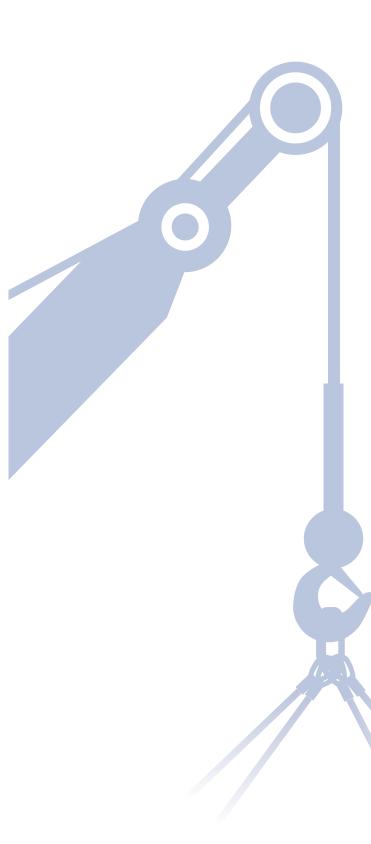


# **LOAD CHARTS**

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.

W	
DESCRIPTION	APPROX.
	WEIGHT (IN LBS.)
s2	363,795* 446,295*
<b>UPPERWORKS</b> - 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	41,900 41,500 39,000 12,000 each 30,000 each
BOOM No. 22C	
Boom Butt - 30'  Boom Top - 40' (w/Lower boom point assembly)  Upper Boom Point (Removable - single sheave)	6,150 8,445 1,260
double sheave	1,505 545 1,350
Boom Insert - 20' (w/rope guide roller assembly)	2,435 4,460
Boom Insert - 40' (w/jib backstay, and rope guide roller assembly)	4,560
Basic Pendant - 40' 9-3/4" (4 Req'd)	255 each
Pendant - 10' (4 per insert)	115 each
Pendant - 40' (4 per insert)	155 each
Pendant - 40' (4 per insert)	215 each 320

<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.

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	.34 lbs./ft.
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 146,400 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 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

BOOM	OPER.	BOOM	BOOM	CAPACITY:
LGTH	RAD.	ANG	POINT	CRAWLERS
FEET	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
8	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
0	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
OUN	TERV	VEIGH	TONN	ACHIN

	230'		6	50'	230'
	Load	B	locl	c, hoc	k and w
		FC	RЛ	B CA	PACITIES
BOOM LGTH FEET		A	XOM NG EG.	BOOM POINT ELEV.	CAPACITY: CRAWLERS EXTENDED
	18 19 20 22 24	8	1.1 0.4 9.8 8.5 7.2	95.9 95.7 95.6 95.2 94.7	355,400 346,900 336,900 317,400 291,700
9	26 28 30 32 34	77	5.9 4.5 3.2 1.9 0.5	94.3 93.7 93.2 92.5 91.9	264,800 236,600 213,400 194,200 178,000
0	36 38 40 45 50	6	9.2 7.8 6.4 2.9 9.3	91.1 90.3 89.5 87.1 84.4	164,200 152,300 142,000 121,100 105,200
	55 60 65 70 75	55443	5.5 1.5 7.3 2.8 7.9	81.2 77.5 73.2 68.2 62.3	92,800 82,900 74,700 67,800 62,000
	80 85 90	2	2.4 5.8 7.1	55.2 46.2 33.5	57,000 52,600 45,900

BOOM OPER. BOOM BOOM CAPACITY: LGTH RAD. ANG POINT CRAWLERS EXTENDED FEET DEG. ELEV. 81.4 80.8 79.6 78.5 77.3 105.9 105.7 105.4 105.0 104.5 236,200 212,900 1 70.1 68.9 65.8 62.6 59.3 38 40 45 50 55 55.9 52.4 48.7 44.8 40.5 60 65 70 75 80 82.1 77.4 72.0 61,400 56,400

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

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)

**MAXIMUMBOOMAND,JIB** DEDUCTIROM LENGTHSLIFTEDUNASSISTED CAPACITIESWHENJIB OVERFRONTOF **OVERSIDEOF** ISATTATCHED BLOCKEDCRAWLERS **EXTENDEDCRAWLERS** BOOM BOOM JB JB  $\overline{\mathbb{J}}$ B LENGIH NO.123 LENGIH LENGIH NO.123 NO.123 260' 260' 3,000 lbs 30' 250' 250' 40' 3,600 lbs 240 40' 240' 40' 50' 4,200 lbs 60' 4,900 lbs 60' weight ball on ground at start.

