



# LOAD CHARTS

for Use With

## WRITTEN EXAMINATIONS



# Manitowoc 4100W

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**Make sure that you are fully trained on, and review the entire manual for, every crane you operate.**

*This load chart has been adapted from the original manufacturer's load chart for use in the NCCER Mobile Crane Certification Examination. It is not to be used for calculating loads, planning lifts, or for any other purpose.*



DESCRIPTION	APPROX. WEIGHT (IN LBS.)
<b>JIB NO. 123</b>	
Jib Top - 15' (w/Jib point).....	695
Jib Butt - 15'.....	690
Jib Insert - 10'.....	340
Basic Pendant - 33' 3-3/4" (2 Req'd).....	115 each
Pendant - 10' (2 Per insert).....	65 each
Jib Backstay Pendant.....	155 each
Jib Stut - 12' - 6".....	365

**COMPONENTS**

Hook Rollers (6) - w/shafts.....	1,020
Light Plant - 6.5KW - w/mounting platform.....	1,390
Catwalk - left and right side w/rails.....	1,320
Lagging - 27-5/8" dia. plain.....	1,410
Boom Hoist Rope - 12 Part - 760' of 7/8" - 6 x 26.....	1,080
Wire Rope Guide Assembly - Lower.....	325
Wire Rope Guide Assembly - Upper.....	510
Rope Guide Roller Assembly.....	55 each
2-Part Gantry w/Telescopic Backhitch.....	7,805
Equalizer.....	2,000
Hoist Line - 1-1/8" - 6 x 31.....	2.34 lbs./ft.
Whip Line - 1-1/8" - 6 x 31.....	2.34 lbs./ft.
15 Ton Hook and Weight Ball.....	865
100 Ton Hook Block Assembly.....	2,065
200 Ton Hook Block Assembly.....	4,900
230 Ton Hook Block Assembly.....	5,375
Boom Stop - Telescopic Air Cushioned.....	675
Dragline Fairlead - Revolving.....	1,910
Dragline Fairlead - Hinged.....	9,330

**NOTE:** The above weights may fluctuate up or down 5% due to manufacturing tolerances.

# LIFT CRANE CAPACITIES

MEETS ANSI B30.5 REQUIREMENTS

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

**OPERATOR RADIUS:** Operating 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.

LOAD AND WHIP LINE SPECIFICATIONS	
LOAD LINE: 1-1/8" - 6 x 31 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" - 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)	

HOIST REEVING 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					
Max. Load - Lbs.	430,000					

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED				DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED	
OVERFRONT OF BLOCKED CRAWLERS		OVERSIDE OF EXTENDED CRAWLERS		JIB LENGTH	JIB NO. 123
BOOM LENGTH	JIB NO. 123	BOOM LENGTH	JIB NO. 123	JIB LENGTH	JIB NO. 123
260'	--	260'	--	30'	3,000 lbs.
250'	--	250'	--	40'	3,600 lbs.
240'	40'	240'	40'	50'	4,200 lbs.
230'	60'	230'	60'	60'	4,900 lbs.

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
16.5	79.7	75.9	460,000	
17	79.3	75.8	400,000	
18	78.5	75.6	380,100	
19	77.6	75.4	363,000	
20	76.8	75.1	347,300	
<b>70</b>				
22	75.1	74.6	319,600	
24	73.4	74.1	293,400	
26	71.7	73.5	266,100	
28	69.9	72.8	237,500	
30	68.2	72.0	214,300	
<b>30</b>				
32	66.4	71.2	195,100	
34	64.6	70.2	178,900	
36	62.8	69.3	165,200	
38	60.9	68.2	153,300	
40	59.1	67.0	143,000	
<b>40</b>				
45	54.1	63.7	122,100	
50	48.9	59.8	106,300	
55	43.2	54.9	93,900	
60	36.9	49.0	84,000	
65	29.4	41.3	75,800	
70	19.5	30.3	63,900	

BOOM LGTH FEET	OPER. RAD. FEET	BOOM ANG DEG.	BOOM POINT ELEV.	CAPACITY: CRAWLERS EXTENDED
17	80.6	85.9	392,800	
18	79.9	85.8	378,900	
19	79.2	85.6	361,800	
20	78.5	85.4	346,100	
22	77.0	84.9	318,400	
<b>80</b>				
24	75.5	84.5	292,500	
26	74.0	83.9	265,600	
28	72.5	83.3	237,000	
30	71.0	82.7	213,800	
32	69.5	81.9	194,600	
<b>30</b>				
34	68.0	81.2	178,500	
36	66.4	80.3	164,700	
38	64.8	79.4	152,800	
40	63.3	78.4	142,400	
45	59.2	75.7	121,500	
<b>40</b>				
50	54.9	72.5	105,700	
55	50.4	68.6	93,300	
60	45.6	64.1	83,400	
65	40.3	58.8	75,200	
70	34.4	52.2	68,300	
<b>70</b>				
75	27.4	43.9	52,500	
80	18.2	32.0	53,900	

BOOM LGTH FEET	OPER. RAD. FEET	BOOM ANG DEG.	BOOM POINT ELEV.	CAPACITY: CRAWLERS EXTENDED
18	81.1	95.9	355,400	
19	80.4	95.7	346,900	
20	79.8	95.6	336,900	
22	78.5	95.2	317,400	
24	77.2	94.7	291,700	
<b>90</b>				
26	75.9	94.3	264,800	
28	74.5	93.7	236,600	
30	73.2	93.2	213,400	
32	71.9	92.5	194,200	
34	70.5	91.9	178,000	
<b>30</b>				
36	69.2	91.1	164,200	
38	67.8	90.3	152,300	
40	66.4	89.5	142,000	
45	62.9	87.1	121,100	
50	59.3	84.4	105,200	
<b>40</b>				
55	55.5	81.2	92,800	
60	51.5	77.5	82,900	
65	47.3	73.2	74,700	
70	42.8	68.2	67,800	
75	37.9	62.3	62,000	
<b>70</b>				
80	32.4	55.2	57,000	
85	25.8	46.2	52,600	
90	17.1	33.5	45,900	

