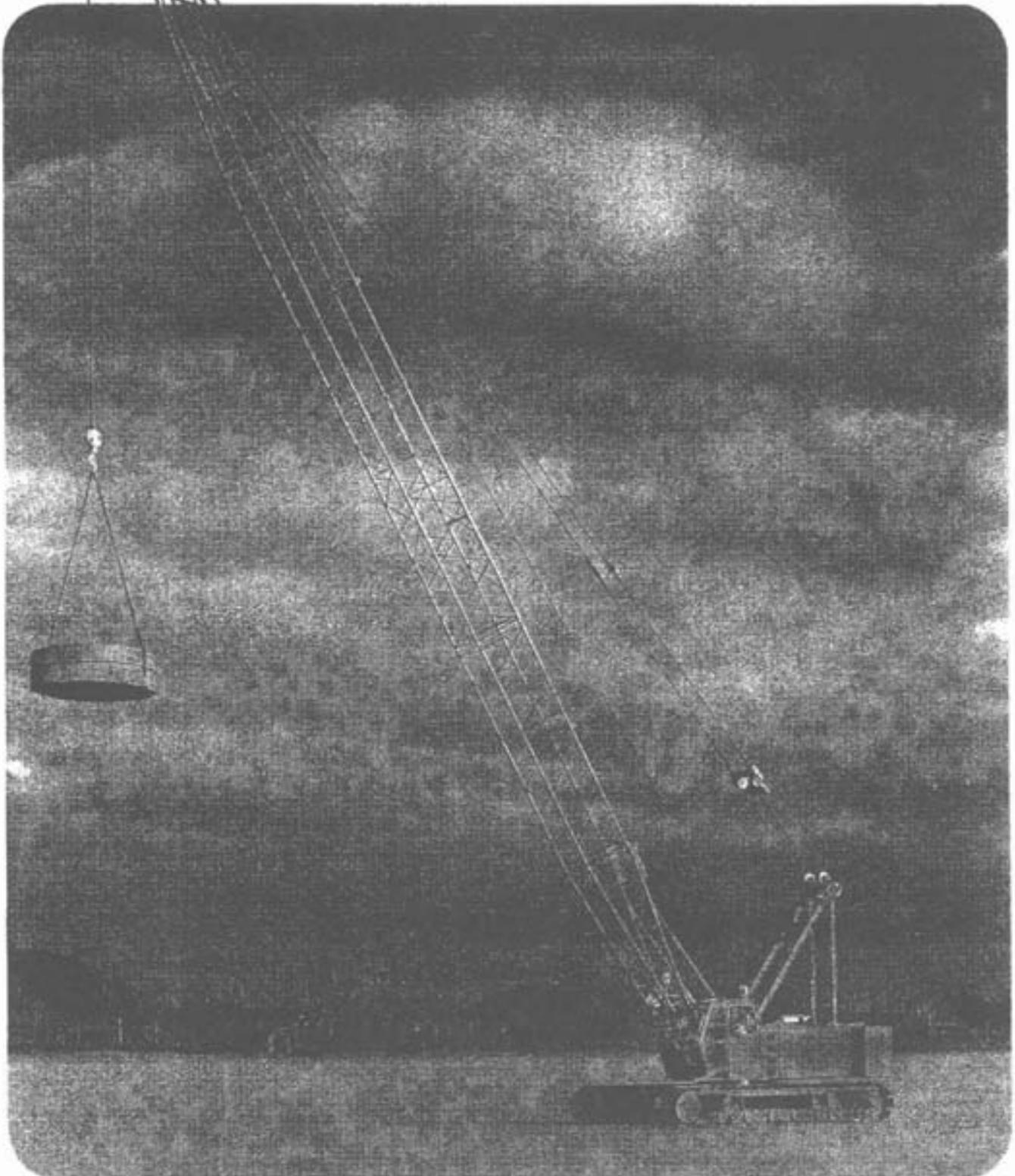




Manitowoc

M-80W



88-Ton Liftcrane ■ 20,000-Lb. Clamshell ■ 18,000-Lb. Dragline

LOWERWORKS

CARBODY: Single-piece steel fabrication. Integral turret provides mounting for inner race of turntable bearing. Wings on carbody mate with pockets in crawler frames.

CRAWLER ASSEMBLIES: Two reinforced steel fabrications, each supporting a front idler roller, 12 intermediate rollers, hydraulic drive motor, fully-enclosed travel planetary, crawler tumbler, and tread. Abrasion-resistant steel slide rails along crawler frame top.

FRONT IDLER ROLLER: Double-flanged, 33" (838mm) diameter, fabricated steel roller is mounted on stationary shaft supported at both ends by crawler frame.

INTERMEDIATE ROLLERS: Double-flanged, 12" (305mm) diameter rollers are mounted along underside of crawler frame. Each roller is mounted on a 2 3/4" (70mm) diameter stationary shaft whose ends are supported by welded frames and held in place by keeper bars.

CRAWLER DRIVE TUMBLER: Planetary driven tumbler transmits drive torque to crawler tread. Tumbler is supported at both ends by crawler frame.

CRAWLER TREADS: 30" (762mm) wide, 49 pads per crawler assembly. Adjacent pads connected by two high-carbon steel pins. Each pad is cast alloy steel with center driving lug.

