



MANITOWOC M-65W

ALL

ERECTION & CRANE
RENTAL CORP.

7809 Old Rockside Road • Cleveland, Ohio 44131

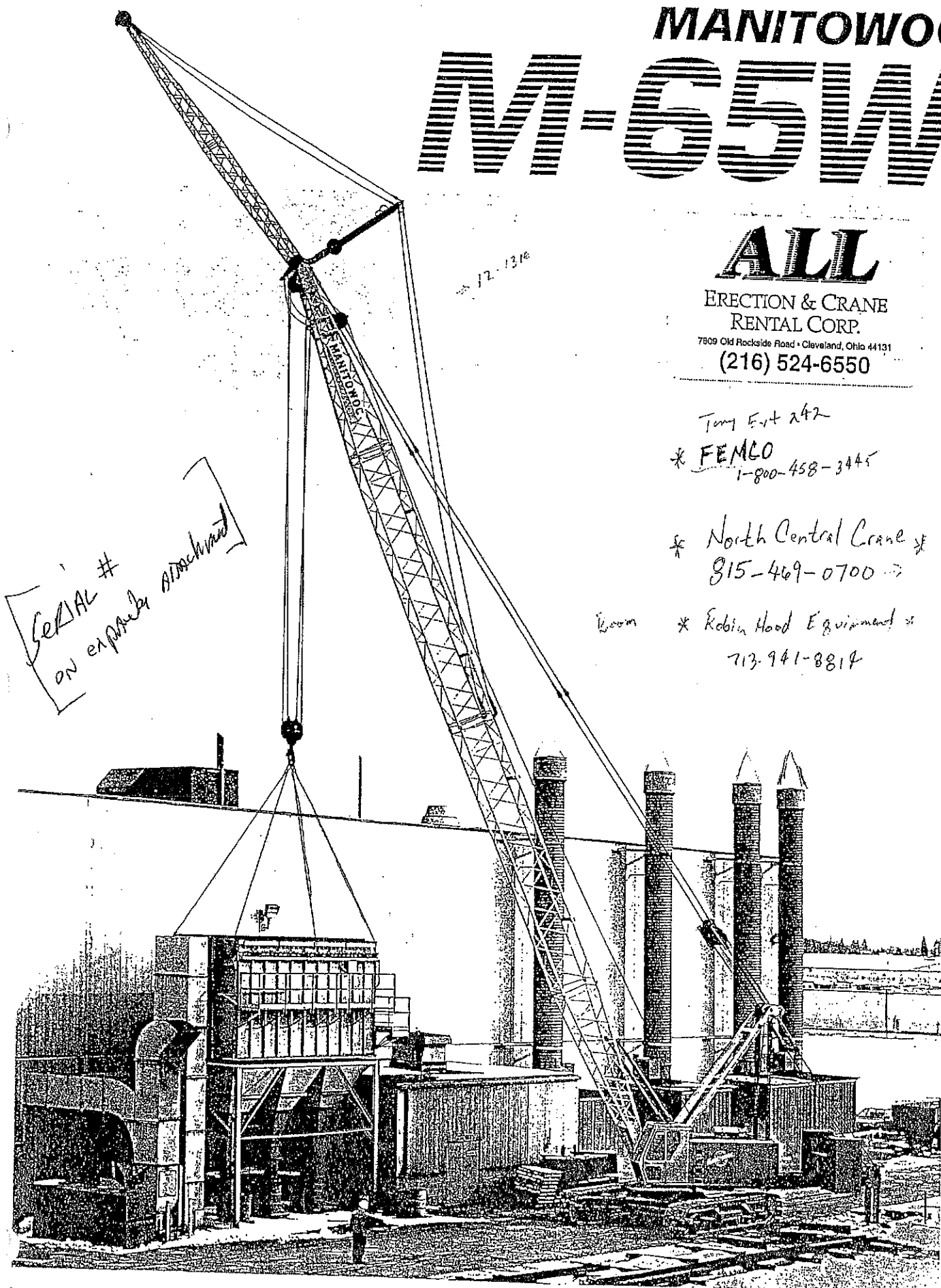
(216) 524-6550

Tony Evt 242

* FEMCO
1-800-458-3445

* North Central Crane *
815-469-0700

* Robin Hood Equipment *
713-941-8817



75-Ton Liftcrane ■ 15,000-Lb. Clamshell ■ 13,500-Lb. Dragline

**MANITOWOC ENGINEERING CO.**

Division of The Manitowoc Company, Inc. Manitowoc

USE ONLY AND MUST BE FOR REFERENCE
SPECIFIC SERIAL NUMBER OF BE USED FOR A
SERIAL NUMBERED PLATE.
CHARTS FOR A SPECIFIC CRANE CAN BE
PURCHASED SEPARATELY.
MANITOWOC DISTRIBUTOR

LIFT CRANE CAPACITIES

BOOM NO. 46
42,000 LB. COUNTERWEIGHT
22'4" CRAWLERS EXTENDED
360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS

M-65W

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 LIFT CRANE SERVICE WITH SINGLE PART WHIP LINE IS 15,000 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 (16'8-1/2") AND GANTRY UP. REFER TO RIGGING NO. 168744 AND WIRE ROPE SPECIFICATION CHART NO. 7523-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, 36" TREADS, 17' RETRACTABLE GANTRY, 12 PART BOOM HOIST REEVING, TWO 1-1/4" BOOM PENDANTS, 1ST COUNTERWEIGHT = 35,000 LBS., 2ND COUNTERWEIGHT = 7,000 LBS.

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED				DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED	
OVER END OF BLOCKED CRAWLERS		OVER SIDE OF EXTENDED CRAWLERS			
BOOM LGTH.	JIB NO. 130	BOOM LGTH.	JIB NO. 130	JIB LGTH.	JIB NO. 130
190'	---	190'	---	30'	1,800 LBS.
180'	50'	180'	---	40'	2,200 LBS.
170'	60'	170'	40'	50'	2,600 LBS.
		160'	60'	60'	3,100 LBS.

LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START.

CONSULT JIB CHART FOR JIB CAPACITIES.

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	78.4	44.7	150,000*	50	12	80.8	54.9	142,400*	60	13	81.4	64.9	126,900*
	13	77.0	44.4	150,000*		13	79.6	54.7	140,800*		14	80.4	64.7	125,400*
	14	75.5	44.2	150,000*		14	78.4	54.5	139,400*		15	79.4	64.5	123,900*
	15	74.0	43.9	143,300		15	77.3	54.3	138,000*		16	78.4	64.3	122,100*
	16	72.5	43.6	126,900		16	76.1	54.0	126,900		17	77.5	64.1	113,700
	17	71.0	43.2	113,900		17	74.9	53.7	113,800		18	76.5	63.8	103,000
	18	69.4	42.8	103,200		18	73.7	53.4	103,200		19	75.5	63.5	94,100
	19	67.9	42.4	94,400		19	72.5	53.1	94,300		20	74.5	63.3	86,600
	20	66.3	42.0	86,900		20	71.3	52.8	86,800		21	73.5	63.0	80,200
	21	64.7	41.5	80,400		21	70.1	52.4	80,300		22	72.5	62.6	74,600
	22	63.1	41.0	74,900		22	68.8	52.0	74,800		23	71.5	62.3	69,700
	23	61.5	40.4	70,000		23	67.6	51.6	69,900		24	70.5	61.9	65,400
	24	59.8	39.8	65,700		24	66.3	51.1	65,600		25	69.5	61.6	61,600
	25	58.1	39.2	61,900		25	65.1	50.7	61,800		26	68.4	61.2	58,200
	26	56.4	38.5	58,500		26	63.8	50.2	58,400		27	67.4	60.7	55,100
	27	54.6	37.8	55,400		27	62.5	49.6	55,300		28	66.3	60.3	52,400
	28	52.8	37.0	52,700		28	61.2	49.1	52,500		29	65.3	59.8	49,800
	29	51.0	36.2	50,200		29	59.9	48.5	50,000		30	64.2	59.3	47,500
	30	49.1	35.3	47,900		30	58.5	47.9	47,700		32	62.1	58.3	43,500
	32	45.1	33.4	43,800		32	55.7	46.5	43,700		34	59.9	57.1	40,000
40	34	40.8	31.2	40,400	50	34	52.9	45.0	40,200		36	57.6	55.9	37,000
	36	36.0	28.5	37,400		36	49.9	43.4	37,200		38	55.3	54.5	34,500
	38	30.7	25.3	34,800		38	46.8	41.5	34,700		40	52.9	53.0	32,200
	40	24.2	21.3	32,500		40	43.5	39.5	32,400		45	46.6	48.7	27,500
						45	34.2	33.1	27,700		50	39.5	43.2	24,000
						50	21.5	23.2	24,200		55	31.0	35.9	21,200
											60	19.5	24.9	18,900

**MANITOWOC ENGINEERING CO.**

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

**LIFT CRANE CAPACITIES****BOOM NO. 46
35,000 LB. COUNTERWEIGHT
22'4" CRAWLERS EXTENDED
360 DEGREE RATING**

THIS CAPACITY CHART IS FOR REFERENCE
USE ONLY X-SPANDER MODE NOT BE USED FOR A
SPECIFIC SERIAL NUMBER CRANE. WITH X-SPANDER
SERIAL NUMBERED LAMINATED CAPACITY
CHARTS FOR A SPECIFIC CRANE CAN BE
PURCHASED FROM AN AUTHORIZED
MANITOWOC DISTRIBUTOR.

**M-65W
WITH X-SPANDER**

CAPACITIES FOR VARIOUS BOOM LENGTHS AND OPERATING RADIUS 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 (*).

SWITCH X-SPANDER MODE SELECTOR ON X-SPANDER TO OPERATE. X-SPANDER EXTENDED CAPACITY COLUMNS REQUIRE X-SPANDER BEAM EXTENDED TO LENGTH SHOWN. DO NOT ALLOW REAR LEG TO CONTACT GROUND WHILE TRAVELING OR SWINGING. X-SPANDERS REQUIRE COUNTERWEIGHT FULLY EXTENDED BEFORE RATED LOAD CAN BE OBTAINED. X-SPANDER RETRACTED CAPACITY COLUMN REQUIRES COUNTERWEIGHT PINNED TO MACHINE, BEAM RETRACTED AND X-SPANDER MODE OFF/STANDARD CRANE. NON-EPIC X-SPANDERS REQUIRE COUNTERWEIGHT TO BE FULLY EXTENDED BEFORE LIFTING LOAD. BOOMING DOWN ON NON-EPIC IS NOT ALLOWED WITH X-SPANDER EXTENDED CAPACITIES UNLESS COUNTERWEIGHT IS FULLY EXTENDED. WITH EPIC X-SPANDERS, HOISTING OR BOOMING IS NOT ALLOWED WHEN COUNTERWEIGHT IS MOVING ON X-SPANDER BEAM.