#### ES, CONSULT JIB CHART.

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

				SE	E C	ON	DI.	HO	NS O	Nh	KE\	/Eb	RSE	SIDI	£				
BOOM LGTH FEET	OPER. RAD. FEET	BOOM ANG DEG.	BOOM POINT ELEV.	CAPACITY: CRAWLERS EXTENDED	BOOM LGTH 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	113.4 112.8 112.2 111.6	193,300 177,100 163,300 151,400	0	130 135	25.8 20.7 80.8	68.0 56.4	27,000 25,500 218,600		45 50 55 60	76.8 75.2 73.5 71.9 70.2	182.3 181.0 179.6 178.1	116,900 101,000 88,500 78,500 70,300		36 38 40 45 50	81.2 80.7 80.1 78.7 77.3	214.5 214.2 213.9 213.0	146,000 143,300 136,600 115,500
1	45 50 55	70.9 68.1 65.3 62.4 59.4	110.9 109.1 106.9 104.5 101.7	120,100 104,200 91,800		30 32 34 36	80.0 79.2 78.5 77.7	154.7 154.4 154.0 153.5	210,300 191,600 175,400 161,600	1	70 75 80	68.5 66.8 65.0 63.3	176.3 174.5 172.4 170.2 167.7	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	99,600 87,100 77,100 68,800
U	70 75 80 85	56.3 53.1 49.8 46.3	98.58 95.0 91.0 86.5	81,800 73,600 66,800 60,900 55,900		40 45 50 55	76.9 76.1 74.1 72.1 70.1	153.1 152.6 151.3 149.8 148.1	149,600 139,200 118,200 102,400 89,900	8	95 100 105	59.6 57.8 55.9	165.1 162.3 159.3	44,300 40,900 37,900 35,200 32,700		80 85 90	71.7 70.2 68.8 67.3 65.8	206.4 204.6 202.8 200.7	51,000 56,100 51,000 46,700 42,800
	95 100	42.6 38.6 34.2 29.2	81.4 75.6 68.8 60.7	51,600 47,800	1 5	60 65 70 75 80	68.1 66.0 63.9 61.7 59.6	146.2 144.0 141.7 139.1 136.3	79,900 71,700 64,800 59,000 53,900		110	53.9 51.9 49.9 47.8	156.0 152.5 148.7	30,500	2	100 105 110	64.3 62.8	198.6 196.3 193.8	39,400 36,400 33,700 31,300
	105 110 22 24 26 28	23.3 15.5 81.4 80.4	50.6 36.4 125.6 125.3	41,400 38,700 33,900 285,000 271,700	0	85 90 95 100	57.3 55.0 52.7 50.2	133.2 129.9 126.2 122.3	49,600 45,700 42,400 39,400		125 130 135 140	45.6 43.3 40.9	140.3 135.5 130.4 124.9	28,500 26,700 25,000 23,500 22,000	$\begin{vmatrix} 1 \\ 0 \end{vmatrix}$	115 120 125	59.7 58.1 56.5 54.8	188.3 185.3 182.1 178.6	29,100 27,100 25,200 23,500
1	26 28 30 32 34	79.4 78.5 77.5	125.0 124.6 124.1	259,800 235,300 212,100		105 110 115 120	47.7 45.0 42.3 39.3	117.9 113.1 107.9 102.1	36,700 34,200 32,000 30,000		150 155 160 165	38.4 35.8 33.0 29.9 26.6	112.3 105.0 96.8 87.5	19,500 18,300 17,200 16,200		130 135 140 145 150	51.4 49.6 47.8 46.0	171.1 167.0 162.6 157.9	22,000 20,600 19,200 18,000
1	36 38 40	75.5 74.5 73.5 72.5	123.2 122.7 122.1 121.5	176,600 162,800 150,900 140,500		125 130 135 140	36.2 32.9 29.2 25.0 19.9	95.7 88.4 80.1 70.3 58.2	28,200 26,500 25,000 23,500 22,200		170 175 32 34	22.7 18.2 81.5 80.9	76.6 63.2 194.9 194.6	15,300 13,500 171,000 166,100		155 160 165 170 175	44.0 42.0 39.9 37.8 35.5	152.9 147.6 141.8 135.6 128.9	16,800 15,800 14,800 13,800 12,900
0	45 50 55 60 65	70.0 67.5 64.8 62.2 59.4	119.8 117.8 115.6 113.1 110.3	119,500 103,700 91,300 81,300 73,100		28 30 32 34	81.4 80.6 79.9	165.2 164.9 164.5 164.2	208,500 203,500 191,100 174,900		36 38 40 45	80.3 79.7 79.1 77.5 76.0	194.3 193.9 193.6 192.5 191.3	166,100 159,800 147,900 137,400 116,400 100,500		180 185 190 195 200	33.1 30.5 27.7 24.6 21.0	121.6 113.5 104.5 94.3 82.4	12,100 11,300 10,600 9,900 8,800
	70 75 80 85 90	56.6 53.7 50.7 47.5 44.2	107.2 103.7 99.9 95.5 90.7	66,200 60,400 55,300 51,000 47,200		36 38 40 45	79.2 78.5 77.7 77.0 75.2	163.8 163.3 162.9 161.7	161,000 149,100 138,700 117,700		50 55 60 65 70	74.4 72.9 71.3	190.0 188.6 186.9	88,000 78,000 69,700		38 40 45	81.1 80.6 79.3	224.4 224.0 223.1	6,500 135,900 133,400 115,000
	95 100 105 110	40.7 36.9 32.7 28.0	85.2 79.0 71.8 63.2	43,800 40,800 38,100 35,700 33,500	1	50 55 60 65 70	73.3 71.4 69.5 67.6	160.2 158.7 156.9 154.9	79,300 71,100	1	75 80 85 90	68.1 66.4 64.8 63.1	185.2 183.2 181.1 178.9 176.4	62,800 57,000 52,000 47,600 43,800		50 55 60 65	77.9 76.6 75.3 73.9 72.5 71.2	222.1 221.0 219.8 218.4	99,100 86,600 76,600 68,300
	24 26 28 30 32	81.2 80.3 79.4 78.5	52.6 135.5 135.1 134.8 134.4	260,000 248,600 234,700 211,800	6	70 75 80 85 90	65.6 63.7 61.6	152.8 150.4 147.8 145.0 141.9	64,200 58,400 53,300 49,000 45,100	9	95 100 105 110 115	61.4 59.7 57.9 56.1 54.3	173.8 171.0 167.9 164.7 161.2	40,400 37,400 34,700 32,200 30,000		70 75 80 85	69.8 69.4	216.9 215.2 213.5 211.5 209.5	55,500 50,500 46,100
	34 36 38	77.6 76.7 75.7 74.8	133.9 133.5 133.0	192,500 176,300 162,500		100 105	57.5 55.3 53.1 50.9 48.5	138.6 135.0 131.1	41,800 38,700 36,000 33,600		120 125 130 135 140	52.4 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	90 95 100 105	67.0 65.6 64.1 62.7	209.5 207.3 204.9 202.4	42,300 38,900 35,800 33,100 30,700
1 3	40 45	73.9 71.6 69.3 66.9	132.5 131.9 130.4 128.6 126.6	150,600 140,200 119,300 103,400 91,000		115 120 125 130	46.1 43.5 40.9 38.0	122.2 117.2 111.7 105.6	31,400 29,400 27,600 25,900		145 150 155 160	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	115 120 125 130	62.2 59.7 58.2 56.6 55.1	196.9 193.9 190.7 187.3	28,500 26,500 24,600 23,000
0	50 55 60 65 70	64.5 62.0 59.5	124.3 121.8 119.0	91,000 81,000 72,800 65,900		135 140 145 150 155	35.0 31.8 28.2 24.1 19.3	98.9 91.3 82.6 72.5 59.9	24,300 22,900 21,600 20,400 19,200		170 175 180 185	32.1 29.1 25.8 22.1 17.7	99.4 89.8 78.6 64.8	14,800 13,900 13,100		135 140 145 150 155	53.5 51.8 50.1 48.4 46.7	183.7 179.9 175.9 171.6 167.0	21,400 20,000 18,600 17,400 16,300
	75 80 85 90 95	56.9 54.2 51.5 48.6 45.6	112.5 108.7 104.5 9.8	55,000 50,700 46,800 43,500		30 32 34 36 38	81.2 80.5 79.8 79.2 78.5	175.0 174.7 174.3 174.0	192,600 188,400 174,600 160,800 148,800		34 36 38 40 45	81.4 80.8 80.2	204.7 204.4 204.1 203.7 202.8	157,200 153,500 147,400		160 165 170 175 180	44.8 43.0 41.0 39.0 36.9	162.1 156.9 151.4 145.4	15,200 14,200 13,200 12,300
	105 110 115 120 125	39.0 35.4 31.4 26.8 21.4	94.7 88.8 82.3 74.7 65.7 54.5	37,800 35,300 33,100 31,100 29,300		40 45 50 55 60	77.8 76.0 74.3 72.5 70.8	173.6 173.1 172.0 170.7 169.2	138,400 117,400 101,500 89,100 79,000		50 55 60	79.6 78.2 76.7 75.2 73.7	203.7 202.8 201.6 200.4 199.0	136,900 115,900 100,000 87,500 77,400		185 190 195	34.6 32.3 29.8 27.0	139.0 132.1 124.5 116.2	11,500 10,700 10,000 9,300 8,600 8,000
	26 28 30 32 34	81.0 80.1 79.3 78.5	145.3 144.9 144.6	239,700 230,800 211,300 192,100		65 70 75 80 85	69.0 67.2 65.3	169.2 167.5 165.7 163.7 161.5	70,800 63,900 58,100	2	70	72.2 70.7 69.2 67.7	197.5 195.8 194.0 192.0	69,200 62,300 56,400 51,400		200 205 210	24.0 20.6	106.9 96.4 84.2	8,000 6,500
1	36 38 40 45 50	77.6 76.8 75.9 75.1 73.0	144.2 143.7 143.5 142.8 142.3	162,000 150,100	7	90 95	63.4 61.5	159.1 156.5 153.6 150.6	53,000 48,700	0	75 80 85 90 95	66.1 64.5 62.9	189.9 187.6 185.1	47,000 43,200 39,800 36,800					
4		70.8 68.6 66.4	140.9 139.2 137.4 135.3 133.0	90,400 80,400 72,200 65,300	0	100 105 110	59.6 57.6 55.6 53.6 51.4 49.2 47.0	147.3 143.7 139.9	41,500 38,500 35,800 33,300 31,100	0	105 110 115 120	61.3 59.7 58.0 56.3 54.5	179.6 176.6 173.4 169.9	34,100 31,600 29,400 27,400	CAP		TES C		INUED E
	55 60 65 70 75 80 85	64.2 61.9 59.5 57.1 54.6	130.5 127.7	59,500		115 120 125 130 135	44.6 42.2 39.6	131.3 126.4 121.1 115.3	31,100 29,100 27,300 25,600 24,100		125 130 135 140 145	52.8 50.9 49.1 47.2 45.2	166.2 162.3 158.1 153.6 148.8	25,600 23,900 22,300 20,900 19,600			rts are in		
	90 95 100	52.1 49.5 46.7	124.6 121.2 117.5 113.4 108.9	54,400 50,100 46,200 42,900 39,900		140 145 150 155 160 165	36.9 34.0 30.8 27.3 23.4 18.7	109.0 102.0 94.1 85.1 74.6 61.6	22,600 21,300 20,100 18,900 17,800 16,400		150 155 160 165 170	43.1 41.0 38.7 36.4 33.9	143.7 138.1 132.2 125.7 118.6	18,300 17,200 16,100 15,100 14,200	derived information	from mation wh	anufactuich may	rer sales	
© MANI	TOWC I	977				103	10./	01.0	10,400		170	33.9	0.011	14,200	r) hogi	pinear t			

