

**MANITOWOC ENGINEERING CO.**

(A division of The Manitowoc Company, Inc.)

Manitowoc, Wisconsin 54220

Manitowoc**LIFTCRANE CAPACITIES**MEETS
ANSI B30.5
REQUIREMENTS**4100W
SERIES 2
CRAWLER****BOOM NO. 22C WITH OPEN THROAT TOP
146,400 LB. CRANE COUNTERWEIGHT
60,000 LB. CARBODY COUNTERWEIGHT
26'6" CRAWLERS EXTENDED****WARNING:** This chart will apply only when two 12,000 lb. side ctwts. and two 30,000 lb. carbody ctwts. bear MEC registered Serial Numbers.**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 a static tipping load. 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. To comply with B30.5 requirements, upper boom point cannot be used on the 260 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 a level position on a firm surface with crawlers fully extended and gantry in working position and be rigged in accordance with and under conditions referred to in rigging drawing No. 190693 and load line specification chart No. 6592-A.

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 26'6" extendible crawlers, 48" treads, 17' retractable gantry, 12 part boom hoist reeving, four 1 3/8" boom pendants, 1st ctwt. 41,900 lbs., 2nd ctwt. 41,500 lbs., 3rd ctwt. 39,000 lbs., two 12,000 lbs. side ctwt's. and two 30,000 lbs. carbody ctwt's.**HOIST REEVEING FOR MAIN LOAD BLOCK**

No. Parts of Line	1	2	3	4	5	6
Max. Load — Lbs.	32,500	65,000	97,500	130,000	162,500	195,000
No. Parts of Line	7	8	9	10	11	12
Max. Load — Lbs.	227,500	260,000	292,500	325,000	357,500	400,000
No. Parts of Line	13	14				
Max. Load — Lbs.	430,000	460,000				

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. (Approx. Weight Per Ft. in Lbs. 2.34)

WHIP LINE: 1-1/8" — 6x31 Warrington-Seale, Improved Plow Steel, Regular Lay, IWRC. Minimum Breaking Strength 56.5 Ton. Maximum Load — 28,300 Lbs. Per Line. (Approx. Weight Per Ft. in Lbs. 2.34)

**MAXIMUM BOOM AND JIB LENGTHS
LIFTED UNASSISTED**

OVER FRONT OF BLOCKED CRAWLERS				(A) DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED	
OVER SIDE OF EXTENDED CRAWLERS					
Boom Lgth.	Jib No. 123	Boom Lgth.	Jib No. 123	Jib Lgth.	Jib No. 123
260'	—	260'	—	30'	3,000 Lb.
250'	—	250'	—	40'	3,600 Lb.
240'	40'	240'	40'	50'	4,200 Lb.
230'	60'	230'	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	Boom Ang.: Deg.	Boom Point: Elev.	Capacity: Crawlers Extended	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Ang.: Deg.	Boom Point: Elev.	Capacity: Crawlers Extended	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Ang.: Deg.	Boom Point: Elev.	Capacity: Crawlers Extended	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Ang.: Deg.	Boom Point: Elev.	Capacity: Crawlers Extended
16.5	79.7	75.9	460,000	17	80.6	85.9	392,800	18	81.1	95.9	355,400	19	81.4	105.9	332,900	20	81.8	115.9	310,400
17	79.3	75.8	400,000	18	79.9	85.8	378,900	19	80.4	95.7	346,900	20	80.8	105.7	327,100	21	81.2	115.7	302,600
18	78.5	75.6	380,100	19	79.2	85.6	361,900	20	79.8	95.6	336,900	21	79.6	105.4	316,200	22	79.6	115.4	290,800
19	77.6	75.4	363,000	20	78.5	85.4	346,100	21	78.5	95.2	317,400	22	78.5	105.0	290,800	23	78.5	115.0	263,900
20	76.8	75.1	347,300	22	77.0	84.9	318,400	24	77.2	94.7	291,700	26	77.3	104.5	263,900				
22	75.1	74.6	319,600	24	75.5	84.5	292,500	26	75.9	94.3	264,800	28	76.1	104.1	236,200				
24	73.4	74.1	293,400	26	74.0	83.9	265,600	28	74.5	93.7	236,600	30	74.9	103.6	212,900				
26	71.7	73.5	266,100	28	72.5	83.3	237,000	30	73.2	93.2	213,400	32	73.7	103.0	193,700				
28	69.9	72.8	237,500	30	71.0	82.7	213,800	32	71.9	92.5	194,200	34	72.5	102.4	177,500				
30	68.2	72.0	214,300	32	69.5	81.9	194,600	34	70.5	91.9	178,000	36	71.3	101.7	163,700				
32	66.4	71.2	195,100	34	68.0	81.2	178,500	36	69.2	91.1	164,200	38	70.1	101.0	151,800				
34	64.6	70.2	178,900	36	66.4	80.3	164,700	38	67.8	90.3	152,300	40	68.9	100.3	141,400				
36	62.8	69.3	165,200	38	64.8	79.4	152,800	40	66.4	89.5	142,000	45	65.8	98.2	120,500				
38	60.9	68.2	153,300	40	63.3	78.4	142,400	45	62.9	87.1	121,100	50	62.6	95.8	104,700				
40	59.1	67.0	143,000	45	59.2	75.7	121,500	50	59.3	84.4	105,200	55	59.3	93.0	92,300				
45	54.1	63.7	122,100	50	54.9	72.5	105,700	55	55.5	81.2	92,800	60	55.9	89.8	82,300				
50	48.9	59.8	106,300	55	50.4	68.6	93,300	60	51.5	77.5	82,900	65	52.4	86.2	74,100				
55	43.2	54.9	93,900	60	45.6	64.1	83,400	65	47.3	73.2	74,700	70	48.7	82.1	67,200				
60	36.9	49.0	84,000	65	40.3	58.8	75,200	70	42.8	68.2	67,800	75	44.8	77.4	61,400				
65	29.4	41.3	75,800	70	34.4	52.2	68,300	75	37.9	62.3	62,000	80	40.5	72.0	56,400				
70	19.5	30.3	63,900	75	27.4	43.9	62,500	80	32.4	55.2	57,000	85	35.9	65.6	52,000				
				80	18.2	32.0	53,900	85	25.8	46.2	52,600	90	30.7	58.0	48,200				
								90	17.1	33.5	45,900	95	24.5	48.5	44,900				
												100	16.3	35.0	35,300				

