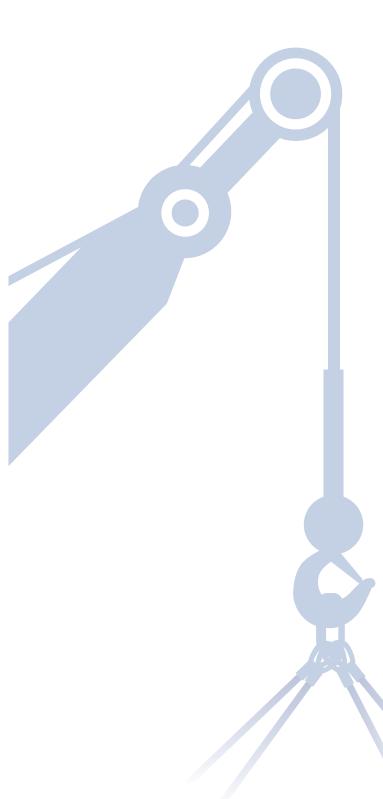


# **LOAD CHARTS**

for Use With WRITTEN EXAMINATIONS





# Manitowoc 4100W

Manitowoc Crane Group, by providing pages of one of its manuals, is not providing a substitute for training on a Manitowoc crane.

These pages are reproduced for illustration only and not as a substitute for reviewing the entire manual for a particular crane.

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
upper boom bome, and upper wife fone single	(INLBS.) 363,795* 2 446,295*
UPPERWORKS- w/Cummins NTA-855-C360 engine, ind. boom hoist, ind. swing, and 27-5/8" dia. lagging for rear drum; <u>LESS</u> boom, gantry and backhitch, equalizer, load block, weight ball, counter weights, telescopic air cushioned boom stop, upper wire rope guide, and catwalk	80,500*
UPPERWORKS as above - w/gantry and backhitch, equalizer, boom hoist rope, and carbody; <u>LESS</u> crawlers	. 138,685*
CARBODY-w/roller path, ring gear, and king pin; <u>LESS</u> crawlers	49,700
<b>CRAWLERS</b> , 26'-6" w/48" treads	37,965 each
COUNTERWEIGHT	
Inner (Self-Removing)  Middle (Self-Removing)  Outer (Self-Removing)  Side (2 Req'd)  Carbody (2 Req'd)  BOOM No. 22C	41,500 39,000 12,000 each
Boom Butt - 30'  Boom Top - 40' (w/Lower boom point assembly).  Upper Boom Point (Removable - single sheave)  double sheave.  Jib Adapter (Removable)  Boom Insert - 10' (w/rope guide roller assembly).  Boom Insert - 20' (w/rope guide roller assembly).  Boom Insert - 40' (w/rope guide roller assembly).  Boom Insert - 40' (w/jib backstay, and rope guide roller assembly).  Basic Pendant - 40' 9-3/4" (4 Req'd)  Pendant - 10' (4 per insert)  Pendant - 20' (4 per insert)  Pendant - 40' (4 per insert)  Pendant Spreader Bar	8,445 1,260 1,505 545 1,350 2,435 4,460 4,560 255 each 115 each 155 each 215 each

<sup>\*</sup>Weights do not include hoist line, whip line, or fuel. For CAT. D-343TA add 1,170 lbs., for CAT. 3406 PCTA add 100 lbs. and for CM 12 V-71N engines add 600 lbs.

© MANITOWC 1977 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.

(Cont'd)

DESCRIPTION	APPROX.
	WEIGHT
JIB NO. 123	(INLBS.)
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	
Whip Line - 1-1/8" - 6 x 31	
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.

MANITOWC 1977

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.

### LIFTCRANE CAPACITIES

MEETS ANSI B30.5 REQUIREMENTS

BOOM NO. 22C WITH OPEN THROAT TOP 146,400LB. CRANE COUNTERWEIGHT 60,000LB. 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.

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								

BOOM	OPER.	BOOM	BOOM	CAPACITY:
LGTH	RAD.	ANG	POINT	CRAWLERS
FEET	FEET	DEG.	ELEV.	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
7	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
0	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
	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

OPER.	BOOM	BOOM	CAPACITY:
RAD.	ANG	POINT	CRAWLERS
FEET	DEG.	ELEV.	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
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
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
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
75	27.4	43.9	52,500
80	18.2	32.0	53,900
	RAD. FIET 17 18 19 20 22 24 228 330 32 34 45 55 56 60 65 70 75	RAD. ANG FEET DEG.  17 80.6 18 79.9 19 79.2 20 78.5 22 77.0  24 75.5 26 74.0 28 72.5 30 71.0 32 69.5 34 68.0 36 66.4 38 64.8 38 64.8 38 64.8 38 64.8 37 59.2	RAD. ANG POINT FEET DEG. ELEV.  17 80.6 85.9 18 79.9 85.8 19 79.2 85.6 20 78.5 85.4 22 77.0 84.9  24 75.5 84.5 26 74.0 83.9 30 71.0 82.7 32 69.5 81.9  34 68.0 81.2 36 66.4 80.3 38 64.8 79.4 45 59.2 75.7  50 54.9 72.5 55 50.4 68.6 60 45.6 64.1 65 40.3 58.8 70 34.4 52.2

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 form 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)

WHIPLINE: 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)

	MAXIMU NGTHSL	DEDUCTIROM CAPACTIESWHENJIB		
OVERFI BLOCKED	CONTOF CRAWLERS	OVERSIDEOF IS ATTATCHED		
BCCM LENGIH	JIB NO.123	BOOM LENGTH	JIB NO.123	JIB JIB LENGIH NO.123
260' 250'		260' 250'		30' 3,000 lbs. 40' 3,600 lbs.
240' 230'	40' 60'	240' 230'	40' 60'	50' 4,200 lbs. 60' 4,900 lbs.
Load B	lock, hoo			n ground at start.

#### FOR JIB CAPACITIES, CONSULT JIB CHART.

BOOM	OPER.	BOOM	BOOM	CAPACITY:
LGTH	RAD.	ANG	POINT	CRAWLERS
FEET	FEET	DEG.	ELEV.	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
9	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
0	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
	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
	80 85 90 REUS	32.4 25.8 17.1 EOFT	55.2 46.2 33.5	57,000 52,600 45,900

BOOM LGTH FEET	OPER. RAD. FEET	BOOM ANG DEG.	BOOM POINT ELEV.	CAPACTIY: CRAWLERS EXTENDED
	19 20 22 24 26	81.4 80.8 79.6 78.5 77.3	105.9 105.7 105.4 105.0 104.5	332,900 327,100 316,200 290,800 263,900
1	28 30 32 34 36	76.1 74.9 73.7 72.5 71.3	104.1 103.6 103.0 102.4 101.7	236,200 212,900 193,700 177,500 163,700
0	38 40 45 50 55	70.1 68.9 65.8 62.6 59.3	101.0 100.3 98.2 95.8 93.0	151,800 141,400 120,500 104,700 92,300
	60 65 70 75 80	55.9 52.4 48.7 44.8 40.5	89.8 86.2 82.1 77.4 72.0	82,300 74,100 67,200 61,400 56,400
	85 90 95 100	35.9 30.7 24.5 16.3	65.6 58.0 48.5 35.0	52,000 48,200 44,900 39,300

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

© MANITOWC 1977 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.

