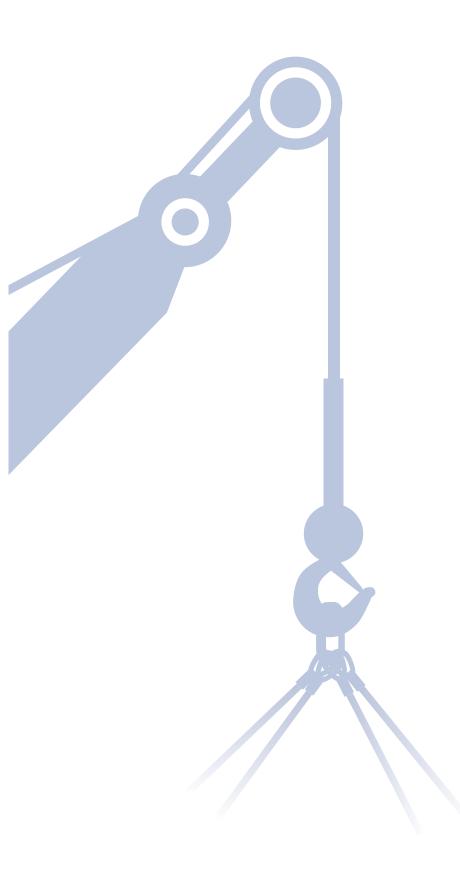




## **LOAD CHARTS**

for Use With WRITTEN EXAMINATIONS





## Manitowoc 4100W

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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.



WEIGHTS	4100W	V-S1 4100	W-S2
DESCRIPTION		APPROX. WEIGHT (IN LBS.)	
LIFTCRANE- w/70' No. 22C boom, machine counterweight, universal gantry w/telescop backhitch, 26'-6" crawlers w/48" treads, full width tandem drums, ir swing, ind. boom hoist, Cummins NTA-855-C360 engine, 27-5/8" d lagging for rear drum, boom hoist rope, equalizer, telescopic air cushion boom stop, 200 ton load block, 15 ton hook and weight ball, single sheat upper boom point, and upper wire rope guide	id. ia. ed <sup>ve</sup> S1	363,795° 446,295°	
UPPERWORKS- w/Cummins NTA-855-C360 engine, ind. boom hoist, ind. swing, at 27-5/8" dia. lagging for rear drum; <u>LESS</u> boom, gantry and backhitch equalizer, load block, weight ball, counter weights, telescopic a cushioned boom stop, upper wire rope guide, and catwalk	h, air	80,500	*
UPPERWORKS as above - w/gantry and backhitch, equalizer, boom hoist roand 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)		41,900 41,500 39,000 12,000 30,000	
BOOM No. 22C			
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)		6,150 8,445 1,260 1,505 545 1,350 2,435	
Boom Insert - 40' (w/rope guide roller assembly)		115 155	each each each each
<u>r</u>		2.20	

<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.

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. © MANITOWC 1977 (Cont'd)



#### WEIGHTS 4100W Cont'd

pesera from	PPROX. /EIGHT
JIB NO. 123	NLBS.)
Lib Ton 15? (w/Lib noint)	605
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	,020
Light Plant - 6.5KW - w/mounting platform	,390
	,320
	,410
	,080
Wire Rope Guide Assembly - Lower	325
Wire Rope Guide Assembly - Upper	510
Rope Guide Roller Assembly	55 each
	,805
	,000
Hoist Line - 1-1/8" - 6 x 31	os./ft.
Whip Line - 1-1/8" - 6 x 31	os./ft.
15 Ton Hook and Weight Ball	865
	,065
	,900
230 Ton Hook Block Assembly5	,375
Boom Stop - Telescopic Air Cushioned	675
	,910
	,330

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

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#### LIFTCRANE CAPACITIES

MEETS ANSI B30.5 REOUIREMENTS

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

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 LGTH FEET	OPER. RAD. FEET	BOOM ANG DEG.	BOOM POINT ELEV.	CAPACITY: CRAWLERS EXTENDED	B L I
	16.5 17 18 19 20	79.7 79.3 78.5 77.6 76.8	75.9 75.8 75.6 75.4 75.1	460,000 400,000 380,100 363,000 347,300	
7	22 24 26 28 30	75.1 73.4 71.7 69.9 68.2	74.6 74.1 73.5 72.8 72.0	319,600 293,400 266,100 237,500 214,300	
0	32 34 36 38 40	66.4 64.6 62.8 60.9 59.1	71.2 70.2 69.3 68.2 67.0	195,100 178,900 165,200 153,300 143,000	
	45 50 55 60 65 70	54.1 48.9 43.2 36.9 29.4 19.5	63.7 59.8 54.9 49.0 41.3 30.3	122,100 106,300 93,900 84,000 75,800 63,900	
					- 1

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

	230'		50,	230'			
Load Block, hook and we							
FOR JIB CAPACITIES							
BOOM LGTH FEET		BOOM ANG DEG.	BOOM POINT ELEV.	CAPACITY: CRAWLERS EXTENDED			
	18 19 20 22 24	81.1 80.4 79.8 78.5 77.2	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	75.9 74.5 73.2 71.9 70.5	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	69.2 67.8 66.4 62.9 59.3	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	55.5 51.5 47.3 42.8 37.9	81.2 77.5 73.2 68.2 62.3	92,800 82,900 74,700 67,800 62,000			
	80 85 90	32.4 25.8 17.1	55.2 46.2 33.5	57,000 52,600 45,900			

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

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

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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 ENGTHSL	DEDUCTIROM CAPACTIESWHENJIB		
	OVERFRONTOF OVERSIDEOF BLOCKEDCRAWLERS EXTENDEDCRAWLERS			ISATTATCHED
BOOM	JIB	BOOM	JIB	JIB JIB
LENGIH	NO.123	LENGIH	NO.123	LENGIH NO.123
260'		260'		30' 3,000 lbs.
250'		250'		40' 3,600 lbs.
240'	40'	240'	40'	50' 4,200 lbs.
230'	60'	60'	60' 4,900 lbs.	
Load B	lock, hoo	ok and wei	ght ball or	n ground at start.