BOOM LGTH FEET	OPER. RAD. FEET	BOOM ANG DEG.	BOOM POINT ELEV.	CAPACITY: CRAWLERS EXTENDED
19	81.4	105.9	332,900	
20	80.8	105.7	327,100	
22	79.6	105.4	316,200	
24	78.5	105.0	290,800	
26	77.3	104.5	263,900	
<b>100</b>				
28	76.1	104.1	236,200	
30	74.9	103.6	212,900	
32	73.7	103.0	193,700	
34	72.5	102.4	177,500	
36	71.3	101.7	163,700	
<b>30</b>				
38	70.1	101.0	151,800	
40	68.9	100.3	141,400	
45	65.8	98.2	120,500	
50	62.6	95.8	104,700	
55	59.3	93.0	92,300	
<b>40</b>				
60	55.9	89.8	82,300	
65	52.4	86.2	74,100	
70	48.7	82.1	67,200	
75	44.8	77.4	61,400	
80	40.5	72.0	56,400	
<b>70</b>				
85	35.9	65.6	52,000	
90	30.7	58.0	48,200	
95	24.5	48.5	44,900	
100	16.3	35.0	39,300	

**CAUTION! CHECK AMOUNT OF COUNTERWEIGHT ON MACHINE BEFORE USE OF THIS CHART.**  
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# SEE CONDITIONS ON REVERSE SIDE

BOOM LGTH FEET	OPER. RAD. FEET	BOOM ANG DEG.	BOOM POINT ELEV.	CAPACITY: CRAWLERS EXTENDED
22	80.6	115.5	291,600	
24	79.5	115.2	282,900	
26	78.3	114.8	263,200	
28	77.4	114.3	235,800	
30	76.3	113.9	212,500	
<b>1</b>				
32	75.3	113.4	193,300	
34	74.2	112.8	177,100	
36	73.1	112.2	163,300	
38	72.0	111.6	151,400	
40	70.9	110.9	141,000	
<b>1</b>				
45	68.1	109.1	120,100	
50	65.3	106.9	104,200	
55	62.4	104.5	91,800	
60	59.4	101.7	81,800	
65	56.3	98.58	73,600	
70	53.1	95.0	66,800	
75	49.8	91.0	60,900	
80	46.3	86.5	55,900	
85	42.6	81.4	51,600	
90	38.6	75.6	47,800	
95	34.2	68.8	44,400	
100	29.2	60.7	41,400	
105	23.3	50.6	38,700	
110	15.5	36.4	33,900	
<b>1</b>				
22	81.4	125.6	285,000	
24	80.4	125.3	271,700	
26	79.4	125.0	259,800	
28	78.5	124.6	235,300	
30	77.5	124.1	212,100	
<b>1</b>				
32	76.5	123.7	192,800	
34	75.5	123.2	176,600	
36	74.5	122.7	162,900	
38	73.5	122.1	150,900	
40	72.5	121.5	140,500	
<b>1</b>				
45	70.0	119.8	119,500	
50	67.5	117.8	103,700	
55	64.8	115.6	91,300	
60	62.2	113.1	81,300	
65	59.4	110.3	73,100	
70	56.6	107.2	66,200	
75	53.7	103.7	60,400	
80	50.7	99.9	55,300	
85	47.5	95.5	51,000	
90	44.2	90.7	47,200	
95	40.7	85.2	43,800	
100	36.9	79.0	40,800	
105	32.7	71.8	38,100	
110	28.0	63.2	35,700	
115	22.3	52.6	33,500	
<b>1</b>				
24	81.2	135.5	260,000	
26	80.3	135.1	248,600	
28	79.4	134.8	234,700	
30	78.5	134.4	211,800	
32	77.6	133.9	192,500	
<b>1</b>				
34	76.7	133.5	176,300	
36	75.7	133.0	162,500	
38	74.8	132.5	150,600	
40	73.9	131.9	140,200	
45	71.6	130.4	119,300	
<b>1</b>				
50	69.3	128.6	103,400	
55	66.9	126.6	91,000	
60	64.5	124.3	81,000	
65	62.0	121.8	72,800	
70	59.5	119.0	65,900	
<b>1</b>				
75	56.9	115.9	60,000	
80	54.2	112.5	55,000	
85	51.5	108.7	50,700	
90	48.6	104.5	46,800	
95	45.6	9.8	43,500	
100	42.4	94.7	40,500	
105	39.0	88.8	37,800	
110	35.4	82.3	35,300	
115	31.4	74.7	33,100	
120	26.8	65.7	31,100	
125	21.4	54.5	29,300	
<b>1</b>				
26	81.0	145.3	239,700	
28	80.1	144.9	230,800	
30	79.3	144.6	211,300	
32	78.5	144.2	192,100	
34	77.6	143.7	175,800	
<b>1</b>				
36	76.8	143.5	162,000	
38	75.9	142.8	150,100	
40	75.1	142.3	139,700	
45	73.0	140.9	118,700	
50	70.8	139.2	102,800	
<b>1</b>				
55	68.6	137.4	90,400	
60	66.4	135.3	80,400	
65	64.2	133.0	72,200	
70	61.9	130.5	65,300	
75	59.5	127.7	59,500	
<b>1</b>				
80	57.1	124.6	54,400	
85	54.6	121.2	50,100	
90	52.1	117.5	46,200	
95	49.5	113.4	42,900	
100	46.7	108.9	39,900	

