
	210	23.0	91.0	5,000		40	82.9	255.7	136,800					
	215	19.3	77.5	4,400		45	81.8	254.9	115,100					
						50	80.6	254.1	98,600					
						55	79.4	253.2	85,700					
						60	78.3	252.1	75,300					
260	38	82.8	235.8	148,700	280	65	77.1	250.9	66,700	300	70	75.9	249.7	59,500
	40	82.3	235.5	138,000		70	75.9	249.7	59,500		75	74.7	248.3	53,400
	45	81.0	234.7	116,200		75	74.7	248.3	53,400		80	73.5	246.8	48,100
	50	79.8	233.8	99,800		80	73.5	246.8	48,100		85	72.3	245.2	43,600
	55	78.5	232.7	86,800		85	72.3	245.2	43,600		90	71.1	243.5	39,600
	60	77.2	231.6	76,400		90	71.1	243.5	39,600		95	69.9	241.7	36,000
	65	75.9	230.3	67,800		95	69.9	241.7	36,000		100	68.7	239.7	32,900
	70	74.7	228.9	60,600		100	68.7	239.7	32,900		105	67.4	237.6	30,000
	75	73.4	227.4	54,500		105	67.4	237.6	30,000		110	66.2	235.4	27,500
	80	72.0	225.8	49,300		110	66.2	235.4	27,500		115	64.9	233.0	25,200
270	85	70.7	224.0	44,700	290	115	63.6	230.6	23,100	310	120	63.6	230.6	23,100
	90	69.4	222.2	40,700		120	63.6	230.6	23,100		125	62.3	227.9	21,200
	95	68.1	220.1	37,200		125	62.3	227.9	21,200		130	61.0	225.2	19,400
	100	66.7	218.0	34,000		130	61.0	225.2	19,400		135	59.7	222.2	17,800
	105	65.3	215.7	31,200		135	59.7	222.2	17,800		140	58.4	219.2	16,300
	110	63.9	213.2	28,700		140	58.4	219.2	16,300		145	57.0	215.9	14,900
	115	62.5	210.6	26,300		145	57.0	215.9	14,900		150	55.6	212.5	13,600
	120	61.1	207.8	24,200		150	55.6	212.5	13,600		155	54.2	208.9	12,400
	125	59.7	204.9	22,300		155	54.2	208.9	12,400		160	52.7	205.1	11,300
	130	58.2	201.8	20,600		160	52.7	205.1	11,300		165	51.3	201.1	10,200
280	135	56.7	198.5	18,900	300	165	51.3	201.1	10,200	320	170	49.8	196.9	9,200
	140	55.2	195.1	17,400		170	49.8	196.9	9,200		175	48.3	192.4	8,300
	145	53.7	191.4	16,000		175	48.3	192.4	8,300		180	46.7	187.7	7,400
	150	52.1	187.5	14,700		180	46.7	187.7	7,400		185	45.1	182.7	6,600
	155	50.5	183.4	13,500		185	45.1	182.7	6,600		190	43.4	177.5	5,800
	160	48.8	179.0	12,400		190	43.4	177.5	5,800		195	41.7	171.9	5,100
	165	47.1	174.4	11,400		195	41.7	171.9	5,100		200	39.9	165.9	4,400
	170	45.4	169.5	10,400		200	39.9	165.9	4,400					
	175	43.6	164.2	9,500										
	180	41.7	158.7	8,600										
290	185	39.8	152.7	7,800	310	185	39.8	152.7	7,800	330	190	37.8	146.3	7,000
	190	37.8	146.3	7,000		190	37.8	146.3	7,000		195	35.6	139.4	6,200
	195	35.6	139.4	6,200		195	35.6	139.4	6,200		200	33.4	131.9	5,500
	200	33.4	131.9	5,500		200	33.4	131.9	5,500		205	31.0	123.7	4,900
	205	31.0	123.7	4,900		205	31.0	123.7	4,900		210	28.4	114.7	4,200
	210	28.4	114.7	4,200		210	28.4	114.7	4,200					

Combined From Charts:
No. 6722-B 2-20-84
No. 6721-B 2-20-84
No. 6444-A 2-20-84

SEE CONDITIONS ON FRONT PAGE