

**MANITOWOC ENGINEERING CO.**

(A division of The Manitowoc Company, Inc.) Manitowoc, Wisconsin 54220

**LIFTCRANE CAPACITIES**MEETS
ANSI B30.5
REQUIREMENTS**4000W****CRAWLER****BOOM NO. 22 WITH OPEN THROAT TOP
24'0" CRAWLERS — 104,400 LB. COUNTERWEIGHT****LIFTING CAPACITIES:** Capacities for various boom lengths and operating radii may be based on per cent of tipping, strength of structural components, operating speeds and other factors.

Capacities are for freely suspended loads and do not exceed 75% of static tipping loads. Capacities based on structural competence are shown by shaded areas.

Capacities are shown in pounds. Deduct 1200 pounds from capacities listed when single sheave upper boom point is attached and 1500 pounds when two sheave upper boom point is attached. Upper boom point cannot be used on 220 ft. boom. Weight of jib, (see chart A), all load blocks, hooks, weight ball, slings, hoist lines beneath boom and jib point sheaves, etc., 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.

OPERATING CONDITIONS: Machine to operate in level position on a firm surface with gantry in working position and under conditions referred to in rigging drawing No. 48168 and load line specification chart No. 5320.

Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, travel, as well as adverse operating conditions & physical machine depreciation.

OPERATING RADIUS: Operating radius is the horizontal distance from the axis of rotation to the center of vertical hoist line or load block with the load freely suspended. Add 14" to boom point radius for radius of sheave when using single part hoist line.

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: Boom point elevation, in feet, is the vertical distance from ground level to centerline of boom point shaft.**MACHINE EQUIPMENT:** Machine equipped with 24'0" ex-

tensible crawlers, 48" treads, 15' retractable gantry, 12 part boom hoist reeving, four 1-3/8" boom pendants, 1st Cwt. 40,100 lbs., 2nd Cwt. 35,800 lbs., 3rd Cwt. 28,500 lbs. Total counterweight 104,400 pounds.

HOIST REEVEING FOR MAIN LOAD BLOCK

No. Parts of Line	1	2	3	4	5	6
Max. Load — Lbs.	32,500	64,000	95,500	126,200	157,000	186,800
No. Parts of Line	7	8	9	10	11	12
Max. Load — Lbs.	215,900	243,000	267,100	281,000	294,000	300,000

LOAD AND WHIP LINE SPECIFICATIONS

LOAD LINE: 1-1/8" — 6x31 Warrington-Seale, Extra Improved Plow Steel, Regular Lay, IWRC. Minimum Breaking Strength 65 Ton.

WHIP LINE: 1-1/8" — 6x25 Filler Wire, Improved Plow Steel, Regular Lay, IWRC. Minimum Breaking Strength 56.5 Ton. Maximum Load — 28,300 lbs. per line.

**MAXIMUM BOOM AND JIB LENGTHS
LIFTED UNASSISTED**

OVER FRONT OF BLOCKED CRAWLERS		OVER SIDE OF EXTENDED CRAWLERS	
Boom Length	Jib No. 123	Boom Length	Jib No. 123
220'	—	200'	—
210'	—	190'	—
200'	40'	180'	50'
190'	60'	170'	60'
OVER SIDE OF RETRACTED CRAWLERS		(A) DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED	
Boom Length	Jib No. 123	Jib Length	Jib No. 123
190'	—	30'	3,000 lb.
180'	—	40'	3,600 lb.
170'	50'	50'	4,200 lb.
160'	60'	60'	4,900 lb.

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

For jib capacities, consult jib chart.

Boom Lgth.: Feet	Oper. Rad.: Feet	Bm. Ang.: Deg.	Boom Point: Elev.	Capacity: Crawlers Retracted	Capacity: Crawlers Extended	Boom Lgth.: Feet	Oper. Rad.: Feet	Bm. Ang.: Deg.	Boom Point: Elev.	Capacity: Crawlers Retracted	Capacity: Crawlers Extended	Boom Lgth.: Feet	Oper. Rad.: Feet	Bm. Ang.: Deg.	Boom Point: Elev.	Capacity: Crawlers Retracted	Capacity: Crawlers Extended
17	79.0	75.8	275,000	300,000		50	54.6	72.3	55,000	63,100		19	81.2	105.9	224,600	243,000	
18	78.2	75.6	248,000	285,000		55	50.1	68.5	48,400	55,400		20	80.6	105.8	205,800	240,000	
19	77.3	75.4	225,000	270,100		60	45.2	63.9	43,000	49,200		22	79.4	105.4	176,100	213,100	
20	76.5	75.2	206,900	253,500		65	39.9	58.5	38,600	44,200		24	78.3	105.0	153,500	183,800	
22	74.8	74.7	177,200	214,000		70	34.0	51.8	34,900	39,900		26	77.1	104.6	135,900	161,400	
24	73.1	74.1	154,800	184,800		75	26.9	43.3	31,700	36,300		28	75.9	104.1	121,800	143,600	
26	71.4	73.4	137,200	162,500		80	17.4	31.0	29,000	33,200		30	74.7	103.6	110,100	129,200	
28	69.7	72.7	123,100	144,800		17	81.5	96.1	267,100	267,100		32	73.5	103.0	100,400	117,300	
30	67.9	72.0	111,500	130,500		18	80.8	96.0	247,400	262,000		34	72.3	102.4	92,100	107,300	
32	66.1	71.1	101,700	118,600		19	80.2	95.8	225,000	256,000		36	71.1	101.7	85,000	98,800	
34	64.3	70.2	93,500	108,600		20	79.5	95.6	206,200	250,500		38	69.9	101.0	78,800	91,400	
36	62.6	69.2	86,400	100,100		22	78.2	95.2	176,500	213,400		40	68.7	100.3	73,400	85,000	
38	60.6	68.1	80,300	92,700		24	76.9	94.8	154,000	184,200		45	65.6	98.2	62,500	72,000	
40	58.7	66.9	74,900	86,300		26	75.6	94.3	136,400	161,800		50	62.4	95.7	54,100	62,200	
45	53.8	63.6	63,900	73,400		28	74.3	93.8	122,200	144,100		55	59.1	92.9	47,400	54,500	
50	48.6	59.6	55,600	63,700		30	73.0	93.2	110,600	129,700		60	55.7	89.7	42,100	48,300	
55	42.8	54.7	49,000	56,000		32	71.7	92.5	100,900	117,800		65	52.2	86.1	37,700	43,300	
60	36.7	48.7	43,600	49,800		34	70.3	91.8	92,600	107,800		70	48.4	81.9	33,900	39,000	
65	28.8	40.8	39,200	44,800		36	68.9	91.1	85,500	99,200		75	44.5	77.2	30,800	35,400	
70	18.6	29.5	35,500	40,500		38	67.6	90.3	79,400	91,900		80	40.2	71.7	28,000	32,300	
75						40	66.2	89.4	74,000	85,500		85	35.6	65.3	25,700	29,600	
80						45	62.7	87.1	63,000	72,500		90	30.3	57.6	23,600	27,200	
85						50	59.0	84.3	54,600	62,700		95	24.0	47.8	21,700	25,200	
90						55	55.2	81.0	48,000	55,100		100	15.6	33.9	20,100	23,300	
95						60	51.2	77.3	42,700	48,900							
100						65	47.0	73.0	38,200	43,800							
						70	42.5	67.9	34,500	39,600							
						75	37.6	62.0	31,400	36,000							
						80	32.0	54.8	28,600	32,900							
						85	25.4	45.6	26,300	30,200							
						90	16.4	32.5	24,200	27,800							