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

# SEE CONDITIONS ON FRONT PAGE

BOOM	OPER.	BOOM	BOOM	CAPACTTY:	BOO
LGTH FEET	RAD. FEET	ANG DEG.	POINT ELEV.	CRAWLERS EXTENDED	LGT 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	5 0
	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	6
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	0
	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	

2001	0.000	2001	2221	
BOOM	OPER.	BOOM	BOOM	CAPACITY:
LGTH	RAD.	ANG	POINT	CRAWLERS
FEET	FEET	DEG.	ELEV.	EXTENDED
	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
	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 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	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
7	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
0	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
	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	OPER.	BOOM	BOOM	CAPACTTY:
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	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
	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
1017	75	30.1	44.4	62,500
	80	21.0	32.7	53,900

		LENG.	IUSLI	FIEDUN	•				
	OVE	RFRONT	OF	OVE	S				
	BLOCKE	DCRAW	LERS	EXTENDE	D				
	BOOM	]	IB	BOOM					
	LENGII	I NO	0.123	LENGIH					
	260'			260'					
	250'			250'					
	240'		10'	240'					
	230'		50'	230'					
	Load	Block	c, hoo	k and we	ej				
		FOR J	B CAI	PACITIES	, '				
OOM		BOOM	BOOM	CAPACITY:					
GTH EET	RAD. FEET	ANG DEG.	POINT ELEV.	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					
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					
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					
	60	53.7	77.7	82,900					

ight ball on ground at start. CONSULT JIB CHART. BOOM OPER. BOOM BOOM CAPACITY: LGTH RAD. ANG POINT CRAWLERS FEET FEET DEG. ELEV EXTENDED 20 22 24 26 28 81.5 80.4 79.2 78.0 248,700 240,100 232,100 224,800 76.8 75.7 74.5 73.3 72.0 212,900 193,700 177,500 30 32 34 36 38 103.2 102.6 102.0 101.3 1 0 100.. 98.. 96.0 93.3 90.1 70.8 67.7 64.6 61.3 57.9 141,400 120,500 104,700 92,300 82,300 40 45 50 55 60 0 54.4 50.7 46.8 42.6 38.0 86.5 82.4 77.7 72.3 66.0 74,100 67,200 70 75 80 61,400 56,400 52,000

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.

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

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)

	MAXIMU NGTHSL	DEDUCTROM CAPACTIESWHENJI				
OVERH BLOCKED		OVERSI EXTENDEDO	DEOF		TCHED	
BOOM	JIB	BOOM	JIB	JIB	JB	
LENGIH	NO.123	LENGIH	NO.123	LENGIH	NO.123	
260'		260'			3,000 lbs.	
250'		250'			3,600 lbs.	
240'	40'	240'	40'	50' 4	1,200 lbs.	
230'	60'	230'	60'	60' 4	1,900 lbs.	

## SEE CONDITIONS ON REVERSE SIDE

BOOM LGTH FEET	OPER. RAD. FEET	BOOM ANG DEG.	BOOM POINT ELEV.	CAPACTIY: CRAWLERS EXTENDED	BOOM LGTH FEET	OPER. RAD. FEET	BOOM ANG DEG.	BOO POIN ELE
	22 24 26 28 30	82.3 81.3 80.2 79.1 78.1	115.7 115.4 115.0 114.6 114.1	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	104. 98. 92. 85. 77.
	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	68 57
1 1	40					28 30 32 34 36	82.1 81.3 80.5 79.7 79.0	155 154 154 154 153
0	45 50 55 60 65	69.9 67.0 64.1 61.2 58.1 54.9 51.6	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	153 152 151 150
	70 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	71.4 69.4 67.3 65.2 63.0 60.9	146 144 141
	95 100 105 110	36.1 31.1 25.3 17.6	69.2 61.1 51.1 37.2	44,400 41,400 38,700 33,900	5	85 90		
	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		100 105	58.6 56.3 54.0 51.5 49.0	133 130 126 122 118
	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	108 102 96 88
1 2	40 45 50	71.6	120.0 118.1 115.9 113.4			135 140 145	30.5 26.4 21.4	80 70 58
0	50 55 60 65	69.1 66.5 63.8 61.1	115.9 113.4 110.6 107.5 104.0	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	165 164 164 164
	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	163 163 161 160 158
	100 105 110 115	42.4 38.6 34.4 29.7 24.1	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	157 155 153 150
	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	6	85 90 95 100	62.9 60.8 58.7 56.6 54.4 52.1	148 145 142 138 135 131
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	49.7 47.3 44.8 42.1 39.3	131 127 122 117 112 105
3	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		135 140 145	36.3 33.1 29.5	_
0	76			65,900 60,000 55,000		150	25.5	99 91 83 72 60
	80 85 90 95	58.4 55.7 53.0 50.1 47.1	116.1 112.7 108.9 104.8 100.1	60,000 55,000 50,700 46,800 43,500		30 32 34 36 38	82.3 81.6 81.0 80.3 79.6	175 174 174 174 173
	100 105 110 115 120 125	43.9 40.6 36.9 33.0 28.5 23.1	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	173 172 170 169 167
	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	165 163 161 159 156
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	153 150 147 144 140
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	136 131 126 121 115
	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	38.1 35.2 32.0 28.6 24.7	109 102 94 85 75 62
© MANI	TOWC 1	077			l	165	20.0	62

BOOM	OPER.	BOOM	BOOM	CAPACITY:
LGTH	RAD.	ANG	POINT	CRAWLERS
FEET	FEET	DEG.	ELEV.	EXTENDED
1 4	105 110 115 120 125	45.3 42.2 39.0 35.5 31.7	104.2 98.8 92.7 85.7 77.8	37,200 34,700 32,500 30,500 28,700
0	130	27.4	68.5	27,000
	135	22.2	57.0	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	78.9	163.6	149,100
	40	78.2	163.1	138,700
	45	76.3	161.9	117,700
	50	74.5	160.5	101,800
	55	72.6	158.9	89,300
1 6	60	70.7	157.1	79,300
	65	68.8	155.1	71,100
	70	66.8	153.0	64,200
	75	64.9	150.6	58,400
	80	62.9	148.0	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	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.		166.5	25,600
	130 51.		162.6	23,900
	135 50.		158.4	22,300
	140 48.		153.9	20,900
	145 46.		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

