



MANITOWOC

2900WC

LIFTCRANE

PILEDRIVER



specifications



2900WC

MANITOWOC

- 11' 1" crawler width for close-quarter portability . . . quickly converted to
- 18' 8" crawler width for wide-track, maximum-lift stability
- Independent hydraulic drive crawlers for on-axis short turning radius . . . crawlers may be driven in opposite directions independently
- Low clearance profile . . . 12' overall height with gantry down

SPECIFICATIONS

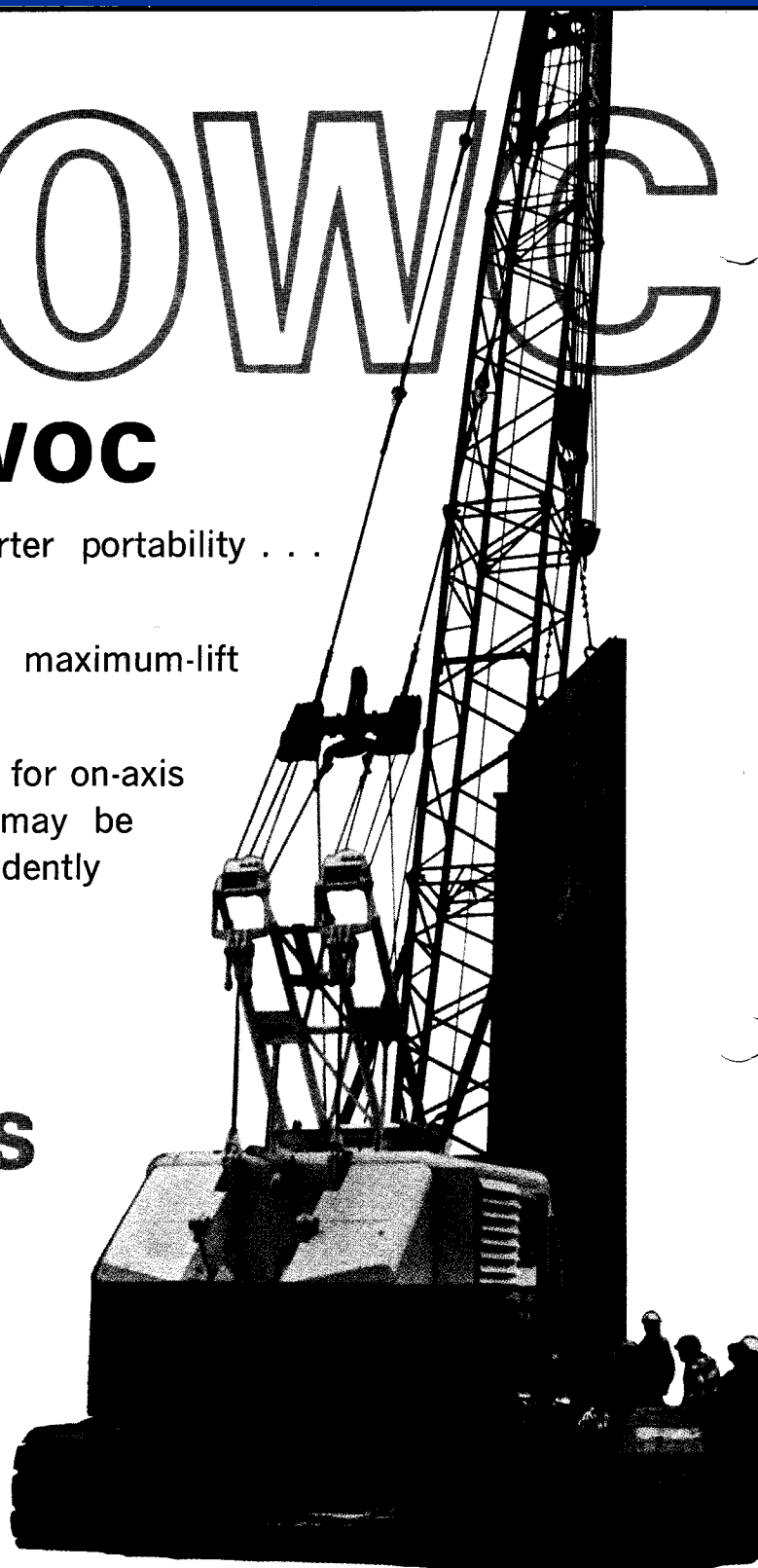
POWER

BASIC — Cummins HS-672-B (previously HS-6-B1) Diesel with three stage Twin Disc torque converter; 6 cylinder; 4 $\frac{7}{8}$ " bore, 6" stroke; 672 cu. in. displacement; 180 net H.P. @ 1700 rpm.

OPTIONAL — GM 6-71 Diesel, Model 6055C, with three stage Twin Disc torque converter; 6 cylinder; 4 $\frac{1}{4}$ " bore, 5" stroke; 426 cu. in. displacement; 165 net H.P. @ 1600 rpm with master engine clutch engaged for hoist, swing or travel; 195 net H.P. @ 2000 rpm with master engine clutch disengaged for travel only.

CONTROLS

	AIR	MANUAL	MANUAL-HYDRAULIC
Travel (hydraulic system)			X
Swing		X	
Swing Brake	X		
Rear Drum Clutch	X		
Rear Drum Brake		X	
Right Front Drum Clutch	X		
Right Front Drum Brake		X	
Left Front Drum Clutch	X		
Left Front Drum Brake		X	
Independent Boom Hoist	X		
Auxiliary Boom Hoist Brake		X	
Engine Clutch Control	X		
Swing Lock Control	X		
Two-Speed Shift Control	X		
Crawler Brakes — spring applied	X		
Carbody Hydraulic Jacks and Rams (optional)			X
Carbody Manual Jacks and Rams		X	



TANK AND GEAR CASE CAPACITY

Fuel Tank	75 Gal.
Cooling System with:	
Cummins HS-672-B	18 Gal.
GM 6-71 (optional)	12 Gal.
Drive Chain Case	3 $\frac{1}{2}$ Gal.
Engine Crankcase with:	
Cummins HS-672-B — less filter	7 Gal.
GM 6-71 (optional) — less filter	4 $\frac{1}{2}$ Gal.
Crawler Drive Transmission (both crawlers)	29 Gal.
Air Compressor	1 Qt.
Hydraulic Travel System	102 Gal.

**ROTATING BED**

House Rollers — 4: 2 front, 2 rear, anti-friction bearings.

Hook Rollers — 6: 2 front, 4 rear, anti-friction bearings.

Ring Gear — Roller Path: 86½" outside dia. with 4¼" pitch, internal teeth.

DRUM SHAFT DATA

	FRONT DRUM		REAR DRUM
	RIGHT	LEFT	
Drum Diameter	101½"	55½"	16"
Drum Width	101½"	9⅞"	22¼"
Lagging Rod Diameter	1"	21½"	none
Rope Diameter	7/8"	¾"	7/8"
Laying Capacity	42'	65'	98'
No. of Layers	9	5	8
Spooling Capacity	550'	370'	1200'

*Must have lagging — can't be used as bare drum.

SWING CLUTCHES (Main Drive Shaft)

CLUTCH SHAFT: Manitowoc, two (2) piece replaceable clutch friction disc. Roller bearing clutch cams. Anti-friction bearing mounted bevel pinions and clutch components.

SWING SPEED: 0 to 5.0 rpm

HYDRAULIC TRAVEL SYSTEM

Hydraulic Travel System consists of:

1. Two stage hydraulic pump mounted on front of power plant, with each stage providing a rated flow of 80 gal. per min. @ 2000 rpm.
2. Hydraulic control valves in back of operator, one valve for each crawler.
3. Hydraulic motor mounted in each crawler frame, with two speed hydraulic control valve.

Each stage powers one (1) crawler through control system and each hydraulic valve will control hydraulic oil to crawlers from 0 to maximum GPM depending on travel control lever position.

The hydraulic motor in each crawler is a two (2) stage motor. Hydraulic fluid to the motor is routed through a diverting valve providing two travel speeds: total flow through one (1) stage for high speed, or total flow through each of two (2) stages for low speed. Shifting is air controlled.

TRAVEL SPEEDS

	HIGH SPEED	LOW SPEED
Cummins HS-672-B	.81 mph	.42 mph
GM 6-71 (optional)	.96 mph	.50 mph

INDEPENDENT BOOM HOIST

DRUM: Double

CLUTCH SHAFT: Manitowoc, two (2) piece replaceable clutch disc, driven from the rear drum gear. Roller bearing clutch cams. Anti-friction bearing mounted bevel pinions and clutch components.

BRAKE: Automatic spring applied, air released.

AUXILIARY BOOM HOIST BRAKE: Manually controlled.

WORM GEAR & WHEEL: Bronze, fully enclosed, lubricated by circulating oil.

BEARINGS: Anti-friction.

BOOM STOPS

Automatic B.H. Clutch Throwout (air) with exclusive* Manitowoc Telescopic Air Cushioned Boom Stop.

LIFT CRANE BOOM (NO. 16)

The No. 16 Boom is standard on the 2900WC and is of tubular construction with pin joints.

BUTT SECTION: 16' long

Lower End — 45¾" wide

Upper End — 48¾" wide x 38¼" deep

INSERT "SHALLOW": 10' long

Both ends — 48¾" wide x 38¼" deep

May be fitted with a jib backstay lug and a pendant attachment lug.

NOTE: The 10' long shallow insert is used only between the boom butt and upper butt section, and between the boom butt and boom top.

UPPER BUTT SECTION (tapered): 15' long

Lower End — 48¾" wide x 38¼" deep

Upper End — 48¾" wide x 48¾" deep

May be fitted with jib backstay anchor lugs and pendant attachment lugs.

INSERT "DEEP": 10' long

Both Ends — 48¾" wide x 48¾" deep

May be fitted with jib backstay anchor lugs.

INSERT "DEEP": 20' long

Both Ends — 48¾" wide x 48¾" deep

May be fitted with pendant attachment lug or jib backstay anchor lugs.

LOWER TOP SECTION: 15' long

Lower End — 48¾" wide x 48¾" deep

Upper End — 48¾" wide x 38¼" deep

BOOM TOP SECTION: 25' long

Lower End — 48¾" wide x 38¼" deep

Open throat with an upper and lower point, with wire rope dead end anchors for the load line as an integral part of the boom point.

Lower Boom Point includes three (3) tapered roller bearing mounted 24" OD sheaves.

Upper Boom Point consisting of one (1) straight roller bearings mounted, wide flange 27" OD sheave.

NOTE: The upper boom point may have a two (2) straight roller bearings sheave arrangement in place of the single sheave.

EQUALIZER

The equalizer is fitted with 12" OD bushed sheaves. There is an additional sheave mounted ahead of the equalizer that may be used for handling light loads while setting up the boom, or other light work when the machine is rigged with the boom butt only.

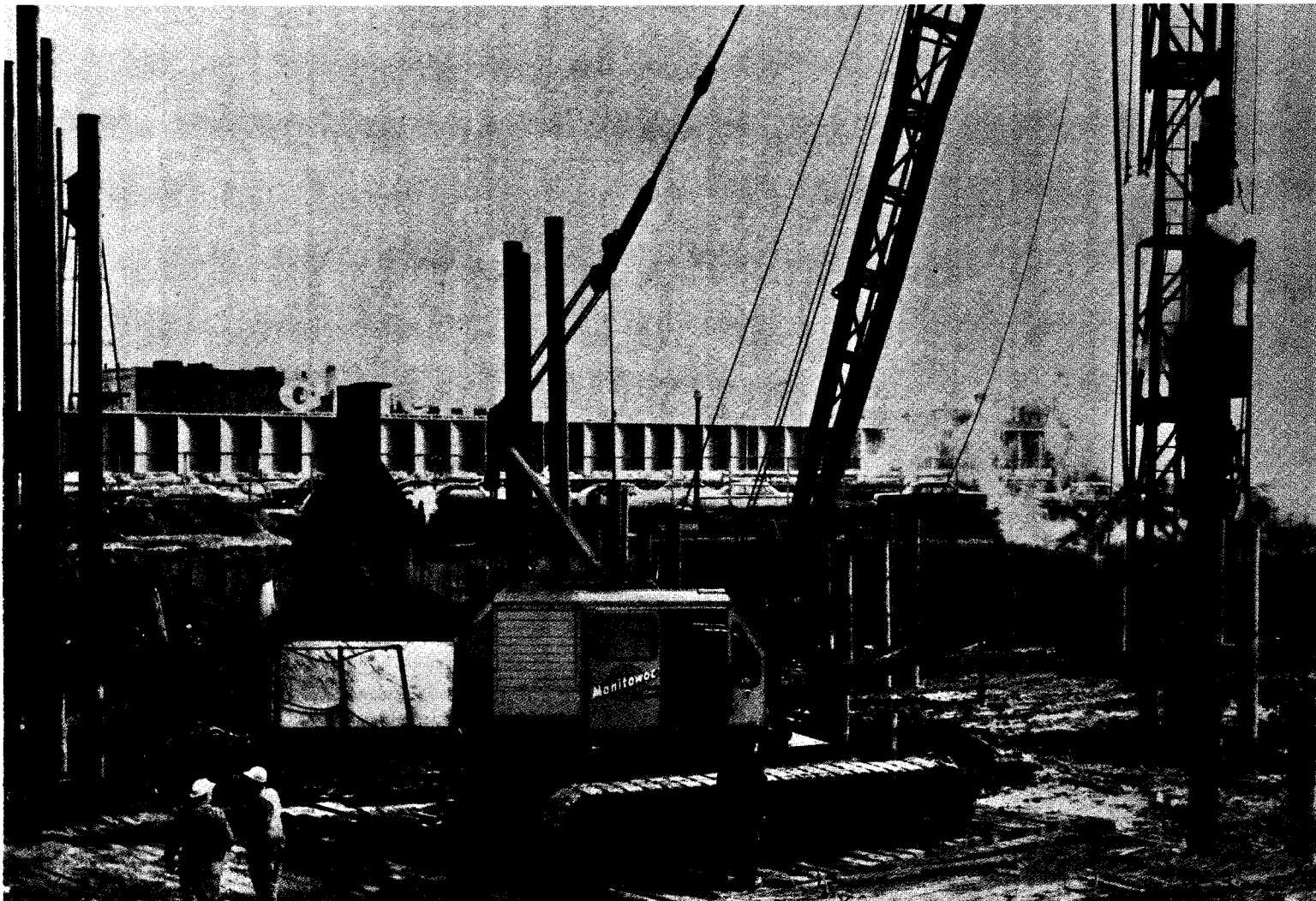
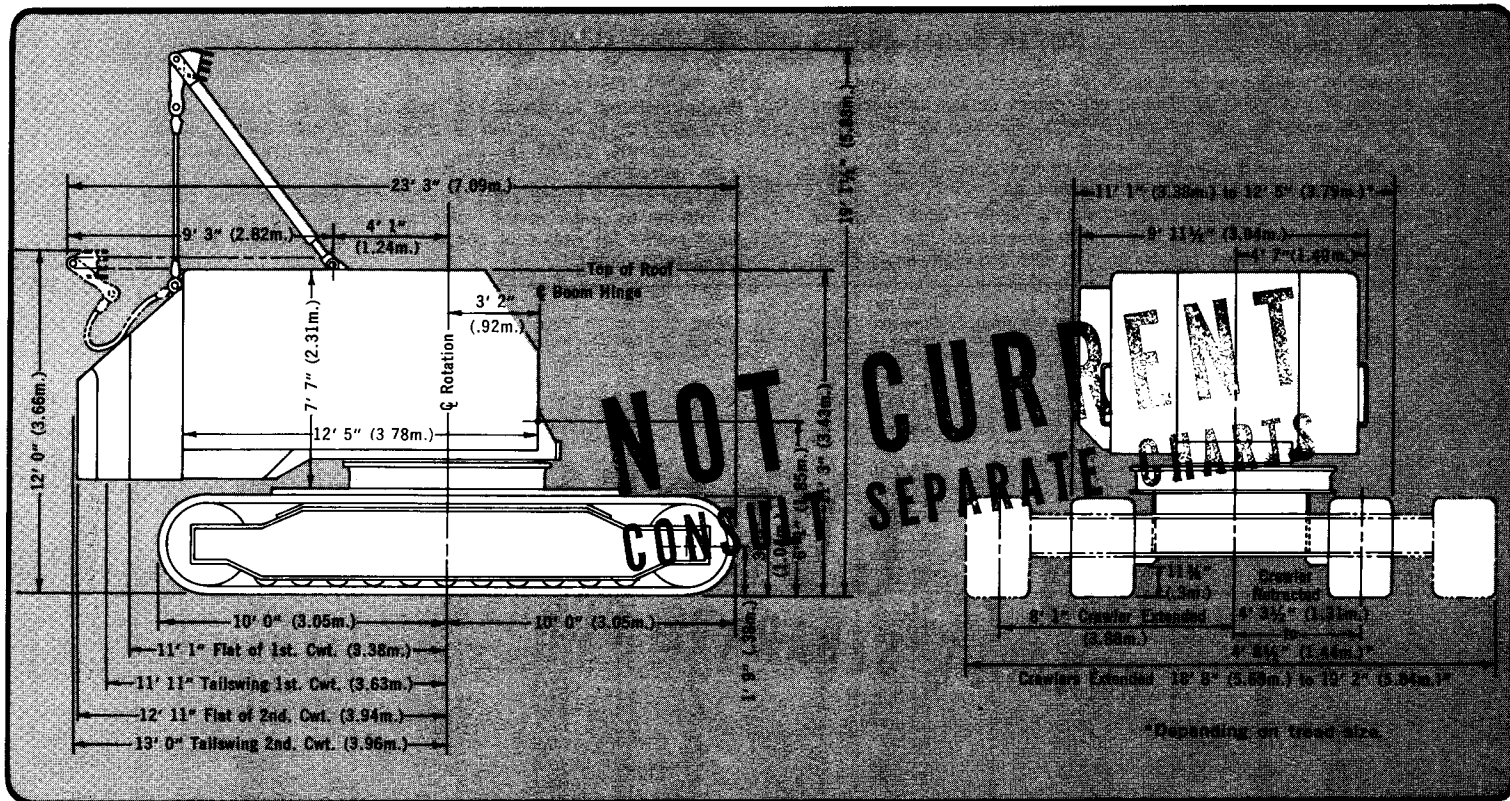
Wire top guides with 12" OD sheaves and rollers are used to guide the hoist wire ropes.

The nine foot retractable gantry is fitted with 12" OD, bushing mounted sheaves. Gantry has pendant type back hitch and hold down links for traveling with gantry down.

CRAWLER DATA

Crawler Length — over ends	20'
☼ Rotation over Drive Sprocket	10'
☼ Rotation over Front Roller	10'
Tread Width (36" optional)	30"
Pitch	10¾" (both)
Number of pads per crawler	96
Intermediate Double Flange Rollers Required per Crawler	11
Roller Diameter	12" Dia.
Width of Face (contact area)	3"
Roller Shaft Diameter (stationary)	4" Dia.
Front Double Flange Roller Diameter	33¾" Dia.
Width of Face (contact area)	3"
Roller Shaft Diameter (stationary)	6¼" Dia.
Drive Sprocket Diameter	40-3/16" Dia.
Width of Face (contact area)	4"
Sprocket Shaft Diameter (stationary)	6¼" Dia.
Bearings are Bronze Bushed with center grease pocket.	

OUTLINE DIMENSIONS





LIFTING CAPACITIES

2900WC LIFTCRANE, CRAWLERS RETRACTED AND EXTENDED

NO. 16 BOOM 36,000 LBS. OF COUNTERWEIGHT

Capacities are based on strength of structural components and do not exceed 75% of tipping with boom across crawlers and machine on firm, level ground. Ratings indicated by "*" represent boom positions which, without load, provide less than standard backward stability. Weight of load block, hook, weight ball, slings, etc., is considered part of load.