Capacities continued
on reverse side.



SEE CONDITIONS ON REVERSE SIDE

Boom Lgth. Feet	Oper. Rad. Feet	Bm. Ang. Deg.	Boom Paint. Elev.	Capacity: Crawlers Retracted	Capacity: Crawlers Extended	Boom Lgth. Feet	Oper. Rad. Feet	Bm. Ang. Deg.	Boom Paint. Elev.	Capacity: Crawlers Retracted	Capacity: Crawlers Extended	Boom Lgth. Feet	Oper. Rad. Feet	Bm. Ang. Deg.	Boom Paint. Elev.	Capacity: Crawlers Retracted	Capacity: Crawlers Extended
20	81.5	115.9	175.700	205,500	215,900	80	57.0	124.5	26,300	30,600	115	49.1	135.6	13,000	15,800		
22	80.4	115.6	175,700	175,700	212,000	85	54.5	121.1	23,900	27,900	120	46.8	131.1	11,900	14,500		
24	79.3	115.2	153,200	153,200	183,500	90	51.9	117.3	21,800	25,500	125	44.5	126.2	10,900	13,400		
26	78.3	114.8	135,600	135,600	161,100	95	49.3	113.2	20,000	23,400	130	42.0	120.9	10,000	12,300		
28	77.2	114.4	121,400	121,400	143,300	100	46.5	108.7	18,000	21,600	135	39.4	115.0	9,100	11,400		
30	76.1	113.9	109,700	109,700	128,900	105	43.6	103.7	16,900	19,900	140	36.7	108.7	8,300	10,500		
32	75.1	113.4	100,000	100,000	117,000	110	40.6	98.2	15,500	18,400	145	33.8	101.6	7,600	9,700		
34	74.0	112.8	91,700	91,700	107,000	115	37.3	92.0	14,300	17,000	150	30.6	93.6	6,900	8,900		
36	72.9	112.2	84,600	84,600	98,400	120	33.8	85.0	13,200	15,800	155	27.1	84.6	6,200	8,200		
38	71.8	111.6	78,500	78,500	91,000	125	29.9	76.9	12,200	14,700	160	23.1	73.9	5,700	7,500		
40	70.7	110.9	73,100	73,100	84,600	130	25.5	67.4	11,300	13,600	165	18.4	60.7	5,100	6,900		
45	67.9	109.0	62,100	62,100	71,500	135	20.3	55.6	10,400	12,700	32	80.9	184.9	97,300	114,500		
50	65.1	106.9	53,700	53,700	61,800	26	81.4	155.4	134,100	157,000	34	80.3	184.5	89,000	104,400		
55	62.2	104.4	47,000	47,000	54,100	28	80.7	155.1	119,900	142,000	36	79.7	184.2	81,600	95,800		
60	59.2	101.6	41,700	41,700	47,900	30	79.9	154.8	108,200	127,500	38	79.0	183.8	75,600	88,400		
65	56.1	98.4	37,200	37,200	42,900	32	79.1	154.1	98,500	115,600	40	78.4	183.4	70,200	81,900		
70	52.9	94.9	33,500	33,500	38,600	34	78.3	154.0	90,200	105,500	45	76.7	182.3	59,100	68,800		
75	49.6	90.8	30,400	30,400	35,000	36	77.6	153.6	83,100	96,900	50	75.1	181.0	50,700	59,000		
80	46.1	86.3	27,600	27,600	31,900	38	76.5	153.1	76,900	89,500	55	73.4	179.6	44,000	51,200		
85	42.3	81.3	25,200	25,200	29,200	40	76.0	152.6	71,400	83,100	60	71.8	178.1	38,600	45,000		
90	38.5	75.3	23,200	23,200	26,800	45	74.0	151.3	62,000	70,100	65	70.1	176.3	34,200	39,900		
95	35.3	68.4	21,700	21,700	24,700	50	72.0	149.8	50,400	60,200	70	68.4	174.4	30,400	35,600		
100	28.9	60.2	19,700	19,700	22,900	55	70.0	148.0	45,300	52,500	75	66.7	172.4	27,300	32,000		
105	22.9	49.9	18,200	18,200	21,200	60	67.9	146.1	40,000	46,300	80	64.9	170.1	24,500	28,800		
22	81.2	125.7	175,500	175,500	186,800	65	65.9	144.0	35,500	41,200	85	63.1	167.7	22,100	26,100		
24	80.0	125.4	163,400	163,400	174,500	70	63.5	139.1	28,600	33,300	90	61.3	165.0	20,000	23,700		
26	79.3	125.0	135,300	135,300	160,900	80	59.4	136.2	25,900	30,200	95	59.5	162.2	18,200	21,600		
28	78.3	124.6	121,100	121,100	143,100	85	57.7	133.1	22,500	27,000	100	57.6	159.2	16,500	19,800		
30	77.3	124.2	109,500	109,500	128,700	90	54.9	129.8	21,400	25,100	105	55.7	155.9	15,000	18,100		
32	76.3	123.7	99,700	99,700	116,800	95	52.5	126.1	19,500	23,000	110	53.8	152.3	13,700	16,600		
34	75.4	123.2	91,500	91,500	106,700	100	50.0	122.1	17,900	21,100	115	51.8	148.5	12,500	15,200		
36	74.4	122.7	84,400	84,400	98,200	105	47.5	117.7	16,400	19,500	120	49.7	144.5	11,300	14,000		
38	73.4	122.1	78,200	78,200	90,800	110	44.9	112.9	15,100	17,900	125	47.6	140.0	10,300	12,800		
40	72.4	121.5	72,800	72,800	84,300	115	42.1	107.6	13,800	16,500	130	45.4	135.3	9,300	11,400		
45	69.9	119.8	61,800	61,800	71,400	120	39.1	101.8	12,700	15,300	135	43.1	130.2	8,500	10,800		