**CAUTION! CHECK AMOUNT OF COUNTERWEIGHT
ON MACHINE BEFORE USE OF THIS CHART.**Capacities continued
on reverse side.

Form No. 6934-A, 7-27-78/GA



SEE CONDITIONS ON REVERSE SIDE

Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Ang.: Deg.	Boom Point: Elev.	Capacity: Crawlers Extended	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Ang.: Deg.	Boom Point: Elev.	Capacity: Crawlers Extended	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Ang.: Deg.	Boom Point: Elev.	Capacity: Crawlers Extended	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Ang.: Deg.	Boom Point: Elev.	Capacity: Crawlers Extended
110	22	80.6	115.5	291,600	140	105	43.8	103.9	37,200	180	32	81.1	184.8	180,000	210	175	31.2	110.7	13,300
	24	79.5	115.2	282,900		110	40.8	98.5	34,700		34	80.4	184.5	174,100		180	28.4	102.0	12,400
	26	78.5	114.8	263,200		115	37.5	92.3	32,500		36	79.8	184.1	160,300		185	25.2	92.1	11,700
	28	77.4	114.3	235,800		120	34.0	85.4	30,500		38	79.1	183.8	148,300		190	21.6	80.5	10,900
	30	76.3	113.9	212,500		125	30.2	77.4	28,700		40	78.5	183.4	137,900		195	17.3	66.3	8,500
	32	75.3	113.4	193,300		130	25.8	68.0	27,000		45	76.8	182.3	116,900		36	81.2	214.5	146,000
	34	74.2	112.8	177,100		135	20.7	56.4	25,500		50	75.2	181.0	101,000		38	80.7	214.2	143,300
	36	73.1	112.2	163,300		28	80.8	155.1	218,600		55	73.5	179.6	88,500		40	80.1	213.9	136,600
	38	72.0	111.6	151,400		30	80.0	154.7	210,300		60	71.9	178.1	78,500		45	78.7	213.0	115,500
	40	70.9	110.9	141,000		32	79.2	154.4	191,600		65	70.2	176.3	70,300		50	77.3	211.9	99,600
115	45	68.1	109.1	120,100	150	34	78.5	154.0	175,400	190	70	68.5	174.5	63,400	215	55	75.9	210.7	87,100
	50	65.3	106.9	104,200		36	77.7	153.5	161,600		75	66.8	172.4	57,500		60	74.5	209.4	77,100
	55	62.4	104.5	91,800		38	76.9	153.1	149,600		80	65.0	170.2	52,500		65	73.1	207.9	68,800
	60	59.4	101.7	81,800		40	76.1	152.6	139,200		85	63.3	167.7	48,100		70	71.7	206.4	61,900
	65	56.3	98.5	73,600		45	74.1	151.3	118,200		90	61.5	165.1	44,300		75	70.2	204.6	56,100
	70	53.1	95.0	66,800		50	72.1	149.8	102,400		95	59.6	162.3	40,900		80	68.8	202.8	51,000
	75	49.8	91.0	60,900		55	70.1	148.1	89,900		100	57.8	159.3	37,900		85	67.3	200.7	46,700
	80	46.3	86.5	55,900		60	68.1	146.2	79,900		105	55.9	156.0	35,200		90	65.8	198.6	42,800
	85	42.6	81.4	51,600		65	66.0	144.0	71,700		110	53.9	152.5	32,700		95	64.3	196.3	39,400
	90	38.6	75.6	47,800		70	63.9	141.7	64,800		115	51.9	148.7	30,500		100	62.8	193.8	36,400