INDEPENDENT TRAVEL POWER: Two pressure-compensated, variable-displacement hydraulic motors, one driving each crawler. System enables each crawler to be rotated independently in either direction at variable speed.

TURNABLE BEARING: 66 1/4" (1.68M) diameter single-row ball bearing bolted to carbody and rotating bed provides circle for swing. Ring gear with machine-cut teeth is integral part of bearing's inner race.



FULL-WIDTH TANDEM DRUMS

UPPERWORKS

ROTATING BED: Single-piece, welded-steel fabrication with vertical side frames and internal framing provides support for mounting all other upperworks components. Bed rotates on 66 1/4" (1.68M) diameter turntable bearing. Complete upperworks can be mounted on carbody or truck chassis.

DRUM SHAFTS: Two full-width drums are provided for the main hoist and whip lines. Main hoist drum is 21 3/4" (543mm) wide, and has a 19" (483mm) diameter grooved barrel with 37" (940mm) diameter flanges. Whip line drum is 21 3/4" (543mm) wide, and has a 23" (584mm) diameter grooved barrel with 37" (940mm) diameter flanges. Each drum is antifriction-bearing mounted on a heat-treated alloy steel shaft that is antifriction-bearing mounted on rotating bed. Each drum shaft is driven independently by a fixed-displacement, low-speed, high-torque, radial-piston motor. Gears are fully enclosed and operate in oil. Clutches are spring-set, air-released, internal-expanding, band type. Service brakes are external-contracting, air-applied, spring-released, band type. Parking brakes are spring-set, air-released. Rated line pulls to 20,000 pounds (9,072kg).

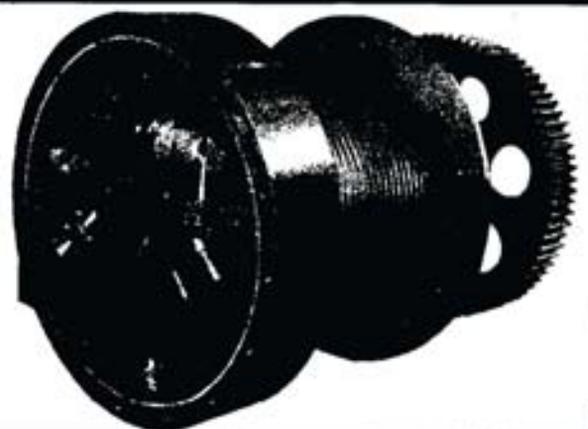
INDEPENDENT SWING: Driven by two fixed-displacement hydraulic motors coupled to planetary reducer. Reducer is splined to swing pinion that engages ring gear on turntable bearing's inner race. Manually-controlled parking brake on one hydraulic motor. Hydraulically-controlled, spring-loaded, gear-segment-type lock engages ring gear for positive locking.

INDEPENDENT BOOM HOIST: Dual drums welded to single shaft antifriction-bearing mounted on rear of rotating bed. Boom hoist drum shaft driven independently by fixed-displacement hydraulic motor coupled to internal brake and planetary reducer. Ratchet and pawl standard.

POWER PLANT ASSEMBLY: Welded steel frame supports engine, radiator, hydraulic pump drive and pumps, fuel tank, and hydraulic reservoir.

POWER TRANSMISSION: Diesel driven, hydrostatic system. Each function driven by its own pump and motor, providing totally independent operation.

POWER LOWERING: An integral function of system. Pump and motor provide hydraulically-powered rotation in either direction, resulting in loads being hoisted and lowered under power for positive control.