50	67.3	117.8	53,400	53,400	61,500	125	36.0	95.3	11,700	14,200	140	40.8	124.6	7,700	9,900		
55	64.7	115.6	46,700	46,700	53,800	130	32.6	88.0	10,800	13,200	145	38.3	118.6	7,000	9,100		
60	62.0	113.1	41,400	41,400	47,600	135	28.8	79.6	9,900	12,000	150	35.6	111.9	6,300	8,300		
65	59.3	110.2	36,900	36,900	42,600	140	24.6	69.7	9,100	11,300	155	32.8	104.6	5,700	7,600		
70	56.4	107.1	33,200	33,200	38,300	145	19.6	57.4	8,400	10,500	160	29.3	96.3	5,100	7,000		
75	53.5	103.6	30,300	30,300	34,700	28	81.3	165.2	119,600	141,700	170	22.5	75.9	4,000	5,800		
80	50.3	99.3	27,300	27,300	31,600	30	79.8	164.9	107,900	129,000	175	17.9	62.3	3,500	5,200		
85	47.3	95.3	24,800	24,800	28,900	32	79.8	164.6	98,100	115,300	32	81.4	195.0	96,900	114,100		
90	44.0	90.5	22,800	22,800	26,500	34	79.1	164.2	89,800	105,200	34	80.8	194.7	88,500	104,000		
95	40.4	84.9	21,000	21,000	24,400	36	78.3	163.8	82,700	96,600	36	80.2	194.3	81,400	95,400		
100	36.6	78.7	19,300	19,300	22,600	38	77.6	163.4	76,500	89,200	38	79.6	194.0	75,200	88,000		
105	32.4	71.4	17,900	17,900	20,900	40	76.9	162.9	71,100	82,800	40	79.0	193.6	69,700	81,500		
110	27.6	62.7	16,500	16,500	19,400	45	75.0	161.7	60,100	69,700	45	77.4	192.6	58,700	68,400		
115	21.9	51.9	15,300	15,300	18,000	50	73.2	160.2	51,600	59,800	50	75.9	191.4	50,200	58,500		
24	81.0	135.5	152,600	152,600	183,300	55	71.3	158.6	45,000	52,200	55	74.3	190.0	43,600	50,800		
26	80.1	135.2	135,000	135,000	160,600	60	69.4	156.9	39,600	45,900	60	72.8	188.6	38,200	44,600		
28	79.2	134.8	120,800	120,800	142,800	65	67.2	154.9	34,700	40,800	65	71.2	186.9	33,700	39,400		
30	78.3	134.4	108,000	108,000	130,000	70	65.5	152.7	31,400	36,600	70	69.6	185.1	30,000	35,100		
32	77.4	134.0	99,400	99,400	116,400	75	63.5	150.3	28,200	32,900	75	67.9	183.2	26,800	31,500		
34	76.5	133.5	91,100	91,100	106,400	80	61.5	147.7	25,500	29,800	80	66.3	181.1	24,000	28,400		
36	75.6	133.0	84,000	84,000	97,800	85	59.4	144.9	23,100	27,100	85	64.7	178.8	21,700	25,700		
38	74.7	132.5	77,800	77,800	90,400	90	57.3	141.8	21,000	24,700	90	63.0	176.4	19,600	23,300		
40	73.8	131.9	72,400	72,400	84,000	95	55.0	138.5	19,200	22,600	95	61.3	173.7	17,700	21,200		
45	71.5	130.4	61,400	61,400	71,000	100	52.4	134.7	17,200	20,300	100	59.5	170.9	16,000	19,300		
50	69.1	128.6	53,000	53,000	61,100	105	50.7	130.9	16,000	19,100	105	57.8	167.8	14,500	17,600		
55	66.7	126.5	46,300	46,300	53,400	110	48.3	126.7	14,700	17,600	110	56.0	164.6	13,200	16,100		
60	64.3	124.3	41,000	41,000	47,200	115	45.9	122.0	13,500	16,200	115	54.1	161.1	12,000	14,700		
65	61.8	121.7	36,500	36,500	42,100	120	43.4	117.0	12,400	15,000	120	52.2	157.3	10,900	13,500		
70	59.3	118.9	32,800	32,800	37,900	125	40.7	111.4	11,300	13,800	125	50.3	153.3	9,900	12,400		
75	56.7	115.8	29,600	29,600	34,300	130	37.9	105.3	10,400	12,800	130	48.3	149.0	8,900	11,300		
80	54.0	112.8	26,900	26,900	31,200	135	34.8	98.5	9,600	11,800	135	46.3	144.4	8,100	10,300		
85	51.3	109.5	24,500	24,500	28,500	140	31.6	90.8	8,800	10,900	140	44.1	139.4	7,300	9,500		
90	48.4	104.3	22,400	22,400	26,100	145	28.0	82.1	8,000	10,100	145	41.9	134.1	6,500	8,600		
95	45.4	99.6	20,600	20,600	24,000	150	24.9	73.8	7,100	9,100	150	39.5	128.3	5,800	7,900		
100	42.2	94.4	18,900	18,900	22,100	155	18.9	59.0	6,700	8,600	155	37.2	122.0	5,200	7,200		
105	38.8	88.5	17,400	17,400	20,500	30	81.1	175.1	107,500	126,200	160	34.6	115.1	4,600	6,500		
110	35.1	81.9	16,100	16,100	19,000	32	80.4	174.7	104,800	124,500	165	31.9	107.5	4,100	5,900		
115	31.7	74.2	14,900	14,900	17,600	34	79.7	174.4	89,400	104,800	170	28.9	98.9	3,700	5,100		
120	28.5	65.1	13,800	13,800	16,400	36	79.0	174.0	82,300	96,200	175	25.6	89.2	3,300	4,700		
125	25.0	53.8	12,800	12,800	15,200	38	78.3	173.6	76,100	88,800	180	21.9	77.9	3,000	4,2		