BOOM LGTH FEET	OPER. RAD. FEET	BOOM ANG DEG.	BOOM POINT ELEV.	CAPACITY: CRAWLERS EXTENDED
<b>1</b>				
105	43.8	103.9	37,200	
110	40.8	98.5	34,700	
115	37.5	92.3	32,500	
120	34.0	85.4	30,500	
125	30.2	77.4	28,700	
<b>4</b>				
130	25.8	68.0	27,000	
135	20.7	56.4	25,500	
<b>0</b>				
28	80.8	155.1	218,600	
30	80.0	154.7	210,300	
32	79.2	154.4	191,600	
34	78.5	154.0	175,400	
36	77.7	153.5	161,600	
38	76.9	153.1	149,600	
40	76.1	152.6	139,200	
45	74.1	151.3	118,200	
50	72.1	149.8	102,400	
55	70.1	148.1	89,900	
<b>1</b>				
60	68.1	146.2	79,900	
65	66.0	144.0	71,700	
70	63.9	141.7	64,800	
75	61.7	139.1	59,000	
80	59.6	136.3	53,900	
<b>5</b>				
85	57.3	133.2	49,600	
90	55.0	129.9	45,700	
95	52.7	126.2	42,400	
100	50.2	122.3	39,400	
105	47.7	117.9	36,700	
<b>0</b>				
110	45.0	113.1	34,200	
115	42.3	107.9	32,000	
120	39.2	102.1	30,000	
125	36.2	95.7	28,200	
130	32.9	88.4	26,500	
135	29.2	80.1	25,000	
140	25.0	70.3	23,500	
145	19.9	58.2	22,200	
<b>1</b>				
28	81.4	165.2	208,500	
30	80.6	164.9	203,500	
32	79.9	164.5	191,100	
34	79.2	164.2	174,900	
36	78.5	163.8	161,000	
38	77.7	163.3	149,100	
40	77.0	162.9	138,700	
45	75.2	161.7	117,700	
50	73.3	160.2	101,800	
55	71.4	158.7	89,300	
<b>1</b>				
60	69.5	156.9	79,300	
65	67.6	154.9	71,100	
70	65.6	152.8	64,200	
75	63.7	150.4	58,400	
80	61.6	147.8	53,300	
<b>0</b>				
85	59.6	145.0	49,000	
90	57.5	141.9	45,100	
95	55.3	138.6	41,800	
100	53.1	135.0	38,700	
105	50.9	131.1	36,000	
<b>1</b>				
110	48.5	126.8	33,600	
115	46.1	122.2	31,400	
120	43.5	117.2	29,400	
125	40.9	111.7	27,600	
130	38.0	105.6	25,900	
<b>1</b>				
135	35.0	98.9	24,300	
140	31.8	91.3	22,900	
145	28.2	82.6	21,600	
150	24.1	72.5	20,400	
155	19.3	59.9	19,200	
<b>1</b>				
80	81.2	175.0	192,600	
82	80.5	174.7	188,400	
84	79.8	174.3	174,600	
86	79.2	174.0	160,800	
88	78.5	173.6	148,800	
<b>0</b>				
40	77.8	173.1	138,400	
45	76.0	172.0	117,400	
50	74.3	170.7	101,500	
55	72.5	169.2	89,100	
60	70.8	167.5	79,000	
<b>1</b>				
65	69.0	165.7	70,800	
70	67.2	163.7	63,900	
75	65.3	161.5	58,100	
80	63.4	159.1	53,000	
85	61.5	156.5	48,700	
<b>0</b>				
90	59.6	153.6	44,900	
95	57.6	150.6	41,500	
100	55.6	147.3	38,500	
105	53.6	143.7	35,800	
110	51.4	139.9	33,300	
<b>1</b>				
115	49.2	135.8	31,100	
120	47.0	131.3	29,100	
125	44.6	126.4	27,300	
130	42.2	121.1	25,600	
135	39.6	115.3	24,100	
<b>1</b>				
140	36.9	109.0	22,600	
145	34.0	102.0	21,300	
150	30.8	94.1	20,100	
155	27.3	85.1	18,900	
160	23.4	74.6	17,800	
165	18.7	61.6	16,400	

BOOM LGTH FEET	OPER. RAD. FEET	BOOM ANG DEG.	BOOM POINT ELEV.	CAPACITY: CRAWLERS EXTENDED
32	81.1	184.8	180,000	
34	80.4	184.5	174,100	
36	79.8	184.1	160,300	
38	79.1	183.8	148,300	
40	78.5	183.4	137,900	
<b>1</b>				
45	76.8	182.3	116,900	
50	75.2	181.0	101,000	
55	73.5	179.6	88,500	
60	71.9	178.1	78,500	
65	70.2	176.3	70,300	
<b>0</b>				
70	68.5	174.5	63,400	
75	66.8	172.4	57,500	
80	65.0	170.2	52,500	
85	63.3	167.7	48,100	
90	61.5	165.1	44,300	
<b>1</b>				
95	59.6	162.3	40,900	
100	57.8	159.3	37,900	
105	55.9	156.0	35,200	
110	53.9	152.5	32,700	
115	51.9	148.7	30,500	
<b>0</b>				
120	49.9	144.6	28,500	
125	47.8	140.3	26,700	
130	45.6	135.5	25,000	
135	43.3	130.4	23,500	
140	40.9	124.9	22,000	
<b>1</b>				
145	38.4	118.9	20,700	
150	35.8	112.3	19,500	
155	33.0	105.0	18,300	
160	29.9	96.8	17,200	
165	26.6	87.5	16,200	
<b>0</b>				
170	22.7	76.6	15,300	
175	18.2	63.2	13,500	
<b>1</b>				
32	81.5	194.9	171,000	
34	80.9	194.6	166,100	
36	80.3	194.3	159,800	
38	79.7	194.3	147,900	
40	79.1	193.6	137,400	
<b>0</b>				
45	77.5	192.5	116,400	
50	76.0	191.3	100,500	
55	74.4	190.0	88,000	
60	72.9	188.6		

LIFTCRANE CAPACITIES - 4100W SERIES 2  
 BOOM NO. 22C WITH OPEN THROAT TOP, CONTINUED.

**SEE CONDITIONS ON FRONT PAGE**

BOOM LGTH FEET	OPER. RAD. FEET	BOOM ANG DEG.	BOOM POINT ELEV.	CAPACITY: CRAWLERS EXTENDED
<b>2</b>	38	81.5	234.5	132,900
	40	81.0	234.2	125,200
	45	79.7	233.3	114,500
	50	78.5	232.4	98,600
	55	77.2	231.3	86,100
<b>3</b>	60	75.9	230.1	76,100
	65	74.6	228.8	67,800
	70	73.3	227.3	60,900
	75	72.0	225.8	55,000
	80	70.7	224.1	50,000
<b>0</b>	85	69.4	222.3	45,600
	90	68.0	220.3	41,700
	95	66.7	218.2	38,400
	100	65.3	216.0	35,300
	105	64.0	213.6	32,600
<b>3</b>	110	62.6	211.1	30,200
	115	61.1	208.4	28,000
	120	59.7	205.6	26,000
	125	58.3	202.6	24,100
	130	56.8	199.4	22,400
<b>4</b>	135	55.3	196.0	20,900
	140	53.8	192.5	19,400
	145	52.2	188.7	18,100
	150	50.6	184.7	16,900
	155	49.0	180.5	15,700
<b>5</b>	160	47.3	176.0	14,700
	165	45.6	171.3	13,600
	170	43.8	166.2	12,700
	175	42.0	160.8	11,800
	180	40.1	155.1	11,000
<b>6</b>	185	38.1	148.9	10,200
	190	36.0	142.3	9,400
	195	33.9	135.1	8,700
	200	31.6	127.3	8,100
	205	29.1	118.8	7,400
210	26.4	109.3	6,800	
<b>2</b>	40	81.4	244.3	123,400
	45	80.2	243.5	112,600
	50	78.9	242.6	98,100
	55	77.7	241.5	85,600
	60	76.5	240.4	75,600
<b>3</b>	65	75.3	239.1	67,300
	70	74.0	237.7	60,400
	75	72.8	236.3	54,500
	80	71.5	234.6	49,500
	85	70.3	232.9	45,100
<b>0</b>	90	69.0	231.1	41,200
	95	67.7	229.1	37,800
	100	66.4	227.0	34,800
	105	65.1	224.7	32,100
	110	63.8	222.3	29,700
<b>4</b>	115	62.5	219.8	27,400
	120	61.1	217.1	25,400
	125	59.7	214.3	23,600
	130	58.3	211.3	21,900
	135	56.9	208.1	20,300
<b>5</b>	140	55.5	204.7	18,900
	145	54.0	201.2	17,600
	150	52.5	197.5	16,300
	155	51.0	193.5	15,200
	160	49.5	189.4	14,100
<b>6</b>	165	47.9	185.0	13,100
	170	46.2	180.3	12,200
	175	44.6	175.4	11,300
	180	42.8	170.2	10,400
	185	41.0	164.6	9,600
<b>7</b>	190	39.2	158.7	8,900
	195	37.3	152.3	8,200
	200	35.2	145.5	7,500
	205	33.1	138.1	6,700
	210	30.9	130.1	6,000