FULL-POWER/FREE-FALL DRUM

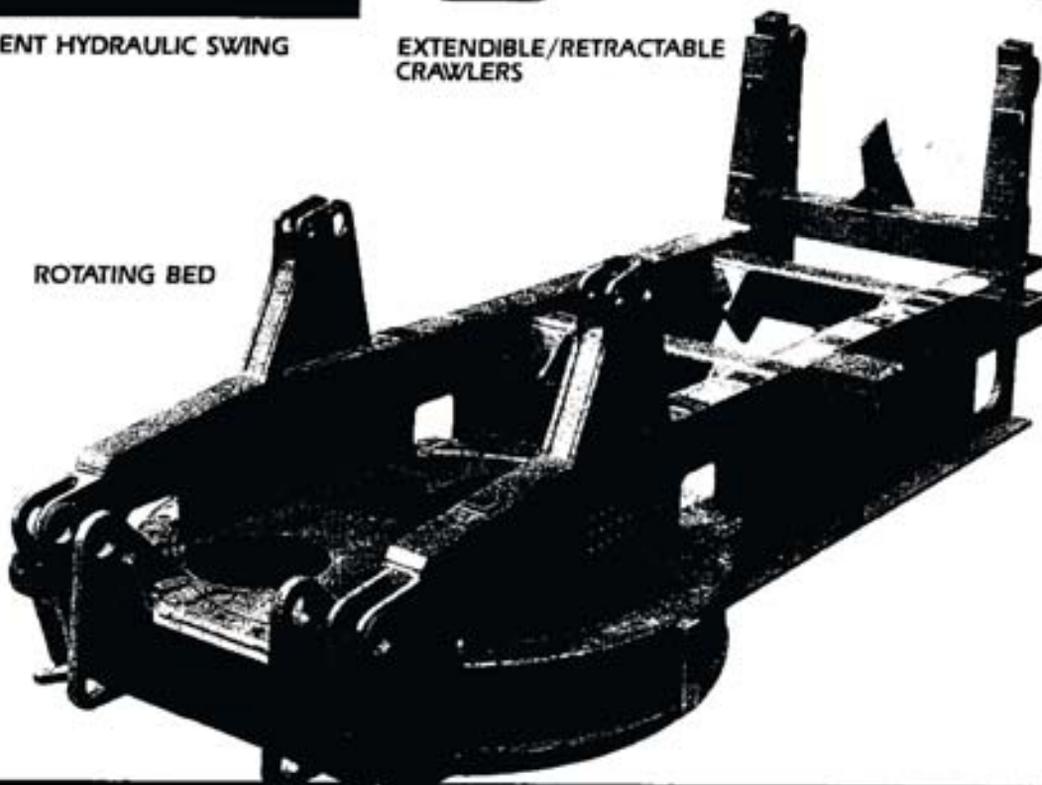


INDEPENDENT HYDRAULIC SWING



EXTENDIBLE/RETRACTABLE CRAWLERS

ROTATING BED



FULLY-ENCLOSED UPPERWORKS MACHINERY



WIDE-VIEW OPERATOR'S C



FRONT END ATTACHMENTS

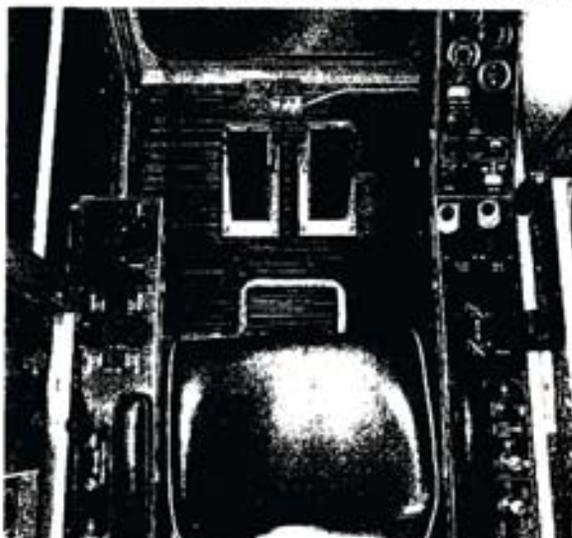
NO. 42 BOOM: 19' (5.79M) butt; 10' (3.05M), 20' (6.10M), and 40' (12.20M) inserts; 21' (6.40M) open throat top. Rectangular box-section design. All-welded construction with tubular chords and lacings. All boom sections are 51" (1.30M) wide x 54½" (1.38M) deep at pin-connected joints. Each insert matched with two 1¼" (32mm) diameter, single-length pendants. Lower boom point equipped with four 20" (508mm) diameter nylon sheaves. Optional, detachable, upper boom point has one 20" (508mm) diameter nylon sheave. All sheaves are antifriction bearing mounted. Basic boom length 40' (12.20M); maximum length 200' (60.95M).

BOOM RIGGING: Single line reeved from boom hoist drums through sheaves on gantry and equalizer forms 10-part rigging. Equalizer is connected to boom point by two 1¼" (32mm) diameter pendants. Rigging used to raise or lower gantry for counterweight installation and removal.

GANTRY AND BACKHITCH: Gantry is fabricated plate with parallel box-section legs. Supported on pins by rotating bed. Link-type backhitch pin-connects to gantry and rotating bed. Nylon gantry sheaves are antifriction-bearing mounted.

EQUALIZER: Fabricated steel frame supports four vertical sheaves and two horizontal sheaves, all made of nylon and antifriction-bearing mounted.

ERGONOMIC CONTROL CONSOLES



FOUR-TRUCK SHIPABILITY

AUTOMATIC BOOM STOP: Boom contacts push rod, stopping boom hoist operation when boom angle reaches 82° from horizontal.

TELESCOPIC BOOM STOP: Hydraulically-cushioned telescoping tubes pinned to boom and rotating bed start cushioning at 75° boom angle and provide positive physical stop at 85° from horizontal. Standard on liftcrane.

WIRE ROPE GUIDE: Two fleeting sheaves bushing-mounted in steel frame on upper side of boom top.

WIRE ROPE ROLLER GUIDES: Optional. Mounted on top of boom inserts. Rollers are induction hardened tubing, antifriction-bearing mounted.

NO. 128 JIB: Optional. 10-ton (9.07-metric ton) maximum capacity. 30' (9.15M) basic length extendible to 40' (12.20M), 50' (15.25M), or 60' (18.30M) with 10' (3.05M) inserts and matching pendants.

Jib offset angle adjustable to 0, 10, or 20 degrees. All-welded construction with tubular chords and lacings. Rectangular box-section 21½" (546mm) wide x 21½" (546mm) deep at pin-connected joints. Jib point has 20" (508mm) OD, nylon sheave, antifriction-bearing mounted. Maximum boom-and-jib combination, 180' (54.86M) + 60' (18.30M).