**MANITOWOC ENGINEERING CO.**

(A division of The Manitowoc Company, Inc.) Manitowoc, Wisconsin 54220

**LIFTCRANE CAPACITIES — 4000W****BOOM NO. 22 WITH OPEN THROAT TOP, CONT'D.****SEE CONDITIONS ON FRONT PAGE**

Boom Lgth.: Feet	Oper. Rad.: Feet	Bm. Ang.: Deg.	Boom Point: Elev.	Capacity: Crawlers Retracted	Capacity: Crawlers Extended	Boom Lgth.: Feet	Oper. Rad.: Feet	Bm. Ang.: Deg.	Boom Point: Elev.	Capacity: Crawlers Retracted	Capacity: Crawlers Extended
200	34	81.3	204.8	88,200	95,500	220	38	81.0	224.4	73,900	86,800
	36	80.7	204.5	81,000	95,000		40	80.5	224.1	68,500	80,300
	38	80.1	204.1	74,800	87,600		45	79.2	223.2	57,400	67,200
	40	79.5	203.8	69,400	81,100		50	77.8	222.2	48,900	57,300
	45	78.1	202.8	58,300	68,100		55	76.5	221.0	42,200	49,500
	50	76.6	201.7	49,900	58,200		60	75.2	219.8	36,800	43,200
	55	75.1	200.4	43,200	50,400		65	73.8	218.4	32,400	38,100
	60	73.6	199.0	37,800	44,200		70	72.5	216.9	28,600	33,800
	65	72.1	197.5	33,300	39,000		75	71.1	215.2	25,400	30,200
	70	70.6	195.8	29,600	34,800		80	69.7	213.4	22,700	27,000
	75	69.1	194.0	26,400	31,100		85	68.3	211.5	20,300	24,300
	80	67.6	192.0	23,600	28,000		90	66.9	209.5	18,200	21,900
210	85	66.0	189.8	21,300	25,300	230	95	65.5	207.2	16,300	19,800
	90	64.4	187.5	19,200	22,900		100	64.0	204.9	14,600	17,900
	95	62.8	185.0	17,300	20,800		105	62.6	202.4	13,100	16,200
	100	61.2	182.4	15,600	18,900		110	61.1	199.7	11,800	14,700
	105	59.6	179.5	14,100	17,200		115	59.6	196.9	10,600	13,300
	110	57.9	176.5	12,800	15,700		120	58.1	193.8	9,500	12,100
	115	56.2	173.3	11,600	14,300		125	56.5	190.6	8,400	11,000
	120	54.4	169.8	10,500	13,100		130	55.0	187.2	7,500	9,900
	125	52.7	166.1	9,400	12,000		135	53.3	183.6	6,600	8,900
	130	50.8	162.2	8,500	10,900		140	51.7	179.8	5,800	8,000
	135	49.0	157.9	7,700	9,900		145	50.0	175.7	5,100	7,200
	140	47.0	153.4	6,900	9,100		150	48.3	171.4	4,400	6,500
220	145	45.0	148.6	6,100	8,200		155	46.5	166.8	3,800	5,700
	150	43.0	143.4	5,400	7,500	240	160	44.7	161.9	3,300	5,100
	155	40.8	137.9	4,800	6,700		165	42.8	156.7	2,900	4,400
	160	38.6	131.8	4,200	6,100						
	165	36.2	125.3	3,700	5,500						
	170	33.7	118.2	3,200	4,900						
	175	31.1	110.3	2,800	4,300						
	36	81.1	214.6	80,600	94,600						
	38	80.6	214.3	74,400	87,200						
	40	80.0	213.9	68,900	80,700						
	45	78.6	213.0	57,900	67,600						
	50	77.3	211.9	49,400	57,700						
	55	75.9	210.7	42,700	50,000						
230	60	74.4	209.4	37,300	43,700	250	65	73.0	207.9	32,900	38,600
	65	73.0	207.9	32,900	38,600		70	71.6	206.4	29,100	34,300
	70	71.6	206.4	29,100	34,300		75	70.1	204.6	25,900	30,700
	75	70.1	204.6	25,900	30,700		80	68.7	202.7	23,200	27,500
	80	68.7	202.7	23,200	27,500		85	67.2	200.7	20,800	24,800
	85	67.2	200.7	20,800	24,800		90	65.7	198.5	18,700	22,400
	90	65.7	198.5	18,700	22,400		95	64.2	196.2	16,800	20,300
	95	64.2	196.2	16,800	20,300		100	62.7	193.7	15,200	18,500
	100	62.7	193.7	15,200	18,500		105	61.1	191.0	13,700	16,800
	105	59.6	188.2	12,300	15,300		110	58.0	185.2	11,100	13,900
	110	58.0	185.2	11,100	13,900		115	56.4	181.9	10,000	12,600
	115	56.4	181.9	10,000	12,600		120	54.7	178.5	9,000	11,500
240	120	54.7	178.5	9,000	11,500	260	125	53.0	174.9	8,000	10,400
	125	53.0	174.9	8,000	10,400		130	51.3	171.0	7,200	9,500
	130	51.3	171.0	7,200	9,500		135	49.5	166.8	6,400	8,600
	135	49.5	166.8	6,400	8,600		140	47.7	162.4	5,700	7,800
	140	47.7	162.4	5,700	7,800		145	45.8	157.7	5,000	7,000
	145	45.8	157.7	5,000	7,000		150	43.9	152.7	4,300	6,300
	150	43.9	152.7	4,300	6,300		155	41.9	147.3	3,700	5,600
	155	41.9	147.3	3,700	5,600		160	39.8	141.5	3,000	5,000
	160	39.8	141.5	3,000	5,000		165	37.6	135.3	2,500	4,400
	165	37.6	135.3	2,500	4,400		170	35.3	128.5	2,000	3,700
	170	35.3	128.5	2,000	3,700						