### 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.	CAPACTIY: CRAWLERS EXTENDED
	22 24 26 28 30	80.6 79.5 78.5 77.4 76.3	115.5 115.2 114.8 114.3 113.9	291,600 282,900 263,200 235,800 212,500	1 4	105 110 115 120 125	43.8 40.8 37.5 34.0 30.2	103.9 98.5 92.3 85.4 77.4	37,200 34,700 32,500 30,500 28,700		32 34 36 38 40	81.1 80.4 79.8 79.1 78.5	184.8 184.5 184.1 183.8 183.4	180,000 174,100 160,300 148,300 137,900	2 0 0	175 180 185 190 195	31.2 28.4 25.2 21.6 17.3	110.7 102.0 92.1 80.5 66.3	13,300 12,400 11,700 10,900 8,500
1	32 34 36 38 40	75.3 74.2 73.1 72.0 70.9	113.4 112.8 112.2 111.6 110.9	193,300 177,100 163,300 151,400 141,000	0	130 135 28 30 32	25.8 20.7 80.8 80.0	68.0 56.4 155.1 154.7	27,000 25,500 218,600 210,300		45 50 55 60 65	76.8 75.2 73.5 71.9 70.2	182.3 181.0 179.6 178.1 176.3	116,900 101,000 88,500 78,500		36 38 40 45 50	81.2 80.7 80.1 78.7	214.5 214.2 213.9 213.0	146,000 143,300 136,600 115,500
1	45 50 55 60	68.1 65.3 62.4 59.4	109.1 106.9 104.5 101.7	120,100 104,200 91,800 81,800		34 36 38	79.2 78.5 77.7	154.4 154.0 153.5	191,600 175,400 161,600	1	70 75 80 85	68.5 66.8 65.0 63.3	174.5 172.4 170.2 167.7	70,300 63,400 57,500 52,500 48,100		55 60 65 70	77.3 75.9 74.5 73.1 71.7	211.9 210.7 209.4 207.9 206.4	99,600 87,100 77,100 68,800 61,900
	70 75 80 85	56.3 53.1 49.8 46.3 42.6	98.58 95.0 91.0 86.5 81.4			40 45 50 55 60	76.1 74.1 72.1 70.1	152.6 151.3 149.8 148.1	139,200 118,200 102,400 89,900 79,900	8 0	95 100 105 110	59.6 57.8 55.9 53.9	165.1 162.3 159.3 156.0 152.5	44,300 40,900 37,900 35,200 32,700		75 80 85 90 95	70.2 68.8 67.3 65.8 64.3	204.6 202.8 200.7 198.6 196.3	56,100 51,000 46,700 42,800 39,400
	95 100 105	38.6 34.2 29.2 23.3 15.5	75.6 68.8 60.7 50.6	47,800 44,400 41,400 38,700	5	65 70 75 80	66.0 63.9 61.7 59.6	144.0 141.7 139.1 136.3	71,700 64,800 59,000 53,900		115 120 125 130	49.9 47.8 45.6	144.6 140.3 135.5	28,500 26,700 25,000	2	100 105 110 115	62.8 61.3 59.7 58.1	193.8 193.8 191.1 188.3 185.3	36,400 33,700 31,300 29,100
	22 24 26 28	81.4 80.4 79.4	36.4 125.6 125.3 125.0	33,900 285,000 271,700	0	85 90 95 100 105	57.3 55.0 52.7 50.2 47.7	133.2 129.9 126.2 122.3 117.9	49,600 45,700 42,400 39,400 36,700		135 140 145 150	43.3 40.9 38.4 35.8	130.4 124.9 118.9 112.3	23,500 22,000 20,700 19,500	0	120 125 130 135	56.5 54.8 53.1 51.4	182.1 178.6 175.0 171.1	27,100 25,200 23,500 22,000
	32 34	78.5 77.5 76.5 75.5	124.6 124.1 123.7 123.2	259,800 235,300 212,100 192,800 176,600		110 115 120 125 130	45.0 42.3 39.3 36.2	113.1 107.9 102.1 95.7	34,200 32,000 30,000 28,200 26,500		155 160 165 170 175	33.0 29.9 26.6 22.7 18.2	76.6 63.2	18,300 17,200 16,200 15,300 13,500		140 145 150	49.6 47.8 46.0	167.0 162.6 157.9	20,600 19,200 18,000
1	36 38 40 45	74.5 73.5 72.5	122.7 122.1 121.5	162,800 150,900 140,500		130 135 140 145	29.2 25.0 19.9	88.4 80.1 70.3 58.2	26,500 25,000 23,500 22,200		32 34 36	81.5 80.9 80.3	194.9 194.6 194.3	171,000 166,100 159,800		160 165 170 175	42.0 39.9 37.8 35.5	147.6 141.8 135.6 128.9	15,800 14,800 13,800 12,900
0	50 55 60 65	67.5 64.8 62.2 59.4	117.8 115.6 113.1 110.3	119,500 103,700 91,300 81,300 73,100		28 30 32 34 36	81.4 80.6 79.9 79.2 78.5	165.2 164.9 164.5 164.2 163.8	208,500 203,500 191,100 174,900 161,000		38 40 45 50 55	79.7 79.1 77.5 76.0 74.4	193.9 193.6 192.5 191.3 190.0	147,900 137,400 116,400 100,500 88,000		180 185 190 195 200 205	33.1 30.5 27.7 24.6 21.0 16.8	121.6 113.5 104.5 94.3 82.4 67.8	12,100 11,300 10,600 9,900 8,800
	75 80 85 90	53.7 50.7 47.5 44.2	103.7 99.9 95.5 90.7	60,400 55,300 51,000 47,200		38 40 45 50 55	77.7 77.0 75.2 73.3	163.3 162.9 161.7 160.2	149,100 138,700 117,700 101,800		70 75	72.9 71.3 69.7 68.1	188.6 186.9 185.2 183.2	78,000 69,700 62,800 57,000		38 40 45 50	81.1 80.6 79.3 77.9	224.4 224.0 223.1 222.1	135,900 133,400 115,000 99,100
	95 100 105 110 115	40.7 36.9 32.7 28.0 22.3	85.2 79.0 71.8 63.2 52.6	43,800 40,800 38,100 35,700 33,500	1	60 65 70	69.5 67.6 65.6	158.7 156.9 154.9 152.8	79,300 71,100 64,200 58,400	1 9	80 85 90	66.4 64.8 63.1	181.1 178.9 176.4 173.8 171.0	52,000 47,600 43,800 40,400		60 65 70 75	75.3 73.9 72.5 71.2	211.0 219.8 218.4 216.9 215.2	76,600 68,300 61,400
	24 26 28 30 32	81.2 80.3 79.4 78.5 77.6	135.5 135.1 134.8 134.4 133.9	260,000 248,600 234,700 211,800 192,500	6 0	85 90 95	63.7 61.6 59.6 57.5 55.3	150.4 147.8 145.0 141.9 138.6	49,000 45,100	0	100 105 110 115	59.7 57.9 56.1 54.3	167.9 164.7 161.2	37,400 34,700 32,200 30,000		85 90 95	69.8 69.4 67.0	213.5 211.5 209.5	61,400 55,500 50,500 46,100 42,300 32,000
	34 36 38 40	76.7 75.7 74.8 73.9	133.5 133.0 132.5 131.9	176,300 162,500 150,600 140,200		100 105 110 115	53.1 50.9 48.5	135.0 131.1 126.8 122.2	41,800 38,700 36,000 33,600 31,400		125 130 135 140	50.4 48.5 46.4 44.3	157.5 153.5 149.2 144.6 139.7	28,000 26,200 24,500 22,900 21,500	2 2	100 105 110 115	65.6 64.1 62.7 62.2 59.7	207.3 204.9 202.4 199.8 196.9	38,900 35,800 33,100 30,700 28,500
$\begin{vmatrix} 1 \\ 3 \end{vmatrix}$	50 55 60	71.6 69.3 66.9 64.5	130.4 128.6 126.6 124.3	119,300 103,400 91,000 81,000		120 125 130	46.1 43.5 40.9 38.0	117.2 111.7 105.6	29,400 27,600 25,900 24,300		145 150 155 160 165	42.1 39.8 37.4 34.8 32.1	134.4 128.6 122.3 115.5 107.9	20,200 18,900 17,800 16,700 15,700	0	120 125 130	58.2 56.6 55.1	193.9 190.7 187.3	26,500 24,600 23,000 21,400
0	75 80 85 90	56.9 54.2 51.5	121.8 119.0 115.9 112.5	72,800 65,900 60,000 55,000		140 145 150 155	31.8 28.2 24.1 19.3	91.3 82.6 72.5 59.9	22,900 21,600 20,400 19,200		170 175 180 185	29.1 25.8 22.1 17.7	99.4 89.8 78.6 64.8	14,800 13,900 13,100 11,000		140 145 150 155	51.8 50.1 48.4 46.7	179.9 175.9 171.6 167.0	20,000 18,600 17,400 16,300
	90 95 100 105 110	51.5 48.6 45.6 42.4 39.0	108.7 104.5 9.8 94.7	50,700 46,800 43,500 40,500		30 32 34 36 38	81.2 80.5 79.8 79.2 78.5	175.0 174.7 174.3 174.0 173.6	192,600 188,400 174,600 160,800 148,800		34 36 38 40 45	81.4 80.8 80.2 79.6	204.7 204.4 204.1 203.7	157,200 153,500 147,400 136,900 115,900		160 165 170 175 180	44.8 43.0 41.0 39.0 36.9	162.1 156.9 151.4 145.4 139.0	15,200 14,200 13,200 12,300 11,500
	115 120 125	35.4 31.4 26.8 21.4	88.8 82.3 74.7 65.7 54.5	37,800 35,300 35,300 33,100 31,100 29,300		40 45 50 55 60	77.8 76.0 74.3 72.5 70.8	173.1 172.0 170.7 169.2 167.5	138,400 117,400 101,500 89,100 79,000		50 55 60 65 70	78.2 76.7 75.2 73.7 72.2 70.7	202.8 201.6 200.4 199.0 197.5	100,000 87,500 77,400 69,200 62,300		185 190 195 200 205 210	34.6 32.3 29.8 27.0 24.0	132.1 124.5 116.2 106.9 96.4	10,700 10,000 9,300 8,600 8,000
	26 28 30 32 34	81.0 80.1 79.3 78.5 77.6	145.3 144.9 144.6 144.2 143.7	239,700 230,800 211,300 192,100 175,800	1	65 70 75 80 85	69.0 67.2 65.3 63.4 61.5	165.7 163.7 161.5 159.1 156.5	70,800 63,900 58,100 53,000 48,700	2	75 80 85 90 95	69.2 67.7 66.1	195.8 194.0	56,400 51,400 47,000 43,200 39,800		210	20.6	84.2	6,500
1	36 38 40 45 50	76.8 75.9 75.1 73.0 70.8	143.5 142.8 142.3 140.9 139.2	162,000 150,100 139,700 118,700 102,800	7 0	90 95 100 105	59.6 57.6 55.6 53.6 51.4	153.6 150.6 147.3 143.7	44,900 41,500 38,500 35,800	0	100 105 110	64.5 62.9 61.3 59.7 58.0	189.9 187.6 185.1 182.5 179.6 176.6	36,800 34,100	CAP	ACIT	TES C	CONT	INUED
0	55 60 65 70 75	68.6 66.4 64.2 61.9 59.5	137.4 135.3 133.0 130.5 127.7	90,400 80,400 72,200 65,300 59,500		110 115 120 125 130	49.2 47.0 44.6 42.2	139.9 135.8 131.3 126.4	33,300 31,100 29,100 27,300 25,600 24,100		115 120 125 130	58.0 56.3 54.5 52.8 50.9	173.4 169.9 166.2 162.3	31,600 29,400 27,400 25,600 23,900				ГРАС	
	80 85 90 95	57.1 54.6 52.1	124.6 121.2 117.5	54,400 50,100 46,200		135	39.6 36.9 34.0	121.1 115.3 109.0 102.0	22,600 21,300		135 140 145	49.1 47.2 45.2 43.1 41.0	158.1 153.6 148.8	25,600 23,900 22,300 20,900 19,600	instructi	ional pu from m	rposes o	ntended to only. The arer sales	ey were
© MANI	100	49.5 46.7 977	113.4 108.9	42,900 39,900		145 150 155 160 165	30.8 27.3 23.4 18.7	94.1 85.1 74.6 61.6	20,100 18,900 17,800 16,400		155 160 165 170	41.0 38.7 36.4 33.9	138.1 132.2 125.7 118.6	18,300 17,200 16,100 15,100 14,200	informa or mack typogra	nine spe	cific. No	not be of respon	complete ssible for