BOOM LGTH FEET	OPER. RAD. FEET	BOOM ANG DEG.	BOOM POINT ELEV.	CAPACITY: CRAWLERS EXTENDED
<b>2</b>	45	80.6	253.6	106,600
	50	79.4	252.7	97,800
	55	78.2	251.7	85,200
	60	77.1	250.6	75,200
	65	75.9	249.4	66,900
<b>3</b>	70	74.7	248.1	60,000
	75	73.5	246.7	54,100
	80	72.3	245.2	49,100
	85	71.1	243.5	44,700
	90	69.9	241.7	40,800
<b>0</b>	95	68.7	239.8	37,400
	100	67.4	237.8	34,400
	105	66.2	235.7	31,700
	110	64.9	233.4	29,300
	115	63.6	231.0	27,100
<b>5</b>	120	62.4	228.5	25,000
	125	61.1	225.8	23,200
	130	59.7	222.9	21,500
	135	58.4	219.9	20,000
	140	57.0	216.8	18,500
<b>6</b>	145	55.7	213.4	17,200
	150	54.3	209.9	16,000
	155	52.8	206.2	14,800
	160	51.4	202.4	13,700
	165	49.9	198.3	12,700
<b>7</b>	170	48.4	193.9	11,800
	175	46.8	189.4	10,900
	180	45.3	184.5	10,100
	185	43.6	179.4	9,300
	190	41.9	174.0	8,500
<b>8</b>	195	40.2	168.3	7,800
	200	38.4	162.2	7,000
	205	36.5	155.7	6,200
	210	34.5	148.6	5,500
	<b>2</b>	45	80.9	263.7
50		79.8	262.9	95,700
55		78.7	261.9	84,700
60		77.6	260.9	74,700
65		76.4	259.7	66,400
<b>3</b>	70	75.3	258.5	59,500
	75	74.2	257.1	53,600
	80	73.0	255.6	48,500
	85	71.8	254.1	44,100
	90	70.7	252.4	40,300
<b>0</b>	95	69.5	250.6	36,900
	100	68.3	248.6	33,900
	105	67.1	246.6	31,100
	110	65.9	244.4	28,700
	115	64.7	242.1	26,500
<b>5</b>	120	63.5	239.7	24,500
	125	62.3	237.1	22,600
	130	61.0	234.4	20,900
	135	59.7	231.6	19,400
	140	58.5	228.6	17,900
<b>6</b>	145	57.2	225.4	16,600
	150	55.8	222.1	15,400
	155	54.5	218.7	14,200
	160	53.1	215.0	13,100
	165	51.7	211.2	12,100
<b>7</b>	170	50.3	207.1	11,200
	175	48.9	202.9	10,300
	180	47.4	198.4	9,500
	185	45.9	193.7	8,700
	190	44.3	188.7	7,900
<b>8</b>	195	42.7	183.4	7,000
	200	41.1	177.8	6,200
	205	39.4	171.9	5,400
	210	37.6	165.6	4,700



# LIFTCRANE CAPACITIES

MEETS ANSIB30.5 REQUIREMENTS

BOOM NO. 22C WITH OPEN THROAT TOP OFFSET 4 1/2 DEGREES

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 percent 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 boompoint 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 chard No. 6592-A.

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

**OPERATOR RADIUS:** Operating 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.

LOAD AND WHIP LINE SPECIFICATIONS	
LOAD LINE: 1-1/8" - 6 x 31 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" - 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)	

HOIST REEVING 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					
Max. Load - Lbs.	430,000					

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED				DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED	
OVERFRONT OF BLOCKED CRAWLERS		OVERSIDE OF EXTENDED CRAWLERS			
BOOM LENGTH	JIB NO. 123	BOOM LENGTH	JIB NO. 123	JIB LENGTH	JIB NO. 123
260'	--	260'	--	30'	3,000 lbs.
250'	--	250'	--	40'	3,600 lbs.
240'	40'	240'	40'	50'	4,200 lbs.
230'	60'	230'	60'	60'	4,900 lbs.

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

BOOM LGTH FEET	OPER. RAD. FEET	BOOM ANG DEG.	BOOM POINT ELEV.	CAPACITY: CRAWLERS EXTENDED
16.5	82.4	76.1	420,000	
17	82.0	76.0	398,900	
18	81.2	75.8	380,100	
19	80.3	75.6	363,000	
20	79.5	75.4	347,300	
<b>70</b>				
22	77.8	74.9	319,600	
24	76.1	74.3	293,400	
26	74.4	73.7	266,100	
28	72.7	73.0	237,500	
30	71.0	72.3	214,300	
<b>80</b>				
32	69.2	71.4	195,100	
34	67.4	70.5	178,900	
36	65.6	69.5	165,200	
38	63.7	68.5	153,300	
40	61.8	67.3	143,000	
<b>90</b>				
45	57.0	64.0	122,100	
50	51.8	60.1	106,300	
55	46.1	55.3	93,900	
60	39.8	49.4	84,000	
65	32.4	41.8	75,800	
70	22.7	31.0	63,900	