Combined From Charts:
 No. 5359 7-20-77
 No. 6274-A 1-24-78
 No. 6274-B 1-24-78
 No. 5320 7-20-77

SEE CONDITIONS ON FRONT PAGE

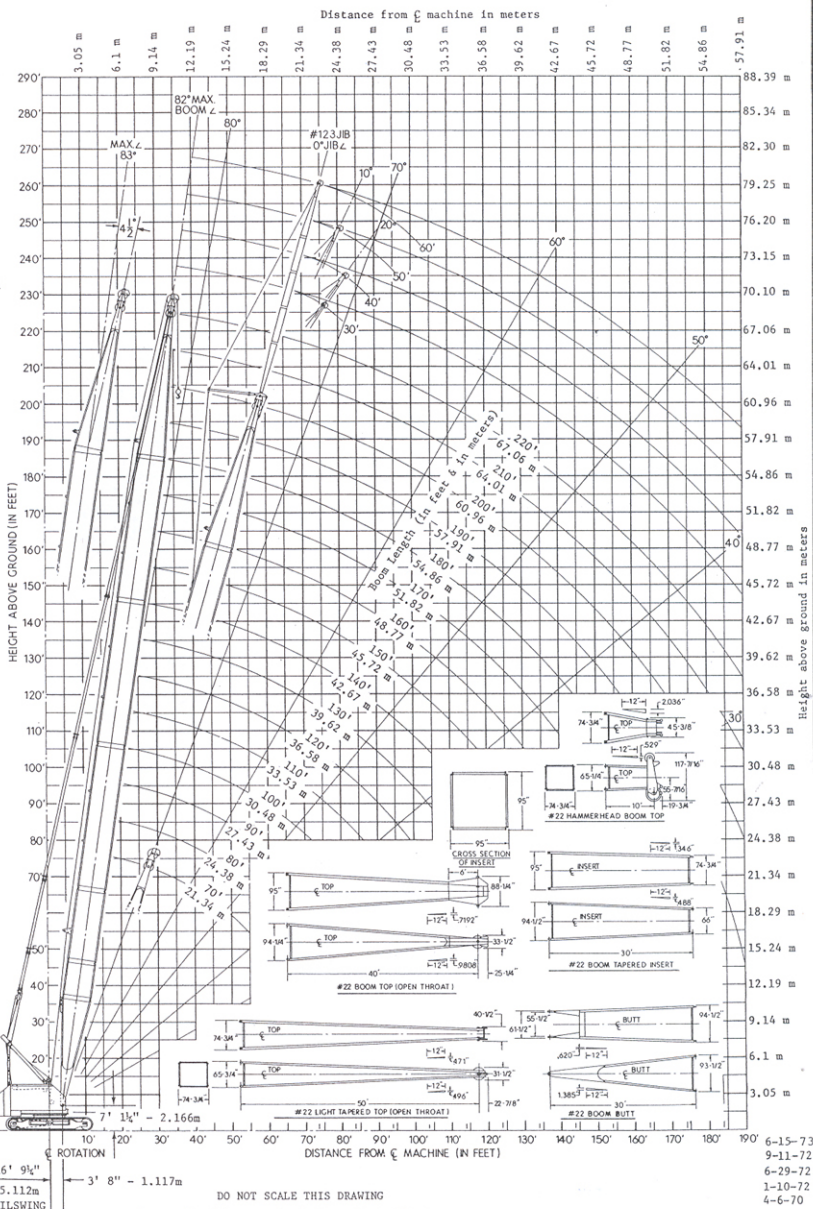
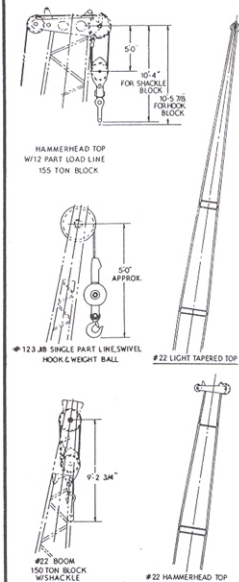


MANITOWOC ENGINEERING CO.

A Division of The Manitowoc Company, Inc.

Manitowoc, Wisconsin

MAXIMUM BOOM ANGLE
82° For No. 22 Boom w/Straight Top
83° For No. 22 Boom w/45° Offset Top
83° For No. 22 Boom w/Hammerhead Top



**MANITOWOC ENGINEERING CO.**

(A division of The Manitowoc Company, Inc.)