RAD.	ANG	POINT	CRAWLERS
FEET	DEG.	ELEV.	EXTENDED
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	78.3	214.7	134,200
38		214.4	131,000
40		214.1	127,900
45		213.2	115,500
50		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
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
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
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
110	62.1		30,700
115	60.6		28,500
120	59.1		26,500
125	57.5		24,600
130	55.9		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
	### TECH   TECH	FEFI   DEG   175   32.3   32.3   180   29.4   185   26.2   190   22.6   195   18.4   36   82.1   36   81.0   40   81.0   45   79.6   50   78.3   55   76.9   66.7   74.0   72.6   65.7   74.0   77.2   66.7   71.2   80   69.7   69.5   66.7   71.2   80   69.7   72.6   65.7   100   63.7   105   62.2   110   60.6   115   59.0   120   57.4   145   48.8   150   46.9   170   38.7   175   36.5   180   34.0   185   31.5   170   38.7   175   36.5   180   34.0   185   31.5   170   38.7   175   36.5   31.5   77.5   60   76.1   73.4   70.7   73.4   73.5	FEET   DEG.   ELEV.     175   32.3   111.1     180   29.4   102.4     185   26.2   92.5     190   22.6   81.0     195   18.4   67.0     36   82.1   214.7     38   81.6   214.4     40   81.0   214.1     45   79.6   210.9     65   74.0   208.1     70   72.6   206.6     70   72.6   206.6     70   72.6   206.6     70   72.6   206.8     80   69.7   203.0     80   68.2   201.0     90   66.7   71.2   204.8     80   69.7   203.0     90   66.7   196.8     95   63.2   196.5     105   62.2   191.3     110   60.6   188.5     120   57.4   182.3     125   55.7   178.9     130   54.1   175.2     135   54.3   171.4     140   50.6   167.3     145   48.8   162.9     150   46.9   158.2     151   45.0   153.2     165   40.9   147.9     170   38.7   135.9     170   38.7   135.9     170   38.7   135.9     170   38.7   135.9     170   38.7   135.9     170   38.7   135.9     170   73.4   217.1     200   22.1   220.0     205   17.9   68.5     38   82.0   224.6     40   81.4   224.2     45   80.1   223.3     50   78.8   222.3     55   77.5   221.2     60   76.1   220.0     10   62.1   200.0     10   63.6   202.7     110   62.1   200.0     120   59.5   194.0     130   55.9   187.6     131   57.7   180   37.8   139.3

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

BOOM LGTH FEET	OPER. RAD. FEET	BOOM ANG DEG.	BOOM POINT ELEV.	CAPACITY: CRAWLERS EXTENDED	
, , ,	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	
	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	
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	
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	
	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	
	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	
	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 6,800	
	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	111,700 106,300 98,100 85,600 75,600	
	65 70 75 80 85	76.1 74.8 73.6 72.3 71.1	239.3 237.9 236.5 234.8 233.1	67,300 60,400 54,500 49,500 45,100	
	90 95 100 105 110	69.8 68.5 67.2 65.9 64.6	231.3 229.3 227.2 224.9 222.5	41,200 37,800 34,800 32,100 29,700	
2 4	115 120 125 130 135	63.3 61.9 60.5 59.1 57.7	220.0 217.3 214.5 211.5 208.3	27,400 25,400 23,600 21,900 20,300	
0	140 145 150 155 160	56.3 54.8 53.3 51.8 50.3	205.0 201.4 197.7 193.8 189.6	18,900 17,600 16,300 15,200 14,100	
	165 170 175 180 185	48.7 47.1 45.4 43.7 41.9	185.2 180.6 175.7 170.4 164.9	13,100 12,200 11,300 10,400 9,600	
	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	

BOOM	OPER.	BOOM	BOOM	CAPACITY:
LGTH	RAD.	ANG	POINT	CRAWLERS
FEET	FEET	DEG.	ELEV.	EXTENDED
	45 50 55 60 65	81.3 80.2 79.0 77.8 76.6	253.8 252.9 251.9 250.8 249.6	101,500 96,900 85,200 75,200 66,900
	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
2	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
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	25,000 23,200 21,500 20,000 18,500
	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
	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
	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
	45	81.7	263.9	96,500
	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
	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
	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
2	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
0	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
	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
	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