120	95	34.2	68.8	44,400	155	75	61.7	139.1	59,000	200	120	49.9	144.6	28,500	220	105	61.3	191.1	33,700
	100	29.2	60.7	41,400		80	59.6	136.3	53,900		125	47.8	140.3	26,700		110	59.7	188.3	31,300
	105	23.3	50.6	38,700		85	57.3	133.2	49,600		130	45.6	135.5	25,000		115	58.1	185.3	29,100
	110	15.5	36.4	33,900		90	55.0	129.9	45,700		135	43.3	130.4	23,500		120	56.5	182.1	27,100
	22	81.4	125.6	285,000		95	52.7	126.2	42,400		140	40.9	124.9	22,000		125	54.8	178.6	25,200
	24	80.4	125.3	271,700		100	50.2	122.3	39,400		145	38.4	118.9	20,700		130	53.1	175.0	23,500
	26	79.4	125.0	259,800		105	47.7	117.9	36,700		150	35.8	112.3	19,500		135	51.4	171.1	22,000
	28	78.5	124.6	235,300		110	45.0	113.1	34,200		155	33.0	105.0	18,300		140	49.6	167.0	20,600
	30	77.5	124.1	212,100		115	42.3	107.9	32,000		160	29.9	96.8	17,200		145	47.8	162.6	19,200
	32	76.5	123.7	192,800		120	39.3	102.1	30,000		165	26.6	87.5	16,200		150	46.0	157.9	18,000
125	34	75.5	123.2	176,600	160	125	36.2	95.7	28,200	205	170	22.7	76.6	15,300	225	155	44.0	152.9	16,800
	36	74.5	122.7	162,800		130	32.9	88.4	26,500		175	18.2	63.2	13,500		160	42.0	147.6	15,800
	38	73.5	122.1	150,900		135	29.2	80.1	25,000		32	81.5	194.9	171,000		165	39.9	141.8	14,800
	40	72.5	121.5	140,500		140	25.0	70.3	23,500		34	80.9	194.6	166,100		170	37.8	135.6	13,800
	45	70.0	119.8	119,500		145	19.9	58.2	22,200		36	80.3	194.3	159,800		175	35.5	128.9	12,900
	50	67.5	117.8	103,700		28	81.4	165.2	208,500		38	79.7	193.9	147,900		180	33.1	121.6	12,100
	55	64.8	115.6	91,300		30	80.6	164.9	203,500		40	79.1	193.6	137,400		185	30.5	113.5	11,300
	60	62.2	113.1	81,300		32	79.9	164.5	191,100		45	77.5	192.5	116,400		190	27.7	104.5	10,600
	65	59.4	110.3	73,100		34	79.2	164.2	174,900		50	76.0	191.3	100,500		195	24.6	94.3	9,900
	70	56.6	107.2	66,200		36	78.5	163.8	161,000		55	74.4	190.0	88,000		200	21.0	82.4	8,800
130	75	53.7	103.7	60,400	165	38	77.7	163.3	149,100	210	60	72.9	188.6	78,000	230	205	16.8	67.8	6,500
	80	50.7	99.9	55,300		40	77.0	162.9	138,700		65	71.3	186.9	69,700		38	81.1	224.4	135,900
	85	47.5	95.5	51,000		45	75.2	161.7	117,700		70	69.7	185.2	62,800		40	80.6	224.0	133,400
	90	44.2	90.7	47,200		50	73.3	160.2	101,800		75	68.1	183.2	57,000		45	79.3	223.1	115,000
	95	40.7	85.2	43,800		55	71.4	158.7	89,300		80	66.4	181.1	52,000		50	77.9	222.1	99,100
	100	36.9	79.0	40,800		60	69.5	156.9	79,300		85	64.8	178.9	47,600		55	76.6	221.0	86,600