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

BOOM	OPER.	BOOM	BOOM	CAPACITY:
LGTH	RAD.	ANG	POINT	CRAWLERS
FEET	FEET	DEG.	ELEV.	EXTENDED
	450 55 60 65	80.6 79.4 78.2 77.1 75.9	253.6 252.7 251.7 250.6 249.4	106,600 97,800 85,200 75,200 66,900
	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
2	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
5 0	120 125 130 135 140	62.4 61.1 59.7 58.4 57.0	228.5 225.8 222.9 219.9 216.8	25,000 23,200 21,500 20,000 18,500
	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
	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
	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
	45	80.9	263.7	104,800
	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
	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
'	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
2	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
6	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
	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
	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 ANSI B30.5 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.

HOIST	REEVIN	IG FO	R MAII	N LOA	D BLO	CK
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					

BOOM LGTH FEET	OPER. RAD. FEET	BOOM ANG DEG.	BOOM POINT ELEV.	CAPACITY: CRAWLERS EXTENDED	E I
	16.5 17 18 19 20	82.4 82.0 81.2 80.3 79.5	76.1 76.0 75.8 75.6 75.4	420,000 398,900 380,100 363,000 347,300	
7	22 24 26 28 30	77.8 76.1 74.4 72.7 71.0	74.9 74.3 73.7 73.0 72.3	319,600 293,400 266,100 237,500 214,300	
0	32 34 36 38 40	69.2 67.4 65.6 63.7 61.8	71.4 70.5 69.5 68.5 67.3	195,100 178,900 165,200 153,300 143,000	
	45 50 55 60 65 70	57.0 51.8 46.1 39.8 32.4 22.7	64.0 60.1 55.3 49.4 41.8 31.0	122,100 106,300 93,900 84,000 75,800 63,900	

BOOM	OPER.	BOOM	BOOM	CAPACITY:
LGTH	RAD.	ANG	POINT	CRAWLERS
FEET	FEET	DEG.	ELEV.	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	296,200
	22	79.4	85.2	286,000
8	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
0	34 36 38 40 45	70.4 68.8 67.3 65.7 61.6	81.4 80.6 79.7 78.7 76.0	178,500 164,700 152,800 142,400 121,500
	50 55 60 65 70	57.4 52.9 48.1 42.9 37.0	72.7 68.9 64.5 59.1 52.6	105,700 93,300 83,400 75,200 68,300
1017	75	30.1	44.4	62,500
	80	21.0	32.7	53,900
UIIN	TERW	/HIC (H)	TONN	IACHINI

load effects of swinging, hoisting or lowering, travel, as well as adverse operating conditions & physical machine depreciation.
<b>OPERATOR RADIUS:</b> Operating is the horizontal distance form 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.