Machine is to be equipped with 20'-0" extendible width crawlers, 30" treads, 9' retractable gantry, 10 part boom hoist rigging, 1 3/8" pendant bridles, 18,000 lb. first counterweight and 18,000

lb. second counterweight.

Maximum boom length is 160' plus 60' of No. 124 jib. When 30', 40', 50' or 60' of jib is attached, deduct 1800 pounds, 2,050 pounds, 2,300 pounds and 2,500 pounds respectively, from capacities.

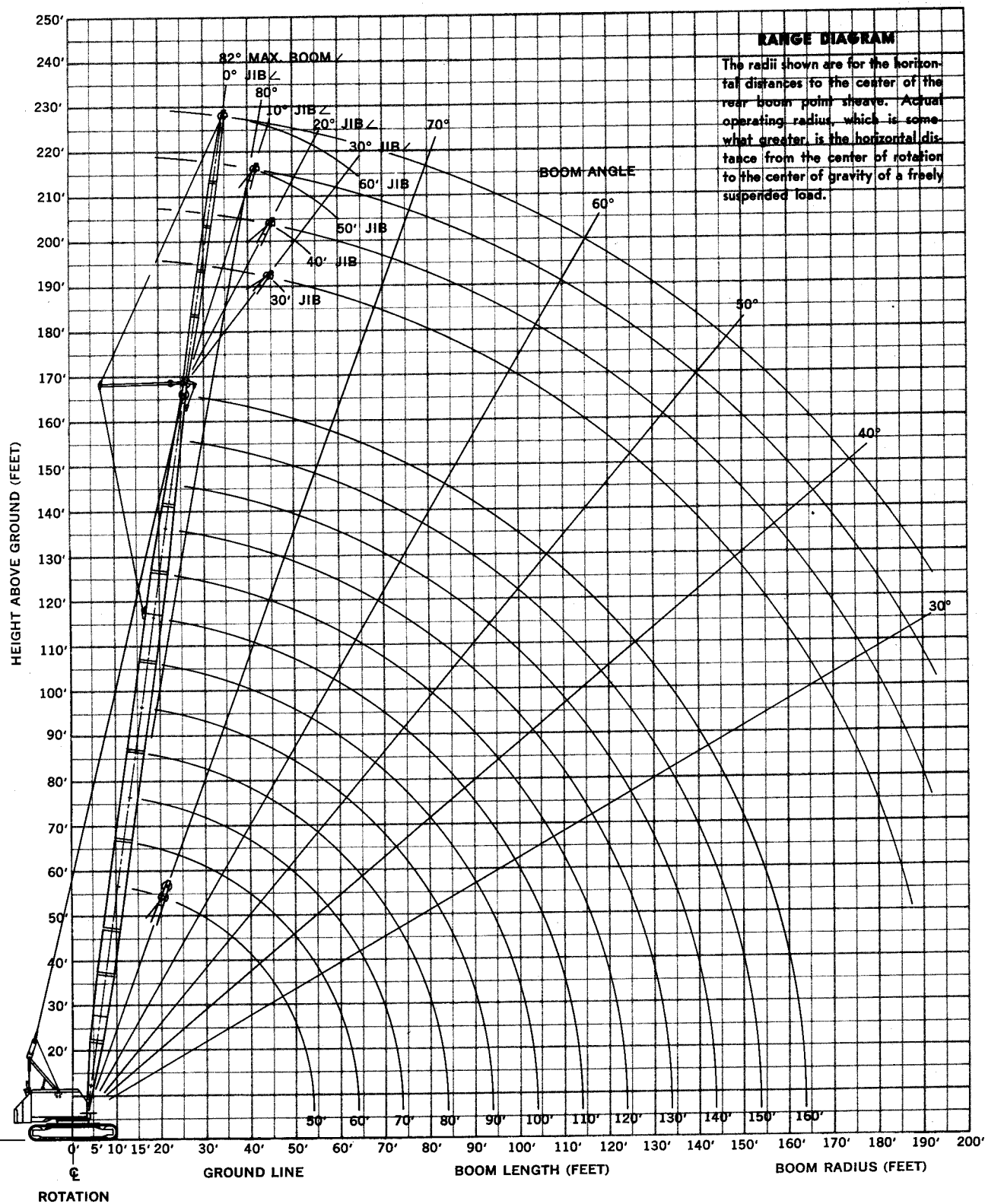
The radii shown below are the horizontal distances from center of rotation to center of the lower boom point. Add 12" to boom point radius for radius of sheaves when using single line over lower boom point.

Boom Length	Rad. in Feet	Boom Angle	Capacity Crawlers Retracted†	Pt./Line	Capacity Crawlers Extended‡	Pt./Line	Boom Length	Rad. in Feet	Boom Angle	Capacity Crawlers Retracted†	Pt./Line	Capacity Crawlers Extended‡	Pt./Line
40	12	77.2	104,800*	6	130,000	7	10	19	81.7	51,000	3	69,200	4
	15	72.8	73,700*	5	120,000	7		20	81.2	47,400	3	69,200	4
	18	68.2	56,600*	4	112,200	7		24	79.1	36,800	3	67,400	4
	20	65.1	49,000*	3	92,700	6		28	77.0	29,800	2	52,900	4
	24	58.6	38,400*	3	68,500	4		32	74.8	24,800	2	43,300	3
	28	51.6	31,400*	2	54,100	4		36	72.6	21,200	2	36,500	3
	32	43.9	26,500	2	44,600	3		40	70.4	18,300	2	31,400	2
	36	34.8	22,800	2	37,900	3		44	68.2	15,400	1	22,900	2
	40	23.0	20,000	2	29,800	2		48	66.0	12,500	1	17,700	2
								52	63.8	10,200	1	14,200	1
50	15	76.3	73,500*	5	120,000	7	20	20	81.9	42,200	3	69,200	4
	18	72.7	56,600*	4	112,200	7		24	80.0	32,500	3	67,200	4
	20	70.3	48,000*	3	92,600	6		28	78.1	25,500	2	52,700	4
	24	65.4	38,000*	3	68,400	4		32	76.1	20,500	2	45,100	3
	28	60.2	31,200*	2	54,000	4		36	74.1	20,900	2	36,300	3
	32	54.8	26,200	2	44,400	3		40	72.1	18,000	2	31,100	2
	36	49.0	22,600	2	37,700	3		50	67.0	13,100	1	22,700	2
	40	42.6	19,700	2	32,600	2		60	61.7	10,400	1	17,400	2
	50	20.5	14,800	1	22,800	2		70	56.2	7,800	1	13,900	1
								80	50.2	6,200	1	11,400	1
60	15	78.6	73,500*	5	120,000	7	30	90	43.6	5,000	1	9,500	1
	18	75.7	56,600*	4	111,800	7		100	36.2	4,000	1	8,000	1
	20	73.7	48,400*	3	92,400	6		110	27.1	3,200	1	6,800	1
	24	69.7	37,800	3	68,200	4		22	81.7	41,000	3	66,600	4
	28	65.6	30,900	2	53,800	4		24	80.8	36,300	3	64,500	4
	32	61.3	25,900	2	44,200	3		28	79.0	29,300	2	52,500	4
	36	56.8	22,300	2	37,400	3		32	77.2	24,400	2	42,900	3
	40	52.1	19,400	2	32,300	2		36	75.4	20,700	2	36,100	3
	50	38.7	14,500	1	23,900	2		40	73.5	17,800	2	31,000	2
	60	18.7	11,400	1	17,900	2		50	68.9	12,900	1	22,500	2
70	15	80.3	73,100*	5	109,500	7	40	60	64.1	9,800	1	17,300	1
	18	77.8	56,000*	4	101,000	6		70	59.1	7,600	1	13,700	1
	20	76.1	48,300	3	92,300	6		80	53.8	6,000	1	11,200	1
	24	72.7	37,700	3	68,100	4		90	48.1	4,800	1	9,300	1
	28	69.2	30,700	2	53,600	4		100	41.9	3,800	1	7,800	1
	32	65.7	25,800	2	44,100	3		110	34.7	3,000	1	6,600	1
	36	62.0	22,100	2	37,300	3		120	26.0	2,400	1	5,600	1
	40	58.3	19,200	2	32,200	2		24	81.4	36,100	2	51,800	3
	50	48.0	14,300	1	23,700	2		28	79.8	29,100	2	51,800	3
	60	35.7	11,200	1	18,600	2		32	78.1	24,100	2	42,700	3
80	15	81.5	72,800*	5	103,800	6	50	36	76.4	20,400	2	35,900	3
	18	79.3	55,700	4	97,300	6		40	74.7	17,600	2	30,700	2
	20	77.9	48,000	3	92,100	6		50	70.5	12,700	1	22,200	2
	24	74.9	37,300	3	67,800	4		60	66.0	9,500	1	17,000	1
	28	71.9	30,300	2	53,400	4		70	61.6	7,000	1	13,500	1
	32	68.9	25,400	2	43,800	3		80	56.6	5,000	1	10,900	1
	36	65.8	21,700	2	37,000	3		90	51.7	4,000	1	9,000	1
	40	62.6	18,900	2	31,900	2		100	46.2	3,000	1	7,500	1
	50	54.2	14,000	1	23,400	2		110	40.0	2,100	1	6,300	1
	60	44.7	10,800	1	18,200	2		120	33.4	2,100	1	5,300	1
90	15	83.3	66,000	4	88,000	6	60	130	25.0	1,500	1	4,500	1
	18	80.5	55,500	3	83,000	5		24	81.2	36,100	2	51,800	3
	20	79.2	47,800	3	88,600	6		28	79.6	23,700	2	41,300	3
	24	76.6	37,200	3	67,700	4		32	78.2	20,000	2	35,500	3
	28	74.0	30,200	2	53,000	4		36	76.7	17,100	1	30,300	2
	32	71.3	25,300	2	43,700	3		40	75.8	17,400	2	30,600	2
	36	68.6	21,600	2	38,000	3		50	71.8	12,400	1	22,000	2
	40	65.8	18,800	2	31,800	2		60	67.7	9,300	1	16,800	1
	50	58.6	13,900	1	23,300	2		70	63.5	7,100	1	13,300	1
	60	50.8	10,700	1	18,100	2		80	59.2	5,500	1	10,700	1
100	15	85.0	60,000	4	80,000	5	70	90	54.6	4,300	1	8,800	1
	18	81.5	55,300	4	86,000	5		100	49.8	3,300	1	7,300	1
	20	80.3	47,600	3	83,300	5		110	44.6	2,500	1	6,100	1
	24	78.0	37,000	3	67,600	4		120	38.8	1,900	1	5,100	1
	28	75.6	30,000	2	53,100	4		130	32.3	1,300	1	4,300	1
	32	73.2	25,000	2	43,500	3		140	24.2	1,000	1	3,600	1
	36	70.8	21,300	2	36,600	3		28	81.1	28,600	2	42,900	3
	40	68.4	18,500	2	31,500	2		32	79.6	23,700	2	41,300	3
	50	62.1	13,600	1	23,100	2		36	78.2	20,000	2	35,500	3
	60	55.4	10,400	1	17,900	2		40	76.7	17,100	1	30,300	2
110	70	48.1	8,300	1	14,400	1	80	50	73.0	12,200	1	21,800	2
	80	39.8	6,700	1	11,800	1		60	69.2	9,000	1	16,600	1
	90	29.7	5,400	1	9,900	1		70	65.3	6,800	1	13,000	1
								80	61.3	5,200	1	10,500	1
								90	57.1	4,000	1	8,600	1
								100	52.8	3,000	1	7,100	1
								110	48.1	2,300	1	5,800	1
								120	43.1	1,600	1	4,900	1
								130	37.6	1,000	1	4,000	1
								140	31.2	700	1	3,300	1
								150	23.4	500	1	2,700	1

Drwg. #4794, 1-11-65

†Drwg. #5151, 1-4-65

‡Drwg. #5150, 1-4-65



Because of a program of continuing improvements, Manitowoc Engineering Co. reserves the right to change this description at anytime, without notice.

The Manitowoc logo, featuring the word "Manitowoc" in a bold, white, sans-serif font with a black outline, slanted upwards to the right. It is set against a solid black circular background.

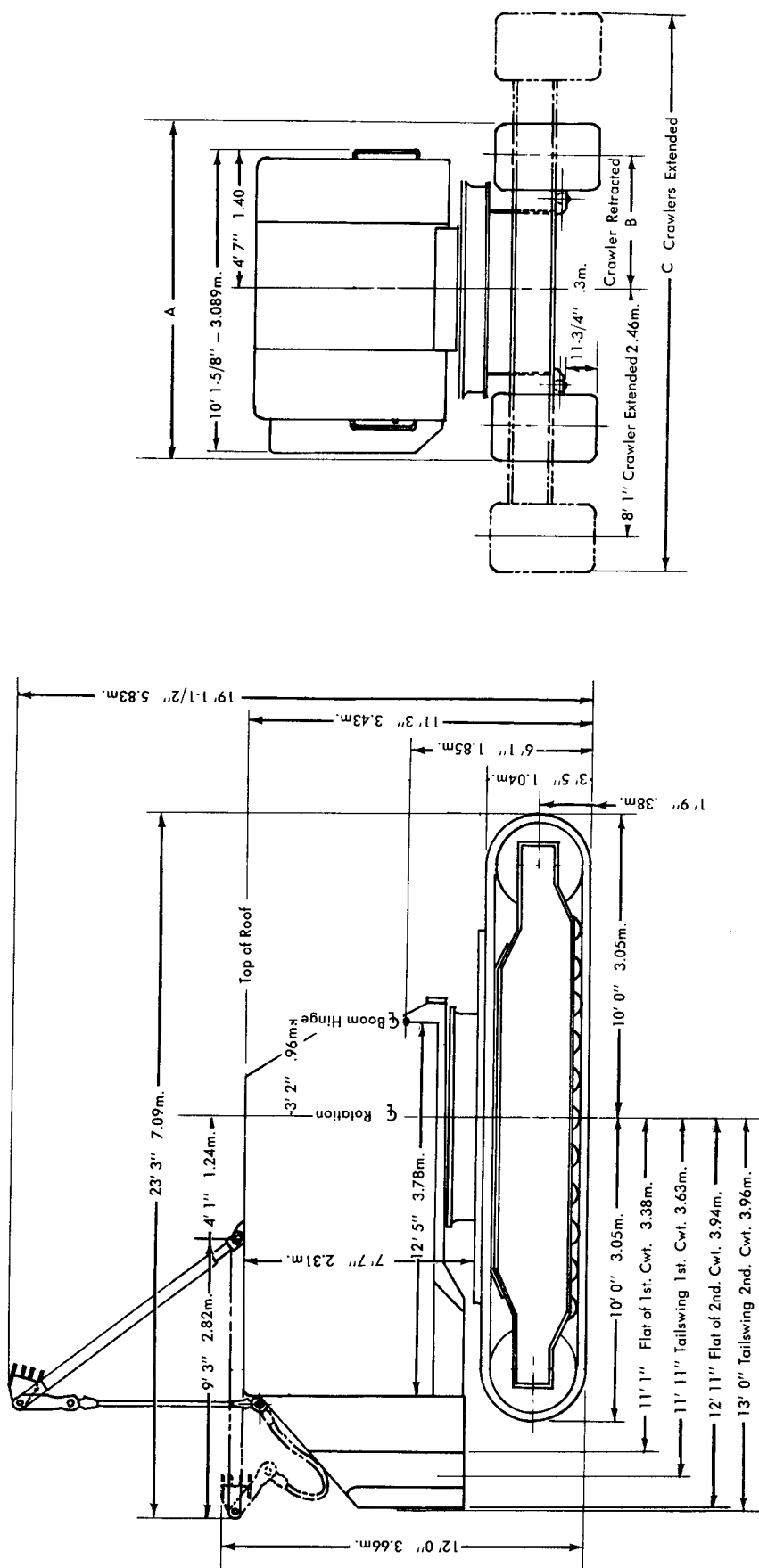
MANITOWOC ENGINEERING CO.
(A division of The Manitowoc Company, Inc.)
Manitowoc, Wisconsin 54220



MANITOWOC ENGINEERING CO.

A Division of The Manitowoc Company, Inc.

Manitowoc, Wisconsin



Dimension	30" Treads	36" Treads
A	11' 5" - 3.48m.	12' 5" - 3.78m.
B	4' 5 1/2" - 1.36m.	4' 8 1/2" - 1.44m.
C	18' 8" - 5.69m.	19' 2" - 5.84m.

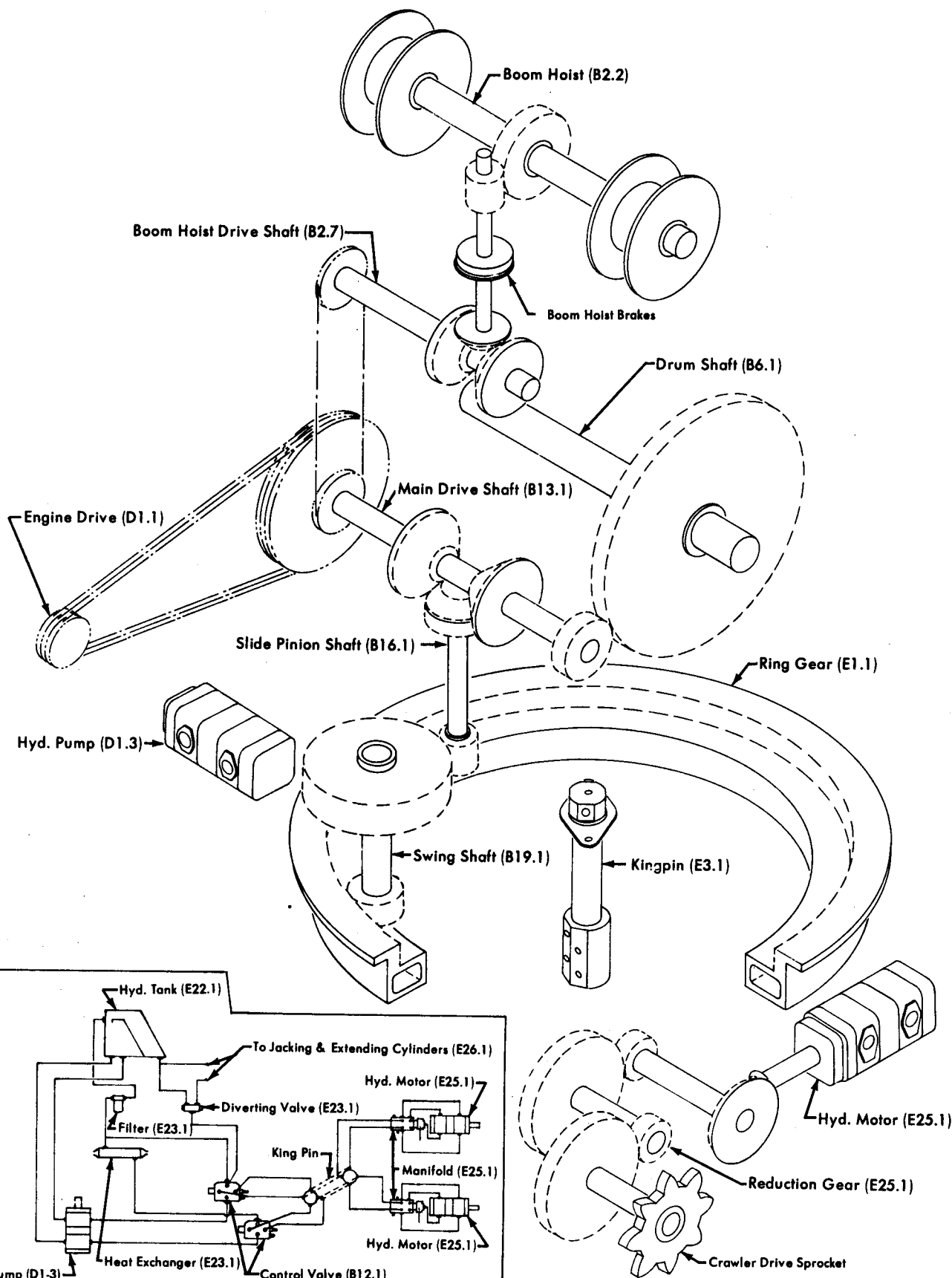
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MANITOWOC ENGINEERING CO.