#### TIES, CONSULT JIB CHART.



## SEE CONDITIONS ON REVERSE SIDE

BOOM	OPER.	BOOM	BOOM	CAPACITY:
LGTH	RAD.	ANG	POINT	CRAWLERS
FEET	FEET	DEG.	ELEV.	EXTENDED
	22	80.6	115.5	291,600
	24	79.5	115.2	282,900
	26	78.5	114.8	263,200
	28	77.4	114.3	235,800
	30	76.3	113.9	212,500
1	32	75.3	113.4	193,300
	34	74.2	112.8	177,100
	36	73.1	112.2	163,300
	38	72.0	111.6	151,400
	40	70.9	110.9	141,000
1 0	45 50 55 60 65	68.1 65.3 62.4 59.4 56.3	109.1 106.9 104.5 101.7 98.58	120,100 104,200 91,800 81,800 73,600
	70	53.1	95.0	66,800
	75	49.8	91.0	60,900
	80	46.3	86.5	55,900
	85	42.6	81.4	51,600
	90	38.6	75.6	47,800
	95	34.2	68.8	44,400
	100	29.2	60.7	41,400
	105	23.3	50.6	38,700
	110	15.5	36.4	33,900
	22	81.4	125.6	285,000
	24	80.4	125.3	271,700
	26	79.4	125.0	259,800
	28	78.5	124.6	235,300
	30	77.5	124.1	212,100
1	32	76.5	123.7	192,800
	34	75.5	123.2	176,600
	36	74.5	122.7	162,800
	38	73.5	122.1	150,900
	40	72.5	121.5	140,500
2 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
	70	56.6	107.2	66,200
	75	53.7	103.7	60,400
	80	50.7	99.9	55,300
	85	47.5	95.5	51,000
	90	44.2	90.7	47,200
	95	40.7	85.2	43,800
	100	36.9	79.0	40,800
	105	32.7	71.8	38,100
	110	28.0	63.2	35,700
	115	22.3	52.6	33,500
	24	81.2	135.5	260,000
	26	80.3	135.1	248,600
	28	79.4	134.8	234,700
	30	78.5	134.4	211,800
	32	77.6	133.9	192,500
1	34	76.7	133.5	176,300
	36	75.7	133.0	162,500
	38	74.8	132.5	150,600
	40	73.9	131.9	140,200
	45	71.6	130.4	119,300
3	50	69.3	128.6	103,400
	55	66.9	126.6	91,000
	60	64.5	124.3	81,000
	65	62.0	121.8	72,800
	70	59.5	119.0	65,900
	75	56.9	115.9	60,000
	80	54.2	112.5	55,000
	85	51.5	108.7	50,700
	90	48.6	104.5	46,800
	95	45.6	9.8	43,500
	100	42.4	94.7	40,500
	105	39.0	88.8	37,800
	110	35.4	82.3	35,300
	115	31.4	74.7	33,100
	120	26.8	65.7	31,100
	125	21.4	54.5	29,300
	26	81.0	145.3	239,700
	28	80.1	144.9	230,800
	30	79.3	144.6	211,300
	32	78.5	144.2	192,100
	34	77.6	143.7	175,800
1 4	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
0	55	68.6	137.4	90,400
	60	66.4	135.3	80,400
	65	64.2	133.0	72,200
	70	61.9	130.5	65,300
	75	59.5	127.7	59,500
	80	57.1	124.6	54,400
	85	54.6	121.2	50,100
	90	52.1	117.5	46,200
	95	49.5	113.4	42,900
	100	46.7	108.9	39,900

	OI V	DI.	110	115
BOOM	OPER.	BOOM	BOOM	CAPACITY:
LGTH	RAD.	ANG	POINT	CRAWLERS
FEET	FEET	DEG.	ELEV.	EXTENDED
1 4	105	43.8	103.9	37,200
	110	40.8	98.5	34,700
	115	37.5	92.3	32,500
	120	34.0	85.4	30,500
	125	30.2	77.4	28,700
0	130	25.8	68.0	27,000
	135	20.7	56.4	25,500
	28	80.8	155.1	218,600
	30	80.0	154.7	210,300
	32	79.2	154.4	191,600
	34	78.5	154.0	175,400
	36	77.7	153.5	161,600
,	38	76.9	153.1	149,600
	40	76.1	152.6	139,200
	45	74.1	151.3	118,200
	50	72.1	149.8	102,400
	55	70.1	148.1	89,900
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
0	85	57.3	133.2	49,600
	90	55.0	129.9	45,700
	95	52.7	126.2	42,400
	100	50.2	122.3	39,400
	105	47.7	117.9	36,700
	110	45.0	113.1	34,200
	115	42.3	107.9	32,000
	120	39.3	102.1	30,000
	125	36.2	95.7	28,200
	130	32.9	88.4	26,500
	135	29.2	80.1	25,000
	140	25.0	70.3	23,500
	145	19.9	58.2	22,200
	28	81.4	165.2	208,500
	30	80.6	164.9	203,500
	32	79.9	164.5	191,100
	34	79.2	164.2	174,900
	36	78.5	163.8	161,000
	38	77.7	163.3	149,100
	40	77.0	162.9	138,700
	45	75.2	161.7	117,700
	50	73.3	160.2	101,800
	55	71.4	158.7	89,300
1 6	60 65 70 75 80	69.5 67.6 65.6 63.7 61.6	156.9 154.9 152.8 150.4 147.8	79,300 71,100 64,200 58,400 53,300
0	85	59.6	145.0	49,000
	90	57.5	141.9	45,100
	95	55.3	138.6	41,800
	100	53.1	135.0	38,700
	105	50.9	131.1	36,000
	110	48.5	126.8	33,600
	115	46.1	122.2	31,400
	120	43.5	117.2	29,400
	125	40.9	111.7	27,600
	130	38.0	105.6	25,900
·	135	35.0	98.9	24,300
	140	31.8	91.3	22,900
	145	28.2	82.6	21,600
	150	24.1	72.5	20,400
	155	19.3	59.9	19,200
	30	81.2	175.0	192,600
	32	80.5	174.7	188,400
	34	79.8	174.3	174,600
	36	79.2	174.0	160,800
	38	78.5	173.6	148,800
	40	77.8	173.1	138,400
	45	76.0	172.0	117,400
	50	74.3	170.7	101,500
	55	72.5	169.2	89,100
	60	70.8	167.5	79,000
1	65	69.0	165.7	70,800
	70	67.2	163.7	63,900
	75	65.3	161.5	58,100
	80	63.4	159.1	53,000
	85	61.5	156.5	48,700
7 0	90 95 100 105 110	59.6 57.6 55.6 53.6 51.4	153.6 150.6 147.3 143.7 139.9	44,900 41,500 38,500 35,800 33,300
	115	49.2	135.8	31,100
	120	47.0	131.3	29,100
	125	44.6	126.4	27,300
	130	42.2	121.1	25,600
	135	39.6	115.3	24,100
	140	36.9	109.0	22,600
	145	34.0	102.0	21,300
	150	30.8	94.1	20,100
	155	27.3	85.1	18,900
	160	23.4	74.6	17,800
	165	18.7	61.6	16,400