Crane operator judgement must be used to allow for dynamic

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

LOADLINE: 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)

WHIPLINE: 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)

		MBOOMAN IFTEDUNAS			TIROM		
OVERFI BLOCKEDO		OVERSI EXTENDEDX		CAPACTHESWHENJI ISATTATCHED			
BOOM	JIB	BOOM	JIB	JB	JB		
LENGIH	NO.123	LENGIH	NO.123	LENGIH	NO.123		
260'		260'		30' 3	3,000 lbs.		
250'		250'		40' 3	3,600 lbs.		
240'	40'	240'	40'		1,200 lbs.		
230'	60'	230'	60'		1,900 lbs.		
Load B	lock, hoo	ok and wei	ght ball or	n ground	at start.		

		FOR J	B CAF	PACITIES	, (	CONS	ULTJ	B CHA	ART.	
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
	19 20 22 24 26	82.5 81.9 80.6 79.3 78.0	96.0 95.8 95.4 95.0 94.5	276,700 271,500 261,300 252,900 244,800			20 22 24 26 28	82.7 81.5 80.4 79.2 78.0	105.9 105.6 105.2 104.8 104.3	258,300 248,700 240,100 232,100 224,800
9	28 30 32 34 36	76.7 75.3 74.0 72.7 71.3	94.0 93.4 92.8 92.1 91.4	236,600 213,400 194,200 178,000 164,200		1 0	30 32 34 36 38	76.8 75.7 74.5 73.3 72.0	103.8 103.2 102.6 102.0 101.3	212,900 193,700 177,500 163,700 151,800
0	38 40 45 50 55	69.9 68.6 65.1 61.4 57.7	90.6 89.7 87.4 84.6 81.4	152,300 142,000 121,100 105,200 92,800		0	40 45 50 55 60	70.8 67.7 64.6 61.3 57.9	100.5 98.5 96.0 93.3 90.1	141,400 120,500 104,700 92,300 82,300
	60 65 70 75 80	53.7 49.5 45.1 40.2 34.7	77.7 73.5 68.5 62.7 55.6	82,900 74,700 67,800 62,000 57,000			65 70 75 80 85	54.4 50.7 46.8 42.6 38.0	86.5 82.4 77.7 72.3 66.0	74,100 67,200 61,400 56,400 52,000
DEEC	85 90	28.2 19.7	46.7 34.3	52,600 49,900			90 95 100	32.8 26.6 18.6	58.5 49.0 35.8	48,200 44,900 39,300

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

@ MANITOWC 1977 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.

### SEE CONDITIONS ON REVERSE SIDE

BOOM	OPER.	BOOM	BOOM	CAPACITY:	BOOM	OPER.	BOOM	
LGTH FEET	RAD. FEET	ANG DEG.	POINT ELEV. 115.7	CRAWLERS EXTENDED	LGTH FEET	RAD. FEET	ANG DEG.	
	22 24 26 28 30	82.3 81.3 80.2 79.1 78.1	115.4 115.0 114.6 114.1	240,500 232,100 224,400 217,300 210,700	1 4	105 110 115 120 125	45.3 42.2 39.0 35.5 31.7	
	32 34 36 38	77.0 75.9 74.8 73.7 72.6	113.6 113.1 112.5 111.8 111.2	193,300 177,100 163,300 151,400 141,000	0	130 135	27.4 22.2	
1 1	45 50 55 60					28 30 32 34 36	82.1 81.3 80.5 79.7 79.0	
0	70	69.9 67.0 64.1 61.2 58.1	109.3 107.2 104.7 101.9 98.8	120,100 104,200 91,800 81,800 73,600		38 40 45 50 55	78.2 77.4 75.4 73.4 71.4	
	75 80 85 90	44.4 40.4	95.3 91.3 86.8 81.7 75.9	66,800 60,900 55,900 51,600 47,800	1	60 65 70 75 80	69.4 67.3 65.2 63.0 60.9	
	95 100 105 110	36.1 31.1 25.3 17.6	61.1 51.1 37.2	41,400 38,700 33,900	5 0	80 85 90	58.6 56.3 54.0	L
	22 24 26 28 30	83.0 82.0 81.0 80.0 79.1	125.9 125.5 125.2 124.8 124.4	228,700 220,500 213,000 206,100 199,700		95 100 105	49.0 46.4	
	32 34 36 38	78.1 77.1 76.1 75.1 74.1	123.9 123.4 122.9 122.3 121.7	192,800 176,600 162,800 150,900 140,500		110 115 120 125 130	43.6 40.7 37.6 34.2	
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	45 50 55	71.6				135 140 145	30.5 26.4 21.4	L
0	65	69.1 66.5 63.8 61.1	120.0 118.1 115.9 113.4 110.6	119,500 103,700 91,300 81,300 73,100		28 30 32 34 36	82.6 81.8 81.1 80.4 79.7	
	70 75 80 85 90	58.3 55.4 52.4 49.2 45.9	104.0 100.1 95.8 91.0	55,300 51,000 47,200		38 40 45 50 55	78.9 78.2 76.3 74.5 72.6	
	100 105 110 115	38.6 34.4 29.7 24.1	85.5 79.4 72.2 63.7 53.2	43,800 40,800 38,100 35,700 33,500	1	60 65 70 75 80	70.7 68.8 66.8 64.9 62.9	
	24 26 28 30 32	82.6 81.7 80.8 79.9 79.0	135.7 135.3 135.0 134.6 134.2	212,700 205,300 198,600 192,300 186,500	0	85 90 95 100	62.9 60.8 58.7 56.6 54.4	
1	34 36 38 40 45	78.1 77.2 76.3 75.4 73.1	133.7 133.2 132.7 132.1 130.6	176,300 162,500 150,600 140,200 119,300		105 110 115 120 125 130	52.1 49.7 47.3 44.8 42.1 39.3	L
3 0	50 55 60 65 70	70.8 68.4 66.0 63.5 61.0	128.8 126.8 124.6 122.0 119.2	103,400 91,000 81,000 72,800 65,900		135 130 135 140 145	36.3 33.1 29.5	
	75 80 85 90	58.4 55.7 53.0 50.1	116.1 112.7 108.9 104.8	60,000 55,000 50,700 46,800 43,500		150 155	25.5 20.7	L
	95	47.1	100.1			30 32 34 36 38	82.3 81.6 81.0 80.3 79.6	
	100 105 110 115 120 125	43.9 40.6 36.9 33.0 28.5 23.1	95.0 89.2 82.6 75.1 66.1 55.1	40,500 37,800 35,300 33,100 31,100 29,300		40 45 50 55 60	78.9 77.2 75.4 73.7 71.9	
	26 28 30 32 34	82.3 81.5 80.7 79.8 79.0	145.5 145.1 144.8 144.4 144.0	198,400 191,800 185,600 179,900 174,700	1	65 70 75 80 85	70.1 68.3 66.4 64.6 62.7	
1 4	36 38 40 45 50	78.1 77.3 76.5 74.3 72.2	143.5 143.0 142.5 141.1 139.4	162,000 150,100 139,700 118,700 102,800	7 0	90 95 100 105 110	60.8 58.8 56.8 54.7 52.6	-
0	55 60 65 70 75	70.0 67.8 65.6 63.3 60.9	137.6 135.5 133.2 130.7 127.9	90,400 80,400 72,200 65,300 59,500		115 120 125 130 135	50.4 48.1 45.8 43.3 40.8	
	80 85 90 95 100	58.5 56.1 53.5 50.9 48.1	124.8 121.4 117.7 113.7 109.2	54,400 50,100 46,200 42,900 39,900		140 145 150 155 160 165	38.1 35.2 32.0 28.6 24.7 20.0	