A Division of The Manitowoc Company, Inc.

Manitowoc, Wisconsin



Schematic - Crawler Drive

MODEL 2900WC

NOTE: The numbers following the descriptions above are the Parts Manual page numbers.

POWER TRAIN

**MANITOWOC ENGINEERING CO.**

(A division of The Manitowoc Company, Inc.) Manitowoc, Wisconsin 54220

**DRUM AND LAGGING CHART** **2900WC**

APPLICATION	DRUM	PART NUMBER	DIA.	WIDTH	TYPE OF DRUM OR LAGGING	WIRE ROPE SIZES
<u>LIFTCRANE</u>						
Hoist	Rear	33854	16"	22-1/8"	Bare	3/4"
Whip	Left Front	180205	21-1/2"	9-1/8"	Plain	3/4"
Auxiliary	Right Front	181956	14"	10-1/2"	Plain	3/4"
<u>CLAMSHELL</u>						
Closing	Right Front	31612	20"	10-1/2"	Grooved	3/4"
Holding	Left Front	23041	21-1/2"	9-1/8"	Grooved	3/4"
Auxiliary	Rear	33854	16"	22-1/8"	Bare	7/8"
<u>DRAGLINE – HINGED FAIRLEAD</u>						
Drag	Right Front	41660	17-5/8"	10-1/2"	Grooved	7/8"
Hoist	Left Front	23046	19"	9-1/8"	Grooved	3/4"
Auxiliary	Rear	33854	16"	22-1/8"	Bare	7/8"
<u>PILEDRIIVER</u>						
Hoist	Rear	33854	16"	22-1/8"	Bare	7/8"
Whip	Left Front	180205	21-1/2"	9-1/8"	Plain	3/4"
Auxiliary	Right Front	181956	14"	10-1/2"	Plain	3/4"



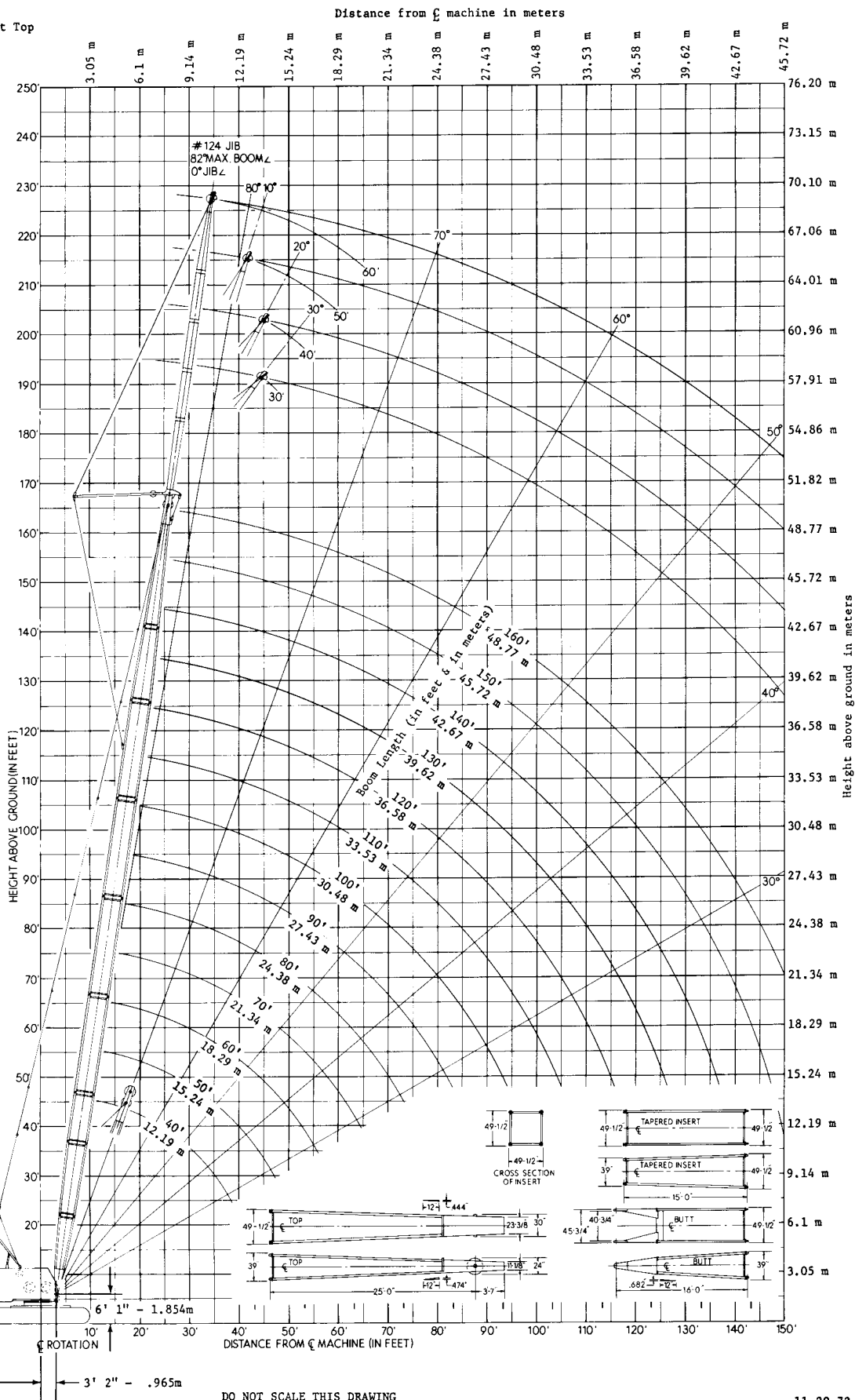
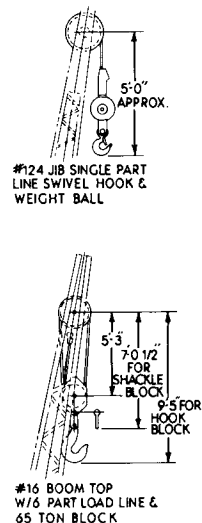
MANITOWOC ENGINEERING CO.

A Division of The Manitowoc Company, Inc.

Manitowoc, Wisconsin

MAXIMUM BOOM ANGLE
82° For No. 16 Boom W/Open Throat Top

Distance from C machine in meters



RANGE DIAGRAM-M2900WC-No. 16 BOOM-124 JIB

11-20-72

**MANITOWOC ENGINEERING CO.**

(A division of The Manitowoc Company, Inc.) Manitowoc, Wisconsin 54220

**LIFTCRANE CAPACITIES**MEETS ANSI B30.5
REQUIREMENTS EXCEPT
WHERE NOTED WITH B**2900WC
CRAWLER****BOOM NO. 16 WITH OPEN THROAT TOP
20'0" CRAWLERS — 36,000 LB. COUNTERWEIGHT****LIFTING CAPACITIES:** Capacities for various boom lengths and operating radii may be based on per cent of tipping, strength of structural components, operating speeds and other factors.

Capacities are for freely suspended loads and do not exceed 75% of static tipping loads. Capacities based on structural competence are shown by shaded areas.

Capacities indicated by "B" represent boom positions which, without load, provide less than required ANSI B30.5 backward stability.

Capacities are shown in pounds. 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 gantry in working position and under conditions referred to in rigging drawing No. 49598 and wire rope specification chart No. 6445-A.

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

OPERATING RADIUS: Operating radius is the horizontal distance from the axis of rotation to the center of vertical hoist line or load block with the load freely suspended. Add 11" 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 20'0" extendible crawlers, 30" or 36" treads, 9' retractable gantry, 10 part boom hoist reeving, two 1-3/8" pendants, 1st cwt. 18,000 lbs., 2nd cwt. 18,000 lbs. Total counterweight 36,000 pounds.**HOIST REEVEING FOR MAIN LOAD BLOCK**

No. Parts of Line	1	2	3	4	5	6
Max. Load — Lbs.	18,400	36,800	55,200	73,600	92,000	110,400
No. Parts of Line	7	8				
Max. Load — Lbs.	123,500	140,000				

LOAD AND WHIP LINE SPECIFICATIONS

LOAD LINE: 3/4" — 6x25 Bright Super Tensile, Monitor AAA, Regular Lay, IWRC. Minimum Breaking Strength 32.3 Ton.

WHIP LINE: 3/4" — 6x25 Filler Wire, Improved Plow Steel, Regular Lay, IWRC. Minimum Breaking Strength 25.6 Ton. Maximum Load — 13,000 lbs. per Line.

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED

OVER FRONT OF BLOCKED CRAWLERS		OVER SIDE OF EXTENDED CRAWLERS		OVER SIDE OF RETRACTED CRAWLERS	
Boom Lgth.	Jib No. 124	Boom Lgth.	Jib No. 124	Boom Lgth.	Jib No. 124
160'	—	160'	—	140'	—
160'	60'	150'	60'	130'	—
				120'	40'
				110'	60'

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

**(A) DEDUCT FROM CAPACITIES
WHEN JIB IS ATTACHED**

Jib Length	Jib No. 124
30'	1,800 Lb.
40'	2,050 Lb.
50'	2,300 Lb.
60'	2,500 Lb.

Boom Lgth.: Feet	Oper. Rad.: Feet	Bo. Ang.: Deg.	Boom Point: Elev.	Capacity: Crawlers Retracted	Capacity: Crawlers Extended	Boom Lgth.: Feet	Oper. Rad.: Feet	Bo. Ang.: Deg.	Boom Point: Elev.	Capacity: Crawlers Retracted	Capacity: Crawlers Extended	Boom Lgth.: Feet	Oper. Rad.: Feet	Bo. Ang.: Deg.	Boom Point: Elev.	Capacity: Crawlers Retracted	Capacity: Crawlers Extended
40	12	77.6	46.1	106,600B	140,000	60	13	80.7	66.3	93,000B	131,600	80	38	60.6	67.9	20,600	25,800
	13	76.1	45.9	93,500B	132,000		14	79.8	66.1	82,600B	114,600		40	58.7	66.8	19,300	24,100
	14	74.7	45.6	83,200B	115,000		15	78.8	65.9	74,300B	101,300		45	53.9	63.4	16,500	20,500
	15	73.2	45.3	74,900B	101,800		16	77.9	65.7	67,500B	90,800		50	48.7	59.4	14,300	17,800
	16	71.8	45.0	68,000B	91,200		17	76.9	65.5	61,800B	82,200		55	43.1	54.6	12,500	15,600
	17	70.3	44.7	62,300B	82,600		18	75.9	65.2	56,900B	75,000		60	36.8	48.6	11,100	13,900
	18	68.8	44.3	57,400B	75,500		19	75.0	65.0	52,700B	68,900		65	29.4	41.0	9,900	12,400
	19	67.3	43.9	53,300B	69,400		20	74.0	64.7	49,000B	63,700		70	19.7	30.0	8,900	11,200
	20	65.8	43.4	49,600B	64,200		22	72.0	64.1	43,000	55,300		15	81.6	86.2	73,900B	101,000
	22	62.7	42.5	43,600B	55,800		24	70.0	63.4	38,200	48,800		16	80.9	86.0	67,100B	90,500
	24	59.5	41.4	38,800B	49,300		26	68.0	62.6	34,300	43,600		17	80.2	85.9	61,300B	81,800
	26	56.2	40.1	34,900B	44,100		28	66.0	61.8	31,100	39,300		18	79.4	85.7	56,500	74,600
50	28	52.7	38.7	31,700B	39,800	70	30	63.9	60.8	28,400	35,700		19	78.7	85.5	52,300	68,600
	30	49.1	37.1	29,000	36,300		32	61.8	59.8	26,100	32,700		20	78.0	85.3	48,600	63,400
	32	45.3	35.2	26,700	33,300		34	59.6	58.7	24,100	30,100		22	76.6	84.8	42,600	54,900
	34	41.2	33.1	24,700	30,700		36	57.4	57.5	22,400	27,900		24	75.1	84.3	37,800	48,400
	36	36.8	30.6	23,000	28,500		38	55.2	56.1	20,800	26,000		26	73.6	83.8	33,900	43,200
	38	31.8	27.7	21,400	26,500		40	52.9	54.7	19,500	24,200		28	72.1	83.2	30,700	38,900
	40	26.1	24.1	20,100	24,800		45	46.7	50.5	16,600	20,700		30	70.7	82.5	28,000	35,300
							50	39.8	45.1	14,500	18,000		32	69.1	81.8	25,700	32,300
	12	80.0	56.3	106,300B	140,000		55	31.8	38.2	12,700	15,800		34	67.6	81.0	23,700	29,700
	13	78.9	56.1	93,200B	131,800		60	21.3	28.2	11,300	14,100		36	66.1	80.1	21,900	27,500
	14	77.7	55.9	82,900B	114,800								38	64.5	79.2	20,400	25,500
	15	76.6	55.7	74,600B	101,600		14	81.2	76.2	82,500B	114,500	90	40	63.0	78.2	19,000	23,800
	16	75.4	55.4	67,800B	91,000		15	80.4	76.1	74,200B	101,200		45	58.9	75.4	16,200	20,300
60	17	74.3	55.2	62,000B	82,400		16	79.6	75.9	67,300B	90,700		50	54.7	72.2	14,000	17,500
	18	73.1	54.9	57,200B	75,200		17	78.8	75.7	61,600B	82,000		55	50.2	68.3	12,200	15,400
	19	71.9	54.5	53,000B	69,200		18	77.9	75.5	56,700B	74,900		60	45.4	63.8	10,800	13,600
	20	70.7	54.2	49,300B	64,000		19	77.1	75.3	52,500B	68,800		65	40.2	58.4	9,600	12,100
	22	68.3	53.5	43,300B	55,600		20	76.3	75.0	48,900	63,600		70	34.4	51.8	8,600	10,900
	24	65.9	52.6	38,500B	49,100		22	74.6	74.5	42,800	55,200		75	27.5	43.5	7,700	9,800
	26	63.4	51.7	34,600	43,800		24	72.9	73.9	38,100	48,600		80	18.5	31.7	7,000	8,900
	28	60.9	50.6	31,400	39,600		26	71.2	73.3	34,200	43,400						
	30	58.3	49.4	28,700	36,000		28	69.5	72.6	30,900	39,100						
	32	55.6	48.1	26,400	33,000		30	67.8	71.8	28,200	35,600						
	34	52.8	46.7	24,400	30,400		32	66.0	70.9	25,900	32,600						
	36	49.9	45.1	22,700	28,200		34	64.3	70.0	23,900	30,000						
	38	46.9	43.3	21,100	26,300		36	62.5	69.0	22,200	27,700						

Capacities continued
on reverse side.

Form No. 6723-B, 2-23-76/GA

**SEE CONDITIONS ON REVERSE SIDE**

Boom Lgth.: Feet	Oper. Rad.: Feet	Bm. Ang.: Deg.	Boom Point: Elev.	Capacity: Crawlers Retracted	Capacity: Crawlers Extended
90	17	81.3	96.0	61,200	81,700
	18	80.6	95.8	56,300	74,500
	19	80.0	95.7	52,100	68,400
	20	79.3	95.5	48,400	63,200
	22	78.1	95.1	42,400	54,800
	24	76.8	94.6	37,600	48,200
	26	75.5	94.2	33,700	43,000
	28	74.2	93.6	30,500	38,700
	30	72.9	93.0	27,800	35,100
	32	71.5	92.4	25,400	32,100
100	34	70.2	91.7	23,400	29,500
	36	68.9	90.9	21,700	27,300
	38	67.5	90.1	20,200	25,300
	40	66.1	89.3	18,800	23,600
	45	62.6	86.9	16,000	20,100
	50	59.0	84.1	13,800	17,300
	55	55.3	80.9	12,000	15,200
	60	51.4	77.1	10,600	13,400
	65	47.2	72.8	9,400	11,900
	70	42.7	67.8	8,400	10,700
110	75	37.9	61.9	7,500	9,600
	80	32.4	54.8	6,700	8,700
	85	25.9	45.9	6,100	7,900
	19	81.0	105.8	52,000	68,400
	20	80.4	105.6	48,400	63,200
	22	79.3	105.3	42,300	54,700
	24	78.1	104.9	37,500	48,200
	26	76.9	104.4	33,700	42,900
	28	75.8	104.0	30,400	38,700
	30	74.6	103.4	27,700	35,100
120	32	73.4	102.9	25,400	32,100
	34	72.2	102.2	23,400	29,500
	36	71.0	101.6	21,600	27,300
	38	69.8	100.9	20,100	25,300
	40	68.6	100.1	18,700	23,600
	45	65.5	98.0	15,900	20,000
	50	62.4	95.5	13,700	17,300
	55	59.1	92.7	12,000	15,100
	60	55.8	89.6	10,500	13,300
	65	52.3	85.9	9,300	11,900
130	70	48.6	81.8	8,300	10,600
	75	44.7	77.1	7,400	9,600
	80	40.5	71.6	6,700	8,700
	85	35.9	65.3	6,000	7,900
	90	30.7	57.6	5,400	7,100
	95	24.6	48.1	4,900	6,500
	22	80.2	115.5	42,100	54,600
	24	79.2	115.1	37,300	48,000
	26	78.1	114.7	33,400	42,700
	28	77.1	114.2	30,200	38,500
140	30	76.0	113.8	27,500	34,900
	32	74.9	113.3	25,200	31,900
	34	73.9	112.7	23,200	29,300
	36	72.8	112.1	21,400	27,000
	38	71.7	111.5	19,900	25,100
	40	70.6	110.8	18,500	23,400
	45	67.9	108.9	15,700	19,800
	50	65.0	106.7	13,500	17,100
	55	62.2	104.2	11,700	14,900
	60	59.2	101.4	10,300	13,100
150	65	56.1	98.2	9,100	11,700
	70	53.0	94.7	8,100	10,400
	75	49.7	90.7	7,200	9,300
	80	46.2	86.2	6,400	8,400
	85	42.5	81.1	5,800	7,600
	90	38.5	75.2	5,200	6,900
	95	34.2	68.4	4,700	6,300
	100	29.3	60.3	4,200	5,700
	105	23.4	50.2	3,800	5,200