BOOM LGTH FEET	OPER. RAD. FEET	BOOM ANG DEG.	BOOM POINT ELEV.	CAPACITY: CRAWLERS EXTENDED
17	83.0	86.2	315,400	
18	82.3	86.0	309,400	
19	81.6	85.8	303,600	
20	80.8	85.6	298,200	
22	79.4	85.2	286,000	
<b>80</b>				
24	77.9	84.7	278,700	
26	76.4	84.2	265,600	
28	74.9	83.6	237,000	
30	73.4	82.9	213,800	
32	71.9	82.2	194,600	
<b>90</b>				
34	70.4	81.4	178,500	
36	68.8	80.6	164,700	
38	67.3	79.7	152,800	
40	65.7	78.7	142,400	
45	61.6	76.0	121,500	
<b>100</b>				
50	57.4	72.7	105,700	
55	52.9	68.9	93,300	
60	48.1	64.5	83,400	
65	42.9	59.1	75,200	
70	37.0	52.6	68,300	
<b>110</b>				
75	30.1	44.4	62,500	
80	21.0	32.7	53,900	

BOOM LGTH FEET	OPER. RAD. FEET	BOOM ANG DEG.	BOOM POINT ELEV.	CAPACITY: CRAWLERS EXTENDED
19	82.5	96.0	276,700	
20	81.9	95.8	271,500	
22	80.6	95.4	261,300	
24	79.3	95.0	252,900	
26	78.0	94.5	244,800	
<b>90</b>				
28	76.7	94.0	236,600	
30	75.3	93.4	213,400	
32	74.0	92.8	194,200	
34	72.7	92.1	178,000	
36	71.3	91.4	164,200	
<b>100</b>				
38	69.9	90.6	152,300	
40	68.6	89.7	142,000	
45	65.1	87.4	121,100	
50	61.4	84.6	105,200	
55	57.7	81.4	92,800	
<b>110</b>				
60	53.7	77.7	82,900	
65	49.5	73.5	74,700	
70	45.1	68.5	67,800	
75	40.2	62.7	62,000	
80	34.7	55.6	57,000	
<b>120</b>				
85	28.2	46.7	52,600	
90	19.7	34.3	49,900	

BOOM LGTH FEET	OPER. RAD. FEET	BOOM ANG DEG.	BOOM POINT ELEV.	CAPACITY: CRAWLERS EXTENDED
20	82.7	105.9	258,300	
22	81.5	105.6	248,700	
24	80.4	105.2	240,100	
26	79.2	104.8	232,100	
28	78.0	104.3	224,800	
<b>100</b>				
30	76.8	103.8	212,900	
32	75.7	103.2	193,700	
34	74.5	102.6	177,500	
36	73.3	102.0	163,700	
38	72.0	101.3	151,800	
<b>110</b>				
40	70.8	100.5	141,400	
45	67.7	98.5	120,500	
50	64.6	96.0	104,700	
55	61.3	93.3	92,300	
60	57.9	90.1	82,300	
<b>120</b>				
65	54.4	86.5	74,100	
70	50.7	82.4	67,200	
75	46.8	77.7	61,400	
80	42.6	72.3	56,400	
85	38.0	66.0	52,000	
<b>130</b>				
90	32.8	58.5	48,200	
95	26.6	49.0	44,900	
100	18.6	35.8	39,300	

CAUTION! CHECK AMOUNT OF COUNTERWEIGHT ON MACHINE BEFORE USE OF THIS CHART.

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LIFTCRANE CAPACITIES - 4100W SERIES 2

BOOM NO. 22C WITH OPEN THROAT TOP OFFSET 4 1/2 DEGREES, CONTINUED

**SEE CONDITIONS ON FRONT PAGE**

BOOM LGTH FEET	OPER. RAD. FEET	BOOM ANG DEG.	BOOM POINT ELEV.	CAPACITY: CRAWLERS EXTENDED	
<b>2</b>	38	82.3	234.7	119,600	
	40	81.8	234.4	117,100	
	45	80.6	233.5	111,200	
	50	79.3	232.5	98,600	
	55	78.0	231.5	86,100	
	<b>3</b>	60	76.7	230.3	76,100
		65	75.4	229.0	67,800
		70	74.2	227.5	60,900
		75	72.9	226.0	55,000
		80	71.5	224.3	50,000
<b>0</b>	85	70.2	222.5	45,600	
	90	68.9	220.5	41,700	
	95	67.5	218.4	38,400	
	100	66.2	216.2	35,300	
	105	64.8	213.8	32,600	
<b>0</b>	110	63.4	211.3	30,200	
	115	62.0	208.7	28,000	
	120	60.6	205.8	26,000	
	125	59.1	202.8	24,100	
	130	57.6	199.6	22,400	
<b>0</b>	135	56.1	196.3	20,900	
	140	54.6	192.7	19,400	
	145	53.0	189.0	18,100	
	150	51.5	185.0	16,900	
	155	49.8	180.7	15,700	
<b>0</b>	160	48.2	176.3	14,700	
	165	46.4	171.5	13,600	
	170	44.7	166.5	12,700	
	175	42.8	161.1	11,800	
	180	40.9	155.4	11,000	
<b>0</b>	185	39.0	149.2	10,200	
	190	36.9	142.6	9,400	
	195	34.7	135.5	8,700	
	200	32.4	127.7	8,100	
	205	30.0	119.2	7,400	
210	27.3	109.7	6,800		
<b>2</b>	40	82.2	244.5	111,700	
	45	81.0	243.7	106,300	
	50	79.7	242.7	98,100	
	55	78.5	241.7	85,600	
	60	77.3	240.6	75,600	
<b>0</b>	65	76.1	239.3	67,300	
	70	74.8	237.9	60,400	
	75	73.6	236.5	54,500	
	80	72.3	234.8	49,500	
	85	71.1	233.1	45,100	
<b>0</b>	90	69.8	231.3	41,200	
	95	68.5	229.3	37,800	
	100	67.2	227.2	34,800	
	105	65.9	224.9	32,100	
	110	64.6	222.5	29,700	
<b>4</b>	115	63.3	220.0	27,400	
	120	61.9	217.3	25,400	
	125	60.5	214.5	23,600	
	130	59.1	211.5	21,900	
	135	57.7	208.3	20,300	
<b>0</b>	140	56.3	205.0	18,900	
	145	54.8	201.4	17,600	
	150	53.3	197.7	16,300	
	155	51.8	193.8	15,200	
	160	50.3	189.6	14,100	
<b>0</b>	165	48.7	185.2	13,100	
	170	47.1	180.6	12,200	
	175	45.4	175.7	11,300	
	180	43.7	170.4	10,400	
	185	41.9	164.9	9,600	
<b>0</b>	190	40.0	159.0	8,900	
	195	38.1	152.6	8,200	
	200	36.1	145.8	7,500	
	205	34.0	138.5	6,700	
	210	31.7	130.5	6,000	