BOOM	OPER.	BOOM	BOOM	CAPACTIY:
LGTH	RAD.	ANG	POINT	CRAWLERS
1 4	105 110 115 120 125	DEG. 45.3 42.2 39.0 35.5 31.7	ELEV. 104.2 98.8 92.7 85.7 77.8	37,200 34,700 32,500 30,500 28,700
0	130 135	31.7 27.4 22.2	77.8 68.5 57.0	28,700 27,000 25,500
	28	82.1	155.3	185,600
	30	81.3	154.9	179,600
	32	80.5	154.6	174,000
	34	79.7	154.2	168,800
	36	79.0	153.8	161,600
	38	78.2	153.3	149,600
	40	77.4	152.8	139,200
	45	75.4	151.5	118,200
	50	73.4	150.0	102,400
	55	71.4	148.3	89,900
1 5	60 65 70 75 80	69.4 67.3 65.2 63.0 60.9	146.4 144.3 141.9 139.4 136.6	79,900 71,700 64,800 59,000 53,900
0	85	58.6	133.5	49,600
	90	56.3	130.1	45,700
	95	54.0	126.5	42,400
	100	51.5	122.5	39,400
	105	49.0	118.2	36,700
	110	46.4	113.4	34,200
	115	43.6	108.2	32,000
	120	40.7	102.4	30,000
	125	37.6	96.0	28,200
	130	34.2	88.8	26,500
	135	30.5	80.5	25,000
	140	26.4	70.8	23,500
	145	21.4	58.8	22,200
	28	82.6	165.4	179,800
	30	81.8	165.1	173,900
	32	81.1	164.7	168,400
	34	80.4	164.4	163,300
	36	79.7	164.0	158,600
	38 40 45 50 55	78.9 78.2 76.3 74.5 72.6	164.0 163.6 163.1 161.9 160.5 158.9	149,100 138,700 117,700 101,800 89,300
1 6	60 65 70 75 80	70.7 68.8 66.8 64.9 62.9	157.1 155.1 153.0 150.6 148.0	79,300 71,100 64,200 58,400 53,300
0	85	60.8	145.2	49,000
	90	58.7	142.2	45,100
	95	56.6	138.8	41,800
	100	54.4	135.2	38,700
	105	52.1	131.4	36,000
	110	49.7	127.1	33,600
	115	47.3	122.5	31,400
	120	44.8	117.5	29,400
	125	42.1	112.0	27,600
	130	39.3	105.9	25,900
	135	36.3	99.2	24,300
	140	33.1	91.7	22,900
	145	29.5	83.0	21,600
	150	25.5	72.9	20,400
	155	20.7	60.5	19,200
	30	82.3	175.2	169,000
	32	81.6	174.9	163,600
	34	81.0	174.5	158,700
	36	80.3	174.2	154,000
	38	79.6	173.8	148,800
•	40	78.9	173.3	138,400
	45	77.2	172.2	117,400
	50	75.4	170.9	101,500
	55	73.7	169.4	89,100
	60	71.9	167.7	79,000
1	65	70.1	165.9	70,800
	70	68.3	163.9	63,900
	75	66.4	161.7	58,100
	80	64.6	159.3	53,000
	85	62.7	156.7	48,700
<b>7 0</b>	90	60.8	153.9	44,900
	95	58.8	150.8	41,500
	100	56.8	147.5	38,500
	105	54.7	144.0	35,800
	110	52.6	140.2	33,300
	115	50.4	136.0	31,100
	120	48.1	131.5	29,100
	125	45.8	126.7	27,300
	130	43.3	121.4	25,600
	135	40.8	115.7	24,100
	140	38.1	109.3	22,600
	145	35.2	102.3	21,300
	150	32.0	94.5	20,100
	155	28.6	85.5	18,900
	160	24.7	75.1	17,800
	165	20.0	62.2	16,400

BOOM	OPER.	BOOM	BOOM	CAPACITY:
LGTH	RAD.	ANG	POINT	CRAWLERS
FEET	FEET	DEG.	ELEV.	EXTENDED
	32	82.1	185.0	158,700
	34	81.5	184.7	154,000
	36	80.8	184.3	149,500
	38	80.2	184.0	145,200
	40	79.5	183.6	137,900
	45	77.9	182.5	116,900
	50	76.3	181.2	101,000
	55	74.6	179.8	88,500
	60	72.9	178.3	78,500
	65	71.3	176.6	70,300
1 8	70	69.6	174.7	63,400
	75	67.8	172.6	57,500
	80	66.1	170.4	52,500
	85	64.3	168.0	48,100
	90	62.5	165.4	44,300
0	95	60.7	162.5	40,900
	100	58.9	159.5	37,900
	105	57.0	156.2	35,200
	110	55.0	152.7	32,700
	115	53.0	149.0	30,500
	120	51.0	144.9	28,500
	125	48.9	140.5	26,700
	130	46.7	135.8	25,000
	135	44.4	130.7	23,500
	140	42.0	125.2	22,000
	145	39.6	119.2	20,700
	150	36.9	112.6	19,500
	155	34.1	105.3	18,300
	160	31.1	97.2	17,200
	165	27.7	87.9	16,200
	170	23.9	77.1	15,300
	175	19.4	63.8	13,500
	32	82.5	195.1	153,100
	34	81.9	194.8	148,800
	36	81.3	194.5	144,800
	38	80.7	194.1	140,800
	40	80.1	193.8	137,000
	45	78.5	192.7	116,400
	50	77.0	191.5	100,500
	55	75.4	190.2	88,000
	60	73.9	188.8	78,000
	65	72.3	187.1	69,700
1	70	70.7	185.4	62,800
	75	69.1	183.4	57,000
	80	67.4	181.4	52,000
	85	65.8	179.1	47,600
	90	64.1	176.6	43,800
9	95	62.4	174.0	40,400
	100	60.7	171.2	37,400
	105	58.9	168.2	34,700
	110	57.1	164.9	32,200
	115	55.3	161.4	30,000
,	120	53.4	157.7	28,000
	125	51.5	153.7	26,200
	130	49.5	149.5	24,500
	135	47.5	144.9	22,900
	140	45.3	140.0	21,500
'	145	43.1	134.6	20,200
	150	40.8	128.9	18,900
	155	38.4	122.6	17,800
	160	35.9	115.8	16,700
	165	33.2	108.3	15,700
	170	30.2	99.8	14,800
	175	27.0	90.3	13,900
	180	23.3	79.1	13,100
	185	18.9	65.4	11,000
	34	82.3	204.9	143,100
	36	81.7	204.6	139,500
	38	81.2	204.3	136,000
	40	80.6	203.9	132,500
	45	79.1	203.0	115,900
	50	77.7	201.8	100,000
	55	76.2	200.6	87,500
	60	74.7	199.2	77,400
	65	73.2	197.7	69,200
	70	71.7	196.0	62,300
2 0	75	70.2	194.2	56,400
	80	68.6	192.2	51,400
	85	67.1	190.1	47,000
	90	65.5	187.8	43,200
	95	63.9	185.3	39,800
0	100	62.3	182.7	36,800
	105	60.6	179.8	34,100
	110	59.0	176.8	31,600
	115	57.3	173.6	29,400
	120	55.5	170.2	27,400
	125	53.0	166.5	25,600
	130	51.9	162.6	23,900
	135	50.1	158.4	22,300
	140	48.1	153.9	20,900
	145	46.2	149.1	19,600
	150	44.1	144.0	18,300
	155	42.0	138.4	17,200
	160	39.7	132.5	16,100
	165	37.4	126.0	15,100
	170	34.9	118.9	14,200