Boom Lgth.: Feet	Oper. Rad.: Feet	Bm. Ang.: Deg.	Boom Point: Elev.	Capacity: Crawlers Retracted	Capacity: Crawlers Extended
160	26	79.1	124.9	33,200	42,500
	28	78.2	124.5	29,900	38,200
	30	77.2	124.0	27,200	34,600
	32	76.2	123.6	24,900	31,600
	34	75.2	123.1	22,900	29,000
	36	74.3	122.5	21,100	26,800
	38	73.3	121.9	19,600	24,800
	40	72.3	121.3	18,200	23,100
	45	69.8	119.6	15,400	19,500
	50	67.2	117.6	13,200	16,800
170	55	64.6	115.4	11,500	14,600
	60	62.0	112.9	10,000	12,900
	65	59.3	110.1	8,800	11,400
	70	56.5	106.9	7,800	10,100
	75	53.6	103.4	6,900	9,100
	80	50.6	99.5	6,200	8,200
	85	47.4	95.2	5,500	7,400
	90	44.1	90.3	4,900	6,600
	95	40.6	84.9	4,400	6,000
	100	36.8	78.6	3,900	5,500
180	105	32.7	71.4	3,500	5,000
	110	28.0	62.9		4,500
	115	22.4	52.3		4,100
	28	79.1	134.7	29,700	38,000
	30	78.2	134.3	27,000	34,400
	32	77.3	133.8	24,700	31,400
	34	76.4	133.4	22,700	28,800
	36	75.5	132.9	20,900	26,600
	38	74.6	132.3	19,400	24,600
	40	73.7	131.8	18,000	22,900
190	45	71.4	130.2	15,200	19,300
	50	69.1	128.4	13,000	16,600
	55	66.7	126.4	11,300	14,400
	60	64.3	124.1	9,800	12,600
	65	61.8	121.6	8,600	11,200
	70	59.3	118.7	7,600	9,900
	75	56.7	115.6	6,700	8,900
	80	54.1	112.2	6,000	7,900
	85	51.3	108.4	5,300	7,100
	90	48.5	104.1	4,700	6,400
200	95	45.5	99.5	4,200	5,800
	100	42.3	94.3	3,700	5,200
	105	39.0	88.5	3,300	4,700
	110	35.4	81.9		4,300
	115	31.4	74.3		3,900
	120	26.9	65.3		3,500
	30	79.0	144.5	26,800	34,200
	32	78.2	144.1	24,400	31,200
	34	77.4	143.6	22,400	28,600
	36	76.5	143.2	20,700	26,300
210	38	75.7	142.7	19,100	24,400
	40	74.9	142.2	17,800	22,600
	45	72.7	140.7	14,900	19,100
	50	70.6	139.1	12,700	16,300
	55	68.4	137.2	11,000	14,200
	60	66.2	135.1	9,500	12,400
	65	64.0	132.8	8,300	10,900
	70	61.7	130.2	7,300	9,700
	75	59.4	127.4	6,400	8,600
	80	57.0	124.3	5,700	7,700
220	85	54.5	120.9	5,000	6,900
	90	52.0	117.2	4,400	6,200
	95	49.4	113.1	3,900	5,500
	100	46.6	108.6	3,400	5,000
	105	43.8	103.6	3,000	4,500
	110	40.7	98.1		4,000
	115	37.5	91.9		3,600
	120	34.0	85.0		3,200
	34	78.2	153.9	22,200	28,400
	36	77.4	153.4	20,500	26,100
230	38	76.7	153.0	18,900	24,200
	40	75.9	152.5	17,600	22,400
	45	73.9	151.2	14,700	18,900
	50	71.9	149.6	12,500	16,100
	55	69.9	147.9	10,800	13,900
	60	67.9	146.0	9,300	12,200
	65	65.8	143.8	8,100	10,700
	70	63.7	141.5	7,100	9,400
	75	61.6	138.9	6,200	8,400
	80	59.4	136.1	5,500	7,500
240	85	57.2	133.0	4,800	6,700
	90	54.9	129.6	4,200	6,000
	95	52.5	125.9	3,700	5,300
	100	50.1	121.9	3,200	4,800
	105	47.6	117.6		4,300
	110	45.0	112.8		3,800
	115	42.2	107.5		3,400
	120	39.3	101.7		3,000

Boom Lgth.: Feet	Oper. Rad.: Feet	Bm. Ang.: Deg.	Boom Point: Elev.	Capacity: Crawlers Retracted	Capacity: Crawlers Extended
250	36	78.2	163.7	20,200	25,900
	38	77.5	163.2	18,700	23,900
	40	76.8	162.8	17,300	22,200
	45	74.9	161.5	14,500	18,600
	50	73.1	160.1	12,300	15,900
	55	71.2	158.5	10,500	13,700
	60	69.3	156.7	9,000	11,900
	65	67.4	154.7	7,800	10,400
	70	65.5	152.5	6,800	9,200
	75	63.5	150.1	5,900	8,100
260	80	61.5	147.5	5,200	7,200
	85	59.5	144.7	4,500	6,400
	90	57.4	141.6	3,900	5,700
	95	55.2	138.3	3,400	5,100
	100	53.0	134.7		4,500
	105	50.8	130.8		4,000
	110	48.4	126.5		3,500
	115	46.0	121.9		3,100

Combined From Charts:
 No. 6723-B 2-9-76
 No. 6723-C 2-23-76
 No. 6445-A 1-29-75
 No. 6720 12-5-75

**MANITOWOC ENGINEERING CO.**

(A division of The Manitowoc Company, Inc.) Manitowoc, Wisconsin 54220

**LIFTCRANE CAPACITIES****BOOM NO. 16 WITH OPEN THROAT TOP
20'0" CRAWLERS EXTENDED AND BLOCKED
36,000 LB. COUNTERWEIGHT**

LIFTING CAPACITIES: Capacities for various boom lengths and operating radii may be based on per cent of tipping, strength of structural components, operating speeds and other factors. Capacities are for freely suspended loads and do not exceed 75% of static tipping loads. Capacities based on structural competence are shown by shaded areas.

Capacities are shown in pounds. 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 blocked, and gantry in working position, and under conditions referred to in rigging drawing No. 49598 and wire rope specification chart No. 6445-A.

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

OPERATING RADIUS: Operating radius is the horizontal distance from the axis of rotation to the center of vertical hoist line or load block with the load freely suspended. Add 11" 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 20'0" ex-

tensible crawlers, 30" or 36" treads, 9' retractable gantry, 10 part boom hoist reeving, two 1-3/8" pendants, 1st cwt. 18,000 lbs., 2nd cwt. 18,000 lbs. Total counterweight 36,000 pounds.

HOIST REEVEING FOR MAIN LOAD BLOCK

No. Parts of Line	1	2	3	4	5	6
Max. Load — Lbs.	18,400	36,800	55,200	73,600	92,000	110,400
No. Parts of Line	7	8				
Max. Load — Lbs.	123,500	140,000				

LOAD AND WHIP LINE SPECIFICATIONS

LOAD LINE: 3/4" — 6x25 Bright Super Tensile, Monitor AAA, Regular Lay, IWRC. Minimum Breaking Strength 32.3 Ton.

WHIP LINE: 3/4" — 6x25 Filler Wire, Improved Plow Steel, Regular Lay, IWRC. Minimum Breaking Strength 25.6 Ton. Maximum Load — 13,000 lbs. per Line.

**MAXIMUM BOOM AND JIB LENGTHS
LIFTED UNASSISTED**

OVER FRONT OF BLOCKED CRAWLERS		OVER SIDE OF EXTENDED CRAWLERS	
Boom Length	Jib No. 124	Boom Length	Jib No. 124
160'	—	160'	—
160'	60'	150'	60'

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

**(A) DEDUCT FROM CAPACITIES
WHEN JIB IS ATTACHED**

Jib Length	Jib No. 124
30'	1,800 Lb.
40'	2,050 Lb.
50'	2,300 Lb.
60'	2,500 Lb.

For jib capacities, consult jib chart.

Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity: Crawlers Extended	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity: Crawlers Extended	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity: Crawlers Extended
40	12	77.6	46.1	140,000	50	34	52.8	46.7	40,800	70	28	69.5	72.6	53,700
	13	76.1	45.9	135,800		36	49.9	45.1	37,700		30	67.8	71.8	48,500
	14	74.7	45.6	129,500		38	46.9	43.3	34,900		32	66.0	70.9	44,100
	15	73.2	45.3	125,500		40	43.8	41.3	32,600		34	64.3	70.0	40,400
	16	71.8	45.0	122,800		45	34.9	35.2	27,700		36	62.5	69.0	37,300
						50	23.3	26.3	23,900					
	17	70.3	44.7	119,100		13	80.7	66.3	134,600		38	60.6	67.9	34,500
	18	68.8	44.3	112,700		14	79.8	66.1	125,500		40	58.7	66.8	32,100
	19	67.3	43.9	102,000		15	78.8	65.9	122,900		45	53.9	63.4	27,300
	20	65.8	43.4	93,100		16	77.9	65.7	120,300		50	48.7	59.4	23,600
50	22	62.7	42.5	79,200		17	76.9	65.5	117,300		55	43.1	54.6	20,700
	24	59.5	41.4	68,800	60	18	75.9	65.2	112,400	80	60	36.8	48.6	18,400
	26	56.2	40.1	60,700		19	75.0	65.0	101,700		65	29.4	41.0	16,500
	28	52.7	38.7	54,300		20	74.0	64.7	92,700		70	19.7	30.0	14,900
	30	49.1	37.1	49,100		22	72.0	64.1	78,800		15	81.6	86.2	109,500
	32	45.3	35.2	44,700		24	70.0	63.4	68,400		16	80.9	86.0	107,400
						26	68.0	62.6	60,300		17	80.2	85.9	105,400
	34	41.2	33.1	41,100		28	66.0	61.8	53,900		18	79.4	85.7	103,500
	36	36.8	30.6	37,900		30	63.9	60.8	48,600		19	78.7	85.5	101,400
	38	31.8	27.7	35,200		32	61.8	59.8	44,300		20	78.0	85.3	92,500
	40	26.1	24.1	31,600		34	59.6	58.7	40,600		22	76.6	84.8	78,500
60	12	80.0	56.3	140,000	70	36	57.4	57.5	37,400	90	24	75.1	84.3	68,100
	13	78.9	56.1	135,200		38	55.2	56.1	34,700		26	73.6	83.8	60,000
	14	77.7	55.9	127,500		40	52.9	54.7	32,300		28	72.1	83.2	53,500
	15	76.6	55.7	124,200		45	46.7	50.5	27,500		30	70.7	82.5	48,300
	16	75.4	55.4	121,500		50	39.8	45.1	23,800		32	69.1	81.8	43,900
						55	31.8	38.2	20,900		34	67.6	81.0	40,200
	17	74.3	55.2	118,200		60	21.3	28.2	18,600		36	66.1	80.1	37,000
	18	73.1	54.9	112,600							38	64.5	79.2	34,300
	19	71.9	54.5	101,800	80	14	81.2	76.2	123,500		40	63.0	78.2	31,900
	20	70.7	54.2	92,900		15	80.4	76.1	121,600		45	58.9	75.4	27,100
70	22	68.3	53.5	79,000		16	79.6	75.9	119,100		50	54.7	72.2	23,400
						17	78.8	75.7	116,400		55	50.2	68.3	20,500
	24	65.9	52.6	68,600		18	77.9	75.5	112,300		60	45.4	63.8	18,100
	26	63.4	51.7	60,500							65	40.2	58.4	16,200
	28	60.9	50.6	54,100		19	77.1	75.3	101,600		70	34.4	51.8	14,600
	30	58.3	49.4	48,900		22	74.6	74.5	78,700		75	27.5	43.5	13,200
	32	55.6	48.1	44,500		24	72.9	73.9	68,200		80	18.5	31.7	12,100
						26	71.2	73.3	60,200					

Capacities continued
on reverse side.

**SEE CONDITIONS ON REVERSE SIDE**

Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity: Crawlers Extended	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity: Crawlers Extended	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity: Crawlers Extended
100	19	81.0	105.8	83,500	130	28	79.1	134.7	52,800	160	36	78.2	163.7	33,400
	20	80.4	105.6	82,300		30	78.2	134.3	47,500		38	77.5	163.2	32,800
	22	79.3	105.3	78,400		32	77.3	133.8	43,100		40	76.8	162.8	30,400
	24	78.1	104.9	67,900		34	76.4	133.4	39,400		45	74.9	161.5	25,500
	26	76.9	104.4	59,800		36	75.5	132.9	36,200		50	73.1	160.1	21,800
	28	75.8	104.0	53,400		38	74.6	132.3	33,500		55	71.2	158.5	18,900
	30	74.6	103.4	48,100		40	73.7	131.8	31,100		60	69.3	156.7	16,500
	32	73.4	102.9	43,700		45	71.4	130.2	26,200		65	67.4	154.7	14,600
	34	72.2	102.2	40,000		50	69.1	128.4	22,500		70	65.5	152.5	13,000
	36	71.0	101.6	36,800		55	66.7	126.4	19,600		75	63.5	150.1	11,600
110	38	69.8	100.9	34,100	140	60	64.3	124.1	17,200	180	80	61.5	147.5	10,400
	40	68.6	100.1	31,700		65	61.8	121.6	15,300		85	59.5	144.7	9,300
	45	65.5	98.0	26,800		70	59.3	118.7	13,700		90	57.4	141.6	8,400
	50	62.4	95.5	23,100		75	56.7	115.6	12,300		95	55.2	138.3	7,600
	55	59.1	92.7	20,200		80	54.1	112.2	11,100		100	53.0	134.7	6,900
	60	55.8	89.6	17,900		85	51.3	108.4	10,100		105	50.8	130.8	6,300
	65	52.3	85.9	16,000		90	48.5	104.1	9,200		110	48.4	126.5	5,700
	70	48.6	81.8	14,400		95	45.5	99.5	8,400		115	46.0	121.9	5,200
	75	44.7	77.1	13,000		100	42.3	94.3	7,700		120	43.5	116.8	4,700
	80	40.5	71.6	11,800		105	39.0	88.5	7,000		125	40.8	111.3	4,300
120	85	35.9	65.3	10,800	150	110	35.4	81.9	6,400	200	130	38.0	105.2	3,900
	90	30.7	57.6	9,900		115	31.4	74.3	5,900		135	35.0	98.5	3,500
	95	24.6	48.1	9,100		120	26.9	65.3	5,400		140	31.8	90.9	3,100
	22	80.2	115.5	72,200		125	21.6	54.2	5,000		30	79.0	144.5	47,300
	24	79.2	115.1	67,800		32	78.2	144.1	42,900		34	77.4	143.6	39,200
	26	78.1	114.7	59,700		36	76.5	143.2	36,000		38	75.7	142.7	33,200
	28	77.1	114.2	53,200		40	74.9	142.2	30,800		45	72.7	140.7	26,000
	30	76.0	113.8	47,900		45	70.6	139.1	26,000		50	68.6	137.2	22,200
	32	74.9	113.3	43,500		50	68.2	135.1	19,300		55	66.2	135.1	17,000
	34	73.9	112.7	39,800		55	64.0	132.8	15,000		60	61.7	130.2	13,400
130	36	72.8	112.1	36,600	160	65	61.7	130.2	15,000	210	70	59.4	127.4	12,000
	38	71.7	111.5	33,900		70	59.4	127.4	12,000		75	57.0	124.3	10,900
	40	70.6	110.8	31,500		75	57.0	124.3	10,900		80	54.5	120.9	9,800
	45	67.9	108.9	26,600		80	54.5	120.9	9,800		85	52.0	117.2	8,900
	50	65.0	106.7	22,900		85	52.0	117.2	8,900		90	49.4	113.1	8,100
	55	62.2	104.2	20,000		90	49.4	113.1	8,100		95	46.6	108.6	7,400
	60	59.2	101.4	17,700		95	46.6	108.6	7,400		100	43.8	103.6	6,800
	65	56.1	98.2	15,800		100	43.8	103.6	6,800		105	40.7	98.1	6,200
	70	53.0	94.7	14,100		105	40.7	98.1	6,200		110	37.5	91.9	5,700
	75	49.7	90.7	12,800		110	37.5	91.9	5,700		115	34.0	85.0	5,200
140	80	46.2	86.2	11,600	170	115	34.0	85.0	5,200	220	120	30.2	77.0	4,700
	85	42.5	81.1	10,600		120	30.2	77.0	4,700		125	25.9	67.7	4,300
	90	38.5	75.2	9,600		125	25.9	67.7	4,300		130	20.8	56.1	4,000
	95	34.2	68.4	8,800		130	20.8	56.1	4,000		34	78.2	153.9	39,000
	100	29.3	60.3	8,100		135	20.8	56.1	4,000		36	77.4	153.4	35,800
	105	23.4	50.2	7,500		36	77.4	153.4	35,800		38	76.7	153.0	33,000
	26	79.1	124.9	59,500		38	76.7	153.0	33,000		40	75.9	152.5	30,600
	28	78.2	124.5	53,000		40	75.9	152.5	30,600		45	73.9	151.2	25,800
	30	77.2	124.0	47,700		45	73.9	151.2	25,800		50	71.9	149.6	22,000
	32	76.2	123.6	43,300		50	71.9	149.6	22,000		55	69.9	147.9	19,100
150	34	75.2	123.1	39,600		55	69.9	147.9	19,100		60	67.9	146.0	16,800
	36	74.3	122.5	36,400		60	67.9	146.0	16,800		65	65.8	143.8	14,800
	38	73.3	121.9	33,700		65	65.8	143.8	14,800		70	63.7	141.5	13,200
	40	72.3	121.3	31,300		70	63.7	141.5	13,200		75	61.6	138.9	11,800
	45	69.8	119.6	26,400		75	61.6	138.9	11,800		80	59.4	136.1	10,600
	50	67.2	117.6	22,700		80	59.4	136.1	10,600		85	57.2	133.0	9,600
	55	64.6	115.4	19,800		85	57.2	133.0	9,600		90	54.9	129.6	8,700
	60	62.0	112.9	17,400		90	54.9	129.6	8,700		95	52.5	125.9	7,900
	65	59.3	110.1	15,500		95	52.5	125.9	7,900		100	50.1	121.9	7,200
	70	56.5	106.9	13,900		100	50.1	121.9	7,200		105	47.6	117.6	6,500
160	75	53.6	103.4	12,500		105	47.6	117.6	6,500		110	45.0	112.8	6,000
	80	50.6	99.5	11,300		110	45.0	112.8	6,000		115	42.2	107.5	5,400
	85	47.4	95.2	10,300		115	42.2	107.5	5,400		120	39.3	101.7	5,000
	90	44.1	90.3	9,400		120	39.3	101.7	5,000		125	36.2	95.3	4,500
	95	40.6	84.9	8,600		125	36.2	95.3	4,500		130	32.9	88.0	4,100
170	100	36.8	78.6	7,900		130	32.9	88.0	4,100		135	29.2	79.7	3,800
	105	32.7	71.4	7,200		135	29.2	79.7	3,800		140	25.0	69.9	3,400
	110	28.0	62.9	6,700		140	25.0	69.9	3,400					
180	115	22.4	52.3	6,100										

Combined From Charts:
 No. 6723-A 2-9-76
 No. 6445-A 1-29-75
 No. 6720 12-5-75

**MANITOWOC ENGINEERING CO.**

(A division of The Manitowoc Company, Inc.) Manitowoc, Wisconsin 54220

**JIB LIFTING CAPACITIES**MEETS
ANSI B30.5
REQUIREMENTS**2900WC****JIB NO. 124 WITH 18' STRUT ON
BOOM NO. 16 WITH OPEN THROAT TOP
20' CRAWLERS EXTENDED AND BLOCKED****0 DEGREE JIB OFFSET ANGLE**

Chart supplements boom capacity chart No. 6723-A. Capacities are for freely suspended loads based on tipping, strength of structural components or other factors. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, as well as adverse operating conditions or physical machine depreciation.

machine on firm level surface. Capacities based on structural competence are denoted by shaded areas. Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block. Weight of all load blocks, hooks, 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. Maximum capacity on 3/4" — 6x25 IPS, IWRC is 13,000 lbs./line.