GENERAL

MACHINERY ENCLOSURES: Steel housings along sides of crane protect engine and hydraulic components. Enclosures swing open to permit access for service. Catwalks and railings, optional.

OPERATOR'S STATION: Fully enclosed and insulated steel module mounted at left front corner of rotating bed on vibration-absorbing rubber cushions. Large, rubber-mounted safety glass windows on all sides and in ceiling provide clear, wide-angle view. Sliding door on left side; large window on right side. Conveniently-located controls. Electric signal horn, heater, windshield wiper, and circulating fan, standard.

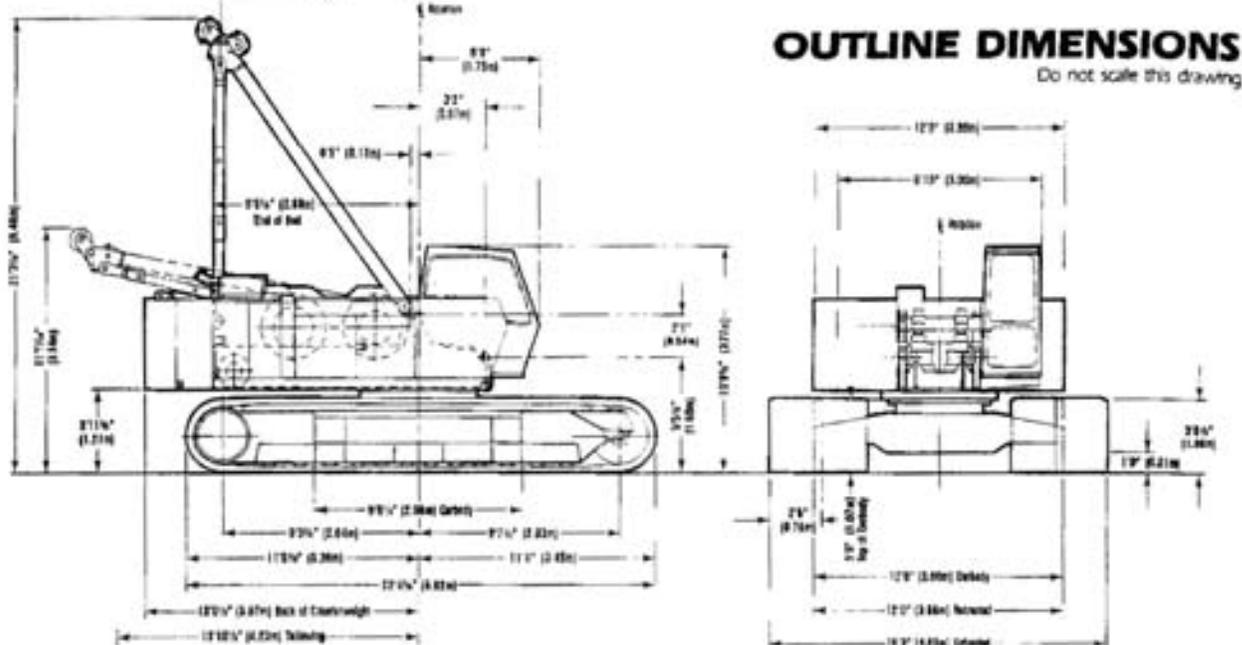
CONTROLS: All functions operated by electric-over-hydraulic controls, with speed directly proportional to control lever movement. First movement of boom hoist and travel controls releases a parking brake; further movement increases speed. Movement of swing control lever immediately regulates power, and free swing exists when lever is in neutral position. Swing parking brake applied by separate switch.

Controls for hoisting drums can be operated in "full-power" (liftcrane) or "free-fall" (excavator) modes as applications require. Operator selects each mode by positioning switch on control console. In "full-power" (liftcrane) mode, drum clutches always remain fully applied and loads are powered down using hydraulic system. In "free-fall" (excavator) mode, drum clutches release automatically when control levers are in neutral position, and all lowering is controlled by pedal-operated service brakes. Additionally, mode-selector switch offers a "clamshell" setting that permits both drums to be controlled simultaneously with one lever. In any mode, hoisting speeds can be doubled by engaging selector switches that divert flow from travel pumps to drum motors.

SWING SPEED: Variable, 3.4 RPM maximum.

TRAVEL SPEED: Variable, 1.0 MPH (1.61 KPH) maximum.

GRADEABILITY: 30%.



WEIGHTS

LIFTCRANE, complete with 40' (12.20M) No. 42 boom, gantry and backhitch, boom hoist rigging and pendants, front and rear drums with load lines, swing machinery, telescopic boom stop, 22'4" (6.81M) long crawlers, 30" (762mm) wide treads, counterweight, hook and weight ball, and 88-ton (80MT) capacity hook block

REMOVABLE COUNTERWEIGHT, (2-piece)

	Pounds	Kilograms
Inner	28,500	12,927
Outer	24,800	11,249
Total	53,300	24,176

CARBODY AND UPPERWORKS, complete with operator's cab, front and rear drums with load lines, boom hoist wire rope, power plant, gantry, backhitch, equalizer, boom butt, and telescopic boom stops

CRAWLER ASSEMBLIES (2), with 30" (762mm) wide treads, each assembly 16,625 lbs. (7,541 kgs.)