UPPER BOOM POINT CAPACITY FOR LIFT CRANE SERVICE WITH SINGLE PART WHIP LINE IS 15,000 LBS. IN ALL CASES, UPPER BOOM POINT CAPACITIES CANNOT EXCEED THOSE LISTED FOR MAIN BOOM CAPACITY.

HEIGHT OF JIB, ALL LOAD BLOCKS, HOOKS, WEIGHT BALL, SLINGS, HOIST LINES, ETC., BENEATH BOOM AND JIB POINT SHEAVES, IS CONSIDERED PART OF MAIN BOOM LOAD. BOOM IS NOT TO BE LOWERED BEYOND RADIUS 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 UNIFORM SUPPORTING SURFACE WITH CRAWLERS FULLY EXTENDED (16'8-1/2") AND GANTHY UP. REFER TO RIGGING NO. 168744, WIRE ROPE SPECIFICATION CHART NO. 7525-A AND X-SPANDER GENERAL ARRANGEMENT NO. 169711 FOR ATTACHMENT AND EXTEND PROCEDURE. 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 LIFTED LOAD AND OTHER CONSIDERATIONS NOTED ON 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 LOWERING BOOM TO GROUND WHEN WIND IS ABOVE 35 MPH.

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

OPERATING RADIUS IS HORIZONTAL DISTANCE FROM AXIS OF ROTATION TO CENTER OF VERTICAL HOIST LINE OR LOAD BLOCK. BOOM ANGLE IS 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 X-SPANDER, 22'4" EXTENDIBLE CRAWLERS, 36" TREADS, 17" RETRACTABLE GANTHY, 12 PART BOOM HOIST REEVING, TWO 1-1/4" BOOM PENDANTS AND 35,000 LB. COUNTERWEIGHT.

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED				DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED	
OVER END OF BLOCKED CRAWLERS		OVER SIDE OF EXTENDED CRAWLERS			
BOOM LGTH.	JIB NO. 130	BOOM LGTH.	JIB NO. 130	JIB LGTH.	JIB NO. 130
150'	---	150'	---	30'	1,800 LBS.
160'	50'	160'	---	40'	2,200 LBS.
170'	60'	170'	40'	50'	2,600 LBS.
		180'	50'	60'	3,100 LBS.

LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START.

CONSULT JIB CHART FOR JIB CAPACITIES.

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	X-SPANDER RETRACTED CAPACITY POUNDS	X-SPANDER EXTENDED 7'8" CAPACITY POUNDS	X-SPANDER EXTENDED 15' CAPACITY POUNDS
40	12	78.4	44.7	150,000*	150,000*	150,000*
	13	77.0	44.4	150,000*	150,000*	150,000*
	14	75.5	44.2	150,000*	150,000*	150,000*
	15	74.0	43.9	143,300	150,000*	150,000*
	16	72.5	43.6	126,900	147,100*	147,100*
	17	71.0	43.2	113,900	139,500	132,200*
	18	69.4	42.8	103,200	125,600	121,900*
	19	67.9	42.4	94,400	114,900	122,800*
	20	66.3	42.0	86,900	105,700	114,800*
	21	64.7	41.5	80,400	98,000	107,700*
	22	63.1	41.0	74,900	91,200	101,200*
	23	61.5	40.4	70,000	85,300	95,400*
	24	59.8	39.8	65,700	80,100	90,100*
	25	58.1	39.3	61,900	75,500	85,200*
	26	56.4	38.7	58,500	71,400	80,700*
50	27	54.6	37.8	55,400	67,700	76,600*
	28	52.8	37.0	52,700	64,300	72,700*
	29	51.0	36.2	50,200	61,300	69,100*
	30	49.1	35.3	47,900	58,500	65,600*
	32	45.1	33.4	43,800	53,500	59,300*
	34	40.8	31.2	40,400	49,400	53,500*
	36	36.0	28.8	37,400	45,800	48,300*
	38	30.7	25.3	34,800	42,700	43,200*
	40	24.2	21.3	32,500	39,000*	39,000*
	12	80.8	54.9	142,400*	142,400*	142,400*
	13	79.6	54.7	140,800*	140,800*	140,800*
	14	78.4	54.5	139,400*	139,400*	139,400*
	15	77.3	54.3	138,000*	138,000*	138,000*
	16	76.1	54.0	136,900	136,900*	136,900*
	17	74.8	53.7	135,800	135,100*	135,100*
	18	73.7	53.4	133,200	132,500	132,500*
	19	72.5	53.1	130,300	129,100	129,100*
	20	71.3	52.8	127,100	125,600	125,600*
	21	70.1	52.4	123,700	122,000	122,000*
	22	68.8	52.0	120,000	118,300	118,300*
	23	67.6	51.6	116,100	114,500	114,500*
	24	66.3	51.1	112,000	110,600	110,600*
	25	65.1	50.7	107,700	106,600	106,600*
	26	63.8	50.2	103,200	102,500	102,500*
	27	62.5	49.8	98,500	98,300	98,300*
	28	61.2	49.3	94,600	94,000	94,000*
	29	59.9	48.5	90,500	89,600	89,600*
	30	58.5	47.8	86,300	85,100	85,100*
	32	55.7	46.5	80,700	79,500	79,500*
	34	52.9	45.0	74,900	73,700	73,700*
	36	49.9	43.4	68,900	67,700	67,700*
	38	46.8	41.5	62,700	61,400	61,400*
	40	43.5	39.5	56,300	54,900	54,900*
	45	34.2	33.1	47,700	46,300	46,300*
	50	21.5	23.2	34,200	32,900	32,900*

REVISED PAGE 1 ONLY, 8-25-95

7522-B, 2-19-90/GA
PAGE 1 OF 4



Part 165

MANI 10 WAC

M-65 X-SQUARE ATT.

PARTS MAN. 16891

OPERATOR MAN. 16891

SERIAL NO. 16891



MORE FEATURES THAN ANY OTHER CRANE IN ITS CLASS

- Compact design
- 135,630-pound overall weight
- 11'5¾" transportation width
- Three-truck shipability with maximum boom
- Boom lengths to 190'
- Jib lengths to 60'
- Boom & jib combinations to 230'
- Efficient hydrostatic transmission
- Independent, variable-speed operation of all functions
- Permanently-sealed crawler drive bearings
- Spooling capacities to 728' of ¾" wire rope per drum
- Full-power and free-fall drum controls
- 18" wide tandem drums
- Rated line pulls to 15,000 pounds
- Line speeds to 510 FPM
- Swing speeds to 3.50 RPM
- Travel speeds to 1.0 MPH
- 30% gradeability
- Ergonomic control consoles
- Electro-hydraulic controls
- X-SPANDER® capacity enhancement device

LOWERWORKS

CARBODY: Single-piece steel fabrication. Integral turret provides rigid 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. Overall crawler length 22'3¾" (6.80M). Crawlers extend to 16'8½" (5.09M), retract to 11'5¾" (3.5M).

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

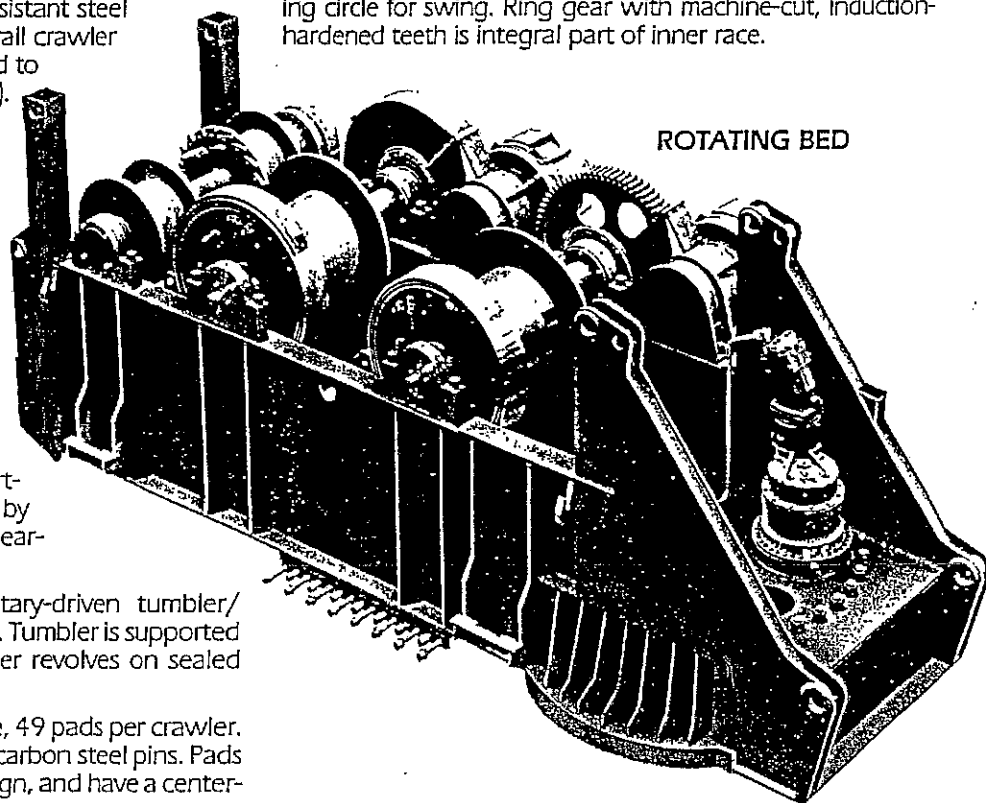
INTERMEDIATE ROLLERS: Double-flanged, 12" (305mm) diameter rollers are mounted along underside of crawler frame. Each roller is mounted on a 2¾" (70mm) diameter stationary shaft whose ends are supported by welded frames and held in place by keeper bars. Rollers revolve on sealed bearings for minimized maintenance.