Capacities do not exceed 75% of static tipping loads with

30 FOOT JIB	JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS										JIB POINT RADIUS: FEET
		BOOM LENGTH — FEET										
		70	80	90	100	110	120	130	140	150	160	
	50 *	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	50 *
	55	20,000	20,000	20,000	20,000	20,000	19,900	19,700	19,400	19,200	19,000	55
	60	18,700	18,400	18,200	18,000	17,800	17,500	17,300	17,100	16,800	16,600	60
	65	16,700	16,400	16,200	16,100	15,800	15,600	15,400	15,100	14,900	14,600	65
	70	15,100	14,800	14,600	14,400	14,200	13,900	13,700	13,400	13,200	13,000	70
	75	13,700	13,400	13,200	13,100	12,800	12,500	12,300	12,000	11,800	11,600	75
	80	12,500	12,200	12,000	11,900	11,600	11,300	11,100	10,800	10,600	10,400	80
	85	11,500	11,200	10,900	10,800	10,600	10,300	10,100	9,800	9,600	9,300	85
	90	10,600	10,300	10,000	9,900	9,600	9,400	9,100	8,900	8,600	8,400	90
	95		9,500	9,200	9,100	8,800	8,600	8,300	8,100	7,800	7,600	95
	100			8,500	8,400	8,100	7,800	7,600	7,300	7,100	6,800	100
	105			7,800	7,700	7,500	7,200	7,000	6,700	6,500	6,200	105
	110				7,100	6,900	6,600	6,400	6,100	5,900	5,600	110
	120					5,900	5,600	5,400	5,100	4,900	4,600	120
	130						4,700	4,500	4,200	4,000	3,700	130
	140							3,800	3,500	3,300	3,000	140

40 FOOT JIB	JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS										JIB POINT RADIUS: FEET
		BOOM LENGTH — FEET										
	70	80	90	100	110	120	130	140	150	160		
	65 *	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	65 *
	70	14,000	14,000	14,000	14,000	14,000	14,000	13,800	13,600	13,300	13,100	70
	75	13,800	13,600	13,300	13,200	12,900	12,700	12,400	12,200	11,900	11,700	75
	80	12,700	12,400	12,100	12,000	11,700	11,500	11,200	11,000	10,700	10,500	80
	85	11,600	11,300	11,100	10,900	10,700	10,400	10,200	9,900	9,700	9,400	85
	90	10,700	10,400	10,200	10,000	9,800	9,500	9,300	9,000	8,800	8,500	90
	95	9,900	9,600	9,300	9,200	9,000	8,700	8,400	8,200	7,900	7,700	95
100		8,900	8,600	8,500	8,200	8,000	7,700	7,400	7,200	7,000	100	
105		8,200	8,000	7,800	7,600	7,300	7,100	6,800	6,600	6,300	105	
110			7,400	7,200	7,000	6,700	6,500	6,200	6,000	5,700	110	
115			6,900	6,700	6,500	6,200	6,000	5,700	5,400	5,200	115	
120				6,200	6,000	5,700	5,500	5,200	5,000	4,700	120	
130					5,100	4,900	4,600	4,300	4,100	3,800	130	
140						4,100	3,900	3,600	3,400	3,100	140	

50 FOOT JIB	JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS										JIB POINT RADIUS: FEET
		BOOM LENGTH — FEET										
		70	80	90	100	110	120	130	140	150	160	
80 *	80 *	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	80 *
	85	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	9,800	9,500	85
	90	10,000	10,000	10,000	10,000	9,900	9,600	9,400	9,100	8,900	8,600	90
	95	10,000	9,700	9,500	9,300	9,100	8,800	8,600	8,300	8,100	7,800	95
	100	9,300	9,000	8,700	8,600	8,300	8,100	7,800	7,600	7,300	7,100	100
	105	8,600	8,300	8,100	7,900	7,700	7,400	7,200	6,900	6,700	6,400	105
	110		7,800	7,500	7,300	7,100	6,800	6,600	6,300	6,100	5,800	110
	115		7,200	7,000	6,800	6,600	6,300	6,100	5,800	5,600	5,300	115
	120			6,500	6,300	6,100	5,800	5,600	5,300	5,100	4,800	120
	130				5,500	5,200	5,000	4,700	4,400	4,200	3,900	130
140	140					4,500	4,200	4,000	3,700	3,500	3,200	140
	150						3,600	3,400	3,100			150

60 FOOT JIB	JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS										JIB POINT RADIUS: FEET
		BOOM LENGTH — FEET										
		70	80	90	100	110	120	130	140	150	160	
	105 *	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	105 *
	110	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	110
	115	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	115
	120		5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	4,800	120
	125		5,000	5,000	5,000	5,000	5,000	5,000	4,900	4,600	4,400	125
	130			5,000	5,000	5,000	5,000	4,800	4,500	4,200	4,000	130
	135			5,000	5,000	5,000	4,900	4,600	4,400	4,100	3,900	3,600
140				4,800	4,600	4,300	4,000	3,800	3,500	3,200	140	
145				4,500	4,200	4,000	3,700	3,400	3,200		145	
150					3,900	3,700	3,400	3,100			150	

* These capacities apply for ALL lesser radii obtainable.

Form No. 6752-A, 5-23-75/GA

**MANITOWOC ENGINEERING CO.**

(A division of The Manitowoc Company, Inc.) Manitowoc, Wisconsin 54220

**JIB LIFTING CAPACITIES**MEETS
ANSI B30.5
REQUIREMENTS**2900WC****JIB NO. 124 WITH 18' STRUT ON
BOOM NO. 16 WITH OPEN THROAT TOP
20' CRAWLERS EXTENDED AND BLOCKED****10 DEGREE JIB OFFSET ANGLE**

Chart supplements boom capacity chart No. 6723-A. Capacities are for freely suspended loads based on tipping, strength of structural components or other factors. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, as well as adverse operating conditions or physical machine depreciation.

machine on firm level surface. Capacities based on structural competence are denoted by shaded areas. Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block. Weight of all load blocks, hooks, 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. Maximum capacity on $\frac{3}{4}$ " - 6x25 IPS, IWRC is 13,000 lbs./line.

Capacities do not exceed 75% of static tipping loads with

30 FOOT JIB	JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS										JIB POINT RADIUS: FEET
		BOOM LENGTH — FEET										
		70	80	90	100	110	120	130	140	150	160	
	50*	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	50*
	55	20,000	20,000	20,000	20,000	20,000	20,000	20,000	19,900	19,700	19,500	55
	60	18,900	18,600	18,400	18,300	18,100	17,900	17,700	17,400	17,200	17,000	60
	65	16,900	16,700	16,400	16,300	16,100	15,900	15,700	15,400	15,200	15,000	65
	70	15,300	15,000	14,800	14,700	14,500	14,200	14,000	13,800	13,600	13,300	70
	75	13,900	13,600	13,400	13,300	13,000	12,800	12,600	12,300	12,100	11,900	75
	80	12,600	12,400	12,100	12,000	11,800	11,600	11,300	11,100	10,900	10,700	80
	85		11,300	11,100	11,000	10,700	10,500	10,300	10,000	9,800	9,600	85
	90		10,400	10,200	10,000	9,800	9,600	9,300	9,100	8,900	8,600	90
	95			9,300	9,200	9,000	8,700	8,500	8,300	8,000	7,800	95
	100				8,500	8,200	8,000	7,800	7,500	7,300	7,100	100
	105				7,800	7,600	7,300	7,100	6,900	6,600	6,400	105
	110					7,000	6,700	6,500	6,300	6,000	5,800	110
	115						6,200	6,000	5,700	5,500	5,200	115
	120						5,700	5,500	5,200	5,000	4,700	120
	130								4,300	4,100	3,900	130

40 FOOT JIB	JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS										JIB POINT RADIUS: FEET
		BOOM LENGTH — FEET										
		70	80	90	100	110	120	130	140	150	160	
	65 *	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	65 *
	70	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	13,800	13,600	70
	75	14,000	13,800	13,600	13,500	13,300	13,000	12,800	12,600	12,400	12,100	75
	80	12,800	12,600	12,400	12,200	12,000	11,800	11,600	11,300	11,100	10,900	80
	85	11,800	11,500	11,300	11,200	10,900	10,700	10,500	10,300	10,100	9,800	85
	90	10,800	10,600	10,400	10,200	10,000	9,800	9,600	9,300	9,100	8,900	90
	95		9,700	9,500	9,400	9,200	8,900	8,700	8,500	8,300	8,000	95
	100			8,800	8,700	8,400	8,200	8,000	7,700	7,500	7,300	100
	105			8,100	8,000	7,800	7,500	7,300	7,000	6,800	6,600	105
	110				7,400	7,200	6,900	6,700	6,400	6,200	6,000	110
	115					6,600	6,400	6,100	5,900	5,700	5,400	115
	120					6,100	5,900	5,600	5,400	5,200	4,900	120
	130							4,800	4,500	4,300	4,000	130
	140								3,800	3,500	3,300	140

50 FOOT JIB	JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS										JIB POINT RADIUS: FEET
		BOOM LENGTH — FEET										
		70	80	90	100	110	120	130	140	150	160	
	85 *	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	85 *
	90	10,000	10,000	10,000	10,000	10,000	9,900	9,700	9,500	9,300	9,100	90
	95	10,000	9,900	9,700	9,600	9,300	9,100	8,900	8,700	8,400	8,200	95
	100	9,400	9,200	8,900	8,800	8,600	8,300	8,100	7,900	7,700	7,500	100
	105		8,500	8,300	8,100	7,900	7,700	7,500	7,200	7,000	6,800	105
	110			7,700	7,500	7,300	7,100	6,900	6,600	6,400	6,200	110
	115			7,100	7,000	6,800	6,500	6,300	6,100	5,800	5,600	115
	120				6,500	6,300	6,000	5,800	5,600	5,300	5,100	120
	125				6,000	5,800	5,600	5,300	5,100	4,900	4,600	125
	130					5,400	5,100	4,900	4,700	4,500	4,200	130
	140						4,400	4,200	3,900	3,700	3,400	140
	150								3,300	3,100		150

60 FOOT JIB	JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS										JIB POINT RADIUS: FEET
		BOOM LENGTH — FEET										
		70	80	90	100	110	120	130	140	150	160	
	105 *	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	105 *
	110	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	110
	115		5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	115
	120		5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	120
	125			5,000	5,000	5,000	5,000	5,000	5,000	5,000	4,700	125
	130				5,000	5,000	5,000	5,000	4,700	4,500	4,300	130
	135				5,000	5,000	5,000	4,800	4,600	4,400	3,900	135
140					4,700	4,500	4,200	4,000	3,800	3,500	140	
145						4,100	3,900	3,700	3,400	3,200	145	
150						3,800	3,600	3,300	3,100		150	

* These capacities apply for ALL lesser radii obtainable.

**MANITOWOC ENGINEERING CO.**

(A division of The Manitowoc Company, Inc.) Manitowoc, Wisconsin 54220

**JIB LIFTING CAPACITIES**MEETS
ANSI B30.5
REQUIREMENTS**2900WC****JIB NO. 124 WITH 18' STRUT ON
BOOM NO. 16 WITH OPEN THROAT TOP
20' CRAWLERS EXTENDED AND BLOCKED****20 DEGREE JIB OFFSET ANGLE**

Chart supplements boom capacity chart No. 6723-A. Capacities are for freely suspended loads based on tipping, strength of structural components or other factors. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, as well as adverse operating conditions or physical machine depreciation.

machine on firm level surface. Capacities based on structural competence are denoted by shaded areas. Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block. Weight of all load blocks, hooks, 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. Maximum capacity on $\frac{3}{4}$ " — 6x25 IPS, IWRC is 13,000 lbs./line.

Capacities do not exceed 75% of static tipping loads with

30 FOOT JIB	JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS										JIB POINT RADIUS: FEET
		BOOM LENGTH — FEET										
		70	80	90	100	110	120	130	140	150	160	
	40*	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	19,600	40*
	45	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	19,700	45
	50	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	19,700	18,700	50
	55	20,000	20,000	20,000	20,000	20,000	20,000	20,000	19,600	18,700	18,000	55
	60	19,100	18,900	18,700	18,600	18,400	18,200	18,100	17,900	17,700	17,100	60
	65	17,100	16,900	16,700	16,600	16,400	16,200	16,000	15,800	15,600	15,400	65
	70	15,400	15,200	15,000	14,900	14,700	14,500	14,300	14,100	13,900	13,700	70
75		13,800	13,600	13,500	13,300	13,000	12,900	12,600	12,500	12,200	75	
80			12,300	12,200	12,000	11,800	11,600	11,400	11,200	11,000	80	
85		12,500	11,200	11,100	10,900	10,700	10,500	10,300	10,100	9,900	85	
90				10,200	10,000	9,800	9,600	9,300	9,100	8,900	90	
95					9,100	8,900	8,700	8,500	8,300	8,000	95	
100						8,100	7,900	7,700	7,500	7,300	100	
105						7,500	7,300	7,000	6,800	6,600	105	
110							6,700	6,400	6,200	6,000	110	
115								5,900	5,700	5,400	115	

40 FOOT JIB	JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS										JIB POINT RADIUS: FEET	
		BOOM LENGTH — FEET											
		70	80	90	100	110	120	130	140	150	160		
	65 *	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	65 *	
	70	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	13,800	70	
	75	14,000	14,000	13,900	13,800	13,600	13,400	13,200	13,000	12,800	12,600	75	
	80	13,000	12,800	12,600	12,500	12,300	12,100	11,900	11,700	11,500	11,300	80	
	85		11,700	11,500	11,400	11,200	11,000	10,800	10,600	10,400	10,200	85	
	90			10,500	10,400	10,200	10,000	9,800	9,600	9,400	9,200	90	
	95			9,700	9,600	9,400	9,200	9,000	8,800	8,600	8,300	95	
	100				8,800	8,600	8,400	8,200	8,000	7,800	7,600	100	
	105					7,900	7,700	7,500	7,300	7,100	6,900	105	
	110						7,100	6,900	6,700	6,500	6,200	110	
	115							6,300	6,100	5,900	5,700	115	
	120								5,600	5,400	5,200	120	
	125									5,100	4,900	4,700	125
	130										4,500	4,200	130

50 FOOT JIB	JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS										JIB POINT RADIUS: FEET
		BOOM LENGTH — FEET										
		70	80	90	100	110	120	130	140	150	160	
	85 *	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	85 *
	90	10,000	10,000	10,000	10,000	10,000	10,000	10,000	9,900	9,700	9,500	90
	95		10,000	9,900	9,800	9,600	9,400	9,200	9,000	8,800	8,600	95
	100			9,100	9,000	8,800	8,600	8,400	8,200	8,000	7,800	100
	105			8,500	8,300	8,200	7,900	7,700	7,500	7,300	7,100	105
	110				7,700	7,500	7,300	7,100	6,900	6,700	6,500	110
	115					7,000	6,700	6,500	6,300	6,100	5,900	115
120						6,200	6,000	5,800	5,600	5,400	120	
125							5,500	5,300	5,100	4,900	125	
130							5,100	4,900	4,700	4,500	130	
140									3,900	3,700	140	

60 FOOT JIB	JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS										JIB POINT RADIUS: FEET
		BOOM LENGTH — FEET										
		70	80	90	100	110	120	130	140	150	160	
60 FOOT JIB	100 *	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	100 *
	105		5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	105
	110			5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	110
	115			5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	115
	120				5,000	5,000	5,000	5,000	5,000	5,000	5,000	120
	125					5,000	5,000	5,000	5,000	5,000	5,000	125
	130						5,000	5,000	5,000	4,800	4,600	130
	135						5,000	4,800	4,600	4,400	4,200	135
	140							4,400	4,200	4,000	3,800	140
	150									3,300	3,100	150

* These capacities apply for ALL lesser radii obtainable.

Form No. 6752-C, 5-23-75/GA

**MANITOWOC ENGINEERING CO.**

(A division of The Manitowoc Company, Inc.) Manitowoc, Wisconsin 54220

**JIB LIFTING CAPACITIES**MEETS
ANSI B30.5
REQUIREMENTS**2900WC****JIB NO. 124 WITH 18' STRUT ON
BOOM NO. 16 WITH OPEN THROAT TOP
20' CRAWLERS EXTENDED AND BLOCKED****30 DEGREE JIB OFFSET ANGLE**

Chart supplements boom capacity chart No. 6723-A. Capacities are for freely suspended loads based on tipping, strength of structural components or other factors. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, as well as adverse operating conditions or physical machine depreciation.

machine on firm level surface. Capacities based on structural competence are denoted by shaded areas. Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block. Weight of all load blocks, hooks, 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. Maximum capacity on $\frac{3}{4}$ " - 6x25 IPS, IWRC is 13,000 lbs./line.

Capacities do not exceed **75%** of static tipping loads with

30 FOOT JIB	JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS										JIB POINT RADIUS: FEET
		BOOM LENGTH — FEET										
		70	80	90	100	110	120	130	140	150	160	
	45*	20,000	20,000	20,000	20,000	20,000	20,000	20,000	18,400	17,700	16,800	45*
	50	20,000	20,000	20,000	20,000	20,000	20,000	19,300	18,400	17,700	16,800	50
	55	19,800	20,000	20,000	20,000	20,000	19,500	18,800	17,700	17,000	16,200	55
	60	19,000	19,200	19,000	18,900	18,800	18,600	17,900	17,100	16,300	15,600	60
	65		17,100	17,000	16,900	16,700	16,500	16,400	16,200	15,800	15,000	65
	70			15,200	15,200	15,000	14,800	14,600	14,400	14,300	14,100	70
	75				13,700	13,500	13,300	13,100	12,900	12,800	12,600	75
80					12,200	12,000	11,900	11,700	11,500	11,300	80	
85						10,900	10,700	10,500	10,400	10,200	85	
90								9,500	9,400	9,200	90	
95									8,500	8,300	95	
100										7,500	100	

40 FOOT JIB	JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS										JIB POINT RADIUS: FEET	
		BOOM LENGTH — FEET											
		70	80	90	100	110	120	130	140	150	160		
	55 *	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	13,400	55 *
	60	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	13,500	60
	65	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	13,500	65
	70	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	13,700	13,000	12,500	70
	75		14,000	14,000	14,000	13,900	13,700	13,600	13,200	12,600	12,000	75	
	80			12,800	12,800	12,600	12,400	12,300	12,100	11,900	11,700	80	
	85					11,500	11,300	11,100	10,900	10,800	10,600	85	
90						10,300	10,100	9,900	9,800	9,600	90		
95							9,200	9,000	8,900	8,700	95		
100								8,200	8,100	7,900	100		
105									7,300	7,100	105		
110										6,500	110		

50 FOOT JIB	JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS										JIB POINT RADIUS: FEET
		BOOM LENGTH — FEET										
	70	80	90	100	110	120	130	140	150	160		
	80 *	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	80 *
	85		10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	9,800	85
	90			10,000	10,000	10,000	10,000	10,000	10,000	10,000	9,500	90
	95				10,000	9,800	9,700	9,500	9,300	9,200	9,000	95
	100						8,900	8,700	8,500	8,400	8,200	100
	105							8,000	7,800	7,600	7,400	105
	110								7,100	7,000	6,800	110
115									6,400	6,200	115	
120										5,600	120	

60 FOOT JIB	JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS										JIB POINT RADIUS: FEET
		BOOM LENGTH — FEET										
	70	80	90	100	110	120	130	140	150	160		
	90 *	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	90 *
	95		5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	95
	100			5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	100
	105				5,000	5,000	5,000	5,000	5,000	5,000	5,000	105
	110					5,000	5,000	5,000	5,000	5,000	5,000	110
	115						5,000	5,000	5,000	5,000	5,000	115
	120							5,000	5,000	5,000	5,000	120
125								5,000	5,000	5,000	125	
130									5,000	4,900	130	
135										4,500	135	

* These capacities apply for ALL lesser radii obtainable.



MANITOWOC ENGINEERING CO.

A Division of The Manitowoc Company, Inc.