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 RADIUS
	FEET	110	120	130	140	150	160	170	180	190	200	210	220	230	240	FEET
ı	90+	40000	40000	40000	40000	40000	40000	40000	40000	40000	40000	40000	40000	40000	40000	90+
- 1	95	40000	40000	40000	40000	40000	40000	40000	40000	40000	39500	39100	38600	38000	37500	95
٦	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
1	140			24400	23800	23200	22600	22200	21600	21000	20400	20000	19400	18900	18400	140
1	150		- 1		21200	20600	20000	19600	19000	18500	17800	17400	16900	16300	15800	150
-1	160		- 1			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
1	190									11000	10300	9900	9300	8800	8200	190
-	200		- 1								8900	8600	8000	7400	6600	200
_	210											7300	6600	5800	5100	210
	JIB POINT							TTIES I								JIB POINT
	RADIUS FEET	110	120	130	140	150	160	170	180	190	200	210	220	230	240	RADIUS FEET
ı	105+	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	105+
, I	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
1	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
١.	150			22200	21500	21000	20300	20000	19300	18800	18200	17800	17200	16600	16100	150
١	160				19300	18700	18100	17700	17100	16500	15900	15500	14900	14400	13800	160
١	170						16100	15700	15100	14600	13900	13500	12900	12400	11800	170
١	180		- 1					14000	13400	12800	12200	11800	11200	10600	10100	180
١	190								11800	11300	10600	10200	9600	9100	8500	190
	200									9900	9300	8900	8300	7700	7000	200
$\dashv$	JIB	Spirotra Sp					CABAC	TTIECT	NI BOUN	me	8000	7600	7000	6200	5400	JIB
١															POINT	
١	POINT															
	POINT RADIUS	110	120	130	140	150	160	170	180	190	200	210	220	230	212111703111192	
	POINT RADIUS FEET	110	120 20000	130	20000	20000	20000	20000	20000	20000	20000	20000	220	230		FEET
	POINT RADIUS FEET 135+	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	2.3	135+
are.	POINT RADIUS FEET 135+ 140		20000 20000	20000 20000	20000 20000	20000 20000	20000 20000	20000 20000	20000 20000	20000 20000	20000 20000	20000 20000	20000 20000	20000 20000		135+ 140
	POINT RADIUS FEET 135+ 140 145	20000	20000 20000 20000	20000 20000 20000	20000 20000 20000	20000 20000 20000	20000 20000 20000	20000 20000 20000	20000 20000 20000	20000 20000 20000	20000 20000 19600	20000 20000 19200	20000 20000 18600	20000 20000 18100		135+ 140 145
are roc	POINT RADIUS FEET 135+ 140 145 150	20000	20000 20000	20000 20000 20000 20000	20000 20000 20000 20000	20000 20000 20000 20000	20000 20000 20000 20000	20000 20000 20000 20000	20000 20000 20000 19600	20000 20000 20000 19000	20000 20000 19600 18400	20000 20000 19200 18000	20000 20000 18600 17400	20000 20000 18100 16800		135+ 140 145 150
	POINT RADIUS HEET 135+ 140 145 150	20000	20000 20000 20000	20000 20000 20000 20000 20000	20000 20000 20000 20000 20000	20000 20000 20000 20000 20000	20000 20000 20000 20000 19400	20000 20000 20000 20000 19000	20000 20000 20000 19600 18400	20000 20000 20000 19000 17800	20000 20000 19600 18400 17200	20000 20000 19200 18000	20000 20000 18600 17400 16200	20000 20000 18100 16800 15700		135+ 140 145 150
1001	POINT RADIUS FEET 135+ 140 145 150	20000	20000 20000 20000	20000 20000 20000 20000	20000 20000 20000 20000 20000 19500	20000 20000 20000 20000 20000 19000	20000 20000 20000 20000 19400 18300	20000 20000 20000 20000 19000 17900	20000 20000 20000 19600 18400 17300	20000 20000 20000 19000 17800 16800	20000 20000 19600 18400 17200 16100	20000 20000 19200 18000 16800 15700	20000 20000 18600 17400 16200 15100	20000 20000 18100 16800 15700 14600		135+ 140 145 150 155 160
1001	POINT RADIUS FHET 135+ 140 145 150 155 160 170	20000	20000 20000 20000	20000 20000 20000 20000 20000	20000 20000 20000 20000 20000 19500	20000 20000 20000 20000 20000	20000 20000 20000 20000 19400 18300 16400	20000 20000 20000 20000 19000 17900 16000	20000 20000 20000 19600 18400 17300 15300	20000 20000 20000 19000 17800 16800 14800	20000 20000 19600 18400 17200 16100 14200	20000 20000 19200 18000 16800 15700 13800	20000 20000 18600 17400 16200 15100 13200	20000 20000 18100 16800 15700 14600 12600		135+ 140 145 150 155 160 170
SULCOI JID	POINT RADIUS FEET 135+ 140 145 150 155 160	20000	20000 20000 20000	20000 20000 20000 20000 20000	20000 20000 20000 20000 20000 19500	20000 20000 20000 20000 20000 19000	20000 20000 20000 20000 19400 18300 16400	20000 20000 20000 20000 19000 17900 16000 14200	20000 20000 20000 19600 18400 17300 15300 13600	20000 20000 20000 19000 17800 16800 14800 13000	20000 20000 19600 18400 17200 16100 14200 12400	20000 20000 19200 18000 16800 15700 13800 12000	20000 20000 18600 17400 16200 15100 13200 11400	20000 20000 18100 16800 15700 14600 12600 10900		135+ 140 145 150 155 160 170 180
1001	POINT RADIUS FEET 135+ 140 145 150 155 160 170 180	20000	20000 20000 20000	20000 20000 20000 20000 20000	20000 20000 20000 20000 20000 19500	20000 20000 20000 20000 20000 19000	20000 20000 20000 20000 19400 18300 16400	20000 20000 20000 20000 19000 17900 16000	20000 20000 20000 19600 18400 17300 15300 13600	20000 20000 20000 19000 17800 16800 14800	20000 20000 19600 18400 17200 16100 14200 12400 10900	20000 20000 19200 18000 16800 15700 13800 12000	20000 20000 18600 17400 16200 15100 13200 11400 9900	20000 20000 18100 16800 15700 14600 12600 10900 9300		135+ 140 145 150 155 160 170 180
1001	POINT RADIUS FEET 135+ 140 145 150 155 160 170 180 190	20000	20000 20000 20000	20000 20000 20000 20000 20000	20000 20000 20000 20000 20000 19500	20000 20000 20000 20000 20000 19000	20000 20000 20000 20000 19400 18300 16400	20000 20000 20000 20000 19000 17900 16000 14200	20000 20000 20000 19600 18400 17300 15300 13600	20000 20000 20000 19000 17800 16800 14800 13000 11500 10100	20000 20000 19600 18400 17200 16100 14200 12400 10900 9500	20000 20000 19200 18000 16800 15700 13800 12000 10500 9100	20000 20000 18600 17400 16200 15100 13200 11400 9900 8500	20000 20000 18100 16800 15700 14600 12600 10900 9300 7900		FEET   135+
1001	POINT RADIUS FEET 135+ 140 145 150 155 160 170 180 190 200	20000	20000 20000 20000	20000 20000 20000 20000 20000	20000 20000 20000 20000 20000 19500	20000 20000 20000 20000 20000 19000	20000 20000 20000 20000 19400 18300 16400	20000 20000 20000 20000 19000 17900 16000 14200	20000 20000 20000 19600 18400 17300 15300 13600	20000 20000 20000 19000 17800 16800 14800 13000	20000 20000 19600 18400 17200 16100 14200 12400 10900	20000 20000 19200 18000 16800 15700 13800 12000	20000 20000 18600 17400 16200 15100 13200 11400 9900	20000 20000 18100 16800 15700 14600 12600 10900 9300		135+ 140 145 150 155 160 170 180