CRAWLER DRIVE TUMBLER: Planetary-driven tumbler/sprocket transmits drive torque to tread. Tumbler is supported at both ends by crawler frame. Tumbler revolves on sealed bearings for minimized maintenance.

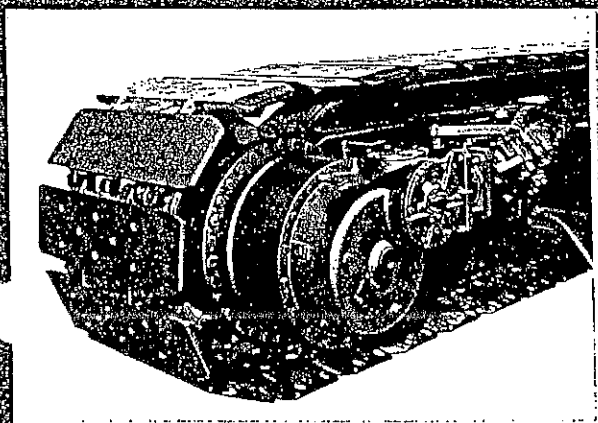
CRAWLER TREADS: 36" (914mm) wide, 49 pads per crawler. Adjacent pads connected by two high-carbon steel pins. Pads are cast alloy steel, feature a closed design, and have a centering lug.

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.

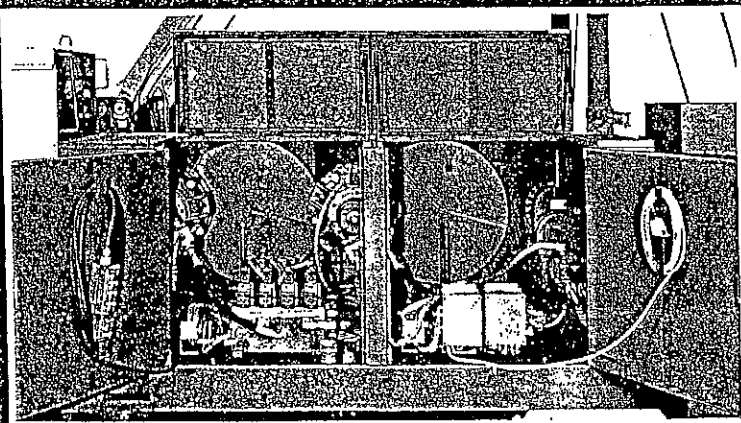
TURNTABLE BEARING: 64¾" (1.64M) diameter bearing bolts to carbody and rotating bed, providing single-row ball bearing circle for swing. Ring gear with machine-cut, induction-hardened teeth is integral part of inner race.



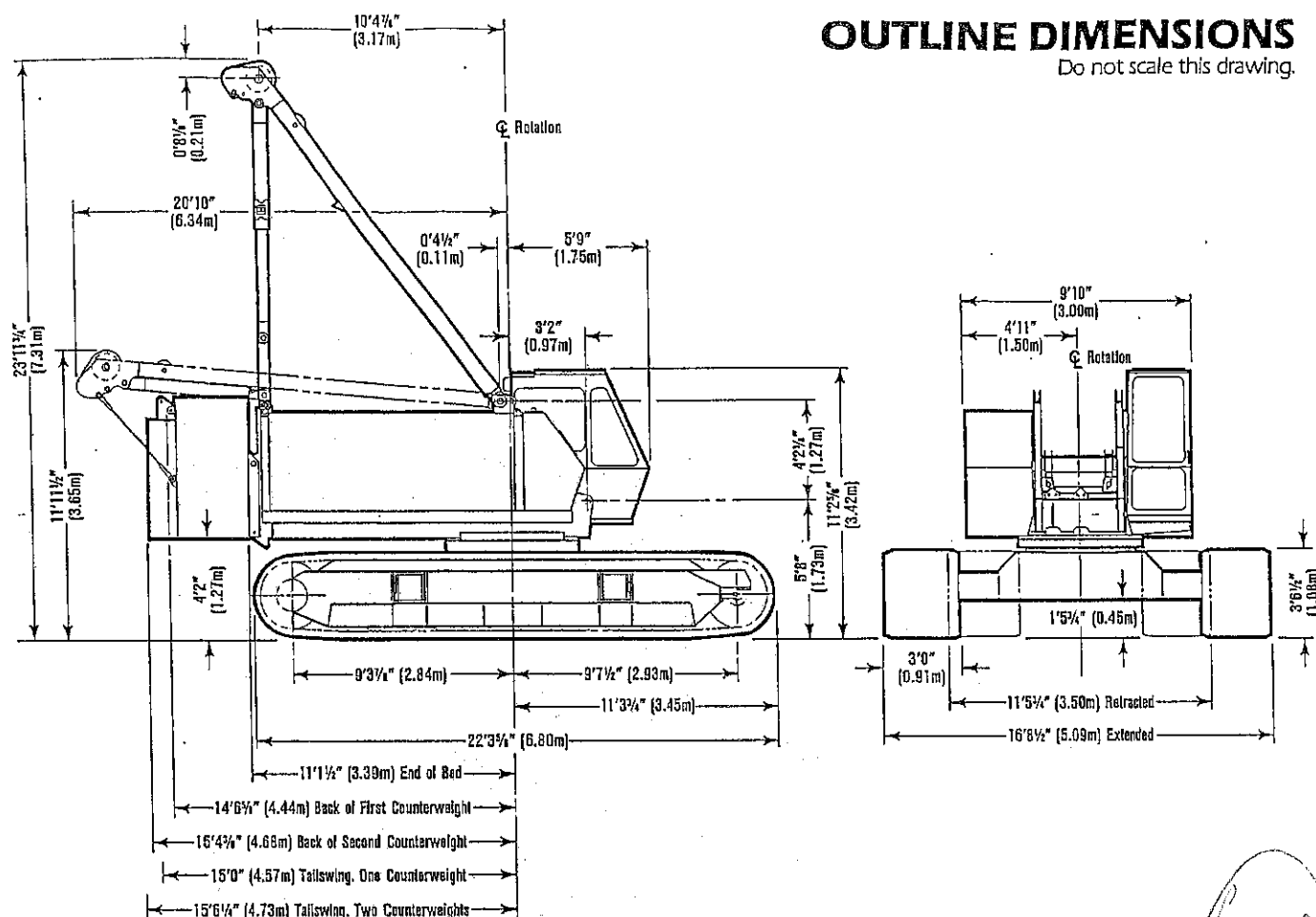
ROTATING BED



HYDRAULIC CRAWLER DRIVE



PROVEN HYDROSTATIC COMPONENTS



WEIGHTS

	Pounds	Kilograms		Pounds	Kilograms
LIFTCRANE , complete with 40' (12.20M) No. 46 boom, gantry and backhitch, boom hoist rigging and pendants, front and rear drums with load lines, swing machinery, telescopic boom stop, 22'3½" (6.80M) long crawlers, 36" (914mm) wide treads, counterweight, and 75-U.S.-ton (68MT) capacity hook block.....	135,630	61,510	LOWERWORKS & UPPERWORKS , (combined) complete with crawlers, front and rear drums with load lines, boom hoist wire rope, power plant, gantry, equalizer, boom butt, and telescopic boom stop	89,195	40,451
REMOVABLE COUNTERWEIGHT , (2-piece)			BOOM NO. 46		
Inner	35,000	15,875	Butt, 21' (6.40M)	1,480	671
Outer	7,000	3,175	Top, 19' (5.79M) with lower point and wire rope guide	2,000	907
Total	42,000	19,050	Inserts:		
			10' (3.05M)	570	259
			20' (6.10M)	970	440
			30' (9.15M)	1,375	624

POWER PLANT

Model		Cylinder	Bore	Stroke	Cubic Inch Displacement	Net HP @ RPM (at flywheel)
BASIC	Cummins 6 CT 8.3	6	4.49" (114mm)	5.31" (135mm)	504.6 [8,270cc]	210 @ 2,200

DRUMS

Liftcrane	Clamshell	Dragline	Drum	Drum Diameter	Drum Width	Type of Drum	Wire Rope Size	Spooling Capacity		
								1st Layer ¹	Layers ²	Maximum ²
Hoist Whip	Closing Holding	Drag Hoist	Front	16½"³ (419mm)	18" (457mm)	Plain³	¾" (19mm)	99' (30.2M)	6	728' (222M)
			Rear	16½"³ (419mm)	18" (457mm)	Plain³	¾" (19mm)	99' (30.2M)	6	728' (222M)

¹Liftcrane, clamshell, and dragline.²Liftcrane only.³Grooved lagging for clamshell and dragline.