BOOM	OPER.	BOOM	BOOM	CAPACITY:
LGTH	RAD.	ANG	POINT	CRAWLERS
FEET	32 34 36 38	DEG. 81.1 80.4	ELEV. 184.8	180,000 174,100 160,300 148,300
	40	80.4 79.8 79.1 78.5	184.5 184.1 183.8 183.4	137,900
	45	76.8	182.3	116,900
	50	75.2	181.0	101,000
	55	73.5	179.6	88,500
	60	71.9	178.1	78,500
	65	70.2	176.3	70,300
1 8	70	68.5	174.5	63,400
	75	66.8	172.4	57,500
	80	65.0	170.2	52,500
	85	63.3	167.7	48,100
	90	61.5	165.1	44,300
0	95	59.6	162.3	40,900
	100	57.8	159.3	37,900
	105	55.9	156.0	35,200
	110	53.9	152.5	32,700
	115	51.9	148.7	30,500
	120	49.9	144.6	28,500
	125	47.8	140.3	26,700
	130	45.6	135.5	25,000
	135	43.3	130.4	23,500
	140	40.9	124.9	22,000
	145	38.4	118.9	20,700
	150	35.8	112.3	19,500
	155	33.0	105.0	18,300
	160	29.9	96.8	17,200
	165	26.6	87.5	16,200
	170	22.7	76.6	15,300
	175	18.2	63.2	13,500
	32	81.5	194.9	171,000
	34	80.9	194.6	166,100
	36	80.3	194.3	159,800
	38	79.7	193.9	147,900
	40	79.1	193.6	137,400
·	45	77.5	192.5	116,400
	50	76.0	191.3	100,500
	55	74.4	190.0	88,000
	60	72.9	188.6	78,000
	65	71.3	186.9	69,700
1	70	69.7	185.2	62,800
	75	68.1	183.2	57,000
	80	66.4	181.1	52,000
	85	64.8	178.9	47,600
	90	63.1	176.4	43,800
9	95	61.4	173.8	40,400
	100	59.7	171.0	37,400
	105	57.9	167.9	34,700
	110	56.1	164.7	32,200
	115	54.3	161.2	30,000
	120	52.4	157.5	28,000
	125	50.4	153.5	26,200
	130	48.5	149.2	24,500
	135	46.4	144.6	22,900
	140	44.3	139.7	21,500
	145	42.1	134.4	20,200
	150	39.8	128.6	18,900
	155	37.4	122.3	17,800
	160	34.8	115.5	16,700
	165	32.1	107.9	15,700
	170	29.1	99.4	14,800
	175	25.8	89.8	13,900
	180	22.1	78.6	13,100
	185	17.7	64.8	11,000
	34	81.4	204.7	157,200
	36	80.8	204.4	153,500
	38	80.2	204.1	147,400
	40	79.6	203.7	136,900
	45	78.2	202.8	115,900
	50	76.7	201.6	100,000
	55	75.2	200.4	87,500
	60	73.7	199.0	77,400
	65	72.2	197.5	69,200
	70	70.7	195.8	62,300
2 0 0	75 80 85 90 95	69.2 67.7 66.1 64.5 62.9	194.0 192.0 189.9 187.6 185.1	56,400 51,400 47,000 43,200 39,800
0	100	61.3	182.5	36,800
	105	59.7	179.6	34,100
	110	58.0	176.6	31,600
	115	56.3	173.4	29,400
	120	54.5	169.9	27,400
	125	52.8	166.2	25,600
	130	50.9	162.3	23,900
	135	49.1	158.1	22,300
	140	47.2	153.6	20,900
	145	45.2	148.8	19,600
	150	43.1	143.7	18,300
	155	41.0	138.1	17,200
	160	38.7	132.2	16,100
	165	36.4	125.7	15,100
	170	33.9	118.6	14,200

BOOM	OPER.	BOOM	BOOM	CAPACTIY:
LGTH	RAD.	ANG	POINT	CRAWLERS
FEET	FEET	DEG.	ELEV.	EXTENDED
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
	36	81.2	214.5	146,000
	38	80.7	214.2	143,300
	40	80.1	213.9	136,600
	45	78.7	213.0	115,500
	50	77.3	211.9	99,600
,	55	75.9	210.7	87,100
	60	74.5	209.4	77,100
	65	73.1	207.9	68,800
	70	71.7	206.4	61,900
	75	70.2	204.6	56,100
2	80	68.8	202.8	51,000
	85	67.3	200.7	46,700
	90	65.8	198.6	42,800
	95	64.3	196.3	39,400
	100	62.8	193.8	36,400
1 0	105	61.3	191.1	33,700
	110	59.7	188.3	31,300
	115	58.1	185.3	29,100
	120	56.5	182.1	27,100
	125	54.8	178.6	25,200
	130	53.1	175.0	23,500
	135	51.4	171.1	22,000
	140	49.6	167.0	20,600
	145	47.8	162.6	19,200
	150	46.0	157.9	18,000
	155	44.0	152.9	16,800
	160	42.0	147.6	15,800
	165	39.9	141.8	14,800
	170	37.8	135.6	13,800
	175	35.5	128.9	12,900
	180	33.1	121.6	12,100
	185	30.5	113.5	11,300
	190	27.7	104.5	10,600
	195	24.6	94.3	9,900
	200	21.0	82.4	8,800
	205	16.8	67.8	6,500
	38	81.1	224.4	135,900
	40	80.6	224.0	133,400
	45	79.3	223.1	115,000
	50	77.9	222.1	99,100
	55	76.6	221.0	86,600
	60	75.3	219.8	76,600
	65	73.9	218.4	68,300
	70	72.5	216.9	61,400
	75	71.2	215.2	55,500
	80	69.8	213.5	50,500
2	85	69.4	211.5	46,100
	90	67.0	209.5	42,300
	95	65.6	207.3	38,900
	100	64.1	204.9	35,800
	105	62.7	202.4	33,100
0	110	62.2	199.8	30,700
	115	59.7	196.9	28,500
	120	58.2	193.9	26,500
	125	56.6	190.7	24,600
	130	55.1	187.3	23,000
	135	53.5	183.7	21,400
	140	51.8	179.9	20,000
	145	50.1	175.9	18,600
	150	48.4	171.6	17,400
	155	46.7	167.0	16,300
•	160	44.8	162.1	15,200
	165	43.0	156.9	14,200
	170	41.0	151.4	13,200
	175	39.0	145.4	12,300
	180	36.9	139.0	11,500
,	185	34.6	132.1	10,700
	190	32.3	124.5	10,000
	195	29.8	116.2	9,300
	200	27.0	106.9	8,600
	205	24.0	96.4	8,000
	210	20.6	84.2	6,500