BOOM LGTH FEET	OPER. RAD. FEET	BOOM ANG DEG.	BOOM POINT ELEV.	CAPACITY: CRAWLERS EXTENDED
<b>2</b>	45	81.3	253.8	101,500
	50	80.2	252.9	96,900
	55	79.0	251.9	85,200
	60	77.8	250.8	75,200
	65	76.6	249.6	66,900
<b>5</b>	70	75.5	248.3	60,000
	75	74.3	246.9	54,100
	80	73.1	245.4	49,100
	85	71.9	243.7	44,700
	90	70.6	241.9	40,800
<b>0</b>	95	69.4	240.1	37,400
	100	68.2	238.0	34,400
	105	66.9	235.9	31,700
	110	65.7	233.6	29,300
	115	64.4	231.2	27,100
<b>0</b>	120	63.1	228.7	25,000
	125	61.8	226.0	23,200
	130	60.5	223.1	21,500
	135	59.2	220.2	20,000
	140	57.8	217.0	18,500
<b>0</b>	145	56.4	213.7	17,200
	150	55.1	210.2	16,000
	155	53.6	206.5	14,800
	160	52.2	202.6	13,700
	165	50.7	198.5	12,700
<b>0</b>	170	49.2	194.2	11,800
	175	47.6	189.6	10,900
	180	46.0	184.8	10,100
	185	44.4	179.7	9,300
	190	42.7	174.3	8,500
<b>0</b>	195	41.0	168.6	7,800
	200	39.2	162.5	7,000
	205	37.3	156.0	6,200
	210	35.3	149.0	5,500
	<b>2</b>	45	81.7	263.9
50		80.5	263.1	92,300
55		79.4	262.1	84,700
60		78.3	261.1	74,700
65		77.2	259.9	66,400
<b>0</b>	70	76.0	258.7	59,500
	75	74.9	257.3	53,600
	80	73.7	255.8	48,500
	85	72.6	254.3	44,100
	90	71.4	252.6	40,300
<b>0</b>	95	70.3	250.8	36,900
	100	69.1	248.8	33,900
	105	67.9	246.8	31,100
	110	66.7	244.6	28,700
	115	65.5	242.3	26,500
<b>6</b>	120	64.2	239.9	24,500
	125	63.0	237.3	22,600
	130	61.8	234.6	20,900
	135	60.5	231.8	19,400
	140	59.2	228.8	17,900
<b>0</b>	145	57.9	225.7	16,600
	150	56.6	222.4	15,400
	155	55.2	218.9	14,200
	160	53.9	215.2	13,100
	165	52.5	211.4	12,100
<b>0</b>	170	51.1	207.4	11,200
	175	49.6	203.1	10,300
	180	48.2	198.6	9,500
	185	46.6	193.9	8,700
	190	45.1	188.9	7,900
<b>0</b>	195	43.5	183.7	7,000
	200	41.8	178.1	6,200
	205	40.1	172.2	5,400
	210	38.4	165.9	4,700

# Manitowoc 4100W

## JIB LIFTING CAPACITIES

**4100W**

**JIB NO. 123 WITH 12' 6" STRUT ON BOOM NO. 22C WITH OPEN THROAT TOP 26' 6" CRAWLERS EXTENDED**

Meets ANSI B30.5 Requirements **SERIES 2**

**0 DEGREE JIB OFFSET ANGLE**

Chart supplement boom capacity chart No. 6924-A. Capacities are for freely suspended loads based on tipping, strength of structural components or other factors. Crane operator judgement must be used to allow for dynamic load effects of swinging, hoisting or lowering, travel, as well as adverse operating conditions and physical machine depreciation.

by shaded areas. Operating radius is the horizontal distance from axis of rotation to the center of vertical hoist line or load block. Weight of all load blocks, weight ball, slings, hoist lines beneath boom and jib point sheaves, etc., including those on the main boom is considered part of the jib load. Boom and jib load are not to be lowered beyond radii where combined weights are greater than rated capacity. Maximum capacity on 1<sup>1/2</sup> inch - 6 x 31 IPS, IWRC is 28,300 lbs./line.

Capacities do not exceed 75% of a static tipping load with machine on firm level surface. Capacities based on structural competence are denoted

	JIB POINT RADIUS FEET	CAPACITIES IN POUNDS BOOMLENGTH - FEET													JIB POINT RADIUS FEET	
		110	120	130	140	150	160	170	180	190	200	210	220	230		240
30 FOOT JIB	90+	40000	40000	40000	40000	40000	40000	40000	40000	40000	40000	40000	40000	40000	40000	90+
	95	40000	40000	40000	40000	40000	40000	40000	40000	40000	39500	39100	38600	38000	37500	95
	100	40000	40000	40000	39800	39200	38600	38200	37600	37100	36500	36100	35500	35000	34400	100
	105	38700	38100	37700	37000	36500	35800	35500	34900	34300	33700	33300	32800	32200	31700	105
	110	36300	35600	35200	34600	34000	33400	33000	32400	31900	31300	30900	30300	29800	29200	110
	115	34100	33400	33000	32400	31800	31200	30800	30200	29600	29000	28600	28100	27500	27000	115
	120	32100	31400	31000	30300	29800	29100	28800	28200	27600	27000	26600	26000	25500	25000	120
	130		27900	27400	26800	26200	25600	25200	24600	24100	23500	23100	22500	21900	21400	130
	140			24400	23800	23200	22600	22200	21600	21000	20400	20000	19400	18900	18400	140
	150				21200	20600	20000	19600	19000	18500	17800	17400	16900	16300	15800	150
	160					18400	17800	17400	16800	16200	15600	15200	14600	14100	13500	160
	170							15400	14800	14200	13600	13200	12600	12100	11500	170
	180								13100	12500	11900	11500	10900	10300	9800	180
190									11000	10300	9900	9300	8800	8200	190	
200										8900	8600	8000	7400	6600	200	
210											7300	6600	5800	5100	210	
40 FOOT JIB	105+	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	105+
	110	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	29600	110
	115	30000	30000	30000	30000	30000	30000	30000	30000	30000	29400	29000	28400	27900	27300	115
	120	29600	30000	30000	30000	30000	29500	29100	28500	28000	27400	27000	26400	25800	25300	120
	125	28400	29900	29500	28800	28300	27600	27300	26700	26100	25500	25100	24500	24000	23400	125
	130	27300	28200	27800	27100	26600	25900	25600	25000	24400	23800	23400	22800	22300	21700	130
	140		25200	24800	24100	23600	22900	22500	21900	21400	20800	20400	19800	19200	18700	140
	150			22200	21500	21000	20300	20000	19300	18800	18200	17800	17200	16600	16100	150
	160				19300	18700	18100	17700	17100	16500	15900	15500	14900	14400	13800	160
	170					16100	15700	15100	14600	13900	13500	12900	12400	11800	11200	170
	180						14000	13400	12800	12200	11800	11200	10600	10100	9500	180
	190							11800	11300	10600	10200	9600	9100	8500	8000	190
	200									9900	9300	8900	8300	7700	7000	200
210										8000	7600	7000	6200	5400	210	
50 FOOT JIB	135+	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	135+
	140	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	140
	145		20000	20000	20000	20000	20000	20000	20000	20000	19600	19200	18600	18100	17500	145
	150		20000	20000	20000	20000	20000	20000	19600	19000	18400	18000	17400	16800	16200	150
	155			20000	20000	20000	19400	19000	18400	17800	17200	16800	16200	15700	15100	155
	160			20000	19500	19000	18300	17900	17300	16800	16100	15700	15100	14600	14000	160
	170				17600	17000	16400	16000	15300	14800	14200	13800	13200	12600	12000	170
	180					14600	14200	13600	13000	12400	12000	11400	10900	10300	9700	180
	190							12700	12100	11500	10900	10500	9900	9300	8700	190
	200								10700	10100	9500	9100	8500	7900	7300	200
	210									8900	8200	7800	7200	6500	5900	210
	220										7100	6700	5900	5100	4300	220
	60 FOOT JIB	150+	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
155			10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	155
160			10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	160
170				10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	170
180					10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	180
190						10000	10000	10000	10000	10000	10000	10000	10000	10000	9400	190
200							10000	10000	10000	10000	10000	9600	9200	8600	8000	200
210								9600	9000	8400	8000	7400	6800	6200	5600	210
220										7900	7300	6800	6100	5300	4500	220
230											6200	5600	4800	4000	3200	230