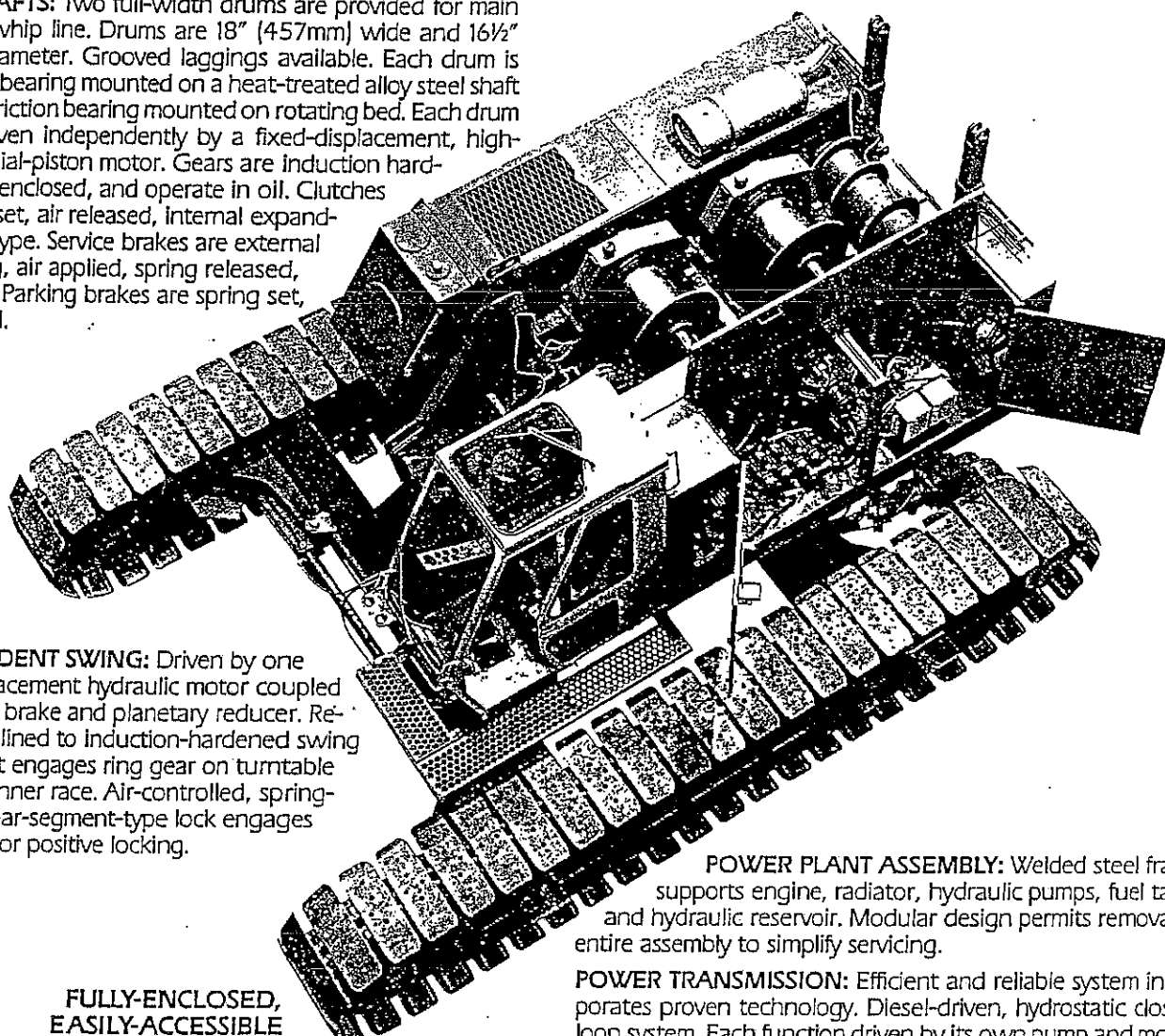


UPPERWORKS

ROTATING BED: Single-piece, deep-section, steel fabrication with vertical side frames and internal framing provides support for mounting all other upperworks components. Bed rotates on 64 $\frac{3}{4}$ " (1.64M) diameter turntable bearing. Complete upperworks can be mounted on carbody or truck chassis.

DRUM SHAFTS: Two full-width drums are provided for main hoist and whip line. Drums are 18" (457mm) wide and 16 $\frac{1}{2}$ " (419mm) diameter. Grooved laggings available. 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, high-torque, radial-piston motor. Gears are induction hardened, 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.

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



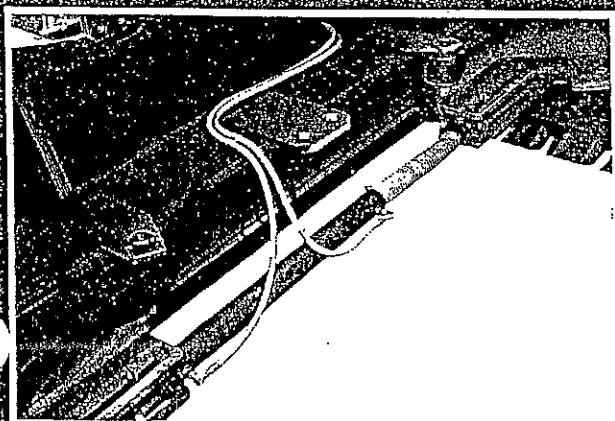
INDEPENDENT SWING: Driven by one fixed-displacement hydraulic motor coupled to internal brake and planetary reducer. Reducer is splined to induction-hardened swing pinion that engages ring gear on turntable bearing's inner race. Air-controlled, spring-loaded, gear-segment-type lock engages ring gear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

**FULLY-ENCLOSED,
EASILY-ACCESSIBLE
COMPONENTS**

POWER PLANT ASSEMBLY: Welded steel frame supports engine, radiator, hydraulic pumps, fuel tank, and hydraulic reservoir. Modular design permits removal of entire assembly to simplify servicing.

POWER TRANSMISSION: Efficient and reliable system incorporates proven technology. Diesel-driven, hydrostatic closed-loop 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.



HYDRAULICALLY EXTENDIBLE CRAWLERS



CONVENIENT DIAGNOSTICS



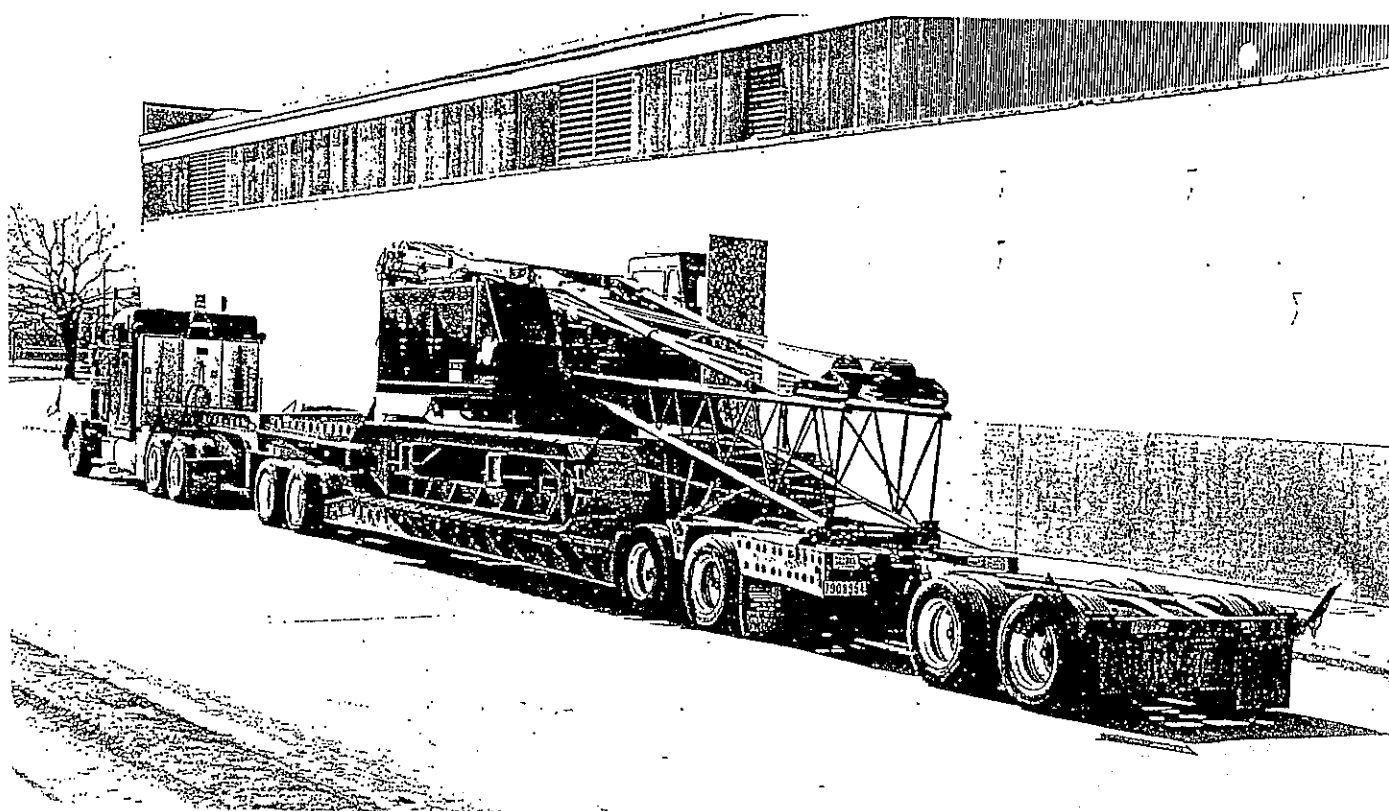
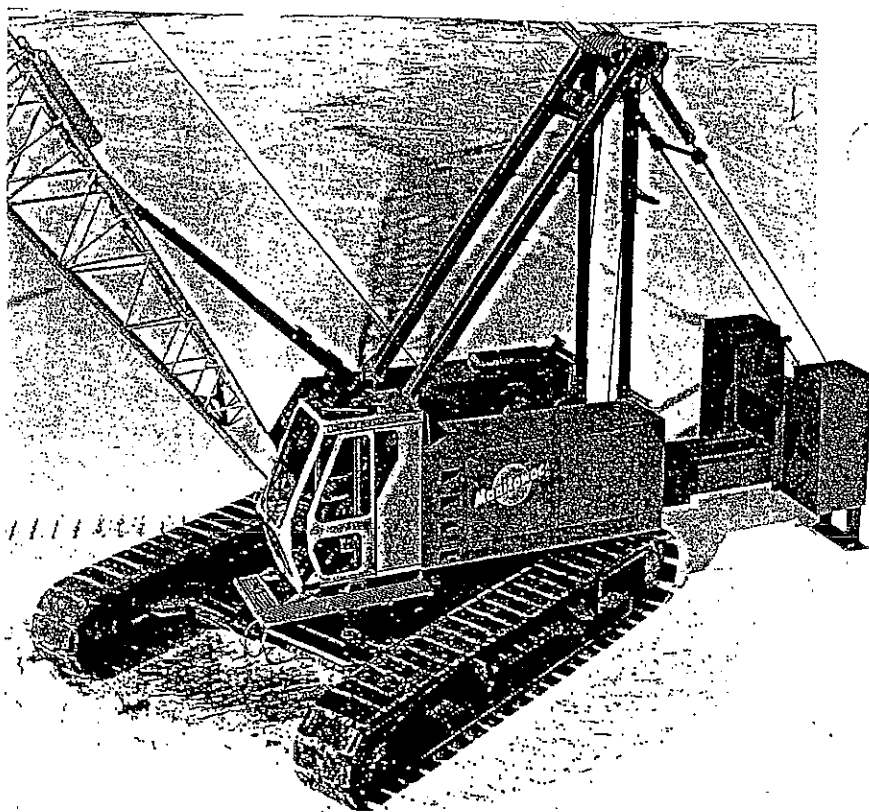
X-SPANDER ATTACHMENT

To enhance the M-65W's versatility, Manitowoc's optional X-SPANDER® attachment boosts the crane's capacity by 30 to 100%. When deployed, the X-SPANDER extends the crane's counterweight rearward, thereby increasing the crane's stability without maintaining its ability to swing and travel with load.