Manitowoc, Wisconsin 54220

**JIB LIFTING CAPACITIES**MEETS
ANSI B30.5
REQUIREMENTS**4000W****JIB NO. 123 WITH 12'6" STRUT
NO. 22 BOOM WITH OPEN THROAT TOP—INLINE OR OFFSET
24' CRAWLERS EXTENDED****20 DEGREE JIB OFFSET ANGLE**

Chart supplements boom capacity chart No. 6274-A or No. 6274-C. Capacities are for freely suspended loads based on tipping, strength of structural components or other factors. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, travel, as well as adverse operating conditions & physical machine depreciation.

Capacities do not exceed **75%** of static tipping load with machine on firm level surface. Capacities based on structural competence are denoted by shaded areas. Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block. Weight of all load blocks, hooks, weight ball, slings, etc. including those on the main boom is considered part of the jib load. Maximum capacity on 1-1/8" — 6x25 IPS, IWRC is 28,300 lbs./line.

JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS BOOM LENGTH — FEET										JIB POINT RADIUS: FEET
	110	120	130	140	150	160	170	180	190	200	
	110	120	130	140	150	160	170	180	190	200	
65*	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	65*
70	40,000	39,900	39,600	39,100	38,700	38,200	37,900	37,500	37,100	36,600	70
75	36,600	36,100	35,800	35,300	34,900	34,400	34,100	33,700	33,300	32,800	75
80	33,400	32,800	32,600	32,100	31,600	31,100	30,800	30,400	30,000	29,500	80
85	30,600	30,000	29,800	29,200	28,800	28,300	28,000	27,500	27,100	26,600	85
90	28,100	27,500	27,300	26,700	26,300	25,800	25,500	25,000	24,600	24,100	90
95	25,900	25,300	25,100	24,500	24,100	23,600	23,300	22,800	22,400	21,900	95
100	23,900	23,400	23,100	22,600	22,100	21,600	21,300	20,800	20,400	19,900	100
105		21,600	21,400	20,800	20,400	19,800	19,500	19,000	18,600	18,100	105
110			19,800	19,200	18,800	18,200	17,900	17,400	17,000	16,500	110
115			18,400	17,800	17,300	16,800	16,500	16,000	15,500	15,000	115
120				16,500	16,000	15,500	15,200	14,700	14,200	13,700	120
125					14,800	14,300	14,000	13,500	13,000	12,500	125
130						13,200	12,900	12,400	11,900	11,300	130
140							10,900	10,400	9,900	9,400	140
150									8,200	7,700	150

JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS BOOM LENGTH — FEET										JIB POINT RADIUS: FEET
	110	120	130	140	150	160	170	180	190	200	
	110	120	130	140	150	160	170	180	190	200	
80*	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	80*
85	29,500	30,000	30,000	29,900	29,500	29,000	28,700	28,200	27,800	27,400	85
90	28,400	28,100	27,900	27,400	26,900	26,400	26,100	25,700	25,300	24,800	90
95	26,400	25,900	25,600	25,100	24,700	24,200	23,900	23,500	23,000	22,500	95
100	24,500	23,900	23,700	23,100	22,700	22,200	21,900	21,400	21,000	20,500	100
105	22,700	22,100	21,900	21,400	20,900	20,400	20,100	19,700	19,200	18,700	105
110	21,100	20,500	20,300	19,800	19,300	18,800	18,500	18,000	17,600	17,100	110
115		19,100	18,800	18,300	17,900	17,300	17,000	16,600	16,100	15,600	115
120			17,500	17,000	16,500	16,000	15,700	15,200	14,800	14,300	120
125				15,800	15,300	14,800	14,500	14,000	13,500	13,000	125
130				14,700	14,200	13,700	13,300	12,900	12,400	11,900	130
135					13,200	12,600	12,300	11,800	11,400	10,900	135
140						11,700	11,400	10,900	10,400	9,900	140
150								9,200	8,700	8,200	150

JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS BOOM LENGTH — FEET										JIB POINT RADIUS: FEET
	110	120	130	140	150	160	170	180	190		
	110	120	130	140	150	160	170	180	190		
100*	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000		100*
105	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	19,900		105
110	20,000	20,000	20,000	20,000	19,900	19,400	19,100	18,700	18,300		110
115	20,000	19,600	19,400	18,900	18,400	17,900	17,600	17,200	16,800		115
120	18,800	18,300	18,000	17,500	17,100	16,600	16,300	15,800	15,400		120
125		17,100	16,800	16,300	15,900	15,300	15,000	14,600	14,200		125
130			15,700	15,200	14,700	14,200	13,900	13,400	13,000		130
135				14,100	13,700	13,200	12,900	12,400	12,000		135
140				13,200	12,700	12,200	11,900	11,400	11,000		140
145					11,800	11,300	11,000	10,500	10,100		145
150						10,400	10,100	9,700	9,200		150
160								8,200	7,700		160

JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS BOOM LENGTH — FEET										JIB POINT RADIUS: FEET
	110	120	130	140	150	160	170	180	190		
	110	120	130	140	150	160	170	180	190		
125*	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000		125*
130		10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000		130
135			10,000	10,000	10,000	10,000	10,000	10,000	10,000		135
140				10,000	10,000	10,000	10,000	10,000	10,000		140
145				10,000	10,000	10,000	10,000	10,000	10,000		145
150					10,000	10,000	10,000	10,000	9,600		150
155						10,000	9,700	9,300	8,800		155
160							9,300	8,500	8,100		160
165								8,300	7,800		165
170									7,200		170

* These capacities apply for ALL lesser radii obtainable.

Form No. 6295-C, 3-18-75/GA

**MANITOWOC ENGINEERING CO.**

(A division of The Manitowoc Company, Inc.) Manitowoc, Wisconsin 54220

**JIB LIFTING CAPACITIES**ANSI B30.5
REQUIREMENTS**4000W****JIB NO. 123 WITH 12'6" STRUT
NO. 22 BOOM WITH OPEN THROAT TOP — INLINE OR OFFSET
24' CRAWLERS EXTENDED****0 DEGREE JIB OFFSET ANGLE**

Chart supplements boom capacity chart No. 6274-A or No. 6274-C. Capacities are for freely suspended loads based on tipping, strength of structural components or other factors. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, travel, as well as adverse operating conditions & physical machine depreciation.