#### 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.



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

## SEE CONDITIONS ON FRONT PAGE

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

Or	N F	KO.	NI	PAG
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
	170 175 180 185 190	48.4 46.8 45.3 43.6 41.9	193.9 189.4 184.5 179.4 174.0	11,800 10,900 10,100 9,300 8,500
	195 200 205 210	40.2 38.4 36.5 34.5	168.3 162.2 155.7 148.6	7,800 7,000 6,200 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
2 6 0	145 150 155 160 165	57.2 55.8 54.5 53.1 51.7	225.4 222.1 218.7 215.0 211.2	16,600 15,400 14,200 13,100 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	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	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
	75	30.1	44.4	62,500
	80	21.0	32.7	53,900

			FOR J	B CAP	ACITIES
	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
	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 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
		85 90	28.2 19.7	46.7 34.3	52,600 49,900
ΞE	BEFO:	RE US	EOFT	THIS C	HART.

BOOM OPER. BOOM BOOM CAPACITY CRAWLERS FEET FEET DEG ELEV. EXTENDED 258,300 248,700 240,100 232,100 224,800 76.8 75.7 74.5 73.3 72.0 1 0 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 40 45 50 55 60 54.4 50.7 46.8 42.6 38.0

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)

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

	MAXIMU NGTHSL	DEDUCT CAPACTIES			
OVERFI BLOCKEDO	CRAWLERS	OVERSIDEOF EXTENDEDCRAWLERS		ISATTAT	
BOOM	JIB	BOOM	JIB	JIB	JB
LENGIH	NO.123	LENGIH	NO.123	LENGIH	NO.123
260'		260'			000 lbs.
250'		250'			600 lbs.
240'	40'	240'	40'	50' 4.	200 lbs.
230'	60'	230'	60'		900 lbs.
Load B	lock, hoo	ok and wei	ght ball or	ground a	at start.

FOR JIB CAPACITIES, CONSULT JIB CHART.

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

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## SEE CONDITIONS ON REVERSE SIDE

BOOM	OPER.	BOOM	BOOM	CAPACTIY:
LGTH	RAD.	ANG	POINT	CRAWLERS
FEET	FEET	DEG.	ELEV.	EXTENDED
	22	82.3	115.7	240,500
	24	81.3	115.4	232,100
	26	80.2	115.0	224,400
	28	79.1	114.6	217,300
	30	78.1	114.1	210,700
1	32	77.0	113.6	193,300
	34	75.9	113.1	177,100
	36	74.8	112.5	163,300
	38	73.7	111.8	151,400
	40	72.6	111.2	141,000
1 0	45 50 55 60 65	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
	70	54.9	95.3	66,800
	75	51.6	91.3	60,900
	80	48.1	86.8	55,900
	85	44.4	81.7	51,600
	90	40.4	75.9	47,800
	95	36.1	69.2	44,400
	100	31.1	61.1	41,400
	105	25.3	51.1	38,700
	110	17.6	37.2	33,900
	22	83.0	125.9	228,700
	24	82.0	125.5	220,500
	26	81.0	125.2	213,000
	28	80.0	124.8	206,100
	30	79.1	124.4	199,700
1	32	78.1	123.9	192,800
	34	77.1	123.4	176,600
	36	76.1	122.9	162,800
	38	75.1	122.3	150,900
	40	74.1	121.7	140,500
2 0	45 50 55 60 65	71.6 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
	70	58.3	107.5	66,200
	75	55.4	104.0	60,400
	80	52.4	100.1	55,300
	85	49.2	95.8	51,000
	90	45.9	91.0	47,200
	95	42.4	85.5	43,800
	100	38.6	79.4	40,800
	105	34.4	72.2	38,100
	110	29.7	63.7	35,700
	115	24.1	53.2	33,500
	24	82.6	135.7	212,700
	26	81.7	135.3	205,300
	28	80.8	135.0	198,600
	30	79.9	134.6	192,300
	32	79.0	134.2	186,500
1	34	78.1	133.7	176,300
	36	77.2	133.2	162,500
	38	76.3	132.7	150,600
	40	75.4	132.1	140,200
	45	73.1	130.6	119,300
3	50	70.8	128.8	103,400
	55	68.4	126.8	91,000
	60	66.0	124.6	81,000
	65	63.5	122.0	72,800
	70	61.0	119.2	65,900
	75	58.4	116.1	60,000
	80	55.7	112.7	55,000
	85	53.0	108.9	50,700
	90	50.1	104.8	46,800
	95	47.1	100.1	43,500
	100	43.9	95.0	40,500
	105	40.6	89.2	37,800
	110	36.9	82.6	35,300
	115	33.0	75.1	33,100
	120	28.5	66.1	31,100
	125	23.1	55.1	29,300
	26	82.3	145.5	198,400
	28	81.5	145.1	191,800
	30	80.7	144.8	185,600
	32	79.8	144.4	179,900
	34	79.0	144.0	174,700
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
0	55	70.0	137.6	90.400
	60	67.8	135.5	80,400
	65	65.6	133.2	72,200
	70	63.3	130.7	65,300
	75	60.9	127.9	59,500
	80	58.5	124.8	54,400
	85	56.1	121.4	50,100
	90	53.5	117.7	46,200
	95	50.9	113.7	42,900
	100	48.1	109.2	39,900