Stored conveniently in the crane's rotating bed, the X-SPANDER is always available. It's also fully self-erecting, so no assist crane is required. Deployment takes less than 10 minutes and can be handled by one man using a remote control.

AMERICA'S MOST TRANSPORTABLE 75-TON CRAWLER CRANE

A compact, efficient design enables the M-65W to be trucked in most areas of the United States with carbody, crawlers, upperworks, gantry, boom butt, and equalizer intact. The entire crane, including X-SPANDER® attachment and maximum boom and jib, can be carried on just three trucks. Erection takes less than three hours, and can be completed without an assist crane.



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

Form 6499

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ALL

ERECTION & CRANE
RENTAL CORP.

7809 Old Rockside Road • Cleveland, Ohio 44131

(216) 524-6550

M/MO, Utho in U.S.A.



FRONT END ATTACHMENTS

NO. 46 BOOM: 21' (6.40M) butt; 10' (3.05M), 20' (6.10M), and 30' (9.15M) inserts; 19' (5.80M) open throat top. Rectangular box-section design. All-welded construction with tubular chords and lacing. All boom sections are 47" (1.19M) wide x 47" (1.19M) deep at pin-connected joints. Each insert matched with two 1 1/8" (28mm) diameter, single-length pendants. Lower boom point equipped with five 20" (508mm) diameter sheaves. Optional detachable upper boom point has one 20" (508mm) diameter sheave. All sheaves are antifriction bearing mounted. Basic boom length 40' (12.20M); maximum length 190' (57.90M).

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 1 1/8" (28mm) diameter pendants.

GANTRY AND BACKHITCH: Gantry is fabricated plate with parallel box section legs. Supported on pins by rotating bed. Telescoping, link-type backhitch pin-connects to gantry and rotating bed. Gantry sheaves are antifriction bearing mounted. Grease lines piped to bottom of gantry simplify sheave lubrication.

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

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

TELESCOPIC BOOM STOP: Air-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 antifriction-bearing sheaves mounted in steel frame on upper side of boom top.

NO. 130 JIB: Optional. 7.5-ton (6.80-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 3, 15, or 30 degrees. All-welded construction with tubular chords and lacing. Rectangular box-section 27" (686mm) wide x 22" (559mm) deep at pin-connected joints. Jib point has 19 1/16" (500mm) OD antifriction-bearing mounted sheave. Maximum boom-and-jib combination, 170' (51.82M) + 60' (18.29M) or 180' (54.86M) + 50' (15.24M).

GENERAL

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

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. Conveniently located controls. Electric signal horn, heater, windshield wiper, dome light, and circulating fan standard.

SAFETY EQUIPMENT: Load moment indicator, over-hoist limit switch, and audible swing alarm optional.

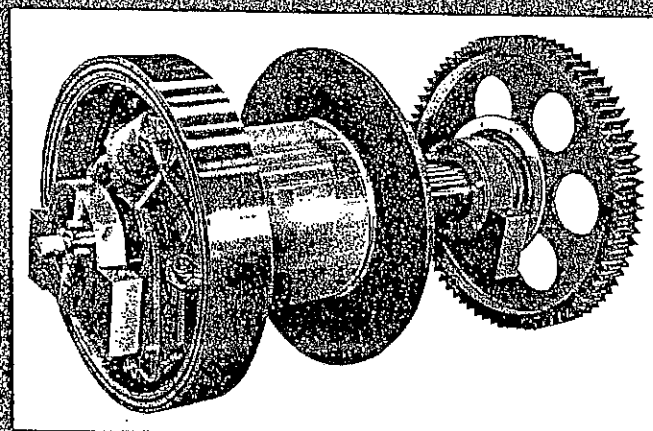
CONTROLS: All functions operated by electro-hydraulic controls, with speed directly proportional to control lever movement. First movement of boom hoist and travel controls releases parking brake; further movement increases speed. Movement of swing control lever immediately regulates power, and free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

Controls for load drums can be operated in "full-power" (liftcrane) or "free-fall" (excavator) modes as applications require. Operator selects 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 the 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. Drum speeds can be doubled by engaging selector switches that divert flow from travel pumps to drum motors.

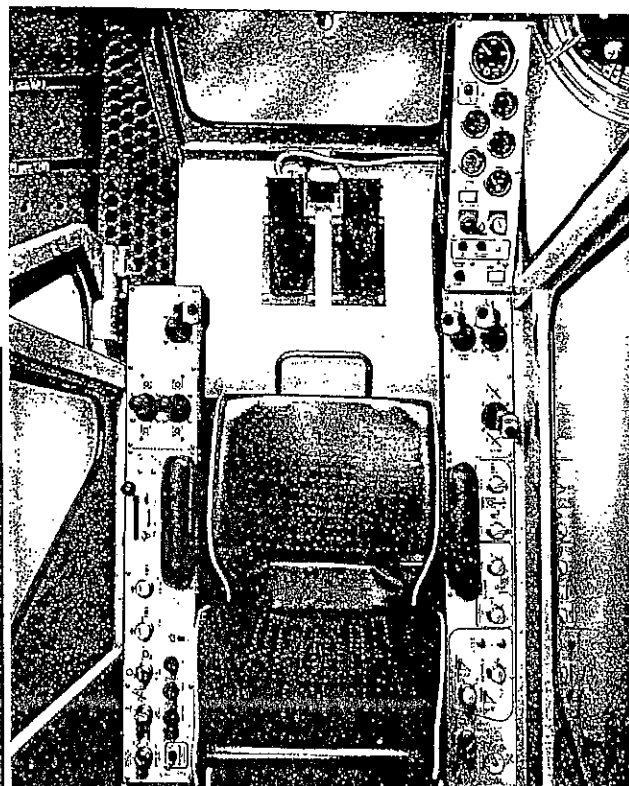
SWING SPEED: Variable, 3.5 RPM maximum.

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

GRADEABILITY: 30%.



FULL-POWER/FREE-FALL DRUM



ERGONOMIC CONTROLS



MANITOWOC ENGINEERING CO.

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

LIFT CRANE JIB CAPACITIES

JIB NO. 130 WITH 12' STRUT ON
BOOM NO. 46
42,000 LB. COUNTERWEIGHT
22 1/4" CRAWLERS EXTENDED
360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS



CHART SUPPLEMENTS BOOM CAPACITY CHART NO. 7522-A. CAPACITIES FOR VARIOUS BOOM LENGTHS, JIB LENGTHS AND JIB 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 (*).

WEIGHT OF ALL LOAD BLOCKS, HOOKS, WEIGHT BALL, SLINGS, HOIST LINES, ETC., BENEATH BOOM AND JIB POINT SHEAVES, IS CONSIDERED PART OF THE JIB LOAD. BOOM AND JIB ARE 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 (16'8-1/2") AND GANTRY UP. REFER TO BOOM RIGGING NO. 168744, JIB ASSEMBLY NO. 168267 AND WIRE ROPE SPECIFICATION CHART NO. 7523-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. JIB POINT ELEVATION IS VERTICAL DISTANCE FROM GROUND LEVEL TO CENTERLINE OF JIB POINT SHAFT.

MACHINE EQUIPPED WITH 22 1/4" EXTENDIBLE CRAWLERS, 36" TREADS, 17' RETRACTABLE GANTRY, 12 PART BOOM HOIST REEVING, TWO 1-1/4" BOOM PENDANTS, 1ST COUNTERWEIGHT = 35,000 LBS., 2ND COUNTERWEIGHT = 7,000 LBS.
MAXIMUM CAPACITY ON 3/4" - 6 X 25 EIPS, IWRC IS 15,000 LBS.

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED			
OVER END OF BLOCKED CRAWLERS		OVER SIDE OF EXTENDED CRAWLERS	
BOOM LGTH.	JIB NO. 130	BOOM LGTH.	JIB NO. 130
190'	---	190'	---
180'	50'	180'	---
170'	60'	170'	40'
		160'	60'

LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START.

30 FOOT JIB

BOOM LGTH. FEET	JIB OPER. RAD. FEET	3 DEGREE OFFSET			15 DEGREE OFFSET			30 DEGREE OFFSET			JIB OPER. RAD. FEET
		BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	
70	25	79.2	104.8	15,000*							25
	30	76.3	103.6	15,000*	79.8	102.8	15,000*				30
	35	73.4	102.1	15,000*	76.8	101.3	15,000*				35
	40	70.4	100.4	15,000*	73.8	99.6	15,000*	80.6	99.0	15,000*	40
	45	67.3	98.3	15,000*	70.7	97.5	15,000*	77.5	97.2	15,000*	45
	50	64.2	96.0	15,000*	67.6	95.1	15,000*	74.3	95.1	15,000*	50
	55	61.0	93.2	15,000*	64.3	92.3	15,000*	71.1	92.6	15,000*	55
	60	57.7	90.1	15,000*	60.9	89.2	15,000*	67.7	89.8	14,500*	60
	65	54.2	86.6	15,000*	57.4	85.6	15,000*	64.2	86.3	14,000*	65
	70	50.6	82.5	15,000*	53.7	81.5	15,000*	60.6	82.8	13,500*	70
	80	42.6	72.7	13,000	45.6	71.5	13,200	56.8	78.6	13,100*	80
	90	33.1	59.2	11,100	35.9	57.7	11,200	48.4	68.1	12,400*	90
	100	19.8	38.0	9,600							100

not be used for a specific serial number crane, serial number
laminated capacity charts for a specific crane can be purchased from
an authorized Manitowoc Distributor.



MANITOWOC ENGINEERING CO.