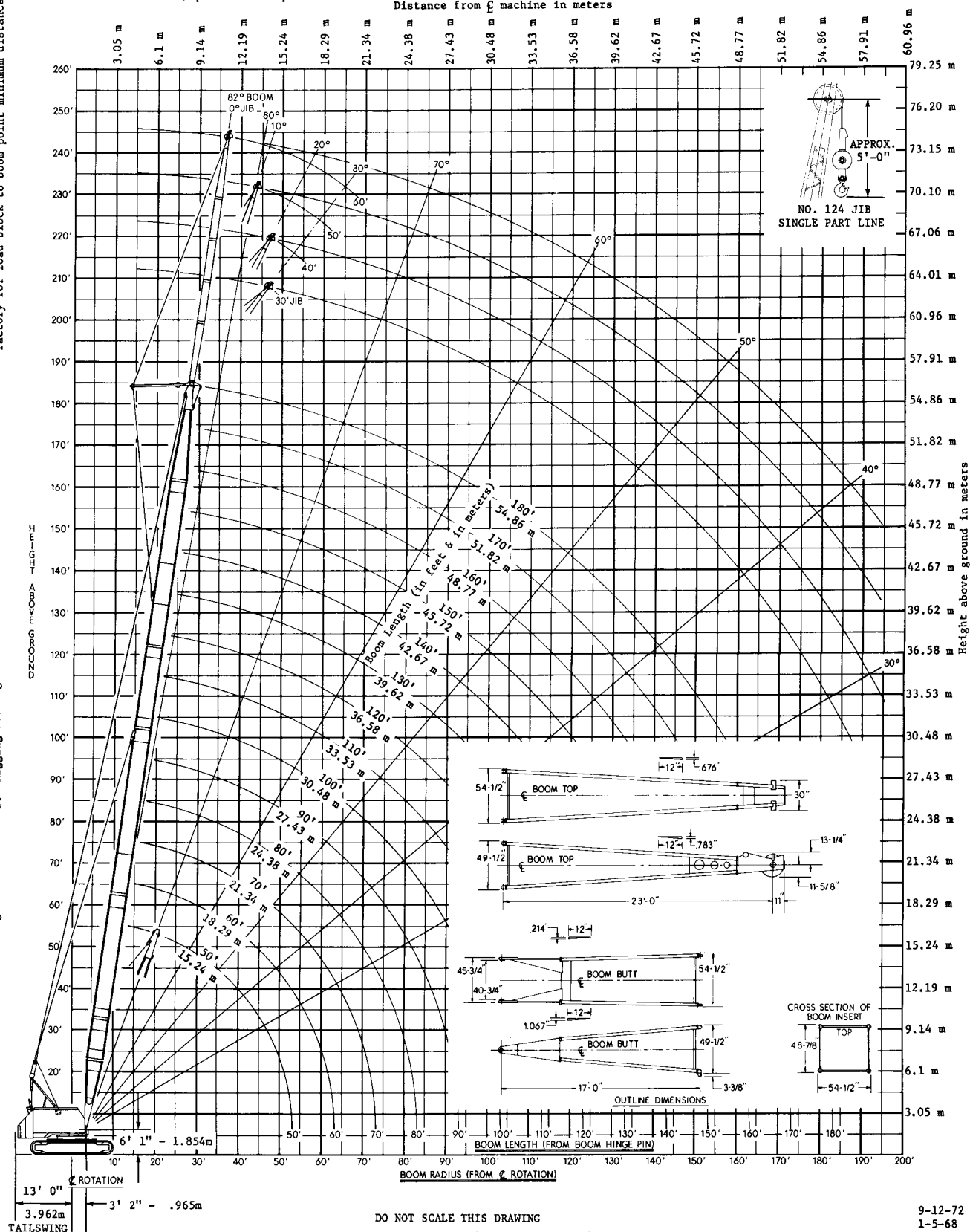
Manitowoc, Wisconsin

NOTE 1: This drawing is intended only as a guide to assist in job planning.
NOTE 2: For planning a lift, this drawing is to be used in conjunction with appropriate-
A. Capacity Charts. C. Load Line Specifications. E. Outline Dimensions.
B. Range Chart. D. Rigging Drawing.

NOTE 3: For planning lifts where clearances are limited and accuracy is desired, a detailed layout should be prepared.
NOTE 4: When equipped with hoist line limit switch, contact factory for load block to boom point minimum distance.

MAXIMUM BOOM ANGLE
82° For No. 18 Boom W/Open Throat Top

Distance from machine in meters



RANGE DIAGRAM - M2900WC - No. 18 BOOM w/ No. 124 JIB

9-12-72
1-5-68

**MANITOWOC ENGINEERING CO.**

(A division of The Manitowoc Company, Inc.) Manitowoc, Wisconsin 54220

**LIFTCRANE CAPACITIES**MEETS
ANSI B30.5
REQUIREMENTS**2900WC
CRAWLER****BOOM NO. 18 WITH OPEN THROAT TOP
20'0" CRAWLERS EXTENDED AND BLOCKED
36,000 LB. COUNTERWEIGHT**

LIFTING CAPACITIES: Capacities for various boom lengths and operating radii may be based on per cent of tipping, strength of structural components, operating speeds and other factors. Capacities are for freely suspended loads and do not exceed **75%** of static tipping loads. Capacities based on structural competence are shown by shaded areas.

Capacities are shown in pounds. 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 blocked, and gantry in working position, and under conditions referred to in rigging drawing No. 190077 and wire rope specification chart No. 6483-A.

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

OPERATING RADIUS: Operating radius is the horizontal distance from the axis of rotation to the center of vertical hoist line or load block with the load freely suspended. Add 11" 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 20'0" extendible crawlers, 30" or 36" treads, 9' retractable gantry, 10

part boom hoist reeving, two 1-3/8" pendants, 1st cwt. 18,000 lbs., 2nd cwt. 18,000 lbs. Total counterweight 36,000 pounds.

HOIST REEVEING FOR MAIN LOAD BLOCK

No. Parts of Line	1	2	3	4	5	6
Max. Load — Lbs.	18,400	36,800	55,200	73,600	92,000	110,400
No. Parts of Line	7	8				
Max. Load — Lbs.	123,500	130,000				

LOAD AND WHIP LINE SPECIFICATIONS

LOAD LINE: 3/4" — 6x25 Bright Super Tensile, Monitor AAA, Regular Lay, IWRC. Minimum Breaking Strength 32.3 Ton.

WHIP LINE: 3/4" — 6x25 Filler Wire, Improved Plow Steel, Regular Lay, IWRC. Minimum Breaking Strength 25.6 Ton. Maximum Load — 13,000 lbs. per Line.

**MAXIMUM BOOM AND JIB LENGTHS
LIFTED UNASSISTED**

OVER FRONT OF BLOCKED CRAWLERS		OVER SIDE OF EXTENDED CRAWLERS	
Boom Length	Jib No. 124	Boom Length	Jib No. 124
180'	---	180'	---
180'	60'	180'	30'
		170'	50'
		160'	60'

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

**(A) DEDUCT FROM CAPACITIES
WHEN JIB IS ATTACHED**

Jib Length	Jib No. 124
30'	1,800 Lb.
40'	2,050 Lb.
50'	2,300 Lb.
60'	2,500 Lb.

For jib capacities, consult jib chart.

Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity: Crawlers Extended	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity: Crawlers Extended	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity: Crawlers Extended	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity: Crawlers Extended
40	12	77.2	45.1	130,000	50	34	51.9	45.4	41,000	70	14	81.1	75.2	92,700	80	15	81.5	85.2	82,800
	13	75.8	44.8	128,000		36	49.0	43.8	37,900		15	80.3	75.1	90,400		16	80.8	85.0	81,000
	14	74.3	44.6	126,000		38	45.8	41.9	35,200		16	79.4	74.9	88,200		17	80.0	84.9	79,000
	15	72.8	44.3	124,500		40	42.6	39.9	32,800		17	78.6	74.7	86,100		18	79.3	84.7	77,200
	16	71.3	43.9	122,800		45	33.2	33.4	28,000		18	77.8	74.5	84,100		19	78.6	84.5	75,400
						50	20.5	23.6	23,700										
	17	69.8	43.6	119,900							19	76.9	74.2	82,200		20	77.9	84.3	73,700
	18	68.2	43.2	117,700		13	80.6	65.3	102,900		20	76.1	74.0	80,400		22	76.4	83.8	70,600
	19	66.7	42.8	102,000		14	79.6	65.1	100,300		22	74.4	73.5	77,000		24	74.9	83.3	67,700
	20	65.1	42.3	93,100		15	78.6	64.9	97,900		24	72.7	72.9	68,400		26	73.4	82.7	60,100
	22	61.9	41.4	79,200		16	77.6	64.7	95,600		26	71.0	72.2	60,300		28	71.9	82.1	53,700
						17	76.7	64.4	93,400										
50	24	58.6	40.2	68,900	60	18	75.7	64.2	91,300	80	30	69.2	71.5	53,900	90	30	70.4	81.4	48,500
	26	55.2	38.9	60,900		19	74.7	63.9	89,300		32	67.5	70.7	48,700		32	68.9	80.7	44,100
	28	51.6	37.4	54,500		20	73.7	63.7	87,300		34	65.7	69.8	44,300		34	67.3	79.9	40,400
	30	47.9	35.7	49,300		22	71.7	63.0	78,800		36	63.9	68.9	40,700		36	65.8	79.0	37,300
	32	43.9	33.8	44,900		24	69.7	62.3	68,400		38	62.0	67.9	37,500		38	64.2	78.1	34,600
	34	39.6	31.5	41,300		26	67.6	61.5	60,400		40	60.2	66.8	34,800		40	62.6	77.1	32,200
	36	34.8	28.9	38,200		28	65.6	60.7	54,000		45	58.3	65.6	32,400		45	58.5	74.3	27,400
	38	29.4	25.7	35,500		30	63.4	59.7	48,800		50	53.3	62.2	27,600		50	54.2	70.9	23,700
	40	23.0	21.7	31,000		32	61.3	58.7	44,400		55	48.0	58.1	24,000		55	49.6	67.0	20,800
						34	59.1	57.5	40,800		55	42.2	53.1	21,100		60	44.7	62.4	18,500
	12	79.8	55.3	116,600							60	35.7	46.9	18,800		65	39.4	56.8	16,600
60	13	78.7	55.1	113,600	70	36	56.8	56.3	37,600		65	28.0	38.9	16,900		70	33.3	50.0	15,000
	14	77.5	54.9	110,700		40	52.1	53.4	32,500		70	17.3	26.9	15,200		75	26.1	41.3	13,600
	15	76.3	54.6	108,000		45	45.8	49.1	27,700							80	16.2	28.3	12,400
	16	75.1	54.4	105,400		50	38.7	43.6	24,100										
	17	73.9	54.1	102,900															
	18	72.7	53.8	100,500															
	19	71.5	53.5	98,300															
	20	70.3	53.1	92,900		55	30.2	36.3	21,200										
	22	67.9	52.4	79,000		60	18.7	25.3	18,700										
	24	65.4	51.5	68,700															
	26	62.8	50.3	60,600															
	28	60.2	49.3	54,200															
	30	57.5	48.3	49,000															
	32	54.8	46.9	44,700															

Capacities continued
on reverse side.



SEE CONDITIONS ON REVERSE SIDE

Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity: Crawlers Extended	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity: Crawlers Extended	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity: Crawlers Extended	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity: Crawlers Extended	
90	17	81.2	95.0	72,700	120	26	79.0	123.9	45,500	150	34	78.1	152.9	29,200	180	40	78.2	182.3	22,200	
	18	80.5	94.8	71,100		28	78.1	123.5	43,900		36	77.4	152.4	28,300		45	76.6	181.1	21,300	
	19	79.9	94.7	69,500		30	77.1	123.0	42,300		38	76.6	152.0	27,400		50	74.9	179.9	20,400	
	20	79.2	94.5	68,000		32	76.1	122.5	40,900		40	75.8	151.5	26,600		55	73.3	178.4	18,900	
	22	77.9	94.1	65,200		34	75.1	122.0	39,500		45	73.8	150.1	24,600		60	71.6	176.9	16,600	
	24	76.6	93.6	62,600		36	74.1	121.5	36,700		50	71.8	148.6	22,500		65	69.9	175.1	14,700	
	26	75.3	93.1	59,900		38	73.1	120.9	33,900		55	69.8	146.8	19,600		70	68.2	173.2	13,000	
	28	74.0	92.6	53,500		40	72.1	120.3	31,500		60	67.7	144.9	17,300		75	66.5	171.1	11,700	
	30	72.7	92.0	48,300		45	69.6	118.5	26,700		65	65.7	142.7	15,400		80	64.7	168.8	10,500	
	32	71.3	91.3	43,900		50	67.0	116.5	23,000		70	63.5	140.4	13,800		85	63.0	166.4	9,500	
100	34	70.0	90.6	40,200	130	55	64.4	114.3	20,100	160	75	61.4	137.7	12,400	200	90	61.2	163.7	8,600	
	36	68.6	89.9	37,100		60	61.7	111.8	17,800		80	59.2	134.9	11,200		95	59.3	160.9	7,800	
	38	67.2	89.0	34,400		65	59.0	108.9	15,900		85	56.9	131.8	10,200		100	57.5	157.8	7,000	
	40	65.8	88.2	32,000		70	56.2	105.7	14,300		90	54.6	128.4	9,300		105	55.5	154.5	6,400	
	45	62.3	85.7	27,200		75	53.2	102.2	12,900		95	52.2	124.7	8,500		110	53.6	150.9	5,800	
	50	58.6	82.9	23,500		80	50.2	98.2	11,700		100	49.8	120.6	7,800		115	51.6	147.1	5,300	
	55	54.8	79.6	20,600		85	47.0	93.8	10,700		105	47.2	116.2	7,200		120	49.5	143.0	4,800	
	60	50.8	75.8	18,300		90	43.6	88.9	9,800		110	44.6	111.4	6,600		125	47.4	138.6	4,400	
	65	46.6	71.5	16,400		95	40.1	83.3	9,000		115	41.8	106.0	6,100		130	45.2	133.8	4,000	
	70	42.0	66.3	14,800		100	36.2	76.9	8,300		120	38.8	100.1	5,600		135	42.9	128.6	3,600	
110	75	37.0	60.3	13,400	140	105	31.9	69.5	7,700	170	125	35.7	93.6	5,200	220	140	40.5	123.0	3,300	
	80	31.4	52.9	12,200		110	27.1	60.7	7,100		130	32.3	86.1	4,800		145	38.0	116.9	3,000	
	85	24.6	43.5	11,200		115	21.3	49.6	6,600		135	28.5	77.6	4,400						
	90	15.2	29.7	10,100							140	24.2	67.5	4,100						
	19	80.9	104.8	62,900		28	79.0	133.7	40,600		145	19.0	54.9	3,400						
	20	80.3	104.6	61,600		30	78.1	133.3	39,300		36	78.2	162.7	29,500						
	22	79.1	104.3	59,300		32	77.2	132.8	38,000		38	77.4	162.2	29,000						
	24	78.0	103.9	57,100		34	76.3	132.4	36,800		40	76.7	161.8	28,600						
	26	76.8	103.4	54,900		36	75.4	131.8	35,600		45	74.8	160.5	25,900						
	28	75.6	102.9	52,900		38	74.5	131.3	33,800		50	73.0	159.1	22,200						
120	30	74.4	102.4	48,100	150	40	73.5	130.7	31,400	180	55	71.1	157.4	19,300	220	60	69.2	155.6	16,900	
	32	73.2	101.8	43,800		45	71.2	129.1	26,500		60	69.2	155.6	16,900		65	67.3	153.6	15,000	
	34	72.0	101.2	40,100		50	68.9	127.3	22,900		65	67.3	153.6	15,000		70	65.3	151.4	13,400	
	36	70.8	100.5	36,900		55	66.5	125.3	20,000		70	65.3	151.4	13,400		75	63.3	149.0	12,000	
	38	69.6	99.8	34,200		60	64.1	123.0	17,600		80	61.3	146.4	10,800		85	59.2	143.6	9,800	
	40	68.4	99.0	31,800		65	61.6	120.4	15,700		85	59.2	143.6	9,800		90	57.1	140.4	8,900	
	45	65.3	96.9	27,000		70	59.1	117.6	14,100		90	57.1	140.4	8,900		95	55.0	137.1	8,100	
	50	62.1	94.4	23,000		75	56.5	114.4	12,800		100	52.8	133.4	7,400		105	50.5	129.5	6,800	
	55	58.8	91.6	20,500		80	53.8	110.9	11,600		110	48.1	125.2	6,200		115	45.7	120.5	5,700	
	60	55.4	88.3	18,100		85	51.0	107.1	10,600		120	43.1	115.4	5,200		125	40.4	109.8	4,800	
130	65	51.8	84.7	16,200	160	90	48.1	102.8	9,700	190	130	37.6	103.6	4,400	240	135	34.5	96.7	4,000	
	70	48.1	80.4	14,600		95	45.1	98.1	8,900		135	34.5	96.7	4,000		140	31.2	89.0	3,700	
	75	44.1	75.6	13,300		100	41.9	92.8	8,200		140	31.2	89.0	3,700		145	27.6	80.1	3,300	
	80	39.8	70.1	12,100		105	38.4	86.9	7,500		145	27.6	80.1	3,300		38	78.2	172.5	25,800	
	85	35.1	63.5	11,100		110	34.7	80.1	6,900		40	77.5	172.0	25,600		45	75.8	170.8	24,700	
	90	29.7	55.7	10,200		115	30.7	72.3	6,400		45	75.8	170.8	24,700		50	74.0	169.5	22,000	
	95	23.3	45.6	9,400		120	26.0	63.1	6,000		50	74.0	169.5	22,000		55	72.2	168.0	19,100	
	125	20.4	51.4	5,500		125	20.4	51.4	5,500		55	72.2	168.0	19,100		60	70.5	166.3	16,800	
	22	80.1	114.4	54,900		30	78.9	143.5	35,900		60	70.5	166.3	16,800		65	68.7	164.4	14,900	
	24	79.1	114.1	52,800		32	78.1	143.1	34,700		65	68.7	164.4	14,900		70	66.9	162.4	13,300	
26	78.0	113.7	50,900	34	77.3	142.6	33,600	70	66.9	162.4	13,300	75	65.0	160.1	11,900					
28	77.0	113.2	49,100	36	76.4	142.2	32,500	75	65.0	160.1	11,900	80	63.1	157.7	10,700					
30	75.9	112.7	47,400	38	75.6	141.7	31,500	80	63.1	157.7	10,700	85	61.2	155.1	9,700					
140	32	74.8	112.2	43,700	170	40	74.7	141.1	30,500	200	85	61.2	155.1	9,700	240	90	59.3	152.2	8,800	
	34	73.7	111.7	40,000		45	72.6	139.7	26,300		90	59.3	152.2	8,800		95	57.3	149.1	8,000	
	36	72.6	111.0	36,900		50	70.5	138.0	22,600		95	57.3	149.1	8,000		100	55.3	145.8	7,300	
	38	71.5	110.4	34,100		55	68.3	136.1	19,800		100	55.3	145.8	7,300		105	53.2	142.2	6,600	
	40	70.4	109.7	31,700		60	66.0	134.0	17,400		105	53.2	142.2	6,600		110	51.1	138.3	6,100	
	45	67.6	107.8	26,900		65	63.8	131.7	15,500		110	51.1	138.3	6,100		115	48.9	134.1	5,500	
	50	64.8	105.6	23,300		70	61.5	129.1	13,900		115	48.9	134.1	5,500		120	46.6	129.6	5,100	
	55	61.9	103.1	20,400		75	59.1	126.2	12,500		120	46.6	129.6	5,100		125	44.2	124.6	4,600	
	60	58.9	100.2	18,100		80	56.7	123.1	11,300		125	44.2	124.6	4,600		130	41.7	119.3	4,200	
	65	55.8	97.0	16,100		85	54.2	119.7	10,300		130	41.7	119.3	4,200		135	39.2	113.4	3,900	
150	70	52.6	93.4	14,500	190	90	51.7	115.9	9,400	220	135	39.2	113.4	3,900	260	140	36.4	106.9	3,500	
	75	49.2	89.4	13,200		95	49.0	111.7	8,600		140	36.4	106.9	3,500		145	33.5	99.8	3,200	
	80	45.7	84.8	12,000		100	46.2	107.2	7,900		145	33.5	99.8	3,200						
	85	41.9	79.6	11,000		105	43.3	102.1	7,300											
	90	37.9	73.6	10,100		110	40.3	96.5	6,700											
	95	33.4	66.6	9,300		115	37.0	90.3	6,200											
	100	28.3	58.2	8,600		120	33.4	83.2	5,700											
	105	22.2	47.7	7,900		125	29.5	75.0	5,300											
						130	25.0	65.3	4,900											
						135	19.7	53.2	4,500											

Combined From Charts:
No. 6774-A 2-9-76
No. 6483-A 5-9-75
No. 6772-A 10-2-74

**MANITOWOC ENGINEERING CO.**

(A division of The Manitowoc Company, Inc.) Manitowoc, Wisconsin 54220

**LIFTCRANE CAPACITIES**MEETS ANSI B30.5
REQUIREMENTS EXCEPT
WHERE NOTED WITH B**2900WC****CRAWLER****BOOM NO. 18 WITH OPEN THROAT TOP
20'0" CRAWLERS — 36,000 LB. COUNTERWEIGHT**

LIFTING CAPACITIES: Capacities for various boom lengths and operating radii may be based on per cent of tipping, strength of structural components, operating speeds and other factors. Capacities are for freely suspended loads and do not exceed 75% of static tipping loads. Capacities based on structural competence are shown by shaded areas.