BOOM NO. 42:

Butt, 19' (5.79M) 1,275 578

Top, 21' (6.40M) with lower point and wire rope guide 1,695 769

Inserts:

10' (3.05M) 565 256

20' (6.10M) 1,040 472

40' (12.20M) 1,915 869

POWER PLANTS

	Model	Cylinder	Bore	Stroke	Cubic Inch Displacement	Net HP @ RPM (at flywheel)
BASIC	Detroit Diesel 8V-8.2T	8	4.25" (108mm)	4.41" (112mm)	500.9 (8,208cc)	230 @ 2,600
OPTION	Cummins 6 CTA 8.3	6	4.49" (114mm)	5.31" (135mm)	504.6 (8,270cc)	230 @ 2,200

DRUMS AND LAGGINGS

Application	Drum	Drum Diameter	Drum Width	Type of Drum Or Laggings	Wire Rope Size	Spooling Capacity		
						1st Layer	Layers	Maximum
LIFTCRANE Hoist Whip Whip (Optional)	Front	19" (483mm)	21 1/8" (543mm)	Grooved Drum	3/4" (22.2mm)	115' (35.1M)	7	1,013' (308.8M)
	Rear	23" (584mm)	21 1/8" (543mm)	Grooved Drum	3/4" (22.2mm)	138' (42.1M)	5	788' (240.2M)
	Rear	29" (737mm)	21 1/8" (543mm)	Grooved Lag.	3/4" (22.2mm)	172' (52.5M)	2	354' (107.9M)
CLAMSHELL Closing Holding	Front	19" (483mm)	21 1/8" (543mm)	Grooved Drum	3/4" (22.2mm)	115' (35.1M)	—	—
	Rear	23" (584mm)	21 1/8" (543mm)	Grooved Drum	3/4" (22.2mm)	138' (42.1M)	—	—
DRAGLINE Drag Hoist	Front	19" (483mm)	21 1/8" (543mm)	Grooved Drum	3/4" (22.2mm)	90' (27.4M) ¹	—	—
	Rear	23" (584mm)	21 1/8" (543mm)	Grooved Drum	3/4" (22.2mm)	130' (42.1M)	—	—

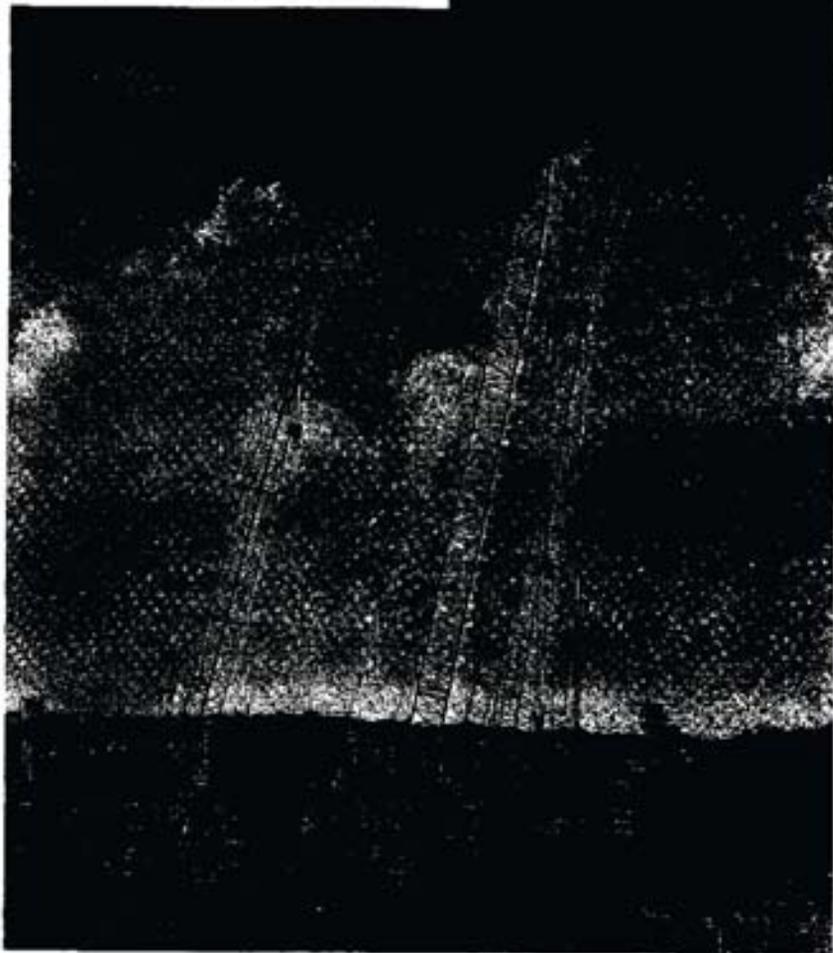
¹Spooling capacity limited by footing.



NEW MODELS ... MORE CHOICES ... from MANITOWOC!

To complement its field-proven line-up of VICON®-powered liftcranes and excavators, Manitowoc has recently introduced its new M-Series cranes. Now, contractors worldwide can select a 'traditional' Manitowoc, a remanufactured Manitowoc, or an M-Series Manitowoc to meet their specific applications or project requirements.