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



LIFT CRANE JIB CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

M-65W

NO. 130 WITH 12' STRUT ON
BOOM NO. 46
42,000 LB. COUNTERWEIGHT
22 1/4" CRAWLERS EXTENDED
360 DEGREE RATING

30 FOOT JIB

BOOM LGTH. FEET	JIB OPER. RAD. FEET	3 DEGREE OFFSET			15 DEGREE OFFSET			30 DEGREE OFFSET			JIB OPER. RAD. FEET
		BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	
80	25	80.2	115.0	15,000*							25
	30	77.6	113.9	15,000*	80.7	113.1	15,000*				30
	35	74.9	112.6	15,000*	78.0	111.8	15,000*				35
	40	72.2	111.0	15,000*	75.3	110.2	15,000*	78.7	107.8	15,000*	40
	45	69.5	109.2	15,000*	72.5	108.3	15,000*	75.9	105.9	15,000*	45
	50	66.7	107.1	15,000*	69.7	106.2	15,000*	73.0	103.7	15,000*	50
	55	63.8	104.6	15,000*	66.8	103.7	15,000*	70.0	101.2	15,000*	55
	60	60.9	101.9	15,000*	63.9	100.9	15,000*	67.0	98.3	14,500*	60
	65	57.9	98.8	15,000*	60.8	97.8	15,000*	63.8	95.1	14,000*	65
	70	54.7	95.3	15,000*	57.6	94.3	15,000*	60.6	91.5	13,600*	70
80	80	48.0	87.0	12,600	50.9	85.9	12,900	53.5	82.7	12,900*	80
	90	40.5	76.3	10,600	43.2	75.0	10,900				90
	100	31.5	62.0	9,300	34.0	60.4	9,400				100
90	30	78.6	124.2	15,000*	79.0	122.1	15,000*				30
	35	76.2	123.0	15,000*	76.6	120.7	15,000*	79.7	118.2	15,000*	35
	40	73.8	121.5	15,000*	74.1	119.0	15,000*	77.1	116.5	15,000*	40
	45	71.3	119.9	15,000*	71.5	117.0	15,000*	74.5	114.5	15,000*	45
	50	68.7	117.9	15,000*	68.9	114.8	15,000*	71.9	112.3	15,000*	50
	55	66.2	115.8	15,000*	66.3	112.3	15,000*	69.2	109.7	14,900*	55
	60	63.5	113.3	15,000*	63.5	109.6	15,000*	66.4	106.9	14,400*	60
	65	60.8	110.5	15,000*	60.7	106.5	15,000*	63.5	103.7	14,000*	65
	70	58.1	107.5	15,000*	54.8	99.1	12,800	57.4	96.1	13,000*	70
	80	52.2	100.2	12,600	48.4	90.0	10,800	50.7	86.7	10,900	80
90	90	45.9	91.2	10,600	41.1	78.4	9,200				90
	100	38.7	79.8	9,100	32.3	62.9	7,900				100
	110	30.1	64.6	7,900							110
100	30	79.5	134.4	15,000*	79.9	132.4	15,000*				30
	35	77.3	133.3	15,000*	77.6	131.1	15,000*	80.5	128.6	15,000*	35
	40	75.0	132.0	15,000*	75.3	129.5	15,000*	78.2	127.0	15,000*	40
	45	72.7	130.4	15,000*	73.0	127.8	15,000*	75.8	125.2	15,000*	45
	50	70.4	128.7	15,000*	70.6	125.8	15,000*	73.4	123.2	15,000*	50
	55	68.1	126.7	15,000*	68.2	123.5	15,000*	70.9	120.9	15,000*	55
	60	65.7	124.5	15,000*	65.8	121.0	15,000*	68.4	118.3	14,800*	60
	65	63.3	122.0	15,000*	63.3	118.2	15,000*	65.8	115.4	14,400*	65
	70	60.8	119.2	14,900	58.0	111.7	12,600	60.5	108.8	12,800*	70
	80	55.6	112.8	12,400	52.4	103.8	10,600	54.7	100.6	10,700	80
100	90	50.0	104.9	10,400	46.3	94.0	9,000	48.3	90.4	9,100	90
	100	44.0	95.3	8,900	39.3	81.7	7,700				100
	110	37.1	83.2	7,600							110
	120	28.9	67.2	6,600							120
110	30	80.3	144.6	15,000*	80.6	142.7	15,000*				30
	35	78.2	143.6	15,000*	78.5	141.4	15,000*	79.1	137.5	15,000*	35
	40	76.1	142.3	15,000*	76.4	140.0	15,000*	76.9	135.8	15,000*	40
	45	74.0	140.9	15,000*	74.3	138.4	15,000*	74.7	133.9	15,000*	45
	50	71.9	139.3	15,000*	72.1	136.5	15,000*	72.4	131.8	15,000*	50
	55	69.7	137.5	15,000*	69.9	134.5	15,000*	70.1	129.5	15,000*	55
	60	67.5	135.4	15,000*	67.7	132.2	15,000*	67.8	126.9	14,700*	60
	65	65.3	133.2	15,000*	65.4	129.6	15,000*	63.0	120.9	12,600*	65
	70	63.0	130.6	14,700	60.6	123.8	12,300	57.8	113.6	10,500	70
	80	58.3	124.8	12,100	55.6	116.7	10,300	52.3	104.8	8,900	80
110	90	53.4	117.8	10,200	50.3	108.2	8,800	46.2	94.0	7,600	90
	100	48.1	109.4	8,600	44.4	97.8	7,500				100
	110	42.3	99.1	7,400	37.7	84.8	6,400				110
	120	35.7	86.4	6,400							120
110	130	27.8	69.6	5,500							130

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.



MANITOWOC ENGINEERING CO.

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



LIFT CRANE JIB CAPACITIES

JIB NO. 130 WITH 12' STRUT ON
BOOM NO. 46
42,000 LB. COUNTERWEIGHT
22'4" CRAWLERS EXTENDED
360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS

M-65W

30 FOOT JIB

BOOM LGTH. FEET	JIB OPER. RAD. FEET	3 DEGREE OFFSET			15 DEGREE OFFSET			30 DEGREE OFFSET			JIB OPER. RAD. FEET
		BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	
120	30	80.9	154.8	15,000*							30
	35	79.0	153.8	15,000*							35
	40	77.0	152.7	15,000*	79.3	151.7	15,000*				40
	45	75.1	151.3	15,000*	77.4	150.4	15,000*	79.8	147.8	15,000*	45
	50	73.1	149.8	15,000*	75.4	148.9	15,000*	77.8	146.3	15,000*	50
	55	71.1	148.1	15,000*	73.3	147.2	15,000*	75.8	144.6	15,000*	55
	60	69.1	146.3	15,000*	71.3	145.3	15,000*	73.7	142.6	15,000*	60
	65	67.0	144.2	15,000*	69.2	143.2	15,000*	71.6	140.5	15,000*	65
	70	65.0	141.8	14,500	67.1	140.8	14,800	69.4	138.1	15,000*	70
	80	60.7	136.5	11,900	62.8	135.5	12,200	65.0	132.6	12,500	80
	90	56.2	130.2	10,000	58.3	129.1	10,200	60.4	126.1	10,400	90
	100	51.4	122.6	8,400	53.5	121.5	8,600	55.5	118.2	8,800	100
	110	46.3	113.6	7,200	48.4	112.4	7,300	50.2	108.9	7,500	110
	120	40.8	102.8	6,200	42.7	101.4	6,300				120
130	35	79.7	164.0	15,000*							35
	40	77.9	162.9	15,000*	80.0	162.0	15,000*				40
	45	76.0	161.7	15,000*	78.2	160.8	15,000*	80.5	158.2	15,000*	45
	50	74.2	160.3	15,000*	76.3	159.4	15,000*	78.6	156.7	15,000*	50
	55	72.3	158.7	15,000*	74.4	157.8	15,000*	76.7	155.1	15,000*	55
	60	70.4	157.0	15,000*	72.5	156.0	15,000*	74.8	153.3	15,000*	60
	65	68.5	155.0	15,000*	70.6	154.0	15,000*	72.8	151.3	15,000*	65
	70	66.6	152.9	14,300	68.7	151.9	14,600	70.9	149.1	15,000*	70
	80	62.7	148.0	11,700	64.7	146.9	12,000	66.8	144.1	12,300	80
	90	58.5	142.1	9,800	60.6	141.1	10,000	62.6	138.1	10,200	90
	100	54.2	135.3	8,200	56.2	134.2	8,400	58.1	131.0	8,600	100
	110	49.7	127.3	7,000	51.6	126.1	7,100	53.4	122.7	7,300	110
	120	44.8	117.8	6,000	46.7	116.4	6,100	48.3	112.8	6,200	120
	130	39.4	106.4	5,100	41.2	104.9	5,200				130
140	35	79.7	174.2	15,000*							35
	40	78.6	173.2	15,000*	80.6	172.2	15,000*				40
	45	76.9	172.0	15,000*	78.9	171.1	15,000*	80.5	169.8	15,000*	45
	50	75.1	170.7	15,000*	77.1	169.8	15,000*	79.3	167.1	15,000*	50
	55	73.4	169.2	15,000*	75.4	168.3	15,000*	77.5	165.6	15,000*	55
	60	71.6	167.6	15,000*	73.6	166.6	15,000*	75.7	163.9	15,000*	60
	65	69.9	165.8	15,000*	71.8	164.8	15,000*	73.9	162.1	15,000*	65
	70	68.1	163.8	14,000	70.0	162.8	14,400	72.1	160.0	14,800	70
	80	64.4	159.2	11,500	66.3	158.2	11,800	68.3	155.3	12,100	80
	90	60.6	153.8	9,500	62.5	152.8	9,800	64.4	149.8	10,000	90
	100	56.6	147.6	8,000	58.5	146.4	8,200	60.3	143.4	8,400	100
	110	52.5	140.2	6,700	54.3	139.1	6,900	56.1	135.8	7,100	110
	120	48.1	131.7	5,700	49.9	130.5	5,800	51.5	127.0	6,000	120
	130	43.4	121.7	4,800	45.1	120.4	5,000	46.6	116.6	5,100	130
150	35	79.7	184.3	15,000*							35
	40	79.2	183.4	15,000*							40
	45	77.6	182.3	15,000*	79.5	181.4	15,000*				45
	50	76.0	181.1	15,000*	77.9	180.1	15,000*	79.9	177.4	15,000*	50
	55	74.3	179.7	15,000*	76.2	178.7	15,000*	78.3	176.0	15,000*	55
	60	72.7	178.1	15,000*	74.6	177.2	15,000*	76.6	174.4	15,000*	60
	65	71.0	176.4	15,000*	72.9	175.4	15,000*	74.9	172.7	15,000*	65
	70	69.3	174.6	13,900	71.2	173.6	14,300	73.1	170.8	14,700	70
	80	65.9	170.3	11,300	67.7	169.3	11,600	69.6	166.4	12,000	80
	90	62.4	165.3	9,300	64.2	164.2	9,600	66.0	161.3	9,900	90
	100	58.7	159.5	7,800	60.5	158.4	8,000	62.3	155.3	8,300	100
	110	54.9	152.8	6,500	56.7	151.6	6,700	58.3	148.4	6,900	110
	120	50.9	145.0	5,500	52.6	143.8	5,700	54.2	140.4	5,900	120
	130	46.7	136.0	4,700	48.3	134.7	4,800	49.8	131.1	4,900	130
	140	42.1	125.6	3,900	43.7	124.1	4,100				140
	150	37.0	113.2	3,300	38.6	111.6	3,400				150

For the best results, a lifting chart for a specific crane can be purchased from an authorized Manitowoc Distributor.