	POINT RADIUS FEET 135+ 140 145 150 155 160 170 180 190 200 210 220	20000	20000 20000 20000	20000 20000 20000 20000 20000	20000 20000 20000 20000 20000 19500	20000 20000 20000 20000 20000 19000	20000 20000 20000 20000 19400 18300 16400 14600	20000 20000 20000 20000 19000 17900 16000 14200	20000 20000 20000 19600 18400 17300 15300 13600 12100 10700	20000 20000 20000 19000 17800 16800 14800 13000 11500 10100 8900	20000 20000 19600 18400 17200 16100 14200 12400 10900 9500 8200	20000 20000 19200 18000 16800 15700 13800 12000 10500 9100 7800	20000 20000 18600 17400 16200 15100 13200 11400 9900 8500 7200	20000 20000 18100 16800 15700 14600 12600 10900 9300 7900 6500	S-996 No. 20.	135+ 140 145 150 155 160 170 180 190 200 210 220
	POINT RADIUS FEET 135+ 140 145 150 155 160 170 180 190 200 210	20000	20000 20000 20000	20000 20000 20000 20000 20000	20000 20000 20000 20000 20000 19500	20000 20000 20000 20000 20000 19000	20000 20000 20000 20000 19400 18300 16400 14600	20000 20000 20000 20000 19000 17900 16000 14200 12700	20000 20000 20000 19600 18400 17300 15300 12100 10700	20000 20000 20000 19000 17800 16800 14800 13000 11500 10100 8900	20000 20000 19600 18400 17200 16100 14200 12400 10900 9500 8200	20000 20000 19200 18000 16800 15700 13800 12000 10500 9100 7800	20000 20000 18600 17400 16200 15100 13200 11400 9900 8500 7200	20000 20000 18100 16800 15700 14600 12600 10900 9300 7900 6500		FEET  135+ 140 145 150 155 160 170 180 190 200 210 220 JIB
	POINT RADIUS FEET  135+ 140 145 150 155 160 170 180 190 200 210 220 JIB POINT RADIUS	20000	20000 20000 20000 20000	20000 20000 20000 20000 20000 20000	20000 20000 20000 20000 20000 19500 17600	20000 20000 20000 20000 20000 19000 17000	20000 20000 20000 20000 19400 18300 16400 14600	20000 20000 20000 20000 19000 17900 14200 12700 CITIES I MLENG	20000 20000 20000 19600 18400 17300 13600 12100 10700 N POUN TH-FEE	20000 20000 20000 19000 17800 16800 13000 11500 10100 8900	20000 20000 19600 18400 17200 16100 14200 12400 10900 9500 8200 7100	20000 20000 19200 18000 16800 15700 13800 12000 10500 9100 7800 6700	20000 20000 18600 17400 16200 15100 13200 11400 9900 8500 7200 5900	20000 20000 18100 16800 15700 14600 12600 10900 9300 7900 6500 5100		TEET   135+
1001	POINT RADIUS FEET  135+ 140 145 150 155 160 170 180 190 200 210 220 JIB POINT	20000	20000 20000 20000	20000 20000 20000 20000 20000	20000 20000 20000 20000 20000 19500	20000 20000 20000 20000 20000 19000	20000 20000 20000 20000 19400 18300 16400 14600	20000 20000 20000 20000 19000 17900 16000 14200 12700	20000 20000 20000 19600 18400 17300 15300 12100 10700	20000 20000 20000 19000 17800 16800 14800 13000 11500 10100 8900	20000 20000 19600 18400 17200 16100 14200 12400 10900 9500 8200	20000 20000 19200 18000 16800 15700 13800 12000 10500 9100 7800	20000 20000 18600 17400 16200 15100 13200 11400 9900 8500 7200	20000 20000 18100 16800 15700 14600 12600 10900 9300 7900 6500		TEET   135+
100102	POINT RADIUS FEET  135+ 140 145 150 155 160 170 180 190 200 210 220 JIB POINT RADIUS	20000	20000 20000 20000 20000	20000 20000 20000 20000 20000 20000	20000 20000 20000 20000 20000 19500 17600	20000 20000 20000 20000 20000 19000 17000	20000 20000 20000 20000 19400 18300 16400 14600	20000 20000 20000 20000 19000 17900 14200 12700 CITIES I MLENG	20000 20000 20000 19600 18400 17300 13600 12100 10700 N POUN TH-FEE	20000 20000 20000 19000 17800 16800 13000 11500 10100 8900	20000 20000 19600 18400 17200 16100 14200 12400 10900 9500 8200 7100	20000 20000 19200 18000 16800 15700 13800 12000 10500 9100 7800 6700	20000 20000 18600 17400 16200 15100 13200 11400 9900 8500 7200 5900	20000 20000 18100 16800 15700 14600 12600 10900 9300 7900 6500 5100		135+ 140 145 150 155 160 170 180 190 200 210 220 JIB POINT RADIUS
100102	POINT RADIUS FEET  135+ 140 145 150 155 160 170 180 190 200 210 220 JIB POINT RADIUS FEET	20000 20000	20000 20000 20000 20000 20000	20000 20000 20000 20000 20000 20000 20000	20000 20000 20000 20000 20000 19500 17600	20000 20000 20000 20000 20000 19000 17000	20000 20000 20000 20000 19400 18300 16400 14600 CAPAC BOOM	20000 20000 20000 20000 19000 17900 14200 12700 CITIES I MLENG	20000 20000 20000 19600 18400 17300 15300 12100 10700 N POUN TH-FEE 180	20000 20000 20000 19000 17800 16800 14800 13000 11500 10100 8900 DS	20000 20000 19600 18400 17200 16100 14200 12400 10900 9500 8200 7100	20000 20000 19200 18000 16800 15700 13800 12000 10500 9100 7800 6700	20000 20000 18600 17400 16200 15100 13200 9900 8500 7200 5900 220	20000 20000 18100 16800 15700 14600 12600 10900 9300 7900 6500 5100		FEET  135+ 140 145 150 155 160 170 180 190 200 210 220 JIB POINT RADIUS FEET
100102	POINT RADIUS FEET 135+ 140 145 150 155 160 170 220 210 220 JIB POINT RADIUS FEET 155 160 160	20000 20000	20000 20000 20000 20000 20000 120 120	20000 20000 20000 20000 20000 20000 20000 130 130	20000 20000 20000 20000 20000 19500 17600 140	20000 20000 20000 20000 20000 19000 17000 150 150	20000 20000 20000 20000 19400 18300 16400 14600 CAPAC BOOM	20000 20000 20000 20000 19000 17900 14200 12700 CITIES I MLENG 170	20000 20000 20000 19600 18400 17300 15300 12100 10700 N POUN TH-FEE 180	20000 20000 20000 19000 17800 16800 14800 13000 11500 10100 8900 10DS ET	20000 20000 19600 18400 17200 16100 14200 12400 10900 9500 8200 7100	20000 20000 19200 18000 16800 15700 13800 12000 9100 7800 6700 210	20000 20000 18600 17400 16200 15100 13200 11400 9900 8500 7200 5900	20000 20000 18100 16800 15700 14600 12600 10900 9300 7900 6500 5100		FEET  135+ 140 145 150 155 160 170 180 190 200 210 220 JIB POINT RADIUS FEET 150+
TOTAL STREET	POINT RADIUS FEET 135+ 140 145 150 155 160 170 180 190 220 JIB POINT RADIUS FEET 150+ 155	20000 20000	20000 20000 20000 20000 20000 10000	20000 20000 20000 20000 20000 20000 20000 130 10000 10000	20000 20000 20000 20000 20000 19500 17600 140 10000 10000	20000 20000 20000 20000 19000 17000 150 10000 10000	20000 20000 20000 20000 19400 18300 14600 CAPAC BOOM 160 10000	20000 20000 20000 20000 19000 17900 16000 14200 12700 TTTES I MLENG 10000 10000	20000 20000 20000 19600 18400 17300 15300 12100 10700 N POUN TH-FEE 180 10000 10000	20000 20000 20000 19000 17800 16800 14800 13000 10100 8900 1008 Tr 190 10000 10000	20000 20000 19600 18400 17200 16100 14200 12400 10900 9500 8200 7100 200 10000 10000	20000 20000 19200 18000 16800 15700 13800 12000 9100 7800 6700 210 10000 10000	20000 20000 18600 17400 16200 15100 13200 9900 8500 7200 5900 220 10000 10000	20000 20000 18100 16800 15700 14600 12600 9300 7900 6500 5100 230 10000 10000		FEET  135+ 140 145 150 155 160 170 180 190 200 210 220 JIB POINT RADIUS FEET 150+ 155