	UN	DI.	HO	115 C
BOOM	OPER.	BOOM	BOOM	CAPACTIY:
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 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
7 0	90 95 100 105 110	60.8 58.8 56.8 54.7 52.6	153.9 150.8 147.5 144.0 140.2	44,900 41,500 38,500 35,800 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

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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
8 0	95 100 105 110 115	60.7 58.9 57.0 55.0 53.0	162.5 159.5 156.2 152.7 149.0	40,900 37,900 35,200 32,700 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	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

2 1	LGTH FEET	RAD. FEET	ANG DEG.	POINT ELEV.	CRAWLERS EXTENDED
2 1 1 1 5 59.0 185.5 29.100 105.57.7 171.2 204.8 162.9 171.5 20.0 20.1 15.5 20.0 10.6 145.7 17.9 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0	0	180 185 190	29.4 26.2 22.6 18.4	111.1 102.4 92.5 81.0 67.0	10,900 8,500
2 1   55   76.9   210.9   87,100   77,100   206.5   74.0   208.1   68,800   70.7   72.6   206.6   61,900   66,7   120.8   56,100   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   100   63.7   194.0   36,400   105   62.2   191.3   33,700   115   59.0   188.5   29,100   120   57,4   182.3   27,100   120   57,4   182.3   27,100   120   55.7   178.9   25,200   130   55.3   171.4   22,000   145   50.6   188.5   13,300   135   52.3   171.4   22,000   145   50.6   167.3   20,600   185.5   21,200   130   55.7   178.9   13,800   155   46.9   158.2   18,000   155   46.9   158.2   18,000   155   46.9   158.2   18,000   155   45.0   153.2   11,800   175   36.5   129.2   12,900   185   31.5   113.9   11,300   195   25.6   94.7   9,900   22.1   82.9   8,800   205   17.9   88.5   6,500   65.74.8   212.3   115,000   195   25.6   94.7   9,900   22.1   82.9   8,800   205   77.5   221.2   28.800   17.9   88.5   6,500   65.74.8   212.3   115,000   195   25.6   94.7   9,900   20.6   22.1   82.9   8,800   70.7   213.7   50,500   80.6   70.7   73.4   217.1   61.400   73.4		36 38 40 45 50	82.1 81.6 81.0 79.6 78.3	214.7 214.4 214.1 213.2 212.1	134,200 131,000 127,900 115,500 99,600
2 1		55 60 65 70 75	76.9 75.4 74.0 72.6 71.2	210.9 209.6 208.1 206.6 204.8	
130	2	80 85 90 95 100	65.2 63.7	203.0 201.0 198.8 196.5 194.0	51,000 46,700 42,800 39,400 36,400
155	1 0	105 110 115 120 125		191.3 188.5 185.5 182.3 178.9	33,700 31,300 29,100 27,100 25,200
180		130 135 140 145 150	54.1 52.3 50.6 48.8 46.9	175.2 171.4 167.3 162.9 158.2	23,500 22,000 20,600 19,200 18,000
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			45.0 43.0 40.9 38.7 36.5	153.2 147.9 142.1 135.9 129.2	15,800 14,800 13,800 12,900
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		180 185 190 195 200 205		121.9 113.9 104.9 94.7 82.9 68.5	12,100 11,300 10,600 9,900 8,800 6,500
2   Continue   Continu			82.0	224.6 224.2 223.3 222.3 221.2	125,700 122,800 115,000 99,100 86,600
2   85   69.3   211.8   46,100   42,300   209.7   42,300   65.0   205.2   35,800   63.6   202.7   33,100   205.2   205		60 65 70 75 80	76.1 74.8 73.4 72.0 70.7	220.0 218.6 217.1 215.4 213.7	
0 120 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 18,600 155 47.6 167.3 16,300	2	85 90 95 100 105	69.3 67.9 66.4 65.0 63.6		46,100 42,300 38,900 35,800 33,100
135   54.3   184.0   21.400   140   52.7   180.2   20.000   145   51.0   176.1   18.600   155   47.6   167.3   16.300	<b>2 0</b>	110 115 120 125 130	62.1 60.6 59.1 57.5 55.9		30,700 28,500 26,500 24,600 23,000
		135 140 145 150 155		184.0 180.2 176.1 171.8 167.3	21,400 20,000 18,600 17,400 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		165 170 175 180	45.7 43.9 41.9 39.9 37.8		15,200 14,200 13,200 12,300 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		185 190 195 200 205 210	35.6 33.2 30.7 28.0 25.0 21.5	132.4 124.8 116.6 107.3 96.9 84.8	10,700 10,000 9,300 8,600

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.