**MANITOWOC ENGINEERING CO.**

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

**LIFT CRANE JIB CAPACITIES**MEETS
ANSI B30.5
REQUIREMENTS**M-65W**

NO. 130 WITH 12' STRUT ON
BOOM NO. 46
42,000 LB. COUNTERWEIGHT
22'4" CRAWLERS EXTENDED
360 DEGREE RATING

30 FOOT JIB

BOOM LGTH. FEET	JIB OPER. RAD. FEET	3 DEGREE OFFSET			15 DEGREE OFFSET			30 DEGREE OFFSET			JIB OPER. RAD. FEET
		BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	
160	40	79.8	193.6	15,000*							40
	45	78.3	192.6	15,000*	80.1	191.6	15,000*				45
	50	76.7	191.4	15,000*	78.5	190.4	15,000*	80.5	187.7	15,000*	50
	55	75.2	190.1	15,000*	77.0	189.1	15,000*	78.9	186.4	15,000*	55
	60	73.6	188.6	15,000*	75.4	187.6	15,000*	77.3	184.9	15,000*	60
	65	72.0	187.0	15,000*	73.8	186.0	15,000*	75.7	183.3	15,000*	65
	70	70.5	185.2	13,700	72.2	184.2	14,100	74.1	181.5	14,500	70
	80	67.2	181.2	11,100	69.0	180.2	11,400	70.8	177.4	11,800	80
	90	63.9	176.6	9,100	65.6	175.5	9,400	67.4	172.6	9,700	90
	100	60.5	171.2	7,600	62.2	170.1	7,800	63.9	167.1	8,100	100
	110	57.0	164.9	6,300	58.7	163.8	6,500	60.3	160.7	6,800	110
170	40	80.3	203.8	15,000*							40
	45	78.9	202.8	15,000*	80.6	201.8	15,000*				45
	50	77.4	201.7	15,000*	79.1	200.7	15,000*	81.0	198.0	14,500*	50
	55	75.9	200.4	15,000*	77.6	199.5	15,000*	79.5	196.7	14,400*	55
	60	74.5	199.1	15,000*	76.1	198.1	15,000*	78.0	195.3	14,300*	60
	65	73.0	197.5	15,000*	74.7	196.5	15,000*	76.5	193.8	14,200*	65
	70	71.5	195.9	13,400	73.1	194.9	13,900	74.9	192.1	14,100*	70
	80	68.4	192.1	10,800	70.1	191.1	11,200	71.8	188.2	11,600	80
	90	65.3	187.7	8,900	67.0	186.6	9,200	68.7	183.7	9,500	90
	100	62.1	182.6	7,300	63.8	181.5	7,600	65.4	178.6	7,900	100
	110	58.8	176.8	6,100	60.4	175.7	6,300	62.0	172.6	6,600	110
180	40	80.8	213.9	15,000*							40
	45	79.4	213.0	15,000*							45
	50	78.0	211.9	15,000*	79.6	211.0	13,800*				50
	55	76.6	210.8	14,000*	78.2	209.8	13,700*	80.0	207.0	12,800*	55
	60	75.2	209.4	13,800*	76.8	208.5	13,500*	78.6	205.7	12,700*	60
	65	73.8	208.0	13,600*	75.4	207.0	13,400*	77.1	204.2	12,600*	65
	70	72.4	206.4	13,300	74.0	205.4	13,200*	75.7	202.6	12,500*	70
	80	69.5	202.9	10,700	71.1	201.8	11,100	72.8	199.0	11,500	80
	90	66.6	198.7	8,700	68.1	197.7	9,000	69.8	194.8	9,400	90
	100	63.6	193.9	7,200	65.1	192.8	7,400	66.7	189.9	7,700	100
	110	60.5	188.5	5,900	62.0	187.4	6,200	63.5	184.3	6,400	110
140	120	57.3	182.3	4,900	58.8	181.1	5,100	60.3	178.0	5,300	120
	130	54.0	175.3	4,000	55.5	174.1	4,200	56.9	170.8	4,400	130
	140	50.5	167.4	3,300	52.0	166.1	3,500	53.3	162.7	3,600	140

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.



MANITOWOC ENGINEERING CO.

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



LIFT CRANE JIB CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

M-65W

JIB NO. 130 WITH 12' STRUT ON

BOOM NO. 46

42,000 LB. COUNTERWEIGHT

22'4" CRAWLERS EXTENDED

360 DEGREE RATING

40 FOOT JIB

BOOM LGTH. FEET	JIB OPER. RAD. FEET	3 DEGREE OFFSET			15 DEGREE OFFSET			30 DEGREE OFFSET			JIB OPER. RAD. FEET
		BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	
70	25	80.9	115.0	15,000*							25
	30	78.2	113.9	15,000*							30
	35	75.6	112.6	15,000*	79.7	111.5	15,000*				35
	40	72.9	111.0	15,000*	77.0	109.9	15,000*				40
	45	70.1	109.1	15,000*	74.2	108.0	15,000*	78.8	105.1	13,900*	45
	50	67.3	107.0	15,000*	71.4	105.9	15,000*	75.8	102.9	13,300*	50
	55	64.5	104.6	15,000*	68.5	103.4	15,000*	72.9	100.3	12,700*	55
	60	61.5	101.8	15,000*	65.5	100.7	15,000*	69.8	97.5	12,200*	60
	65	58.5	98.7	15,000*	62.4	97.5	15,000*	66.6	94.2	11,700*	65
	70	55.4	95.3	15,000*	59.3	94.0	15,000*	63.3	90.6	11,300*	70
80	80	48.7	87.0	13,200	52.5	85.6	13,400	56.2	81.7	10,600*	80
	90	41.1	76.3	11,200	44.8	74.7	11,400	48.1	70.2	10,100*	90
	100	32.1	61.9	9,700	35.5	59.9	9,800				100
	30	79.2	124.2	15,000*							30
	35	76.8	122.9	15,000*	80.6	121.8	15,000*				35
	40	74.3	121.5	15,000*	78.1	120.4	15,000*				40
	45	71.8	119.8	15,000*	75.6	118.7	15,000*	79.8	115.6	13,600*	45
	50	69.3	117.9	15,000*	73.0	116.7	15,000*	77.2	113.7	13,300*	50
	55	66.7	115.7	15,000*	70.4	114.5	15,000*	74.5	111.4	13,000*	55
	60	64.1	113.3	15,000*	67.8	112.1	15,000*	71.7	108.8	12,600*	60
90	65	61.4	110.5	15,000*	65.0	109.3	15,000*	68.9	105.9	12,100*	65
	70	58.6	107.4	15,000*	62.2	106.1	15,000*	66.0	102.7	11,700*	70
	80	52.8	100.2	12,900	56.3	98.8	13,100	59.9	95.1	11,000*	80
	90	45.4	91.2	10,900	49.8	89.7	11,100	53.1	85.5	10,400*	90
	100	39.3	79.8	9,400	42.5	78.0	9,500				100
	110	30.7	64.6	8,200	33.7	62.3	8,200				110
	30	80.0	134.4	15,000*							30
	35	77.8	133.3	15,000*							35
	40	75.6	131.9	15,000*	79.0	130.8	15,000*				40
	45	73.3	130.4	15,000*	76.7	129.2	15,000*	80.6	126.1	14,100*	45
100	50	71.0	128.6	15,000*	74.4	127.5	15,000*	78.2	124.3	13,800*	50
	55	68.6	126.6	15,000*	72.0	125.4	15,000*	75.8	122.2	13,400*	55
	60	66.2	124.4	15,000*	69.6	123.2	15,000*	73.3	119.9	12,900*	60
	65	63.8	121.9	15,000*	67.2	120.7	15,000*	70.8	117.3	12,400*	65
	70	61.3	119.2	15,000*	64.6	117.9	15,000*	68.2	114.4	12,000*	70
	80	56.1	112.7	12,700	59.4	111.4	13,000	62.7	107.7	11,300*	80
	90	50.5	104.8	10,800	53.8	103.4	11,000	56.9	99.4	10,800*	90
	100	44.5	95.2	9,200	47.6	93.6	9,400	50.4	89.1	9,500	100
	110	37.6	83.1	8,000	40.6	81.2	8,100				110
	120	29.4	67.1	7,000	32.1	64.7	7,000				120
100	30	80.8	144.6	15,000*							30
	35	78.7	143.5	15,000*							35
	40	76.6	142.3	15,000*	79.9	141.1	15,000*				40
	45	74.5	140.9	15,000*	77.7	139.7	15,000*				45
	50	72.4	139.3	15,000*	75.6	138.1	15,000*	79.1	134.8	14,200*	50
	55	70.2	137.4	15,000*	73.4	136.2	15,000*	76.9	132.9	13,600*	55
	60	68.0	135.4	15,000*	71.2	134.1	15,000*	74.6	130.8	13,200*	60
	65	65.8	133.1	15,000*	68.9	131.8	15,000*	72.3	128.4	12,700*	65
	70	63.5	130.6	15,000*	66.6	129.3	15,000*	70.0	125.8	12,300*	70
	80	58.8	124.8	12,500	61.9	123.4	12,800	65.1	119.8	11,600*	80
100	90	53.9	117.7	10,500	56.9	115.3	10,800	59.9	112.4	11,000	90
	100	48.6	109.3	9,000	51.5	107.7	9,200	54.3	103.5	9,400	100
	110	42.7	99.0	7,800	45.6	97.3	7,900	48.1	92.6	8,000	110
	120	36.2	86.3	6,700	38.9	84.3	6,800				120
	130	28.2	69.5	5,900							130

Do not use for a special series tower crane. Serial numbers laminated capacity charts for a specific crane can be purchased from an authorized Manitowoc Distributor.