Right: In addition to the 88-ton capacity M-80W, Manitowoc's M-Series product line includes the 55-ton capacity M-50W. In the coming months, Manitowoc will also introduce other M-Series cranes, including 70-ton, 110-ton, and 300-ton units.



Above: Developed as a quality, cost-attractive alternative, every remanufactured Manitowoc is rebuilt to our original equipment specifications, is identified with a new serial number and model year designation, is covered by a 12-month, 2,000-hour warranty, and is backed by a worldwide parts and service network.

Right: Ranging in capacity from 100 to 1,000 tons, Manitowoc's 'traditional' crawler cranes, exemplified by two 4100W's and a 4000W, are recognized as industry standards for versatility, dependability, and lifting performance.



Manitowoc M-Series

...the new generation of liftcrane performance!

MANITOWOC ENGINEERING CO.
500 South 16th Street, Manitowoc, WI 54221 USA
Telephone: 414-684-6621 ■ Telefax: 414-683-6277

MANITOWOC ENGINEERING CO.

Division of The Manitowoc Company, Inc. Manitowoc, Wisconsin 54220



LIFTCRANE CAPACITIES

**BOOM NO. 42 WITH OPEN THROAT TOP
53,300 LB. COUNTERWEIGHT
22'4" CRAWLERS EXTENDED
380 DEGREE RATING**

MEETS
ANSI B30.5
REQUIREMENTS

M-80W

CAPACITIES FOR VARIOUS BOOM LENGTHS AND OPERATING RADII ARE FOR FREELY SUSPENDED LOADS AND DO NOT EXCEED 75% OF A STATIC TIPPING LOAD. CAPACITIES BASED ON STRUCTURAL COMPETENCE ARE DENOTED BY AN ASTERISK (*).

UPPER BOOM POINT CAPACITY FOR LIFTCRANE SERVICE WITH SINGLE PART WHIP LINE IS 20,000 LBS. IN ALL CASES, UPPER BOOM POINT CAPACITIES CANNOT EXCEED THOSE LISTED FOR THE MAIN BOOM CAPACITY.

WEIGHT OF JIB, ALL LOAD BLOCKS, HOOKS, WEIGHT BALL, SLINGS, HOIST LINES, ETC., BENEATH BOOM AND JIB POINT SHEAVES, 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.

MACHINE TO OPERATE IN A LEVEL POSITION ON A FIRM UNIFORMLY SUPPORTING SURFACE WITH CRAWLERS FULLY EXTENDED AND GANTRY UP. REFER TO BOOM RIGGING NO. 164238 AND WIRE ROPE SPECIFICATION CHART NO. 7487-A. CRANE OPERATOR JUDGMENT MUST BE USED TO ALLOW FOR DYNAMIC LOAD EFFECTS OF SWINGING, HOISTING OR LOWERING, TRAVEL, WIND CONDITIONS, AS WELL AS ADVERSE OPERATING CONDITIONS AND PHYSICAL MACHINE DEPRECIATION.

MACHINE MAY BE OPERATED IN WINDS UP TO 15 MPH PROVIDED CRANE OPERATOR JUDGMENT IS USED TO ALLOW FOR WIND EFFECT ON THE LIFTED LOAD AND OTHER CONSIDERATIONS NOTED ON THE CAPACITY CHART ARE FOLLOWED. WIND WILL HAVE A CONSIDERABLE EFFECT ON A LOAD WITH A LARGE 'SAIL AREA' AND MUST BE COMPENSATED FOR ACCORDINGLY BY REDUCING LOAD RATINGS, REDUCING OPERATING SPEEDS OR BY A COMBINATION OF BOTH. RECOMMEND STOPPING OPERATION WHEN WIND IS ABOVE 15 MPH AND TIEING OFF OR LOWERING BOOM WHEN WIND IS ABOVE 35 MPH.

MACHINE TO TRAVEL ON A FIRM, LEVEL AND UNIFORMLY SUPPORTING SURFACE AND BOOM WITHIN THE BOOM ANGLE RANGE SHOWN IN CAPACITY CHART.

OPERATING RADIUS IS THE HORIZONTAL DISTANCE FROM THE AXIS OF ROTATION TO THE CENTER OF VERTICAL HOIST LINE OR LOAD BLOCK. 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 IS VERTICAL DISTANCE FROM GROUND LEVEL TO CENTERLINE OF BOOM POINT SHAFT.

MACHINE EQUIPPED WITH 22'4" EXTENDIBLE CRAWLERS, 30" OR 36" TREADS, 15'6" RETRACTABLE GANTRY, 10 PART BOOM HOIST REEVING, TWO 1-1/4" BOOM PENDANTS, 1ST COUNTERWEIGHT = 28,500 LBS., AND 2ND COUNTERWEIGHT = 24,800 LBS.

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED						DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED	
OVER END OF CRAWLERS			OVER SIDE OF EXTENDED CRAWLERS				
BM. LGTH.	JIB NO.	128	BM. LGTH.	JIB NO.	128	JIB LGTH.	JIB NO. 128
200'	---		200'	---		35'	1,700 LBS.
190'	40'		190'	40'		40'	2,100 LBS.
180'	60'		180'	60'		50'	2,600 LBS.
LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START.						60'	3,100 LBS.