Capacities indicated by "B" represent boom positions which, without load, provide less than required ANSI B30.5 backward stability.

Capacities are shown in pounds. 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 gantry in working position and under conditions referred to in rigging drawing No. 190077 and wire rope specification chart No. 6483-A.

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

OPERATING RADIUS: Operating radius is the horizontal distance from the axis of rotation to the center of vertical hoist line or load block with the load freely suspended. Add 11' 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.

Boom Lgth.: Feet	Oper. Rad.: Feet	Bm. Ang.: Deg.	Boom Point: Elev.	Capacity: Crawlers Retracted	Capacity: Crawlers Extended	
40	12	77.2	45.1	105,200B	130,000	
	13	75.8	44.8	92,400B	128,000	
	14	74.3	44.6	82,200B	113,700	
	15	72.8	44.3	74,100B	100,700	
	16	71.3	43.9	67,400B	90,400	
	17	69.8	43.6	61,700B	81,900	
	18	68.2	43.2	57,000B	74,800	
	19	66.7	42.8	52,800B	68,900	
	20	65.1	42.3	49,300B	63,800	
	22	61.9	41.4	43,300B	55,500	
	24	58.6	40.2	38,700B	49,100	
	26	55.2	38.9	34,800B	44,000	
	28	51.6	37.4	31,700B	39,800	
	30	47.9	35.7	29,000B	36,300	
	32	43.9	33.8	26,700B	33,300	
	34	39.6	31.5	24,800	30,800	
	36	34.8	28.9	23,100	28,600	
	38	29.4	25.7	21,600	26,700	
	40	23.0	21.7	20,200	25,000	
	50	12	79.8	55.3	105,000B	116,600
		13	78.7	55.1	92,100B	113,600
14		77.5	54.9	81,900B	110,700	
15		76.3	54.6	73,800B	100,500	
16		75.1	54.4	67,100B	90,100	
17		73.9	54.1	61,400B	81,700	
18		72.7	53.8	56,600B	74,600	
19		71.5	53.5	52,500B	68,600	
20		70.3	53.1	48,900B	63,500	
22		67.9	52.4	43,000B	55,200	
24		65.4	51.5	38,300B	48,800	
26		62.8	50.5	34,500	43,600	
28		60.2	49.5	31,300	39,400	
30		57.5	48.3	28,700	35,900	
32		54.8	46.9	26,400	33,000	
34		51.9	45.4	24,400	30,400	
36		49.0	43.8	22,700	28,200	
38		45.8	41.9	21,200	26,300	
40		42.6	39.9	19,900	24,600	
45		33.2	33.4	17,100	21,200	
50		20.5	23.6	15,000	18,500	

Boom Lgth.: Feet	Oper. Rad.: Feet	Bm. Ang.: Deg.	Boom Point: Elev.	Capacity: Crawlers Retracted	Capacity: Crawlers Extended
60	13	80.6	65.3	91,800B	102,900
	14	79.6	65.1	81,700B	100,300
	15	78.6	64.9	73,500B	97,900
	16	77.6	64.7	66,800B	89,900
	17	76.7	64.4	61,100B	81,400
	18	75.7	64.2	56,400B	74,400
	19	74.7	63.9	52,200B	68,400
	20	73.7	63.7	48,600B	63,300
	22	71.7	63.0	42,700	55,000
	24	69.7	62.3	38,000	48,500
	26	67.6	61.5	34,200	43,400
	28	65.6	60.7	31,000	39,200
	30	63.4	59.7	28,400	35,700
	32	61.3	58.7	26,100	32,700
	34	59.1	57.5	24,100	30,200
	36	56.8	56.3	22,400	28,000
	38	54.5	54.9	20,900	26,000
	40	52.1	53.4	19,600	24,300
	45	45.8	49.1	16,800	20,900
	50	38.7	43.6	14,600	18,200
	70	55	30.2	36.3	12,900
60		18.7	25.3	11,500	14,300
14		81.1	75.2	81,600B	92,700
15		80.3	75.1	73,400B	90,400
16		79.4	74.9	66,700B	88,200
17		78.6	74.7	61,000B	81,300
18		77.8	74.5	56,300B	74,300
19		76.9	74.2	52,100B	68,300
20		76.1	74.0	48,500	63,200
22		74.4	73.5	42,600	54,900
24		72.7	72.9	37,900	48,400
26		71.0	72.2	34,100	43,300
28		69.2	71.5	30,900	39,100
30		67.5	70.7	28,300	35,600
32		65.7	69.8	26,000	32,600
34		63.9	68.9	24,000	30,100
36		62.0	67.9	22,300	27,900

Boom Lgth.: Feet	Oper. Rad.: Feet	Bm. Ang.: Deg.	Boom Point: Elev.	Capacity: Crawlers Retracted	Capacity: Crawlers Extended
80	38	60.2	66.8	20,800	25,900
	40	58.3	65.6	19,500	24,200
	45	53.3	62.2	16,700	20,800
	50	48.0	58.1	14,500	18,100
	55	42.2	53.1	12,800	15,900
	60	35.7	46.9	11,400	14,200
	65	28.0	38.9	10,200	12,700
	70	17.3	26.9	9,200	11,500
	15	81.5	85.2	73,200B	82,800
	16	80.8	85.0	66,400B	76,000
	17	80.0	84.9	60,800	70,000
	18	79.3	84.7	56,000	74,100
	19	78.6	84.5	51,900	68,100
	20	77.9	84.3	48,300	62,900
	22	76.4	83.8	42,300	54,600
	24	74.9	83.3	37,600	48,200
	26	73.4	82.7	33,800	43,000
	28	71.9	82.1	30,600	38,800
	30	70.4	81.4	28,000	35,300
	32	68.9	80.7	25,700	32,300
	34	67.3	79.9	23,700	29,800
36	65.8	79.0	22,000	27,600	
38	64.2	78.1	20,500	25,700	
40	62.6	77.1	19,200	24,000	
45	58.5	74.3	16,400	20,500	
50	54.2	70.9	14,200	17,800	
55	49.6	67.0	12,500	15,600	
60	44.7	62.4	11,100	13,900	
65	39.4	56.8	9,900	12,500	
70	33.3	50.0	8,900	11,200	
75	26.1	41.3	8,100	10,200	
80	16.2	28.3	7,300	9,300	

Capacities continued
on reverse side.

Form No. 6774-B, 2-23-76/GA

Capacities continued
on reverse side.

Form No. 6774-B, 2-23-76/GA

**SEE CONDITIONS ON REVERSE SIDE**

Boom Lgth.: Feet	Oper. Rad.: Feet	Bm. Ang.: Deg.	Boom Point: Elev.	Capacity: Crawlers Retracted	Capacity: Crawlers Extended	Boom Lgth.: Feet	Oper. Rad.: Feet	Bm. Ang.: Deg.	Boom Point: Elev.	Capacity: Crawlers Retracted	Capacity: Crawlers Extended	Boom Lgth.: Feet	Oper. Rad.: Feet	Bm. Ang.: Deg.	Boom Point: Elev.	Capacity: Crawlers Retracted	Capacity: Crawlers Extended
90	17	81.2	95.0	60,600	72,700	120	26	79.0	123.9	33,100	42,400	160	36	78.2	162.7	20,300	26,000
	18	80.5	94.8	55,800	71,100		28	78.1	123.5	29,900	38,100		38	77.4	162.2	18,800	24,100
	19	79.9	94.7	51,600	67,900		30	77.1	123.0	27,200	34,600		40	76.7	161.8	17,500	22,300
	20	79.2	94.5	48,100	62,800		32	76.1	122.5	25,000	31,600		45	74.8	160.5	14,700	18,800
	22	77.9	94.1	42,100	54,400		34	75.1	122.0	23,000	29,100		50	73.0	159.1	12,500	16,100
	24	76.6	93.6	37,400	48,000		36	74.1	121.5	21,300	26,900		55	71.1	157.4	10,800	14,000
	26	75.3	93.1	33,600	42,800		38	73.1	120.9	19,800	24,900		60	69.2	155.6	9,400	12,200
	28	74.0	92.6	30,400	38,600		40	72.1	120.3	18,400	23,200		65	67.3	153.6	8,200	10,800
	30	72.7	92.0	27,700	35,100		45	69.6	118.5	15,600	19,700		70	65.3	151.4	7,200	9,500
	32	71.3	91.3	25,500	32,100		50	67.0	116.5	13,500	17,000		75	63.3	149.0	6,300	8,500
100	34	70.0	90.6	23,500	29,600	130	55	64.4	114.3	11,700	14,900	170	80	61.3	146.4	5,600	7,600
	36	68.6	89.9	21,800	27,400		60	61.7	111.8	10,300	13,200		85	59.2	143.6	4,900	6,800
	38	67.2	89.0	20,300	25,400		65	59.0	108.9	9,100	11,700		90	57.1	140.4	4,400	6,100
	40	65.8	88.2	18,900	23,700		70	56.2	105.7	8,100	10,500		95	55.0	137.1	3,800	5,500
	45	62.3	85.7	16,200	20,200		75	53.2	102.2	7,300	9,400		100	52.8	133.4	3,400	4,900
	50	58.6	82.9	14,000	17,600		80	50.2	98.2	6,500	8,500		105	50.5	129.5	3,000	4,400
	55	54.8	79.6	12,300	15,400		85	47.0	93.8	5,900	7,700		110	48.1	125.2	2,700	4,000
	60	50.8	75.8	10,900	13,700		90	43.6	88.9	5,300	7,000		115	45.7	120.5	2,400	3,600
	65	46.6	71.5	9,700	12,200		95	40.1	83.3	4,800	6,400		120	43.1	115.4	2,100	3,200
	70	42.0	66.3	8,700	11,000		100	36.2	76.9	4,300	5,900		125	40.4	110.4	1,800	2,900
110	75	37.0	60.3	7,800	10,000	140	105	31.9	69.5	3,900	5,400	180	130	37.2	107.1	1,500	2,300
	80	31.4	52.9	7,100	9,100		110	27.1	60.7	3,600	4,900		140	34.1	103.1	1,300	2,100
	85	24.6	43.5	6,400	8,300		115	21.3	49.6	3,000	4,500		150	31.1	99.1	1,100	1,900
	90	15.2	29.7	5,900	7,600		120	17.1	42.1	2,600	4,000		160	28.1	95.1	900	1,700
	19	80.9	104.8	51,500	62,900		125	13.1	34.1	2,200	3,600		170	25.1	91.1	800	1,600
	20	80.3	104.6	47,900	58,600		130	10.1	27.1	1,900	3,200		180	22.1	87.1	700	1,500
	22	79.1	104.3	42,000	54,300		135	7.1	20.1	1,600	2,900		190	19.1	83.1	600	1,400
	24	78.0	103.9	37,300	47,800		140	4.1	13.1	1,300	2,600		200	16.1	79.1	500	1,300
	26	76.8	103.4	33,400	42,700		145	1.1	6.1	1,000	2,300		210	13.1	75.1	400	1,200
	28	75.6	102.9	30,300	38,400		150	0.1	0.1	800	2,000		220	10.1	71.1	300	1,100
120	30	74.4	102.4	27,600	34,900	150	155	0.1	0.1	700	1,800	200	230	9.1	67.1	200	1,000
	32	73.2	101.8	25,300	32,000		160	0.1	0.1	600	1,600		240	8.1	63.1	180	900
	34	72.0	101.2	23,300	29,400		165	0.1	0.1	500	1,400		250	7.1	59.1	160	800
	36	70.8	100.5	21,600	27,200		170	0.1	0.1	400	1,200		260	6.1	55.1	140	700
	38	69.6	99.8	20,100	25,300		175	0.1	0.1	300	1,000		270	5.1	51.1	120	600
	40	68.4	99.0	18,800	23,600		180	0.1	0.1	200	900		280	4.1	47.1	100	500
	45	65.3	96.9	16,000	20,100		185	0.1	0.1	100	800		290	3.1	43.1	80	400
	50	62.1	94.4	13,800	17,400		190	0.1	0.1	50	700		300	2.1	39.1	60	300
	55	58.8	91.6	12,100	15,300		195	0.1	0.1	20	600		310	1.1	35.1	40	200
	60	55.4	88.3	10,700	13,500		200	0.1	0.1	10	500		320	0.1	31.1	20	100
130	65	51.8	84.7	9,500	12,100	160	205	0.1	0.1	5	400	220	330	0.1	27.1	10	50
	70	48.1	80.4	8,500	10,800		210	0.1	0.1	0	300		340	0.1	23.1	5	0
	75	44.1	75.6	7,700	9,800		215	0.1	0.1	0	200		350	0.1	19.1	0	0
	80	39.8	70.1	6,900	8,900		220	0.1	0.1	0	100		360	0.1	15.1	0	0
	85	35.1	63.5	6,300	8,100		225	0.1	0.1	0	50		370	0.1	11.1	0	0
	90	29.7	55.7	5,700	7,400		230	0.1	0.1	0	0		380	0.1	7.1	0	0
	95	23.3	45.6	5,200	6,800		235	0.1	0.1	0	0		390	0.1	3.1	0	0
	100	17.1	34.1	4,700	6,200		240	0.1	0.1	0	0		400	0.1	0	0	0
	105	10.1	20.1	4,200	5,600		245	0.1	0.1	0	0		410	0.1	0	0	0
	110	3.1	6.1	3,700	5,100		250	0.1	0.1	0	0		420	0.1	0	0	0
140	115	0.1	0.1	3,200	4,600	170	255	0.1	0.1	0	0	240	430	0.1	0	0	0
	120	0.1	0.1	2,700	4,000		260	0.1	0.1	0	0		440	0.1	0	0	0
	125	0.1	0.1	2,200	3,600		265	0.1	0.1	0	0		450	0.1	0	0	0
	130	0.1	0.1	1,700	3,200		270	0.1	0.1	0	0		460	0.1	0	0	0
	135	0.1	0.1	1,200	2,800		275	0.1	0.1	0	0		470	0.1	0	0	0
	140	0.1	0.1	700	2,400		280	0.1	0.1	0	0		480	0.1	0	0	0
	145	0.1	0.1	200	2,000		285	0.1	0.1	0	0		490	0.1	0	0	0
	150	0.1	0.1	0	1,600		290	0.1	0.1	0	0		500	0.1	0	0	0
	155	0.1	0.1	0	1,200		295	0.1	0.1	0	0		510	0.1	0	0	0
	160	0.1	0.1	0	800		300	0.1	0.1	0	0		520	0.1	0	0	0
150	165	0.1	0.1	0	400	200	305	0.1	0.1	0	0	260	530	0.1	0	0	0
	170	0.1	0.1	0	0		310	0.1	0.1	0	0		540	0.1	0	0	0
	175	0.1	0.1	0	0		315	0.1	0.1	0	0		550	0.1	0	0	0
	180	0.1	0.1	0	0		320	0.1	0.1	0	0		560	0.1	0	0	0
	185	0.1	0.1	0	0		325	0.1	0.1	0	0		570	0.1	0	0	0
	190	0.1	0.1	0	0		330	0.1	0.1	0	0		580	0.1	0	0	0
	195	0.1	0.1	0	0		335	0.1	0.1	0	0		590	0.1	0	0	0
	200	0.1	0.1	0	0		340	0.1	0.1	0	0		600	0.1	0	0	0
	205	0.1	0.1	0	0		345	0.1	0.1	0	0		610	0.1	0	0	0
	210	0.1	0.1	0	0		350	0.1	0.1	0	0		620	0.1	0	0	0

Combined From Charts:
 No. 6774-B 2-9-76
 No. 6774-C 2-23-76
 No. 6483-A 5-9-75
 No. 6772-A 10-2-74

**MANITOWOC ENGINEERING CO.**

(A division of The Manitowoc Company, Inc.) Manitowoc, Wisconsin 54220

**JIB LIFTING CAPACITIES**MEETS
ANSI B30.5
REQUIREMENTS**2900WC****JIB NO. 124 WITH 12'6" STRUT ON
BOOM NO. 18 WITH OPEN THROAT TOP
20' CRAWLERS EXTENDED AND BLOCKED****0 DEGREE JIB OFFSET ANGLE**

Chart supplements boom capacity chart No. 6774-A. Capacities are for freely suspended loads based on tipping, strength of structural components or other factors. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, as well as adverse operating conditions & physical machine depreciation.

Capacities do not exceed **75%** of static tipping loads with machine on firm level surface. Capacities based on structural competence are denoted by shaded areas. Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block. Weight of all load blocks, hooks, 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. Maximum capacity on 3/4" — 6x25 IPS, IWRC is 13,000 lbs./line.