	105	32.7	71.8	38,100		65	67.6	154.9	71,100		90	63.1	176.4	43,800		60	75.3	219.8	76,600
	110	28.0	63.2	35,700		70	65.6	152.8	64,200		95	61.4	173.8	40,400		65	73.9	218.4	68,300
	115	22.3	52.6	33,500		75	63.7	150.4	58,400		100	59.7	171.0	37,400		70	72.5	216.9	61,400
	24	81.2	135.5	260,000		80	61.6	147.8	53,300		105	57.9	167.9	34,700		75	71.2	215.2	55,500
140	26	80.3	135.1	248,600	170	85	59.6	145.0	49,000	215	110	56.1	164.7	32,200	235	80	69.8	213.5	50,500
	28	79.4	134.8	234,700		90	57.5	141.9	45,100		115	54.3	161.2	30,000		85	68.4	211.5	46,100
	30	78.5	134.4	211,800		95	55.3	138.6	41,800		120	52.4	157.5	28,000		90	67.0	209.5	42,300
	32	77.6	133.9	192,500		100	53.1	135.0	38,700		125	50.4	153.5	26,200		95	65.6	207.3	38,900
	34	76.7	133.5	176,300		105	50.9	131.1	36,000		130	48.5	149.2	24,500		100	64.1	204.9	35,800
	36	75.7	133.0	162,500		110	48.5	126.8	33,600		135	46.4	144.6	22,900		105	62.7	202.4	33,100
	38	74.8	132.5	150,600		115	46.1	122.2	31,400		140	44.3	139.7	21,500		110	61.2	199.8	30,700
	40	73.9	131.9	140,200		120	43.5	117.2	29,400		145	42.1	134.4	20,200		115	59.7	196.9	28,500
	45	71.6	130.4	119,300		125	40.9	111.7	27,600		150	39.8	128.6	18,900		120	58.2	193.9	26,500
	50	69.3	128.6	103,400		130	38.0	105.6	25,900		155	37.4	122.3	17,800		125	56.6	190.7	24,600
145	55	66.9	126.6	91,000	175	135	35.0	98.9	24,300	220	160	34.8	115.5	16,700	240	130	55.1	187.3	23,000
	60	64.5	124.3	81,000		140	31.8	91.3	22,900		165	32.1	107.9	15,700		135	53.5	183.7	21,400
	65	62.0	121.8	72,800		145	28.2	82.6	21,600		170	29.1	99.4	14,800		140	51.8	179.9	20,000
150	70	59.5	119.0	65,900	180	150	24.1	72.5	20,400	225	175	25.8	89.8	14,900	245	145	50.1	175.9	18,600
	75	56.8	117.2	58,800		155	19.3	59.9	19,200		180	22.1	78.6	13,100		150	48.4	171.6	17,400
	80	54.2	115.5	52,000		30	81.2	175.0	192,600		185	17.7	64.8	11,000		155	46.7	167.0	16,300
	85	51.5	108.7	45,000		32	80.5	174.7	188,400		34	81.4	204.7	157,200		160	44.8	162.1	15,200
	90	48.6	104.5	38,000		34	79.8	174.3	174,600		36	80.8	204.4	153,500		165	43.0	156.9	14,200
	95	45.6	99.8	31,000		36	79.2	174.0	160,800		38	80.2	204.1	147,400		170	41.0	151.4	13,200
	100	42.4	94.7	24,000		38	78.5	173.6	148,800		40	79.6	203.7	136,900		175	39.0	145.4	12,300
	105	39.0	88.8	18,000		40	78.5	173.6	148,800		45	78.2	202.8	115,900		180	36.9	139.0	11,500
	110	35.4	82.3	13,000		45	76.0	172.0	117,400		50	76.7	201.6	100,000		185	34.6	132.1	