These load charts are intended for instructional purposes only. They were derived from manufacturer sales information which may not be complete or machine specific. Not responsible for typographical errors.

# Manitowoc 4100W

## JIB LIFTING CAPACITIES

**4100W**

JIB NO. 123 WITH 12' 6" STRUT ON BOOM NO. 22C WITH OPEN THROAT TOP 26' 6" CRAWLERS EXTENDED

Meets ANSI B30.5 Requirements **SERIES 2**

**10 DEGREE JIB OFFSET ANGLE**

Chart supplement boom capacity chart No. 6934-A. Capacities are for freely suspended loads based on tipping, strength of structural components or other factors. Crane operator judgement must be used to allow for dynamic load effects of swinging, hoisting or lowering, travel, as well as adverse operating conditions and physical machine depreciation.

by shaded areas. Operating radius is the horizontal distance from axis of rotation to the center of vertical hoist line or load block. Weight of all load blocks, weight ball, slings, hoist lines beneath boom and jib point sheaves, etc., including those on the main boom is considered part of the jib load. Boom and jib load are not to be lowered beyond radii where combined weights are greater than rated capacity. Maximum capacity on 1 1/8 inch - 6 x 31 IPS. IWRC is 28,300 lbs./line.

Capacities do not exceed 75% of a static tipping load with machine on firm level surface. Capacities based on structural competence are denoted

	JIB POINT RADIUS FEET	CAPACITIES IN POUNDS BOOMLENGTH- FEET														JIB POINT RADIUS FEET	
		110	120	130	140	150	160	170	180	190	200	210	220	230	240		
30 FOOT JIB	90+	40000	40000	40000	40000	40000	40000	40000	40000	40000	40000	40000	40000	40000	40000	40000	90+
	95	40000	40000	40000	40000	40000	40000	40000	40000	40000	39900	39500	38900	38400	37900	95	
	100	38600	40000	40000	40000	39800	39200	38900	38300	37800	37200	36900	36300	35800	35400	100	
	105	37200	38500	38100	37500	37000	36400	36100	35500	35000	34500	34100	33600	33100	32600	105	
	110	36900	36000	35600	35000	34500	33900	33600	33000	32500	32000	31600	31000	30500	30000	110	
	115		33800	33400	32800	32300	31700	31300	30800	30200	29700	29300	28800	28300	27700	115	
	120		31700	31300	30700	30200	29600	29300	28700	28200	27600	27200	26700	26200	25700	120	
	125			29400	28800	28300	27700	27400	26800	26300	25700	25300	24800	24300	23800	125	
	130				27100	26600	26000	25600	25100	24600	24000	23600	23100	22500	22000	130	
	140					23500	22900	22600	22000	21500	20900	20500	20000	19500	18900	140	
150						20300	19900	19400	18800	18300	17900	17300	16800	16300	150		
160								17100	16500	16000	15600	15000	14500	14000	160		
170									14500	13900	13600	13000	12500	11900	170		
180										12200	11800	11200	10700	10200	180		
190												9600	9100	8600	190		
200													7700	7000	200		
40 FOOT JIB	100+	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	100+	
	105	29100	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	27700	105	
	110	28000	29300	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	110	
	115	27100	28300	29500	30000	30000	30000	30000	30000	30000	29900	29300	28900	28300	28300	115	
	120	26200	27400	28600	29700	30000	30000	29800	29200	28700	28100	27800	27200	26700	26200	120	
	125		26600	27700	28800	28800	28200	27900	27300	26800	26200	25900	25300	24800	24300	125	
	130		25900	26900	27600	27100	26500	26100	25600	25100	24500	24100	23600	23100	22600	130	
	140				24500	24000	23400	23000	22500	22000	21400	21000	20500	20000	19400	140	
	150					21300	20700	20400	19800	19300	18700	18300	17800	17300	16800	150	
	160						18400	18100	17500	17000	16400	16000	15500	15000	14400	160	
170								15500	15000	14400	14000	13400	12900	12400	170		
180									13200	12600	12200	11600	11100	10600	180		
190												10600	10000	9500	190		
200													8600	8100	200		
50 FOOT JIB	130+	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	130+	
	135	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	135	
	140		20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	140	
	145		20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	19400	18900	18900	145	
	150				20000	20000	20000	20000	20000	19700	19100	18700	18200	17600	17600	150	
	155				20000	20000	19900	19500	19000	18500	17900	17500	17000	16400	16400	155	
	160					19400	18800	18400	17900	17300	16800	16400	15800	15300	15300	160	
	165						17700	17400	16800	16300	15700	15300	14800	14300	14300	165	
	170						16700	16400	15800	15300	14700	14300	13800	13300	13300	170	
	180								14000	13500	12900	12500	12000	11500	11500	180	
190									11900	11300	10900	10400	9800	9800	190		
200										9900	9500	8900	8400	8400	200		
60 FOOT JIB	140+	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	140+	
	145		10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	145	
	150		10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	150	
	155			10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	155	
	160				10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	160	
	170					10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	170	
	180						10000	10000	10000	10000	10000	10000	10000	10000	10000	180	
	190							10000	10000	10000	10000	10000	10000	10000	10000	190	
200									10000	10000	9700	9200	8700	8700	200		
210										8800	8400	7900	7300	7300	210		