30 FOOT JIB	JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS												JIB POINT RADIUS: FEET
		BOOM LENGTH — FEET												
		70	80	90	100	110	120	130	140	150	160	170	180	
	55 *	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	55 *
	60	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	14,900	60
	65	16,000	16,000	16,000	16,000	15,900	15,700	15,500	15,300	15,100	14,700	14,000	13,900	65
	70	15,200	14,900	14,700	14,500	14,300	14,100	13,900	13,600	13,500	13,100	13,000	12,700	70
	75	13,900	13,600	13,300	13,100	13,000	12,700	12,500	12,300	12,100	11,700	11,600	11,400	75
	80	12,700	12,400	12,100	11,900	11,800	11,500	11,300	11,100	10,900	10,500	10,400	10,200	80
	85	11,700	11,400	11,100	10,900	10,700	10,500	10,300	10,000	9,900	9,500	9,400	9,100	85
	90		10,500	10,200	10,000	9,800	9,600	9,400	9,100	9,000	8,600	8,500	8,200	90
	95		9,700	9,400	9,200	9,000	8,800	8,600	8,300	8,200	7,800	7,700	7,400	95
	100			8,700	8,500	8,300	8,100	7,900	7,600	7,500	7,100	6,900	6,700	100
	105			8,100	7,900	7,700	7,400	7,200	7,000	6,800	6,400	6,300	6,100	105
	110				7,300	7,100	6,900	6,700	6,400	6,200	5,900	5,700	5,500	110
	115					6,600	6,300	6,100	5,900	5,700	5,300	5,200	5,000	115
	120					6,100	5,900	5,700	5,400	5,200	4,900	4,700	4,500	120
	130						5,000	4,800	4,600	4,400	4,000	3,900	3,600	130
	140							4,100	3,900	3,700	3,300	3,200		140

40 FOOT JIB	JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS												JIB POINT RADIUS: FEET
		BOOM LENGTH — FEET												
		70	80	90	100	110	120	130	140	150	160	170	180	
	75*	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	75*
	80	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	10,700	10,600	10,400	80
	85	11,000	11,000	11,000	11,000	10,900	10,600	10,400	10,200	10,000	9,700	9,500	9,300	85
	90	10,900	10,600	10,400	10,200	10,000	9,700	9,500	9,300	9,100	8,800	8,600	8,400	90
	95	10,100	9,800	9,600	9,400	9,200	8,900	8,700	8,500	8,300	8,000	7,800	7,600	95
	100		9,100	8,800	8,600	8,500	8,200	8,000	7,800	7,600	7,300	7,100	6,900	100
	105		8,500	8,200	8,000	7,800	7,600	7,400	7,100	7,000	6,600	6,500	6,200	105
110			7,600	7,400	7,300	7,000	6,800	6,500	6,400	6,000	5,900	5,600	110	
115			7,100	6,900	6,700	6,500	6,300	6,000	5,900	5,500	5,300	5,100	115	
120				6,400	6,300	6,000	5,800	5,500	5,400	5,000	4,900	4,600	120	
125					5,800	5,600	5,400	5,100	4,900	4,600	4,400	4,200	125	
130					5,400	5,200	4,900	4,700	4,500	4,200	4,000	3,800	130	
140						4,400	4,200	4,000	3,800	3,500	3,300	3,100	140	
150								3,400	3,200				150	

50 FOOT JIB	JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS												JIB POINT RADIUS: FEET
		BOOM LENGTH — FEET												
		70	80	90	100	110	120	130	140	150	160	170	180	
	90 *	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	90 *
	95	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	7,900	7,700	95
	100	8,000	8,000	8,000	8,000	8,000	8,000	8,000	7,800	7,700	7,300	7,200	6,900	100
	105	8,000	8,000	8,000	8,000	7,900	7,600	7,400	7,200	7,000	6,700	6,500	6,300	105
	110		8,000	7,700	7,500	7,300	7,100	6,900	6,600	6,400	6,100	5,900	5,700	110
	115		7,400	7,200	7,000	6,800	6,500	6,300	6,100	5,900	5,600	5,400	5,200	115
	120			6,700	6,500	6,300	6,100	5,900	5,600	5,400	5,100	4,900	4,700	120
	125				6,100	5,900	5,600	5,400	5,200	5,000	4,600	4,500	4,300	125
	130				5,700	5,500	5,200	5,000	4,800	4,600	4,200	4,100	3,800	130
	135					5,100	4,900	4,600	4,400	4,200	3,900	3,700	3,500	135
	140					4,800	4,500	4,300	4,100	3,900	3,500	3,400	3,100	140
	150							3,700	3,400	3,300				150

60 FOOT JIB	JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS												JIB POINT RADIUS: FEET
		BOOM LENGTH — FEET												
		70	80	90	100	110	120	130	140	150	160	170	180	
	110 *	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	110 *
	115	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	115
	120		4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	120
	125		4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	125
	130			4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	3,900	130
	135				4,000	4,000	4,000	4,000	4,000	4,000	3,900	3,700	3,500	135
	140				4,000	4,000	4,000	4,000	4,000	3,900	3,600	3,400	3,200	140
145					4,000	4,000	4,000	4,000	3,800	3,600	3,400	3,200	145	
150					4,000	3,900	3,700	3,500	3,300				150	
155						3,700	3,500	3,200	3,000				155	

* These capacities apply for ALL lesser radii obtainable.

Form No. 6776-A, 5-21-75/GA

**MANITOWOC ENGINEERING CO.**

(A division of The Manitowoc Company, Inc.) Manitowoc, Wisconsin 54220

**JIB LIFTING CAPACITIES**MEETS
ANSI B30.5
REQUIREMENTS**2900WC****JIB NO. 124 WITH 12'6" STRUT ON
BOOM NO. 18 WITH OPEN THROAT TOP
20' CRAWLERS EXTENDED AND BLOCKED****10 DEGREE JIB OFFSET ANGLE**

Chart supplements boom capacity chart No. 6774-A. Capacities are for freely suspended loads based on tipping, strength of structural components or other factors. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, as well as adverse operating conditions & physical machine depreciation.

Capacities do not exceed **75%** of static tipping loads with machine on firm level surface. Capacities based on structural competence are denoted by shaded areas. Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block. Weight of all load blocks, hooks, 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. Maximum capacity on 3/4" — 6x25 IPS, IWRC is 13,000 lbs./line.

30 FOOT JIB	JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS												JIB POINT RADIUS: FEET	
		BOOM LENGTH — FEET													
		70	80	90	100	110	120	130	140	150	160	170	180		
	50 *	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	50 *
	55	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	15,200	55
	60	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	15,200	14,200	60
	65	16,000	16,000	16,000	16,000	16,000	16,000	15,800	15,600	15,500	15,100	14,300	13,300		65
	70	15,400	15,100	14,900	14,700	14,600	14,400	14,200	14,000	13,800	13,500	13,400	12,400		70
	75	14,000	13,700	13,500	13,300	13,200	13,000	12,800	12,500	12,400	12,100	11,900	11,700		75
	80	12,800	12,500	12,300	12,100	12,000	11,700	11,600	11,300	11,200	10,900	10,700	10,500		80
85		11,500	11,300	11,100	10,900	10,700	10,500	10,300	10,100	9,800	9,700	9,400		85	
90			10,300	10,200	10,000	9,800	9,600	9,400	9,200	8,900	8,700	8,500		90	
95			9,500	9,300	9,200	9,000	8,800	8,500	8,400	8,000	7,900	7,700		95	
100				8,600	8,500	8,200	8,000	7,800	7,700	7,300	7,200	7,000		100	
105				8,000	7,800	7,600	7,400	7,200	7,000	6,700	6,500	6,300		105	
110					7,200	7,000	6,800	6,600	6,400	6,100	5,900	5,700		110	
120						6,000	5,800	5,500	5,400	5,000	4,900	4,700		120	
130								4,700	4,500	4,200	4,000	3,800		130	
140									3,800	3,400	3,300	3,100		140	

40 FOOT JIB	JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS												JIB POINT RADIUS: FEET
		BOOM LENGTH — FEET												
		70	80	90	100	110	120	130	140	150	160	170	180	
70 *	70	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	70 *
	75	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	10,800	75
	80	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	10,900	10,200	80
	85	11,000	11,000	11,000	11,000	11,000	10,900	10,700	10,500	10,400	10,100	9,900	9,600	85
90	90	11,000	10,800	10,500	10,400	10,200	10,000	9,800	9,600	9,400	9,100	9,000	8,800	90
	95		10,000	9,700	9,500	9,400	9,200	9,000	8,800	8,600	8,300	8,200	7,900	95
	100			9,000	8,800	8,700	8,400	8,200	8,000	7,900	7,500	7,400	7,200	100
	105			8,300	8,100	8,000	7,800	7,600	7,400	7,200	6,900	6,700	6,500	105
110	110				7,600	7,400	7,200	7,000	6,800	6,600	6,300	6,100	5,900	110
	115					6,900	6,600	6,400	6,200	6,100	5,700	5,600	5,400	115
	120						6,400	6,000	5,700	5,600	5,200	5,100	4,900	120
	130							5,100	4,900	4,700	4,400	4,200	4,000	130
140	140								4,100	4,000	3,600	3,500	3,300	140
	150										3,300	3,000		150

50 FOOT JIB	JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS												JIB POINT RADIUS: FEET
		BOOM LENGTH — FEET												
		70	80	90	100	110	120	130	140	150	160	170	180	
	95 *	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	95 *
	100	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	7,700	7,500	7,300	100
	105		8,000	8,000	8,000	8,000	8,000	7,900	7,700	7,500	7,300	7,000	6,900	105
	110			7,800	7,700	7,500	7,300	7,100	6,900	6,700	6,400	6,300	6,100	110
	115			7,300	7,100	7,000	6,700	6,600	6,300	6,200	5,900	5,700	5,500	115
	120				6,600	6,500	6,200	6,100	5,800	5,700	5,400	5,200	5,000	120
	125					6,000	5,800	5,600	5,400	5,200	4,900	4,800	4,500	125
130					5,600	5,400	5,200	5,000	4,800	4,500	4,300	4,100	130	
135						5,000	4,800	4,600	4,400	4,100	3,900	3,700	135	
140							4,500	4,200	4,100	3,700	3,600	3,400	140	
145							4,100	3,900	3,700	3,400	3,300	3,000	145	
150								3,600	3,400	3,100			150	

60 FOOT JIB	JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS												JIB POINT RADIUS: FEET
		BOOM LENGTH — FEET												
		70	80	90	100	110	120	130	140	150	160	170	180	
	105 *	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	105 *
	110		4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	110
	115		4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	115
	120			4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	120
	125			4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	125
	130				4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	130
	135					4,000	4,000	4,000	4,000	4,000	4,000	4,000	3,800	135
	140					4,000	4,000	4,000	4,000	4,000	3,800	3,700	3,500	140
	145						4,000	4,000	4,000	3,800	3,500	3,300	3,100	145
	150							3,900	3,700	3,500	3,200	3,000		150

Form No. 6776-B, 5-21-75/GA * These capacities apply for ALL lesser radii obtainable.

NO. 124 JIB CAPACITIES — 2900WC — BOOM NO. 18 — O.T. — 10 DEG.

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**MANITOWOC ENGINEERING CO.**

(A division of The Manitowoc Company, Inc.) Manitowoc, Wisconsin 54220

**JIB LIFTING CAPACITIES**MEETS
ANSI B30.5
REQUIREMENTS**2900WC****JIB NO. 124 WITH 12'6" STRUT ON
BOOM NO. 18 WITH OPEN THROAT TOP
20' CRAWLERS EXTENDED AND BLOCKED****20 DEGREE JIB OFFSET ANGLE**

Chart supplements boom capacity chart No. 6774-A. Capacities are for freely suspended loads based on tipping, strength of structural components or other factors. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, as well as adverse operating conditions & physical machine depreciation.

Capacities do not exceed **75%** of static tipping loads with machine on firm level surface. Capacities based on structural competence are denoted by shaded areas. Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block. Weight of all load blocks, hooks, 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. Maximum capacity on 3/4" — 6x25 IPS, IWRC is 13,000 lbs./line.

30 FOOT JIB	JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS												JIB POINT RADIUS: FEET
		BOOM LENGTH — FEET												
		70	80	90	100	110	120	130	140	150	160	170	180	
	45 *	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	45 *
	50	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	15,500	50
	55	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	15,400	14,500	55
	60	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	15,200	14,500	13,600	60
	65	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	15,800	14,300	13,600	12,800	65
	70	15,600	15,300	15,100	15,000	14,800	14,600	14,500	14,300	14,100	13,500	12,800	12,000	70
	75		13,900	13,700	13,500	13,400	13,200	13,000	12,800	12,700	12,400	12,100	11,300	75
	80		12,700	12,500	12,300	12,200	12,000	11,800	11,600	11,500	11,200	11,000	10,700	80
	85			11,400	11,200	11,100	10,900	10,700	10,500	10,400	10,100	9,900	9,800	85
	90				10,300	10,200	9,900	9,800	9,600	9,400	9,100	9,000	8,800	90
	95					9,300	9,100	8,900	8,700	8,600	8,300	8,100	7,900	95
	100						8,400	8,200	8,000	7,900	7,500	7,400	7,200	100
	105						7,700	7,500	7,300	7,200	6,900	6,700	6,500	105
	110							6,900	6,700	6,600	6,200	6,100	5,900	110
	120									5,500	5,200	5,100	4,800	120
	130										4,300	4,200	4,000	130

40 FOOT JIB	JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS												JIB POINT RADIUS: FEET
		BOOM LENGTH — FEET												
		70	80	90	100	110	120	130	140	150	160	170	180	
	70*	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	70*
	75	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	10,500	75
	80	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	10,900	10,500	9,900	80
	85		11,000	11,000	11,000	11,000	11,000	11,000	11,000	10,800	10,700	10,400	9,900	85
	90			10,700	10,600	10,400	10,200	10,100	9,900	9,700	9,500	9,300	8,800	90
	95			9,900	9,700	9,600	9,400	9,200	9,000	8,900	8,600	8,500	8,300	95
	100				9,000	8,800	8,600	8,500	8,300	8,100	7,800	7,700	7,500	100
	105					8,200	7,900	7,800	7,600	7,400	7,100	7,000	6,800	105
	110						7,300	7,200	7,000	6,800	6,500	6,400	6,200	110
	115							6,600	6,400	6,300	6,000	5,800	5,600	115
	120							6,100	5,900	5,800	5,400	5,300	5,100	120
	125								5,400	5,300	5,000	4,800	4,600	125
	130									4,900	4,500	4,400	4,200	130
	140											3,600	3,400	140

50 FOOT JIB	JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS												JIB POINT RADIUS: FEET
		BOOM LENGTH — FEET												
		70	80	90	100	110	120	130	140	150	160	170	180	
	90 *	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	90 *
	95		8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	7,700	95
	100			8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	7,700	7,300	100
	105				8,000	8,000	8,000	8,000	8,000	7,800	7,600	7,300	6,900	105
	110				7,800	7,700	7,500	7,300	7,100	7,000	6,700	6,600	6,400	110
	115					7,100	6,900	6,800	6,600	6,400	6,100	6,000	5,800	115
	120						6,400	6,300	6,100	5,900	5,600	5,500	5,300	120
125							5,800	5,600	5,500	5,100	5,000	4,800	125	
130								5,100	5,000	4,700	4,600	4,400	130	
135								4,700	4,600	4,300	4,200	4,000	135	
140									4,200	3,900	3,800	3,600	140	
145										3,600	3,500	3,300	145	

60 FOOT JIB	JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS												JIB POINT RADIUS: FEET
		BOOM LENGTH — FEET												
		70	80	90	100	110	120	130	140	150	160	170	180	
60 FOOT JIB	100 *	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	100 *
	105		4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	105
	110			4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	110
	115				4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	115
	120				4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	120
	125					4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	125
	130						4,000	4,000	4,000	4,000	4,000	4,000	4,000	130
	135							4,000	4,000	4,000	4,000	4,000	4,000	135
	140							4,000	4,000	4,000	4,000	3,900	3,700	140
	150									3,700	3,400	3,300	3,100	150

* These capacities apply for ALL lesser radii obtainable.

Form No. 6776-C, 5-21-75/GA

**MANITOWOC ENGINEERING CO.**

(A division of The Manitowoc Company, Inc.) Manitowoc, Wisconsin 54220

**JIB LIFTING CAPACITIES**MEETS
ANSI B30.5
REQUIREMENTS**2900WC****JIB NO. 124 WITH 12'6" STRUT ON
BOOM NO. 18 WITH OPEN THROAT TOP
20' CRAWLERS EXTENDED AND BLOCKED****30 DEGREE JIB OFFSET ANGLE**

Chart supplements boom capacity chart No. 6774-A. Capacities are for freely suspended loads based on tipping, strength of structural components or other factors. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, as well as adverse operating conditions & physical machine depreciation.

Capacities do not exceed **75%** of static tipping loads with machine on firm level surface. Capacities based on structural competence are denoted by shaded areas. Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block. Weight of all load blocks, hooks, 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. Maximum capacity on 3/4" — 6x25 IPS, IWRC is 13,000 lbs./line.

30 FOOT JIB	JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS												JIB POINT RADIUS: FEET
		BOOM LENGTH — FEET												
	70	80	90	100	110	120	130	140	150	160	170	180		
	35 *	16,000	16,000		16,000	16,000							35 *	
	40	16,000	16,000		16,000	16,000							40	
	45	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	15,800	15,400	45	
	50	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	15,800	15,400	50	
	55	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	15,000	14,600	55	
	60	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	14,200	13,900	60	
	65		16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	13,500	13,100	65	
70			15,300	15,200	15,100	14,900	14,700	14,600	14,500	12,900	12,300	70		
75				13,700	13,600	13,400	13,300	13,100	13,000	12,200	11,700	75		
80					12,400	12,200	12,000	11,800	11,700	11,400	11,100	80		
85						11,100	10,900	10,700	10,600	10,300	10,200	85		
90							10,000	9,800	9,700	9,400	9,200	9,100	90	
95								8,900	8,800	8,500	8,400	8,200	95	
100									8,000	7,700	7,600	7,400	100	
105										7,000	6,900	6,700	105	
110											6,300	6,100	110	

40 FOOT JIB	JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS												JIB POINT RADIUS: FEET
		BOOM LENGTH — FEET												
		70	80	90	100	110	120	130	140	150	160	170	180	
	50 *	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000		50 *	
	55	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000		55	
	60	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	60	
	65	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	65	
	70	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	10,800	70	
	75		11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	10,800	10,200	75	
	80			11,000	11,000	11,000	11,000	11,000	11,000	11,000	10,300	9,700	80	
	85				11,000	11,000	11,000	11,000	11,000	11,000	9,900	9,600	9,100	85
	90					10,600	10,500	10,300	10,100	10,000	9,500	9,100	90	
	95						9,600	9,400	9,300	9,100	8,900	8,700	95	
	100							8,700	8,500	8,400	8,100	8,000	100	
	105								7,800	7,700	7,400	7,100	105	
	110									7,000	6,700	6,600	110	
	115										6,000	5,900	115	

50 FOOT JIB	JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS												JIB POINT RADIUS: FEET
		BOOM LENGTH — FEET												
		70	80	90	100	110	120	130	140	150	160	170	180	
50 FOOT JIB	70 *	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	70 *
	75	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	75
	80	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	80
	85		8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	85
	90			8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	90
	95				8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	7,700	95
	100					8,000	8,000	8,000	8,000	8,000	7,800	7,700	7,300	100
	105						8,000	8,000	8,000	8,000	7,900	7,500	7,300	105
	110							7,500	7,400	7,300	7,000	6,900	6,600	110
	115								6,800	6,700	6,400	6,300	6,100	115
	120									6,700	6,400	5,800	5,600	120
	125										5,900	5,300	5,100	125

60 FOOT JIB	JIB POINT RADIUS: FEET	CAPACITIES IN POUNDS												JIB POINT RADIUS: FEET
		BOOM LENGTH — FEET												
		70	80	90	100	110	120	130	140	150	160	170	180	
	90 *	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	90*
	95		4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	95
	100			4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	100
	105				4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	105
	110					4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	110
	115						4,000	4,000	4,000	4,000	4,000	4,000	4,000	115
	120							4,000	4,000	4,000	4,000	4,000	4,000	120
125								4,000	4,000	4,000	4,000	4,000	125	
130									4,000	4,000	4,000	4,000	130	
140										4,000	4,000	4,000	140	

Form No. 6776-D, 5-21-75/GA * These capacities apply for ALL lesser radii obtainable.

NO. 124 JIB CAPACITIES — 2900WC — BOOM NO. 18 — O.T. — 30 DEG.

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**MANITOWOC ENGINEERING CO.**

(A division of The Manitowoc Company, Inc.) Manitowoc, Wisconsin 54220

**LOAD LINE SPECIFICATIONS** **2900WC****LIFTCRANE — BOOM NO. 18 WITH OPEN THROAT TOP**

BOOM OR BOOM AND JIB LENGTH FEET	WHIP LINE LEFT FRONT DRUM FEET		LOAD LINE REAR DRUM FEET	MAXIMUM REQUIRED PARTS OF LINE
	1 PART	2 PART		
40	100	140	380	8
50	120	170	420	7
60	140	200	440	6
70	160	230	510	6
80	180	260	510	5
90	200	290	570	5
100	220	320	570	4
110	240	350	570	4
120	260	380	570	3
130	280	410	620	3
140	300	440	620	3
150	320	470	620	2
160	340	500	620	2
170	360	530	620	2
180	380	560	620	2
190	400	590		
200	420	620		
210	440	650		
220	460	---		
230	480	---		
240	500	---		

LOAD LINE: 3/4" — 6 x 25 Bright Super Tensile, Monitor AAA, Regular Lay, IWRC. Minimum Breaking Strength 32.3 Ton.
(Approx. Weight Per Ft. in Lbs. 1.04)

HOIST REEVING FOR MAIN LOAD BLOCK								
No. Parts of Line	1	2	3	4	5	6	7	8
Maximum Load — Lbs.	18,400	36,800	55,200	73,600	92,000	110,400	123,500	130,000

WHIP LINE: 3/4" — 6 x 25 Filler Wire, Improved Plow Steel, Regular Lay, IWRC. Minimum Breaking Strength 25.6 Ton.

Maximum Load = 13,000 lbs./Line.

(Approx. Weight Per Ft. in Lbs. 1.04)