## LIFTCRANE CAPACITIES - 4100W SERIES 2 BOOM NO. 22C WITH OPEN THROAT TOP OFFSET 4 1/2 DEGREES, CONTINUED

## SEE CONDITIONS ON FRONT PAGE

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

<b>O</b> I	Y I.	110	IAI	IAG
BOOM	OPER.	BOOM	BOOM	CAPACITY:
LGTH	RAD.	ANG	POINT	CRAWLERS
FEET	FEET	DEG.	ELEV.	EXTENDED
	45	81.3	253.8	101,500
	50	80.2	252.9	96,900
	55	79.0	251.9	85,200
	60	77.8	250.8	75,200
	65	76.6	249.6	66,900
	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
6 0	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	16,600 15,400 14,200 13,100 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 x 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
	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
JIB	100 105	40000 38700	40000 38100	40000 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
C	115	34100	33400	33000	32400	31800	31200	30800	30200	29600	29000	28600	28100	27500	27000	115
ŏ	120	32100	31400	31000	30300	29800	29100	28800	28200		27000	26600	26000	25500	25000	120
30 FOOT	130		27900	27400	26800	26200	25600	25200	24600	24100	23500	23100	22500	21900	21400	130
3(	140			24400	23800	23200	22600	22200	21600	21000	20400	20000	19400	18900	18400	140
	150 160				21200	20600 18400	20000 17800	19600 17400	19000 16800	18500 16200	17800 15600	17400 15200	16900 14600	16300 14100	15800 13500	150 160
	170					10400	17000	15400	14800		13600	13200	12600	12100	11500	170
	180								13100	12500	11900	11500	10900	10300	9800	180
	190						1			11000	10300	9900	9300	8800	8200	190
	200						1				8900	8600	8000	7400	6600	200
	210		230000000000	Jelikoonilasiess sees	Simus phoboledin	anteguzi Sakidi Risi	1 KUSIMBU 1885 SU			5107210 garapa 8 5. r	and seed to the h	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
	105+	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	105+
2	110	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	29600	110
JIB	115	30000	30000	30000	30000	30000	30000	30000	30000	30000	29400	29000	28400	27900	27300	115
40 FOOT	120 125	29600 28400	30000 29900	30000 29500	30000 28800	30000 28300	29500 27600	29100 27300	28500 26700	28000 26100	27400 25500	27000 25100	26400 24500	25800 24000	25300 23400	120
ŏ	130	27300	28200	27800	27100	26600	25900	25600	25000	24400	23800	23400	22800	22300	21700	125 130
Ŧ	140	2,000	25200	24800	24100	23600	22900	22500	21900	21400	20800	20400	19800	19200	18700	140
40	150			22200	21500	21000	20300	20000	19300	18800	18200	17800	17200	16600	16100	150
	160				19300	18700	18100	17700	17100	16500	15900	15500	14900	14400	13800	160
	170						16100	15700	15100	14600	13900	13500	12900	12400	11800	170
	180 190							14000	13400 11800	12800 11300	12200 10600	11800 10200	11200 9600	10600 9100	10100 8500	180 190
	200								11000	9900	9300	8900	8300	7700	7000	200
	210									7700	8000	7600	7000	6200	5400	210
	JIB POINT							CITIES I								JIB POINT
	RADIUS		2000 PH 1000 PM				P. 1. 1	MLENG		15-06 MOTO POPINISTA					ayron Panalatro	RADIUS
	FEET	110	120	130	140	150	160	170	180	190	200	210	220	230		FEET
В	135+ 140	20000 20000	20000 20000	20000 20000	20000 20000	20000 20000	20000	20000 20000	20000	20000	20000	20000	20000	20000		135+
JIB	145	20000	20000	20000	20000	20000	20000	20000	20000 20000	20000 20000	20000 19600	20000 19200	20000 18600	18100		140 145
	150		20000	20000	20000	20000	20000	20000	19600	19000	18400	18000	17400	16800		150
FOOT	155			20000	20000	20000	19400	19000	18400	17800	17200	16800	16200	15700		155
F	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					11400			180
	200						l	12700	12100 10700	11500 10100	10900 9500	10500 9100	9900 8500	9300 7900		190 200
	210						1		10700	8900	8200	7800	7200	6500		210
	220						1			0,00	7100	6700	5900	5100		220
	ЛВ						CAPAC	TTIES I	NPOLIN	IDS .						JIB
	POINT							MLENG								POINT
	RADIUS FEET	110	120	130	140	150	160	170	a parti i Kiburita ng P		200	210	220	220	AMERICAN PROPERTY.	RADIUS
	150+	10000	10000	10000	10000	10000	10000	10000	180 10000	190 10000	10000	210 10000	220 10000	10000		150+
JIB	155	10000	10000	10000	10000	10000	10000	10000	10000		10000	10000	10000	10000	ļ .	150+
	160		10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	ŀ	160
FOOT	170			10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000		170
ŏ	180				10000	10000	10000	10000	10000	10000	10000	10000	10000	10000		180
F	190						10000	10000	10000		10000	10000	10000	9400	[	190
09	200 210							10000	10000	10000	9600	9200	8600	8000		200
	220			_					9600	9000 7900	7300	8000 6800	7400	6700 5300	<u> </u>	210 220
	230									/900	6200	5600	6100 4800	4000		230
	VITOWC 1977				L		<u> </u>	L		L	0200	2000	7000	+000	L	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 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.