	FEET	DEG.	ELEV.	CRAWLERS EXTENDED
2 0 0	175 180 185 190 195	32.3 29.4 26.2 22.6 18.4	111.1 102.4 92.5 81.0 67.0	13,300 12,400 11,700 10,900 8,500
	36	82.1	214.7	134,200
	38	81.6	214.4	131,000
	40	81.0	214.1	127,900
	45	79.6	213.2	115,500
	50	78.3	212.1	99,600
	55	76.9	210.9	87,100
	60	75.4	209.6	77,100
	65	74.0	208.1	68,800
	70	72.6	206.6	61,900
	75	71.2	204.8	56,100
2	80	69.7	203.0	51,000
	85	68.2	201.0	46,700
	90	66.7	198.8	42,800
	95	65.2	196.5	39,400
	100	63.7	194.0	36,400
1 0	105	62.2	191.3	33,700
	110	60.6	188.5	31,300
	115	59.0	185.5	29,100
	120	57.4	182.3	27,100
	125	55.7	178.9	25,200
	130	54.1	175.2	23,500
	135	52.3	171.4	22,000
	140	50.6	167.3	20,600
	145	48.8	162.9	19,200
	150	46.9	158.2	18,000
	155	45.0	153.2	16,800
	160	43.0	147.9	15,800
	165	40.9	142.1	14,800
	170	38.7	135.9	13,800
	175	36.5	129.2	12,900
	180	34.0	121.9	12,100
	185	31.5	113.9	11,300
	190	28.7	104.9	10,600
	195	25.6	94.7	9,900
	200	22.1	82.9	8,800
	205	17.9	68.5	6,500
	38	82.0	224.6	125,700
	40	81.4	224.2	122,800
	45	80.1	223.3	115,000
	50	78.8	222.3	99,100
	55	77.5	221.2	86,600
	60	76.1	220.0	76,600
	65	74.8	218.6	68,300
	70	73.4	217.1	61,400
	75	72.0	215.4	55,500
	80	70.7	213.7	50,500
2 2	85	69.3	211.8	46,100
	90	67.9	209.7	42,300
	95	66.4	207.5	38,900
	100	65.0	205.2	35,800
	105	63.6	202.7	33,100
0	110	62.1	200.0	30,700
	115	60.6	197.2	28,500
	120	59.1	194.2	26,500
	125	57.5	191.0	24,600
	130	55.9	187.6	23,000
	135	54.3	184.0	21,400
	140	52.7	180.2	20,000
	145	51.0	176.1	18,600
	150	49.3	171.8	17,400
	155	47.6	167.3	16,300
	160	45.7	162.4	15,200
	165	43.9	157.2	14,200
	170	41.9	151.7	13,200
	175	39.9	145.7	12,300
	180	37.8	139.3	11,500
	185	35.6	132.4	10,700
	190	33.2	124.8	10,000
	195	30.7	116.6	9,300
	200	28.0	107.3	8,600
	205	25.0	96.9	8,000
	210	21.5	84.8	6,500

BOOM OPER. BOOM BOOM CAPACITY:

### **CAPACITIES CONTINUED** ON NEXT PAGE

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.

### SEE CONDITIONS ON FRONT PAGE

CAPACTIY: CRAWLERS

EXTENDED

101,500 96,900 85,200 75,200 66,900

60,000 54,100 49,100 44,700 40,800

37,400 34,400 31,700 29,300 27,100

25,000 23,200 21,500 20,000 18,500

17,200 16,000 14,800 13,700 12,700

11,800 10,900 10,100 9,300 8,500

7,800 7,000 6,200 5,500

96,500 92,300 84,700 74,700 66,400

59,500 53,600 48,500 44,100 40,300

36,900 33,900 31,100 28,700 26,500

24,500 22,600 20,900 19,400 17,900

16,600 15,400 14,200 13,100 12,100

11,200 10,300 9,500 8,700 7,900

7,000 6,200 5,400 4,700

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.
	38 40 45 50 55	82.3 81.8 80.6 79.3 78.0	234.7 234.4 233.5 232.5 231.5	119,600 117,100 111,200 98,600 86,100			RAD.   ANG   POIN	253.8 252.9 251.9 250.8 249.6	
	60 65 70 75 80	76.7 75.4 74.2 72.9 71.5	230.3 229.0 227.5 226.0 224.3	76,100 67,800 60,900 55,000 50,000		·	70 75 80 85 90	75.5 74.3 73.1 71.9 70.6	248.3 246.9 245.4 243.7 241.9
2	85 90 95 100 105	70.2 68.9 67.5 66.2 64.8	222.5 220.5 218.4 216.2 213.8	45,600 41,700 38,400 35,300 32,600		2	105	69.4 68.2 66.9 65.7 64.4	240.1 238.0 235.9 233.6 231.2
3 0	110 115 120 125 130	63.4 62.0 60.6 59.1 57.6	211.3 208.7 205.8 202.8 199.6	30,200 28,000 26,000 24,100 22,400		5 0	120 125 130 135 140	63.1 61.8 60.5 59.2 57.8	228.7 226.0 223.1 220.2 217.0
	135 140 145 150 155	56.1 54.6 53.0 51.5 49.8	196.3 192.7 189.0 185.0 180.7	20,900 19,400 18,100 16,900 15,700			145 150 155 160 165	56.4 55.1 53.6 52.2 50.7	213.7 210.2 206.5 202.6 198.5
	160 165 170 175 180	48.2 46.4 44.7 42.8 40.9	176.3 171.5 166.5 161.1 155.4	14,700 13,600 12,700 11,800 11,000			170 175 180 185 190	49.2 47.6 46.0 44.4 42.7	194.2 189.6 184.8 179.7 174.3
	185 190 195 200 205 210	39.0 36.9 34.7 32.4 30.0 27.3	149.2 142.6 135.5 127.7 119.2 109.7	10,200 9,400 8,700 8,100 7,400					168.6 162.5 156.0 149.0
	40 45 50 55 60	82.2 81.0 79.7 78.5 77.3	244.5 243.7 242.7 241.7 240.6	6,800 111,700 106,300 98,100 85,600 75,600			65		263.9 263.1 262.1 261.1 259.9
,	65 70 75 80 85	77.3 76.1 74.8 73.6 72.3 71.1	240.6 239.3 237.9 236.5 234.8 233.1	85,600 75,600 67,300 60,400 54,500 49,500 45,100			70 75 80 85 90	76.0 74.9 73.7 72.6 71.4	258.7 257.3 255.8 254.3 252.6
	90 95 100 105 110	69.8 68.5 67.2 65.9 64.6	233.1 231.3 229.3 227.2 224.9 222.5	45,100 41,200 37,800 34,800 32,100 29,700			95 100 105 110 115	70.3 69.1 67.9 66.7 65.5	250.8 248.8 246.8 244.6 242.3
2	110 115 120 125 130 135	64.6 63.3 61.9 60.5 59.1 57.7	222.5 220.0 217.3 214.5 211.5 208.3	27,400 25,400 23,600 21,900 20,300		2	120 125 130 135 140		239.9 237.3 234.6 231.8 228.8
0	135 140 145 150 155	57.7 56.3 54.8 53.3 51.8	208.3 205.0 201.4 197.7 193.8	18,900 17,600 16,300 15,200		6	145 150 155 160 165	57.9 56.6 55.2 53.9 52.5	225.7 222.4 218.9 215.2 211.4
	165 170 175 180 185	48.7 47.1 45.4 43.7 41.9	185.2 180.6 175.7 170.4	13,100 12,200 11,300 10,400		,	170 175 180 185 190	51.1 49.6 48.2 46.6 45.1	207.4 203.1 198.6 193.9 188.9
	190 195 200 205 210	40.0 38.1 36.1 34.0 31.7	159.0 152.6 145.8 138.5 130.5	8,900 8,200 7,500 6,700 6,000			195 200 205 210	43.5 41.8 40.1 38.4	183.7 178.1 172.2 165.9

### 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

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.