TOTAL STREET	POINT RADIUS FEET 135+ 140 145 150 155 160 170 220 210 220 JIB POINT RADIUS FEET 150+ 155 160 170	20000 20000	20000 20000 20000 20000 20000 10000	20000 20000 20000 20000 20000 20000 20000 20000 10000 10000 10000	20000 20000 20000 20000 20000 19500 17600 10000 10000 10000	20000 20000 20000 20000 19000 17000 150 10000 10000 10000	20000 20000 20000 20000 19400 18300 16400 14600 CAPAG BOON 160 10000 10000 10000	20000 20000 20000 20000 19000 17900 16000 12700 TTHES I MLENG 10000 10000 10000	20000 20000 20000 19600 18400 17300 15300 12100 10700 N POUN TH-FEE 180 10000 10000 10000	20000 20000 20000 19000 17800 16800 14800 11500 10100 8900 iDS TT 190 10000 10000 10000 10000	20000 20000 19600 18400 17200 16100 14200 12400 9500 8200 7100 200 10000 10000 10000	20000 20000 19200 18000 16800 15700 13800 10500 9100 7800 6700 210 10000 10000 10000 10000	20000 20000 18600 17400 15100 13200 11400 9900 8500 7200 5900 220 10000 10000 10000	20000 20000 18100 16800 15700 14600 12600 10900 7900 6500 5100 230 10000 10000 10000 10000		135+ 140 145 150 155 160 170 180 190 200 210 220 JIB POINT RADIUS FEET 150+ 155 160 170
TOTAL STREET	POINT RADIUS FEET 135+ 140 145 150 155 160 170 220 210 220 JIB POINT RADIUS FEET 155 160 160	20000 20000	20000 20000 20000 20000 20000 10000	20000 20000 20000 20000 20000 20000 20000 20000 10000 10000 10000	20000 20000 20000 20000 20000 19500 17600 10000 10000 10000 10000	20000 20000 20000 20000 19000 17000 17000 150 10000 10000 10000	20000 20000 20000 20000 19400 18300 16400 14600 CAPAC BOON 160 10000 10000	20000 20000 20000 19000 17900 16000 14200 12700 <b>Tries I</b> 10000 10000 10000 10000	20000 20000 20000 19600 18400 17300 12100 10700 N POUN TH-FEE 180 10000 10000 10000 10000	20000 20000 20000 19000 17800 16800 14800 11500 10100 8900 iDS ET 190 10000 10000 10000 10000	20000 20000 19600 18400 17200 16100 14200 12400 9500 8200 7100 200 10000 10000 10000 10000	20000 20000 19200 18000 16800 15700 13800 12000 9100 7800 6700 210 10000 10000 10000 10000	20000 20000 18600 17400 16200 15100 13200 11400 9900 8500 7200 5900 220 10000 10000 10000 10000	20000 20000 18100 16800 15700 14600 12600 10900 5100 230 10000 10000 10000 10000 10000		135+ 140 145 150 155 160 170 180 190 200 210 220 JIB POINT RADIUS FEET 150+ 155 160 170 180
TOO I SEE CO.	POINT RADIUS FEET 135+ 140 145 150 155 160 170 200 220 JIB POINT RADIUS FEET 150+ 155 160 170 180	20000 20000	20000 20000 20000 20000 20000 10000	20000 20000 20000 20000 20000 20000 20000 20000 10000 10000 10000	20000 20000 20000 20000 20000 19500 17600 10000 10000 10000 10000	20000 20000 20000 20000 19000 17000 17000 150 10000 10000 10000	20000 20000 20000 20000 19400 18300 16400 14600 CAPAC BOON 160 10000 10000 10000 10000	20000 20000 20000 20000 19000 17900 14200 142700 2TTIES I 4LENG 10000 10000 10000 10000	20000 20000 20000 19600 18400 17300 13500 12100 10700 N POUN TH-FEE 180 10000 10000 10000 10000 10000	20000 20000 20000 19000 17800 16800 14800 13000 10100 8900 IDS TT 190 10000 10000 10000 10000 10000	20000 20000 19600 18400 17200 16100 14200 12400 9500 8200 7100 200 10000 10000 10000 10000 10000	20000 20000 19200 18000 16800 15700 13800 12000 7800 6700 210 10000 10000 10000 10000 10000 10000	20000 20000 18600 17400 16200 15100 13200 11400 9900 8500 7200 5900 220 10000 10000 10000 10000 10000	20000 20000 18100 16800 15700 14600 12600 10900 5100 230 10000 10000 10000 10000 10000 9400		FEET  135+ 140 145 150 155 160 170 180 190 200 210 220 JIB POINT RADIUS FEET  150+ 155 160 170 180 190
1001	POINT RADIUS FEET 135+ 140 145 150 155 160 170 180 200 210 220 JIB POINT RADIUS FEET 150+ 155 160 170 180 190	20000 20000	20000 20000 20000 20000 20000 10000	20000 20000 20000 20000 20000 20000 20000 20000 10000 10000 10000	20000 20000 20000 20000 20000 19500 17600 10000 10000 10000 10000	20000 20000 20000 20000 19000 17000 17000 150 10000 10000 10000	20000 20000 20000 20000 19400 18300 16400 14600 CAPAC BOON 160 10000 10000 10000 10000	20000 20000 20000 19000 17900 16000 14200 12700 2TTIES I 4LENG 10000 10000 10000 10000 10000	20000 20000 20000 19600 18400 17300 15300 12100 10700  N POUN TH-FEE 180 10000 10000 10000 10000 10000	20000 20000 20000 19000 17800 16800 14800 11500 10100 8900 IDS ET 190 10000 10000 10000 10000 10000 10000	20000 20000 19600 18400 17200 16100 14200 12400 9500 8200 7100 200 10000 10000 10000 10000 10000 9600	20000 20000 19200 18000 15700 13800 12000 10500 9100 7800 6700 210 10000 10000 10000 10000 10000 9200	20000 20000 18600 17400 16200 15100 13200 11400 9900 8500 7200 5900 220 10000 10000 10000 10000 10000 8600	20000 20000 18100 18800 15700 14600 10900 9300 7900 6500 5100 230 10000 10000 10000 10000 10000 9400 8000		TEET   135+
TOO I SEE CO.	POINT RADIUS FEET  135+ 140 145 150 155 160 170 180 190 200 210 220 JIB POINT RADIUS FEET 150+ 155 160 170 180 190 200 200	20000 20000	20000 20000 20000 20000 20000 10000	20000 20000 20000 20000 20000 20000 20000 20000 10000 10000 10000	20000 20000 20000 20000 20000 19500 17600 10000 10000 10000 10000	20000 20000 20000 20000 19000 17000 17000 150 10000 10000 10000	20000 20000 20000 20000 19400 18300 16400 14600 CAPAC BOON 160 10000 10000 10000 10000	20000 20000 20000 19000 17900 16000 14200 12700 2TTIES I 4LENG 10000 10000 10000 10000 10000	20000 20000 20000 19600 18400 17300 13500 12100 10700 N POUN TH-FEE 180 10000 10000 10000 10000 10000	20000 20000 20000 19000 17800 16800 14800 13000 10100 8900 IDS TT 190 10000 10000 10000 10000 10000	20000 20000 19600 18400 17200 16100 14200 12400 9500 8200 7100 200 10000 10000 10000 10000 10000	20000 20000 19200 18000 16800 15700 13800 12000 7800 6700 210 10000 10000 10000 10000 10000 10000	20000 20000 18600 17400 16200 15100 13200 11400 9900 8500 7200 5900 220 10000 10000 10000 10000 10000	20000 20000 18100 16800 15700 14600 12600 10900 5100 230 10000 10000 10000 10000 10000 9400		FEET  135+ 140 145 150 155 160 170 180 190 200 210 220 JIB POINT RADIUS FEET  150+ 155 160 170 180 190