# Manitowoc 4100W

## JIB LIFTING CAPACITIES

**4100W**

Meets ANSI B30.5 Requirements **SERIES 2**

**JIB NO. 123 WITH 12' 6" STRUT ON BOOM NO. 22C WITH OPEN THROAT TOP 26' 6" CRAWLERS EXTENDED**

**20 DEGREE JIB OFFSET ANGLE**

Chart supplement boom capacity chart No. 6924-A. Capacities are for freely suspended loads based on tipping, strength of structural components or other factors. Crane operator judgement must be used to allow for dynamic load effects of swinging, hoisting or lowering, travel, as well as adverse operating conditions and physical machine depreciation.

by shaded areas. Operating radius is the horizontal distance from axis of rotation to the center of vertical hoist line or load block. Weight of all load blocks, weight ball, slings, hoist lines beneath boom and jib point sheaves, etc., including those on the main boom is considered part of the jib load. Boom and jib load are not to be lowered beyond radii where combined weights are greater than rated capacity. Maximum capacity on 1<sup>1/2</sup> inch - 6 x 31 IPS, IWRC is 28,300 lbs./line.

Capacities do not exceed 75% of a static tipping load with machine on firm level surface. Capacities based on structural competence are denoted

	JIB POINT RADIUS FEET	CAPACITIES IN POUNDS BOOMLENGTH- FEET														JIB POINT RADIUS FEET
		110	120	130	140	150	160	170	180	190	200	210	220	230	240	
30 FOOT JIB	90+	40000	40000	40000	40000	40000	40000	40000	40000	40000	40000	40000	40000	40000	40000	90+
	95	40000	40000	40000	40000	40000	40000	40000	40000	39500	39100	38600	38000	37500	95	
	100	40000	40000	40000	39800	39200	38600	38200	37600	37100	36500	36100	35500	35000	34400	100
	105	38700	38100	37700	37000	36500	35800	35500	34900	34300	33700	33300	32800	32200	31700	105
	110	36300	35600	35200	34600	34000	33400	33000	32400	31900	31300	30900	30300	29800	29200	110
	115	34100	33400	33000	32400	31800	31200	30800	30200	29600	29000	28600	28100	27500	27000	115
	120	32100	31400	31000	30300	29800	29100	28800	28200	27600	27000	26600	26000	25500	25000	120
	130		27900	27400	26800	26200	25600	25200	24600	24100	23500	23100	22500	21900	21400	130
	140			24400	23800	23200	22600	22200	21600	21000	20400	20000	19400	18900	18400	140
	150				21200	20600	20000	19600	19000	18500	17800	17400	16900	16300	15800	150
	160					18400	17800	17400	16800	16200	15600	15200	14600	14100	13500	160
170							15400	14800	14200	13600	13200	12600	12100	11500	170	
180								13100	12500	11900	11500	10900	10300	9800	180	
190									11000	10300	9900	9300	8800	8200	190	
200										8900	8600	8000	7400	6600	200	
210											7300	6600	5800	5100	210	
40 FOOT JIB	105+	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	105+	
	110	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	29600	110	
	115	30000	30000	30000	30000	30000	30000	30000	30000	29400	29000	28400	27900	27300	115	
	120	29600	30000	30000	30000	29500	29100	28500	28000	27400	27000	26400	25800	25300	120	
	125	28400	29900	29500	28800	28300	27600	27300	26700	26100	25500	25100	24500	24000	23400	125
	130	27300	28200	27800	27100	26600	25900	25600	25000	24400	23800	23400	22800	22300	21700	130
	140		25200	24800	24100	23600	22900	22500	21900	21400	20800	20400	19800	19200	18700	140
	150			22200	21500	21000	20300	20000	19300	18800	18200	17800	17200	16600	16100	150
	160				19300	18700	18100	17700	17100	16500	15900	15500	14900	14400	13800	160
	170					16100	15700	15100	14600	13900	13500	12900	12400	11800	11800	170
	180						14000	13400	12800	12200	11800	11200	10600	10100	10100	180
190							11800	11300	10600	10200	9600	9100	8500	8500	190	
200								9900	9300	8900	8300	7700	7000	7000	200	
210									8000	7600	7000	6200	5400	5400	210	
50 FOOT JIB	135+	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	135+	
	140	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	140	
	145		20000	20000	20000	20000	20000	20000	20000	20000	19600	19200	18600	18100	145	
	150		20000	20000	20000	20000	20000	20000	19600	19000	18400	18000	17400	16800	150	
	155			20000	20000	20000	19400	19000	18400	17800	17200	16800	16200	15700	155	
	160			20000	19500	19000	18300	17900	17300	16800	16100	15700	15100	14600	160	
	170				17600	17000	16400	16000	15300	14800	14200	13800	13200	12600	170	
	180					14600	14200	13600	13000	12400	12000	11400	10900	10900	180	
	190						12700	12100	11500	10900	10500	9900	9300	9300	190	
	200							10700	10100	9500	9100	8500	7900	7900	200	
	210								8900	8200	7800	7200	6500	6500	210	
220									7100	6700	5900	5100	5100	220		
60 FOOT JIB	150+	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	150+	
	155		10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	155	
	160		10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	160	
	170			10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	170	
	180				10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	180	
	190					10000	10000	10000	10000	10000	10000	10000	10000	9400	190	
	200						10000	10000	10000	10000	10000	10000	10000	8000	200	
	210							9600	9000	8400	8000	7400	6700	6700	210	
	220								7900	7300	6800	6100	5300	5300	220	
	230									6200	5600	4800	4000	4000	230	

These load charts are intended for instructional purposes only. They were derived from manufacturer sales information which may not be complete or machine specific. Not responsible for typographical errors.