CONSULT JIB CHART FOR JIB CAPACITIES.

WARNING: This capacity chart is the reference and may vary with much not be used for a specific serial number crane. Serial numbered laminated capacity charts for a specific crane can be purchased from an authorized Manitowoc Distributor.

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
40	12	77.8	44.5	176,400*	50	12	80.2	54.7	153,800*	60	12	81.9	64.8	145,400*
	13	76.3	44.2	162,600*		13	79.1	54.5	149,400*		13	80.9	64.6	140,900*
	14	74.8	44.0	151,000*		14	77.9	54.3	145,200*		14	79.9	64.5	136,800*
	15	73.3	43.7	140,900*		15	76.7	54.0	140,900*		15	79.0	64.3	132,900*
	16	71.8	43.3	132,100*		16	75.5	53.8	132,100*		16	78.0	64.1	129,300*
	17	70.3	43.0	124,400*		17	74.2	53.5	124,400*		17	77.0	63.8	124,400*
	18	68.8	42.6	115,000*		18	73.2	53.2	114,800*		18	76.0	63.6	114,700*
	19	67.2	42.2	105,100*		19	72.0	52.9	105,000*		19	75.0	63.3	104,800*
	20	65.6	41.7	96,800*		20	70.7	52.5	96,700*		20	74.1	63.0	96,500*
	22	62.4	40.7	83,500*		22	68.3	51.8	83,300*		22	72.1	62.4	83,200*
	24	59.1	39.6	73,300*		24	65.8	50.9	73,200*		24	70.0	61.7	73,000*
	26	55.7	38.3	65,300*		26	63.2	49.9	65,200*		26	68.0	60.9	65,000*
	28	52.1	36.8	58,900*		28	60.6	48.9	58,700*		28	65.9	60.1	58,500*
	30	48.4	35.1	53,500*		30	58.0	47.6	53,300*		30	63.8	59.1	53,100*
	32	44.4	33.2	49,000*		32	55.2	46.3	48,800*		32	61.6	58.1	48,600*
	34	40.1	30.9	45,200*		34	52.3	44.8	45,000*		34	59.4	56.9	44,800*
36	35.4	28.3	41,900*	36	49.4	43.2	41,700*	36	57.2	55.7	41,500*			
38	30.0	25.1	39,000*	38	46.3	41.3	38,800*	38	54.9	54.3	38,600*			
40	23.5	21.1	36,500*	40	43.0	39.3	36,300*	40	52.5	52.8	36,100*			
				45	33.6	32.8	31,200*	45	46.1	48.5	30,900*			
				50	20.9	23.0	27,200*	50	39.0	43.0	27,000*			
								55	30.6	35.7	23,900*			
								60	19.0	24.7	21,300*			

**MANITOWOC ENGINEERING CO.**

Division of The Manitowoc Company, Inc. Manitowoc, Wisconsin 54220

**LIFT CRANE CAPACITIES****BOOM NO. 42 WITH OPEN THROAT TOP
53,300 LB. COUNTERWEIGHT
22" 4" CRAWLERS EXTENDED
360 DEGREE RATING**MEETS
ANSI B30.5
REQUIREMENTS**M-80W**