Capacities do not exceed **75%** of static tipping load with machine on firm level surface. Capacities based on structural competence are denoted by shaded areas. Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block. Weight of all load blocks, hooks, weight ball, slings, etc. including those on the main boom is considered part of the jib load. Maximum capacity on 1-1/8" — 6x25 IPS, IWRC is 28,300 lbs./line.

JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS BOOM LENGTH — FEET										JIB POINT RADIUS: FEET
	110	120	130	140	150	160	170	180	190	200	
	60 *	65	70	75	80	85	90	95	100	110	
30 FOOT JIB	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	60 *
	39,200	38,500	38,200	37,600	37,100	36,500	36,100	35,600	35,100	34,500	65
	35,500	34,800	34,500	33,900	33,400	32,800	32,400	31,900	31,400	30,800	70
	32,400	31,700	31,400	30,800	30,300	29,700	29,300	28,800	28,300	27,700	75
	29,700	29,000	28,700	28,100	27,500	26,900	26,600	26,000	25,500	24,900	80
	27,300	26,600	26,300	25,700	25,100	24,500	24,200	23,600	23,100	22,500	85
	25,200	24,500	24,200	23,600	23,000	22,400	22,100	21,500	21,000	20,400	90
	23,300	22,600	22,300	21,700	21,200	20,500	20,200	19,600	19,100	18,500	95
	20,100	19,400	19,100	18,500	17,900	17,300	17,000	16,400	15,900	15,300	100
	17,500	16,800	16,500	15,900	15,300	14,700	14,300	13,800	13,300	12,700	110
30 FOOT JIB	14,600	14,000	13,700	13,100	12,500	12,100	11,600	11,100	10,400	10,000	120
			12,400	11,800	11,300	10,600	10,300	9,700	9,200	8,600	130
				10,200	9,700	9,000	8,700	8,100	7,600	7,000	140
					8,300	7,600	7,300	6,700	6,200	5,600	150
						6,400	6,100	5,500	5,000	4,400	160

JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS BOOM LENGTH — FEET										JIB POINT RADIUS: FEET
	110	120	130	140	150	160	170	180	190	200	
	75 *	80	85	90	95	100	110	120	130	140	
40 FOOT JIB	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	75 *
	29,000	29,000	29,000	28,300	27,800	27,200	26,800	26,300	25,800	25,200	80
	27,600	26,900	26,600	25,900	25,400	24,800	24,400	23,900	23,400	22,800	85
	25,400	24,800	24,500	23,800	23,300	22,700	22,300	21,800	21,300	20,700	90
	23,600	23,000	22,600	22,000	21,400	20,900	20,400	19,900	19,400	18,800	95
	20,400	19,700	19,400	18,700	18,200	17,600	17,200	16,700	16,200	15,600	100
	17,700	17,100	16,700	16,100	15,600	15,000	14,600	14,000	13,500	12,900	110
	15,600	14,900	14,600	13,900	13,400	12,800	12,400	11,800	11,300	10,700	120
		13,000	12,700	12,100	11,500	10,900	10,500	10,000	9,400	8,800	130
			11,100	10,500	9,900	9,300	8,900	8,400	7,800	7,200	140
40 FOOT JIB				9,100	8,500	7,900	7,500	7,000	6,400	5,800	150
					7,300	6,700	6,300	5,700	5,200	4,600	160
							5,200	4,700	4,100		170

JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS BOOM LENGTH — FEET										JIB POINT RADIUS: FEET
	110	120	130	140	150	160	170	180	190		
	95 *	100	105	110	120	130	140	150	160	170	
50 FOOT JIB	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	95 *
	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	19,700	19,000	100
	20,000	20,000	20,000	20,000	20,000	19,500	19,100	18,500	18,000	17,000	105
	20,000	20,000	19,700	19,100	18,500	17,900	17,500	17,000	16,500		110
	18,000	17,400	17,000	16,400	15,900	15,300	14,900	14,400	13,800		120
	15,800	15,200	14,800	14,200	13,700	13,100	12,700	12,100	11,600		130
	14,000	13,300	12,900	12,300	11,800	11,200	10,800	10,300	9,700		140
		11,700	11,400	10,700	10,200	9,600	9,200	8,700	8,100		150
			10,000	9,300	8,800	8,200	7,800	7,300	6,700		160
				8,100	7,600	7,000	6,600	6,000	5,500		170
50 FOOT JIB					6,500	5,900	5,500	4,900	4,400		180
							4,600	4,000			190

JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS BOOM LENGTH — FEET										JIB POINT RADIUS: FEET
	110	120	130	140	150	160	170	180	190		
	135 *	140	145	150	155	160	165	170	175	180	
60 FOOT JIB	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	135 *
	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	9,900	9,800	140
	10,000	10,000	10,000	10,000	10,000	10,000	10,000	9,900	9,800	9,700	145
	10,000	10,000	10,000	10,000	10,000	9,800	9,400	8,800	8,300		150
		10,000	10,000	10,000	9,700	9,000	8,400	7,800	7,200		155
		10,000	10,000	9,500	9,000	8,400	7,800	7,200	6,600		160
			9,500	8,900	8,400	7,700	7,000	6,400	5,800		165
				8,300	7,800	7,100	6,400	5,800	5,200		170
					7,200	6,700	6,100	5,500	4,900		180
							5,100	4,700	4,200		190

* These capacities apply for ALL lesser radii obtainable.