	JIB POINT RADIUS							CITIES I								JIB POINT
	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
8	100	38600	40000	40000	40000	39800	39200	38900	38300	37800	37200	36900	36300	35800	35400	100
JIB	105	37200	38500	38100	37500	37000	36400	36100	35500	35000	34500	34100	33600	33100	32600	105
<u></u>	110	36900	36000	35600	35000	34500	33900	33600	33000	32500	32000	31600	31000	30500	30000	110
$\simeq$	115 120		33800 31700	33400 31300	32800 30700	32300 30200	31700 29600	31300 29300		30200 28200	29700 27600	29300 27200	28800 26700	28300 26200	27700 25700	115 120
FOOT	125		31700	29400	28800	28300	27700	27400	26800	26300	25700	25300	24800	24300	23800	125
30	130				27100	26600	26000	25600	25100	24600	24000	23600	23100	22500	22000	130
	140					23500	22900	22600	22000	21500	20900	20500	20000	19500	18900	140
	150						20300	19900	19400	18800	18300	17900	17300	16800	16300	150
	160								17100	16500	16000	15600	15000	14500	14000	160
	170 180									14500	13900 12200	13600 11800	13000 11200	12500 10700	11900 10200	170 180
	190										12200	11800	9600	9100	8600	190
	200												2000	7700	7000	200
	JIB POINT							TTIES II								JIB
	RADIUS FEET	110	120	130	140	150	160	ILENG	180	1 190	200	210	220	230	240	POINT RADIUS
	100+	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	100+
~	105	29100	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	27700	105
E	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
Ŏ	120	26200	27400	28600	29700	30000	30000	29800	29200	28700	28100	27800	27200	26700	26200	120
$\Xi$	125 130		26600 25900	27700 26900	28800 27600	28800 27100	28200 26500	27900	27300 25600	26800 25100	26200 24500	25900	25300	24800	24300	125
40 FOOT	140		23900	20900	24500	24000	23400	26100 23000	22500	22000	24500	24100 21000	23600 20500	23100 20000	22600 19400	130 140
4	150				24300	21300	20700	20400	19800	19300	18700	18300	17800	17300	16800	150
	160					21000	18400	18100	17500	17000	16400	16000	15500	15000	14400	160
	170								15500	15000	14400	14000	13400	12900	12400	170
	180									13200	12600	12200	11600	11100	10600	180
	190 200											10600	10000 8600	9500 8100	9000 7600	190 200
	JIB POINT	CAPACITIES IN POUNDS														ЛВ POINT
	RADIUS						BOO	MLENG	TH-FEE	T						RADIUS
	FEET	110	120	130	140	150	160	170	180	190	200	210	220	230		FEET
~	130+	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000		130+
JIB	135	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	1	135
Ţ	140 145		20000 20000	20000 20000	20000 20000	20000 20000	20000 20000	20000 20000	20000 20000	20000 20000	20000	20000	20000	20000		140
Õ	150		20000	20000	20000	20000	20000	20000	20000	19700	20000 19100	20000 18700	19400 18200	18900 17600	<b></b>	145 150
Õ	155				20000	20000	19900	19500	19000	18500	17900	17500	17000	16400	1	155
$\mathbf{F}$						19400	18800	18400	17900	17300	16800	16400	15800	15300	1	160
50 FC	160									1.0000	15700	15300	14800	14300	1	165
50  FC	165							17400			13700	10000		1.000		
50 FC	165 170						16700	16400	15800	15300	14700	14300	13800	13300		170
50 FC	165 170 180									15300 13500	14700 12900	14300 12500	13800 12000	13300 11500		170 180
50 FC	165 170								15800	15300	14700	14300	13800	13300		170
50 FC	165 170 180 190 200 JIB						16700 CAPAC	16400 CITIES I	15800 14000 N POUN	15300 13500 11900	14700 12900 11300	14300 12500 10900	13800 12000 10400	13300 11500 9800		170 180 190 200 JIB
50 FC	165 170 180 190 200 JIB POINT RADIUS			120		1-0	CAPAC BOOM	16400 CITIES I MLENG	15800 14000 N POUN TH-FEE	15300 13500 11900	14700 12900 11300 9900	14300 12500 10900 9500	13800 12000 10400 8900	13300 11500 9800 8400		170 180 190 200 JIB POINT RADIUS
50 FC	165 170 180 190 200 JIB POINT RADIUS FEET	110	120	130	140	150	16700 CAPAC BOOM	16400 CITIES I MLENG 170	15800 14000 N POUN TH-FEE 180	15300 13500 11900 IDS IT	14700 12900 11300 9900	14300 12500 10900 9500	13800 12000 10400 8900	13300 11500 9800 8400		170 180 190 200 JIB POINT RADIUS FEET
	165 170 180 190 200 JIB POINT RADIUS FEET 140+	110 10000	10000	10000	10000	10000	16700  CAPAC  BOON  160  10000	16400 CITIES I VILENG 170 10000	15800 14000 N POUN TH-FEH 180	15300 13500 11900 11900 11900 11900	14700 12900 11300 9900 200 10000	14300 12500 10900 9500 210 10000	13800 12000 10400 8900 220	13300 11500 9800 8400 230 10000		170 180 190 200 JIB POINT RADIUS FEET 140+
JIB 50	165 170 180 190 200 JIB POINT RADIUS FEET 140+ 145		10000 10000	10000 10000	10000 10000	10000 10000	16700  CAPAC BOOT  160  10000 10000	16400  CITIES I  MLENG  170  10000 10000	15800 14000 N POUN TH - FEE 180 10000 10000	15300 13500 11900 11900 10000 10000	14700 12900 11300 9900 200 10000 10000	14300 12500 10900 9500 210 10000 10000	13800 12000 10400 8900 <b>220</b> 10000 10000	13300 11500 9800 8400 230 10000 10000		170 180 190 200 JIB POINT RADIUS FEET 140+ 145
JIB 50	165 170 180 190 200 JIB POINT RADIUS FEET 140+		10000	10000	10000	10000	16700  CAPAC  BOON  160  10000	16400 CITIES I VILENG 170 10000	15800 14000 N POUN TH-FEH 180	15300 13500 11900 11900 11900 11900	14700 12900 11300 9900 200 10000	14300 12500 10900 9500 210 10000	13800 12000 10400 8900 220	13300 11500 9800 8400 230 10000		170 180 190 200 JIB POINT RADIUS FEET 140+ 145 150
JIB 50	165 170 180 190 200 JIB POINT RADIUS FUET 140+ 145 150 155		10000 10000	10000 10000 10000	10000 10000 10000	10000 10000 10000 10000	CAPAC BOOD 160 10000 10000 10000 10000	16400  CITIES I  VILENG  170  10000 10000 10000 10000	15800 14000 N POUN TH-FEE 180 10000 10000 10000 10000	15300 13500 11900 11900 <b>IDS</b> <b>190</b> 10000 10000 10000	14700 12900 11300 9900 200 10000 10000 10000	14300 12500 10900 9500 210 10000 10000 10000 10000	13800 12000 10400 8900 220 10000 10000 10000 10000	13300 11500 9800 8400 230 10000 10000 10000 10000		170 180 190 200 JIB POINT RADIUS FEET 140+ 145
FOOT	165 170 180 190 200 JIB POINT RADIUS FIET 140+ 145 150 155 160 170		10000 10000	10000 10000 10000	10000 10000 10000 10000	10000 10000 10000 10000	CAPAC BOOD 160 10000 10000 10000 10000 10000	16400  CITIES I  VILENG  170  10000 10000 10000 10000 10000	15800 14000 14000 N POUN TH-FEH 180 10000 10000 10000 10000 10000	15300 13500 11900 11900 10000 10000 10000 10000 10000 10000	14700 12900 11300 9900 200 10000 10000 10000 10000 10000	14300 12500 10900 9500 210 10000 10000 10000 10000 10000	13800 12000 10400 8900 220 10000 10000 10000 10000 10000	13300 11500 9800 8400 230 10000 10000 10000 10000 10000		170 180 190 200 JIB POINT RADIUS FEET 140+ 145 150 155 160 170
FOOT JIB 50	165 170 180 190 200 JIB POINT RADIUS FEET 140+ 145 150 155 160 170 180		10000 10000	10000 10000 10000	10000 10000 10000 10000	10000 10000 10000 10000	CAPAC BOOD 160 10000 10000 10000 10000	16400  CITIES I  VILENG  170  10000 10000 10000 10000	15800 14000 14000 N POUN TH - FEB 180 10000 10000 10000 10000 10000 10000	15300 13500 11900 11900 10000 10000 10000 10000 10000 10000	14700 12900 11300 9900 200 10000 10000 10000 10000 10000 10000	14300 12500 10900 9500 210 10000 10000 10000 10000 10000 10000	13800 12000 10400 8900 220 10000 10000 10000 10000 10000 10000	13300 11500 9800 8400 230 10000 10000 10000 10000 10000 10000		170 180 190 200 JIB POINT RADIUS FEET 140+ 145 150 155 160 170 180
JIB 50	165 170 180 190 200 JIB POINT RADIUS FIET 140+ 145 150 155 160 170		10000 10000	10000 10000 10000	10000 10000 10000 10000	10000 10000 10000 10000	CAPAC BOOD 160 10000 10000 10000 10000 10000	16400  CITIES I  VILENG  170  10000 10000 10000 10000 10000	15800 14000 14000 N POUN TH-FEH 180 10000 10000 10000 10000 10000	15300 13500 11900 11900 10000 10000 10000 10000 10000 10000	14700 12900 11300 9900 200 10000 10000 10000 10000 10000	14300 12500 10900 9500 210 10000 10000 10000 10000 10000	13800 12000 10400 8900 220 10000 10000 10000 10000 10000	13300 11500 9800 8400 230 10000 10000 10000 10000 10000		170 180 190 200 JIB POINT RADIUS FEET 140+ 145 150 155 160 170