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS	
70	14	81.4	74.6	128,600*	90	17	81.4	94.4	104,500*	110	70	52.8	92.8	16,500	
	15	80.6	74.5	124,900*		18	80.7	94.2	101,800*		75	49.4	88.8	15,000	
	16	79.7	74.3	121,300*		19	80.1	94.1	99,100*		80	45.9	84.2	13,700	
	17	78.9	74.1	118,100*		20	79.5	93.9	96,100		85	42.1	79.0	12,600	
	18	78.1	73.9	114,600		22	78.2	93.5	92,700		90	38.1	73.0	11,600	
	19	77.2	73.6	104,700		24	76.8	93.0	87,500		95	33.6	66.0	10,700	
	20	76.4	73.4	96,400		26	75.5	92.5	84,400		100	28.5	57.6	9,900	
	22	74.7	72.9	83,000		28	74.2	92.0	79,900		105	22.4	47.1	9,200	
	24	73.0	72.3	72,800		30	72.9	91.4	75,600		120	22	81.1	124.0	77,000*
	26	71.3	71.6	64,800		32	71.5	90.7	71,000			24	80.2	123.6	72,000
	28	69.5	70.9	58,500		34	70.2	90.0	64,200			26	79.2	123.3	64,000
	30	67.8	70.1	53,000		36	68.8	89.3	60,900			28	78.2	122.9	57,400
	32	66.0	69.2	48,500		38	67.5	88.4	58,000			30	77.3	122.4	52,100
	34	64.2	68.3	44,600		40	66.1	87.6	55,500			32	76.3	121.9	47,500
36	62.3	67.3	41,300	45	62.5	85.1	50,300	34	75.3	121.4		43,700			
38	60.5	66.2	38,400	50	58.9	82.3	46,400	36	74.3	120.9		40,400			
40	58.6	65.0	35,900	55	55.1	79.0	43,200	38	73.3	120.3		37,500			
45	53.6	61.6	30,800	60	51.1	76.2	40,700	40	72.3	119.7		35,000			
50	48.3	57.5	26,800	65	46.8	70.9	38,600	45	69.8	117.9		29,800			
55	42.5	52.5	23,700	70	42.3	65.7	36,800	50	67.2	115.9		25,800			
60	35.0	46.3	21,200	75	37.3	59.7	35,300	55	64.6	113.7		22,700			
65	28.3	38.3	19,100	80	31.6	52.3	34,000	60	61.9	111.1		20,100			
70	17.6	26.3	17,300	85	24.8	42.9	32,900	65	59.2	108.3	18,000				
80	15	81.8	84.6	117,500*	100	18	81.7	104.4	97,600*	130	70	56.3	105.1	16,300	
	16	81.0	84.4	114,200*		19	81.1	104.2	95,100*		75	53.4	101.6	14,700	
	17	80.3	84.3	111,100*		20	80.5	104.0	92,700*		80	50.4	97.6	13,400	
	18	79.6	84.1	108,100*		22	79.4	103.7	88,600		85	47.2	93.2	12,300	
	19	78.8	83.9	104,600		24	78.2	103.3	84,400		90	43.8	88.3	11,300	
	20	78.1	83.7	96,200		26	77.0	102.8	78,400		95	40.2	82.7	10,400	
	22	76.6	83.2	82,800		28	75.8	102.3	73,800		100	36.4	76.3	9,600	
	24	75.2	82.7	72,600		30	74.6	101.8	68,600		105	32.1	68.9	8,900	
	26	73.7	82.1	64,600		32	73.5	101.2	64,500		110	27.3	60.1	8,300	
	28	72.2	81.5	58,100		34	72.3	100.6	60,400		115	21.4	49.0	7,700	
	30	70.7	80.8	52,700		36	71.0	99.9	57,000		140	22	81.8	134.1	70,800*
	32	69.1	80.1	48,200		38	69.8	99.2	53,900			24	80.9	133.8	68,900*
	34	67.6	79.3	44,400		40	68.6	98.4	50,400			26	80.0	133.4	63,800
	36	66.0	78.4	41,100		45	65.5	96.3	46,200			28	79.1	133.1	57,300
38	64.4	77.5	38,200	50	62.3	93.8	42,300	30	78.2	132.7		51,900			
40	62.8	76.5	35,700	55	59.0	91.0	38,600	32	77.3	132.2		47,500			
45	58.7	73.6	30,500	60	55.6	87.7	35,000	34	76.4	131.7		43,500			
50	54.4	70.3	26,600	65	52.0	84.1	31,500	36	75.5	131.2		40,200			
55	49.9	66.4	23,400	70	48.3	79.8	28,200	38	74.6	130.7		37,300			
60	45.0	61.8	20,900	75	44.3	75.0	25,200	40	73.7	130.1		34,700			
65	39.6	56.2	18,800	80	40.0	69.5	22,400	45	71.4	128.5		29,600			
70	33.6	49.4	17,000	85	35.3	62.9	20,800	50	69.0	126.7		25,600			
75	26.4	40.7	15,500	90	29.9	55.1	19,800	55	66.7	124.7		22,500			
80	16.4	27.7	14,200	95	23.5	45.0	19,000	60	64.2	122.4		19,900			
90	19	81.9	114.3	88,500*	110	19	81.9	114.3	88,500*	130	70	59.2	117.0	16,000	
	20	81.4	114.2	87,200*		20	81.4	114.2	87,200*		75	56.6	113.8	14,500	
	22	80.3	113.8	82,500		22	80.3	113.8	82,500		80	53.9	110.3	13,200	
	24	79.3	113.5	78,200		24	79.3	113.5	78,200		85	51.1	106.5	12,100	
	26	78.2	113.1	74,200		26	78.2	113.1	74,200		90	48.3	102.2	11,100	
	28	77.1	112.6	70,700		28	77.1	112.6	70,700		95	45.2	97.5	10,200	
	30	76.1	112.1	67,600		30	76.1	112.1	67,600		100	42.0	92.2	9,400	
	32	75.0	111.6	64,800		32	75.0	111.6	64,800		105	38.6	86.3	8,700	
	34	73.9	111.0	62,200		34	73.9	111.0	62,200		110	34.9	79.5	8,100	
	36	72.8	110.4	60,000		36	72.8	110.4	60,000		115	30.8	71.7	7,500	
	38	71.7	109.8	57,900		38	71.7	109.8	57,900		120	26.2	62.5	6,900	
	40	70.6	109.1	56,000		40	70.6	109.1	56,000		125	20.6	50.8	6,500	
	45	67.8	107.2	50,000		45	67.8	107.2	50,000						
	50	65.0	105.0	45,000		50	65.0	105.0	45,000						
55	62.1	102.5	40,000	55	62.1	102.5	40,000								
60	59.1	99.8	36,000	60	59.1	99.8	36,000								
65	56.0	96.4	32,000	65	56.0	96.4	32,000								

NOTICE: This capacity chart is for reference use only and must not be used for a specific serial number crane. Serial numbered laminated capacity charts for a specific crane can be purchased from an authorized Manitowoc Distributor.