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

#### 0 DEGREE JIB OFFSET ANGLE

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  $1^{1/2}$  inch -  $6 \times 31$  IPS, IWRC is 28,300 lbs./line.

	JIB POINT RADIUS							CITIES I								JIB POINT
	FET	110	120	130	140	150	160	170	180	190	200	210	220	230	240	RADIUS FEET
	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
<u>~</u>	100	40000	40000	40000	39800	39200	38600	38200	37600	37100	36500	36100	35500	35000	34400	100
٩ļ	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
30 FOOT	115	34100	33400	33000	32400	31800	31200	30800	30200	29600	29000	28600	28100	27500	27000	115
0	120	32100	31400	31000	30300		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
30	140			24400	23800	23200	22600	22200	21600	21000	20400	20000	19400	18900	18400	140
	150		1		21200		20000	19600	19000	18500	17800	17400	16900	16300	15800	150
	160				<b>i</b>	18400	17800	17400	16800	16200	15600	15200	14600	14100	13500	160
- 1	170							15400	14800	14200	13600	13200	12600	12100	11500	170
	180								13100	12500	11900	11500	10900	10300	9800	180
	190							1		11000	10300	9900	9300	8800	8200	190
- 1	200										8900	8600	8000	7400	6600	200
-	210			DATE OF THE PARTY NAMED IN		marker of the section of the				distriction of the second		7300	6600	5800	5100	210
	JIB POINT							TTIES D								JIB POINT
	RADIUS   FEET	110	120	130	140	150	160	170	180	190	200	210	220	230	240	RADIUS
ł	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
<b>E</b>	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
FOOT	125	28400	29900	29500	28800	28300	27600	27300	26700	26100	25500	25100	24500	24000	23400	125
윤ㅣ	130	27300	28200	27800	27100	26600	25900	25600	25000	24400	23800	23400	22800	22300	21700	130
<del>6</del>	140		25200	24800	24100	23600	22900	22500	21900	21400	20800	20400	19800	19200	18700	140
4	150			22200	21500	21000	20300	20000	19300	18800	18200	17800	17200	16600	16100	150
- 1	160				19300	18700	18100	17700	17100	16500	15900	15500	14900	14400	13800	160
	170						16100	15700	15100	14600	13900	13500	12900	12400	11800	170
- 1	180							14000	13400	12800	12200	11800	11200	10600	10100	180
- 1	190 200							<u> </u>	11800	11300	10600	10200	9600	9100	8500	190
	210									9900	9300 8000	8900 7600	8300 7000	7700 6200	7000 5400	200 210
	ЛВ						CAPA	CITIES I	N POUN	IDS .						ЛВ
	POINT RADIUS						BOO	MLENG	TH-FEE	T						POINT RADIUS
- 1	FEET	110	120	130	140	150	160	170	180	190	200	210	220	230		FEET
ŀ	135+	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000		135+
m۱	140	20000	20000	20000	20000		20000	20000	20000	20000	20000	20000	20000	20000		140
E۱	145	20000	20000	20000	20000	20000	20000	20000	20000	20000	19600	19200	18600	18100		145
H	150		20000	20000	20000	20000	20000	20000	19600	19000	18400	18000	17400	16800	1	150
었	155			20000	20000	20000	19400	19000	18400	17800	17200	16800	16200	15700	<del>                                     </del>	155
FOOT	160		1	20000	19500	19000	18300	17900	17300		16100	15700	15100	14600	1	160
20	170				17600		16400			14800		13800		12600		170
w.	180		- 1			2.000	14600	14200	13600	13000	12400	12000	11400	10900	Ì	180
ı	190						1.000	12700	12100	11500	10900	10500	9900	9300		190
١	200		1					,	10700		9500	9100	8500	7900	ł	200
	210		l					l		8900	8200	7800	7200	6500	ļ	210
	220									2200	7100	6700	5900	5100		220
	ЛВ						CAPAC	CITIES I	NPOUN	IDS						ЛВ
- 1	POINT							MLENG								POINT
	RADIUS	110	130	120	140	150	menu-omani-ma	dingamen stidate.	austra si Suatta og ik		200	010	200	200	HERTER BURNER	RADIUS
- 1	FFET 170	110	120	130	140	150	160	170	180	190	200	210	220	230		FEET
ا ڝ	150+	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	ŀ	150+
<u> </u>	155		10000	10000	10000		10000	10000	10000	10000	10000	10000	10000	10000	[	155
	160		10000	10000	10000		10000	10000	10000	10000	10000	10000	10000	10000	ŀ	160
F001	170			10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000		170
ا د	180				10000	10000	10000	10000	10000	10000	10000	10000	10000	10000		180
-	190						10000	10000	10000	10000	10000	10000	10000	9400	[	190
3	200							10000	10000	10000	9600	9200	8600	8000		200
ļ	210								9600	9000	8400	8000	7400	6700		210
	220									7900	7300	6800	6100	5300		220
- 1	230										6200	5600	4800	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.