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

© MANITOWC 1977

### Manitowoc 4100W

### JIB LIFTING CAPACITIES

 ${f .4100W}$ 

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 firm level surface. Capacities based on structural competence are denoted

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>1/8</sup> inch - 6 x 31 IPS, IWRC is 28,300 lbs./line.

IIIM I	JIB POINT	e. Capac	ities base	a on struc	ctural cor	npetence	CAPAC	CITIES I	N POUN	IDS	91 1P3, I	WKC IS	28,300	bs./iine.		JIB POINT
	RADIUS	110	120	130	140	150	160	M LENG	1H-FEE	190	200	210	220	230	240	RADIUS
	90+ 95 100	40000 40000 38600	40000 40000 40000	40000 40000 40000	40000 40000 40000	40000 40000 39800	40000 40000 39200	40000 40000 38900	40000 40000 38300	40000 40000 37800	40000 39900 37200	40000 39500 36900	40000 38900 36300	40000 38400 35800	40000 37900 35400	90+ 95 100
FOOT JIB	105 110 115 120	37200 36900	38500 36000 33800 31700	38100 35600 33400 31300	37500 35000 32800 30700	37000 34500 32300 30200	36400 33900 31700 29600	36100 33600 31300 29300	35500 33000 30800 28700	35000 32500 30200 28200	34500 32000 29700 27600	34100 31600 29300 27200	33600 31000 28800 26700	33100 30500 28300 26200	32600 30000 27700 25700	105 110 115 120
30 F	125 130 140 150			29400	28800 27100	28300 26600 23500	27700 26000 22900 20300	27400 25600 22600 19900	26800 25100 22000 19400	26300 24600 21500 18800	25700 24000 20900 18300	25300 23600 20500 17900	24800 23100 20000 17300	24300 22500 19500 16800	23800 22000 18900 16300	125 130 140 150
	160 170 180 190						20300	13300	17100	16500 14500	16000 13900 12200	15600 13600 11800	15000 13000 11200	14500 12500 10700	14000 11900 10200	160 170 180
	200 JIB						CAPAC	CITIES I	N POUN	DS			9600	9100 7700	8600 7000	190 200 JIB
	POINT RADIUS														POINT RADIUS	
	FEET	110	120	130	140	150	160	170	180	190	200	210	220	230	240	FEET
r JIB	100+ 105 110 115	30000 29100 28000 27100	30000 30000 29300 28300	30000 30000 30000 29500	30000 30000 30000 30000	30000 30000 30000 29900	30000 30000 30000 29300	30000 30000 30000 28900	30000 27700 30000 28300	100+ 105 110 115						
40 FOOT	120 125 130 140	26200	27400 26600 25900	28600 27700 26900	29700 28800 27600 24500	30000 28800 27100 24000	30000 28200 26500 23400	29800 27900 26100 23000	29200 27300 25600 22500	28700 26800 25100 22000	28100 26200 24500 21400	27800 25900 24100 21000	27200 25300 23600 20500	26700 24800 23100 20000	26200 24300 22600 19400	120 125 130 140
,	150 160 170 180				24300	21300	20700 18400	20400 18100	19800 17500 15500	19300 17000 15000 13200	18700 16400 14400 12600	18300 16000 14000 12200	17800 15500 13400 11600	17300 15000 12900 11100	16800 14400 12400 10600	150 160 170 180
	190 200									13200	12000	10600	10000 8600	9500 8100	9000 7600	190 200
	JIB POINT RADIUS	interior						CITIES I								JIB POINT RADIUS
	FEET	110	120	130	140	150	160	170	180	190	200	210	220	230		FEET
OT JIB	130+ 135 140 145	20000 20000	20000 20000 20000 20000	20000 20000 20000 20000	20000 20000 20000 19400	20000 20000 20000 18900		130+ 135 140 145								
50 FOOT	150 155 160 165				20000 20000	20000 20000 19400	20000 19900 18800 17700	20000 19500 18400 17400		19700 18500 17300 16300	19100 17900 16800 15700	18700 17500 16400 15300	18200 17000 15800 14800	17600 16400 15300 14300		150 155 160 165
	170 180 190 200						16700		15800 14000	15300	14700 12900	14300 12500 10900 9500	13800 12000 10400 8900	13300 11500 9800 8400		170 180 190 200
	JIB POINT RADIUS	110	120	130	140	150	BOO	CITIES I	TH-FEE	er -	200	210	220	- 220	ı	JIB POINT RADIUS
r JIB	140+ 145 150	10000	10000 10000 10000	10000 10000 10000	10000 10000 10000	150 10000 10000 10000	160 10000 10000 10000	170 10000 10000 10000	180 10000 10000 10000	190 10000 10000 10000	10000 10000 10000	10000 10000 10000	10000 10000 10000	10000 10000 10000		140+ 145 150
60 FOOT	155 160 170 180 190			10000	10000	10000 10000 10000	10000 10000 10000 10000	10000 10000 10000 10000	10000 10000 10000 10000	10000 10000 10000 10000	10000 10000 10000 10000 10000	10000 10000 10000 10000	10000 10000 10000 10000	10000 10000 10000 10000 10000		155 160 170 180 190
	200 210								10000	10000	10000 8800	9700 8400	9200 7900	8700 7300		200 210

### 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  $1^{1/2}$  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	1.40						CITIES I M LENG	a triverzine) en un	transport track the Paris of 1997						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+
	95 100	40000	40000 40000	40000 40000	40000 39800	40000 39200	40000 38600	40000 38200	40000 37600	40000 37100	39500 36500	39100 36100	38600	38000	37500	95
JIB	105	38700	38100	37700	37000	36500	35800	35500	34900	34300	33700	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
0	115	34100	33400	33000	32400	31800	31200	30800	30200	29600	29000	28600	28100	27500	27000	115
FOOT	120 130	32100	31400 27900	31000 27400	30300	29800	29100	28800	28200	27600	27000	26600	26000	25500	25000	120
30]	140		2/900	24400	26800 23800	26200 23200	25600 22600	25200 22200	24600 21600	24100 21000	23500	23100	22500 19400	21900 18900	21400 18400	130
٤,	150			2-1-100	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
	180 190								13100	12500 11000	11900 10300	11500 9900	10900 9300	10300 8800	9800 8200	180 190
	200									11000	8900	8600	8000	7400	6600	200
	210											7300	6600	5800	5100	210
	JIB POINT	110000						TTIES E		THE THE PROPERTY AND THE						JIB POINT
	RADIUS FFET	110	120	130	140	150	160	170	180	190	200	210	220	230	240	RADIUS FEET
	105+	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	105+
JIB	110	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	29600	110
	115 120	30000 29600	30000 30000	30000 30000	30000 30000	30000 30000	30000 29500	30000 29100	30000 28500	30000 28000	29400 27400	29000 27000	28400 26400	27900 25800	27300 25300	115 120
FOOT	125	28400	29900	29500	28800	28300	27600	27300	26700	26100	25500	25100	24500	24000	23400	125
Įŏ	130	27300	28200	27800	27100	26600	25900	25600	25000	24400	23800	23400	22800	22300	21700	130
40 F	140		25200	24800	24100	23600	22900	22500	21900	21400	20800	20400	19800	19200	18700	140
4	150 160			22200	21500 19300	21000 18700	20300 18100	20000 17700	19300 17100	18800	18200 15900	17800	17200 14900	16600	16100 13800	150
	170				19300	18700	16100	15700	15100	16500 14600	13900	15500 13500	12900	14400 12400	11800	160 170
	180						10100	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
	ЛВ		north all the				CAPAG	TTIES I	N POUN	NDS	0000	7000	7000	0200	3400	ЛВ
	POINT RADIUS						BOO	MLENG	TH-FEE	et						POINT RADIUS
	FEET	110	120	130	140	150	160	170	180	190	200	210	220	230		FEET
	135+	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000		135+
JIB	140	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000		140
	145 150		20000 20000	20000 20000	20000 20000	20000 20000	20000 20000	20000	20000 19600	20000 19000	19600 18400	19200 18000	18600 17400	18100 16800		145 150
FOOT	155		20000	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
20	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	9900	9300		180 190
	200							12/00	10700		9500	9100	8500	7900		200
	210									8900	8200	7800	7200	6500		210
<u> </u>	220	enero de mondo	STORTER SECURIOR MODE		STAPHALLACISTADAY	HOSALPIJA SHRIDINI	GINIA MININE DA GARAGO	the state of the s	Gen was the state of the section of	anns will will a to a carrain	7100	6700	5900	5100	Serve Service Constitution	220
	JIB POINT							CITIES I								JIB
	RADIUS						UNAUGIOLISME DE PR	MLENG	imborociiles/jale id	EW BOOTH BE SECONS						POINT RADIUS
	FEET	110	120	130	140	150	160	170	180	190	200	210	220	230		FEET
<u>m</u>	150+ 155	10000	10000 10000	10000	10000 10000	10000 10000	10000	10000	10000 10000	10000 10000	10000 10000	10000 10000	10000	10000	l	150+
JIB	160		10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	l	155 160
FOOT	170			10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000		170
١ŏ	180				10000	10000	10000	10000	10000	10000	10000	10000	10000	10000		180
F	190						10000	10000	10000	10000	10000	10000	10000	9400	l	190
9	200 210							10000	10000 9600	10000 9000	9600 8400	9200 8000	8600 7400	8000 6700	l	200 210
	220								3000	7900	7300	6800	6100	5300	<b></b>	220
	230							1		//00	6200	5600	4800	4000	1	230

typographical errors. 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