## Manitowoc 4100W

#### JIB LIFTING CAPACITIES

4100W

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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

#### 20 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 x 31 IPS, IWRC is 28,300 lbs./line.

	JIB POINT RADIUS		CAPACITIES IN POUNDS BOOMLENGTH-FEET													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	39500	39100	38600	38000	37500	95
ar l	100 105	40000 38700	40000 38100	40000	39800 37000	39200	38600	38200	37600	37100	36500	36100	35500	35000	34400	100
5	110	36300	35600	37700 35200	34600	36500 34000	35800 33400	35500 33000	34900 32400	34300 31900	33700 31300	33300 30900	32800 30300	32200 29800	31700 29200	105 110
rooi	115	34100	33400	33000	32400	31800	31200	30800	30200	29600	29000	28600	28100	27500	27000	115
5 I	120	32100	31400	31000	30300	29800	29100	28800	28200	27600	27000	26600	26000	25500	25000	120
4	130		27900	27400	26800	26200	25600	25200	24600	24100	23500	23100	22500	21900	21400	130
3	140			24400	23800	23200	22600	22200	21600	21000	20400	20000	19400	18900	18400	140
	150				21200	20600	20000	19600	19000	18500	17800	17400	16900	16300	15800	150
	160 170					18400	17800	17400 15400	16800	16200	15600	15200	14600	14100	13500	160
	180							13400	14800 13100	14200 12500	13600 11900	13200 11500	12600 10900	12100 10300	11500 9800	$\frac{170}{180}$
	190								13100	11000	10300	9900	9300	8800	8200	190
	200									11000	8900	8600	8000	7400	6600	200
	210											7300	6600	5800	5100	210
	JIB POINT								N POUN TH-FEE						iala i	JIB POINT
	RADIUS FEET	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+
ا ۵	110	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	29600	110
are	115	30000	30000	30000	30000	30000	30000	30000	30000	30000	29400	29000	28400	27900	27300	115
7	120 125	29600 28400	30000 29900	30000	30000 28800	30000 28300	29500	29100	28500	28000	27400	27000	26400	25800	25300	120
+0 F 0 0 I	130	27300	28200	29500 27800	27100	26600	27600 25900	27300 25600	26700 25000	26100 24400	25500 23800	25100 23400	24500 22800	24000 22300	23400 21700	125 130
-	140	27300	25200	24800	24100	23600	22900	22500	21900	21400	20800	20400	19800	19200	18700	140
2	150		20200	22200	21500	21000	20300	20000	19300	18800	18200	17800	17200	16600	16100	150
	160				19300	18700	18100	17700	17100	16500	15900	15500	14900	14400	13800	160
	170						16100	15700	15100	14600	13900	13500	12900	12400	11800	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			1.4.2					N POUN							JIB POINT
	RADIUS		aranaka es				stratili acuti qui e si cir	CHECKEL AND DELICATION	TH-FEE	HSINTRIKTHILHILIHIZKI						RADIUS
	FEET	110	120	130	140	150	160	170	180	190	200	210	220	230		FEET
۵	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	20000	20000	20000	20000		140
	150		20000	20000	20000	20000	20000	20000	20000 19600	19000	19600 18400	19200 18000	18600 17400	18100 16800		145 150
2	155		20000	20000	20000	20000	19400	19000	18400	17800	17200	16800	16200	15700		155
SU FOOT	160			20000	19500	19000	18300	17900	17300	16800	16100	15700	15100	14600		160
2	170				17600	17000	16400	16000	15300	14800	14200	13800	13200	12600		170
	180						14600	14200	13600	13000	12400	12000	11400	10900		180
	190 200							12700			10900	10500	9900	9300		190
	210								10700	10100 8900	9500 8200	9100 7800	8500 7200	7900 6500		200 210
	220									5700	7100	6700	5900	5100		220
	ЛВ	VALUE I					CABAC	TTIEST	N POUN	IDS		HENTHINE				ЛВ
	POINT	ya Hisian							TH-FEE							POINT
	RADIUS	110	120	120	140	150	und ich in soon bewe		te or recover to	TURE UP SE SEGRETO	200	210	220	220	Enryzbincisz (tilv	RADIUS
	150:	110 10000	120 10000	130	140	150	160	170	180	190	200	210	220	230		FEET
۹	150+ 155	10000	10000	10000 10000	10000 10000	10000 10000	10000	10000	10000 10000	10000 10000	10000	10000 10000	10000 10000	10000 10000		150+ 155
JID	160		10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000		160
7	170		2000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000		170
31	180				10000	10000	10000	10000	10000	10000	10000	10000	10000	10000		180
FOOT	190						10000	10000	10000	10000	10000	10000	10000	9400		190
2	200							10000	10000	10000	9600	9200	8600	8000		200
-	210								9600	9000	8400	8000	7400	6700		210
	220	1	. I		l	1			1	7900	7300	6800	6100	5300		220
	230		I		I .						6200	5600	4800	4000	l	230