### 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

#### 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.

Capacities do not exceed 75% of a static tipping load with machine on

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

	JIB POINT RADIUS	CAPACITIES IN POUNDS BOOM LENGTH-FEET														JIB POINT
30 FOOT JIB	FEET	110	120	130	140	150	160	170	180	190	200	210	220	230	240	RADIUS FEET
	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	39900	39500	38900	38400	37900	95
	100 105	38600 37200	40000 38500	40000 38100	40000 37500	39800 37000	39200 36400	38900	38300	37800	37200	36900	36300	35800	35400	100
	110	36900	36000	35600	35000	34500	33900	36100 33600	35500 33000	35000 32500	34500 32000	34100 31600	33600 31000	33100 30500	32600 30000	105 110
	115	30900	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
	130 140				27100	26600 23500	26000 22900	25600 22600	25100 22000	24600	24000	23600	23100	22500	22000	130
	150					23300	20300	19900	19400	21500 18800	20900 18300	20500 17900	20000 17300	19500 16800	18900 16300	140 150
	160						20300	13300	17100	16500	16000	15600	15000	14500	14000	160
	170									14500	13900	13600	13000	12500	11900	170
	180										12200	11800	11200	10700	10200	180
	190 200												9600	9100	8600	190
	JIB				auan Biratara	uusilleitukses	CANAC	I TENTAGE	L TOOTIN	<b>.</b>	undin xaritz	na na Taraka kerasan		7700	7000	JIB
	POINT	CAPACITIES IN POUNDS BOOMLENGTH-FEET														POINT
	RADIUS	110	120	130	140	150		T			200	210	220	320	2.40	RADIUS
	100 ·					150	20000	170	180	190	200	210	220	230	240	FEET
	100+ 105	30000 29100	30000 30000	30000 30000	30000 30000	30000 30000	30000 30000	30000 30000	30000 30000	30000 30000	30000 30000	30000 30000	30000 30000	30000 30000	30000 27700	100+ 105
JIB	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	30000	29900	29300	28900	28300	115
FOOT	120	26200	27400	28600	29700	30000	30000	29800	29200	28700	28100	27800	27200	26700	26200	120
FC	125 130		26600 25900	27700 26900	28800 27600	28800 27100	28200	27900	27300	26800	26200	25900	25300	24800	24300	125
40	140		23900	20900	24500	24000	26500 23400	26100 23000	25600 22500	25100 22000	24500 21400	24100 21000	23600 20500	23100 20000	22600 19400	130 140
	150				24300	21300	20700	20400	19800	19300	18700	18300	17800	17300	16800	150
	160						18400	18100	17500	17000	16400	16000		15000	14400	160
	170								15500	15000	14400	14000	13400	12900	12400	170
	180 190									13200	12600	12200	11600	11100	10600	180
	200											10600	10000 8600	9500 8100	9000 7600	190 200
	JIB CAPACITIES IN POUNDS													7000	лв	
	POINT							MLENG								POINT
	RADIUS	110	120	120	140	150	erre te tradella i estata i Mal	I W SEX SCIENCE UP THE	eswana kitiin di imiso	ACRES AND ACRES A	200	010	220	220		RADIUS
	130+	20000	20000	20000	20000	20000	20000	<b>170</b> 20000	180 20000	190 20000	200	210 20000	220 20000	230		FEET
JIB	135	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000 20000	20000	20000	20000		130+ 135
	140	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000		140
$^{\circ}$	145		20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	19400	18900		145
FOOT	150				20000	20000	20000	20000	20000	19700	19100	18700	18200	17600		150
0 F	155 160				20000	20000 19400	19900 18800	19500	19000	18500 17300	17900	17500	17000 15800	16400 15300		155 160
50	165					19400	17700		16800	16300	15700	15300		14300		165
	170						16700	16400	15800	15300	14700	14300	13800	13300		170
	180								14000	13500	12900	12500	12000	11500		180
	190									11900		10900	10400	9800		190
	200	i kigyan kidawa		Goldeniczlice (Auto)	aktoreetsterren naak	High also arrest	स्तिकार्यसम्बद्धाः स्टब्स्स	gaglaggig lagalissumik	ijaga gayadan ania	JUNGAS KAMBAMBAR	9900	9500	8900	8400	rei den graat in de	200
FOOT JIB	JIB POINT							CITIES I								JIB
	RADIUS						BOO	MLENG	TH-FEE							POINT RADIUS
	FEET	110	120	130	140	150	160	170	180	190	200	210	220	230		FEET
	140+	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		145
	150 155		10000	10000 10000	10000 10000	10000 10000	10000	10000	10000 10000	10000 10000	10000 10000	10000 10000	10000	10000		150
	160			10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000		155 160
$\mathbf{F}$	170				10000	10000	10000	10000	10000	10000	10000	10000	10000	10000		170
9	180						10000	10000	10000	10000	10000	10000	10000	10000		180
9	190								10000	10000	10000	10000	10000	10000		190
	200		ı I					1		10000	10000	9700	9200	8700		200
	210										8800	8400	7900	7300		210

### Manitowoc 4100W

#### JIB LIFTING CAPACITIES

4100W

typographical errors.

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	INT ROOM I FIGTH - FEFT													JIB POINT RADIUS	
	FEET	110	120	130	140	150	160	170	180	190	200	210	220	230	240	FEET
	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	40000	39500	39100	38600	38000	37500	95
FOOT JIB	100 105	40000 38700	40000 38100	37700	39800 37000	39200 36500	38600 35800	38200 35500	37600 34900	37100 34300	36500 33700	36100 33300	35500 32800	35000 32200	34400 31700	100 105
	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
Įŏ	120	32100	31400	31000	30300	29800	29100	28800	28200	27600	27000	26600	26000	25500	25000	120
30 F	130		27900	27400	26800	26200	25600	25200	24600	24100	23500	23100	22500	21900	21400	130
3	140 150			24400	23800 21200	23200 20600	22600 20000	22200 19600	21600 19000	21000 18500	20400 17800	20000 17400	19400 16900	18900 16300	18400 15800	140 150
	160				21200	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
	190 200									11000	10300	9900	9300	8800	8200	190
1	210										8900	8600 7300	8000 6600	7400 5800	6600 5100	200 210
	JIB	rarayat ologa			io e incluidad	1124 16 (4) 41 4	CAPAC	TTTECT	VPOLIN	ne		HARMANIA CUM	Sikila (Salatara)	3000	3100	JIB
	POINT RADIUS	CAPACITIES IN POUNDS BOOM LENGTH - FEET													POINT RADIUS	
	FEET	110	120	130	140	150	160	170	180	190	200	210	220	230	240	FEET
	105+	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	105+
JIB	110 115	30000 30000	30000 30000	30000 30000	30000 30000	30000 30000	30000 30000	30000 30000	30000 30000	30000 30000	30000 29400	30000 29000	30000 28400	30000 27900	29600 27300	110 115
L J	120	29600	30000	30000	30000	30000	29500	29100	28500	28000	27400	27000	26400	25800	25300	120
FOOT	125	28400	29900	29500	28800	28300	27600	27300	26700	26100	25500	25100	24500	24000	23400	125
1 E	130	27300	28200	27800	27100	26600	25900	25600	25000	24400	23800	23400	22800	22300	21700	130
6	140 150		25200	24800 22200	24100 21500	23600 21000	22900 20300	22500 20000	21900	21400	20800	20400	19800	19200	18700	140
4	160			22200	19300	18700	18100	17700	19300 17100	18800 16500	18200 15900	17800 15500	17200 14900	16600 14400	16100 13800	150 160
	170				17300	10,00	16100	15700	15100	14600	13900	13500	12900	12400	11800	170
	180							14000	13400	12800	12200	11800	11200	10600	10100	180
	190								11800	11300	10600	10200	9600	9100	8500	190
	200 210									9900	9300 8000	8900 7600	8300 7000	7700 6200	7000 5400	200 210
	JIB POINT	IB CAPACITIES IN POUNDS												3400	JIB	
	RADIUS	BOOM LENGTH-FEET									POINT RADIUS					
	FEET	110	120	130	140	150	160	170	180	190	200	210	220	230		FEET
ا ا	135+	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000		135+
JIB	140 145	20000	20000 20000	20000 20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000		140
	150		20000	20000	20000	20000	20000	20000	19600	20000 19000	19600 18400	19200 18000	18600 17400	18100 16800		145 150
S0 FOOT	155		20000	20000	20000	20000	19400	19000	18400	17800	17200	16800	16200	15700		155
<u>F</u>	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
	180 190						14600	14200 12700	13600 12100	13000 11500	12400 10900	12000 10500	11400 9900	9300		180 190
	200							12/00	10700		9500	9100	8500	7900		200
	210							1	10,00	8900	8200	7800	7200	6500		210
<u> </u>	220						<u> </u>				7100	6700	5900	5100		220
	JIB	CAPACITIES IN POUNDS														JIB
	POINT RADIUS	BOOM LENGTH - FEET													POINT RADIUS	
	FEET	110	120	130	140	150	160	170	180	190	200	210	220	230		FEET
	150+	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000		150+
E E	155		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
FOOT	170 180	-		10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000		170 180
F .	190				10000	10000	10000	10000		10000	10000	10000	10000	9400		190
9	200						1	10000		10000	9600	9200	8600	8000		200
ا ّ ا	210								9600	9000	8400	8000	7400	6700		210
	220									7900	7300	6800	6100	5300		220
	230	L						L			6200	5600	4800	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