Form No. 6295-A, 3-18-75/GA

**MANITOWOC ENGINEERING CO.**

(A division of The Manitowoc Company, Inc.) Manitowoc, Wisconsin 54220

**JIB LIFTING CAPACITIES**MEETS
ANSI B30.5
REQUIREMENTS**4000W****JIB NO. 123 WITH 12'6" STRUT
NO. 22 BOOM WITH OPEN THROAT TOP — INLINE OR OFFSET
24' CRAWLERS EXTENDED****10 DEGREE JIB OFFSET ANGLE**

Chart supplements boom capacity chart No. 6274-A or No. 6274-C. Capacities are for freely suspended loads based on tipping, strength of structural components or other factors. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, travel, as well as adverse operating conditions & physical machine depreciation.

Capacities do not exceed **75°** of static tipping load with machine on firm level surface. Capacities based on structural competence are denoted by shaded areas. Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block. Weight of all load blocks, hooks, weight ball, slings, etc. including those on the main boom is considered part of the jib load. Maximum capacity on 1-1/8" — 6x25 IPS, IWRC is 28,300 lbs./line.

30 FOOT JIB	JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS										JIB POINT RADIUS: FEET
		BOOM LENGTH — FEET										
		110	120	130	140	150	160	170	180	190	200	
75 *	65 *	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	65 *
	70	39,800	39,200	38,900	38,400	37,900	37,400	37,000	36,600	36,100	35,600	70
	75	36,100	35,500	35,200	34,700	34,200	33,600	33,300	32,800	32,400	31,800	75
	80	32,900	32,300	32,000	31,500	31,000	30,400	30,100	29,600	29,100	28,600	80
85	85	30,100	29,500	29,200	28,700	28,200	27,600	27,300	26,800	26,300	25,800	85
	90	27,700	27,100	26,800	26,200	25,700	25,200	24,800	24,400	23,900	23,300	90
	95	25,600	24,900	24,700	24,100	23,600	23,000	22,700	22,200	21,700	21,200	95
	100	23,600	23,000	22,700	22,200	21,700	21,100	20,800	20,200	19,800	19,200	100
105	105	21,900	21,300	21,000	20,400	19,900	19,400	19,000	18,500	18,000	17,500	105
	110	20,400	19,800	19,500	18,900	18,400	17,800	17,500	17,000	16,500	15,900	110
	120		17,100	16,800	16,200	15,700	15,100	14,800	14,300	13,800	13,200	120
	130			14,500	13,900	13,400	12,800	12,500	12,000	11,500	10,900	130
140	140					11,500	10,900	10,600	10,100	9,600	9,000	140
	150						9,300	9,000	8,400	7,900	7,300	150
	160							7,500	7,000	6,500	5,900	160
	170								5,700	5,200	4,700	170

40 FOOT JIB	JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS										JIB POINT RADIUS FEET
		BOOM LENGTH — FEET										
		110	120	130	140	150	160	170	180	190	200	
75 *	75 *	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	75 *
	80	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	29,700	29,200	80
	85	30,000	30,000	29,700	29,100	28,700	28,100	27,600	27,000	26,800	26,300	85
	90	28,100	27,500	27,200	26,700	26,200	25,700	25,300	24,800	24,400	23,800	90
95	95	26,000	25,400	25,100	24,500	24,000	23,500	23,100	22,600	22,200	21,600	95
	100	24,000	23,400	23,100	22,500	22,100	21,500	21,200	20,700	20,200	19,700	100
	105	22,300	21,700	21,400	20,800	20,400	19,800	19,500	19,000	18,500	17,900	105
	110	20,800	20,100	19,900	19,300	18,800	18,200	17,900	17,400	16,900	16,400	110
120	120	18,100	17,400	17,200	16,600	16,100	15,500	15,200	14,700	14,200	13,600	120
	130		15,200	14,900	14,300	13,800	13,200	12,900	12,400	11,900	11,300	130
	140			13,000	12,400	11,900	11,300	11,000	10,400	10,000	9,400	140
	150				10,200	9,600	9,300	8,800	8,300	7,900	7,300	150
160	160						8,200	7,900	7,300	6,800	6,300	160
	170							6,600	6,100	5,600	5,000	170

50 FOOT JIB	JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS									JIB POINT RADIUS: FEET
		BOOM LENGTH — FEET									
		110	120	130	140	150	160	170	180	190	
100 *	100 *	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	100 *
	105	20,000	20,000	20,000	20,000	20,000	20,000	19,900	19,500	19,000	105
	110	20,000	20,000	20,000	19,700	19,300	18,700	18,400	17,900	17,400	110
	115	19,700	19,200	18,900	18,300	17,800	17,300	16,900	16,400	16,000	115
120	120	18,400	17,900	17,600	17,000	16,500	16,000	15,600	15,100	14,600	120
	125	17,300	16,700	16,400	15,800	15,300	14,800	14,400	13,900	13,400	125
	130	16,200	15,600	15,300	14,700	14,200	13,700	13,300	12,800	12,300	130
	140		13,600	13,300	12,800	12,300	11,700	11,400	10,900	10,400	140
150	150			11,700	11,100	10,600	10,000	9,700	9,200	8,700	150
	160					9,200	8,600	8,200	7,700	7,200	160
	170						7,300	7,000	6,500	6,000	170
	180							5,800	5,300	4,800	180

60 FOOT JIB	JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS									JIB POINT RADIUS: FEET
		BOOM LENGTH — FEET									
	110	120	130	140	150	160	170	180	190		
	140 *	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	140 *
	145		10,000	10,000	10,000	10,000	10,000	10,000	9,800		145
	150		10,000	10,000	10,000	10,000	10,000	9,500	9,000		150
	155			10,000	10,000	10,000	9,600	9,200	8,700	8,200	155
	160				9,900	9,400	8,900	8,500	8,000	7,500	160
	165				9,200	8,800	8,200	7,900	7,300	6,900	165
	170					8,100	7,600	7,200	6,700	6,200	170
175						7,000	6,600	6,100	5,600	175	
180							6,400	6,100	5,600	180	
190								4,600	4,100	190	

* These capacities apply for ALL lesser radii obtainable.