MANITOWOC ENGINEERING CO.

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



LIFT CRANE JIB CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

M-65W

JIB NO. 130 WITH 12' STRUT ON

BOOM NO. 46

42,000 LB. COUNTERWEIGHT

22'4" CRAWLERS EXTENDED

360 DEGREE RATING

40 FOOT JIB

BOOM LGTH. FEET	JIB OPER. RAD. FEET	3 DEGREE OFFSET			15 DEGREE OFFSET			30 DEGREE OFFSET			JIB OPER. RAD. FEET
		BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	
110	35	79.4	153.8	15,000*							35
	40	77.5	152.6	15,000*	80.5	151.4	15,000*				40
	45	75.5	151.3	15,000*	78.6	150.1	15,000*				45
	50	73.6	149.8	15,000*	76.6	148.6	15,000*	79.9	145.3	14,400*	50
	55	71.6	148.1	15,000*	74.6	146.9	15,000*	77.8	143.5	13,900*	55
	60	69.5	146.2	15,000*	72.5	144.9	15,000*	75.8	141.6	13,400*	60
	65	67.5	144.1	15,000*	70.4	142.8	15,000*	73.6	139.4	13,000*	65
	70	65.4	141.8	14,800	68.3	140.5	15,000*	71.5	137.0	12,600*	70
	80	61.1	136.5	12,200	64.0	135.1	12,600	67.0	131.5	11,900*	80
	90	56.6	130.1	10,300	59.5	128.7	10,500	62.3	124.9	10,800	90
	100	51.9	122.6	8,700	54.7	121.1	9,000	57.4	117.0	9,200	100
	110	46.8	113.6	7,500	49.5	111.9	7,700	52.0	107.5	7,800	110
	120	41.2	102.7	6,500	43.8	100.9	6,600				120
	130	34.9	89.3	5,600	37.3	87.2	5,700				130
	140	27.2	71.9	4,900							140
120	35	80.1	164.0	15,000*							35
	40	78.3	162.9	15,000*							40
	45	76.5	161.7	15,000*	79.3	160.4	15,000*				45
	50	74.6	160.3	15,000*	77.4	159.0	15,000*	80.6	155.7	14,500*	50
	55	72.8	158.7	15,000*	75.6	157.4	15,000*	78.7	154.0	14,100*	55
	60	70.9	156.9	15,000*	73.7	155.6	15,000*	76.7	152.2	13,600*	60
	65	69.0	155.0	15,000*	71.7	153.7	15,000*	74.8	150.2	13,200*	65
	70	67.0	152.8	14,600	69.8	151.5	15,000*	72.8	148.0	12,900*	70
	80	63.1	147.9	12,100	65.8	146.6	12,400	68.7	142.9	12,200*	80
	90	59.0	142.1	10,100	61.7	140.7	10,400	64.4	136.9	10,700	90
	100	54.7	135.2	8,500	57.3	133.8	8,800	59.9	129.7	9,000	100
	110	50.1	127.2	7,300	52.7	125.6	7,500	55.1	121.3	7,700	110
	120	45.2	117.7	6,300	47.7	116.0	6,400	50.0	111.3	6,600	120
	130	39.8	106.3	5,400	42.2	104.4	5,500				130
	140	33.7	92.3	4,700	36.0	90.1	4,800				140
	150	26.3	74.1	4,000							150
130	35	80.7	174.1	15,000*							35
	40	79.0	173.1	15,000*							40
	45	77.3	172.0	15,000*	79.9	170.7	15,000*				45
	50	75.5	170.7	15,000*	78.2	169.4	15,000*				50
	55	73.8	169.2	15,000*	76.4	167.9	15,000*	79.4	164.5	13,600*	55
	60	72.0	167.5	15,000*	74.7	166.2	15,000*	77.6	162.8	13,500*	60
	65	70.3	165.7	15,000*	72.9	164.4	15,000*	75.7	160.9	13,400*	65
	70	68.5	163.7	14,400	71.1	162.4	14,900	73.9	158.9	13,100*	70
	80	64.8	159.2	11,800	67.4	157.8	12,200	70.1	154.2	12,400*	80
	90	61.0	153.8	9,900	63.5	152.4	10,200	66.1	148.6	10,500	90
	100	57.0	147.5	8,300	59.5	146.0	8,600	62.0	142.1	8,900	100
	110	52.9	140.2	7,100	55.3	138.6	7,300	57.7	134.4	7,500	110
	120	48.5	131.7	6,100	50.9	130.0	6,200	53.1	125.5	6,400	120
	130	43.8	121.7	5,200	46.1	119.9	5,300	48.1	114.9	5,500	130
	140	38.6	109.7	4,500	40.8	107.7	4,600				140
	150	32.6	95.2	3,800	34.7	92.8	3,900				150
	160	25.5	76.3	3,300							160
140	40	79.6	183.3	15,000*							40
	45	78.0	182.3	15,000*	80.5	181.0	15,000*				45
	50	76.4	181.0	15,000*	78.9	179.7	15,000*				50
	55	74.7	179.6	15,000*	77.2	178.3	15,000*	80.0	174.9	13,000*	55
	60	73.1	178.1	15,000*	75.6	176.8	15,000*	78.3	173.3	12,900*	60
	65	71.4	176.4	15,000*	73.9	175.1	15,000*	76.6	171.5	12,700*	65
	70	69.7	174.5	14,200	72.2	173.2	14,700	74.8	169.6	12,600*	70
	80	66.3	170.2	11,600	68.7	168.9	12,000	71.3	165.2	12,400*	80
	90	62.7	165.2	9,600	65.2	163.8	10,000	67.7	160.1	10,300	90
	100	59.1	159.4	8,100	61.5	158.0	8,400	63.9	154.0	8,700	100
	110	55.3	152.7	6,800	57.6	151.2	7,100	59.9	147.1	7,300	110
	120	51.3	145.0	5,800	53.6	143.3	6,000	55.7	139.0	6,200	120
	130	47.0	136.0	4,900	49.3	134.2	5,100	51.3	129.6	5,300	130
	140	42.4	125.5	4,200	44.6	123.6	4,400				140
	150	37.4	113.1	3,600	39.5	111.0	3,700				150
	160	31.7	97.9	3,000	33.6	95.5	3,100				160

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.



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

**LIFT CRANE JIB CAPACITIES**

JIB NO. 130 WITH 12' STRUT ON

BOOM NO. 46

42,000 LB. COUNTERWEIGHT

22'4" CRAWLERS EXTENDED

360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS**M-65W****40 FOOT JIB**

BOOM LGTH. FEET	JIB OPER. RAD. FEET	3 DEGREE OFFSET			15 DEGREE OFFSET			30 DEGREE OFFSET			JIB OPER. RAD. FEET
		BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	
150	40	80.2	193.5	15,000*							40
	45	78.6	192.5	15,000*							45
	50	77.1	191.3	15,000*	79.5	190.0	15,000*				50
	55	75.5	190.0	15,000*	77.9	188.7	15,000*	80.6	185.2	12,400*	55
	60	74.0	188.6	15,000*	76.4	187.3	15,000*	79.0	183.7	12,300*	60
	65	72.4	187.0	15,000*	74.8	185.6	15,000*	77.3	182.1	12,200*	65
	70	70.8	185.2	14,000	73.2	183.9	14,600	75.7	180.3	12,100*	70
	80	67.6	181.2	11,400	69.9	179.8	11,900	72.4	176.2	11,900*	80
	90	64.3	176.5	9,500	66.6	175.1	9,800	69.0	171.3	10,200	90
	100	60.9	171.1	7,900	63.1	169.6	8,200	65.5	165.8	8,500	100
	110	57.4	164.9	6,700	59.6	163.4	6,900	61.8	159.3	7,200	110
	120	53.7	157.7	5,600	55.9	156.2	5,900	58.0	151.9	6,100	120
	130	49.8	149.6	4,800	52.0	147.9	5,000	54.0	143.4	5,100	130
	140	45.7	140.1	4,000	47.8	138.3	4,200	49.6	133.5	4,300	140
	150	41.2	129.2	3,400	43.3	127.3	3,500				150
	160				38.3	114.1	3,000				160
160	40	80.7	203.7	15,000*							40
	45	79.2	202.7	15,000*							45
	50	77.7	201.6	15,000*	80.0	200.3	15,000*				50
	55	76.3	200.4	15,000*	78.5	199.1	15,000*				55
	60	74.8	199.0	15,000*	77.1	197.7	15,000*	79.5	194.1	11,800*	60
	65	73.3	197.5	15,000*	75.6	196.1	14,900*	78.0	192.6	11,700*	65
	70	71.8	195.8	13,800	74.0	194.5	14,400	76.5	190.9	11,600*	70
	80	68.8	192.0	11,200	71.0	190.7	11,700	73.3	187.0	11,400*	80
	90	65.7	187.6	9,300	67.8	186.2	9,600	70.1	182.5	10,100	90
	100	62.5	182.6	7,700	64.6	181.1	8,000	66.9	177.2	8,400	100
	110	59.2	176.8	6,400	61.3	175.3	6,700	63.5	171.2	7,000	110
	120	55.8	170.1	5,400	57.9	168.6	5,700	59.9	164.4	5,900	120
	130	52.2	162.6	4,600	54.3	161.0	4,800	56.2	156.6	5,000	130
	140	48.4	154.0	3,800	50.5	152.3	4,000	52.3	147.6	4,200	140
	150	44.5	144.2	3,200	46.4	142.3	3,300	48.1	137.3	3,500	150
170	45	79.7	212.9	14,200*							45
	50	78.3	211.9	14,100*	80.5	210.6	13,500*				50
	55	76.9	210.7	13,900*	79.1	209.4	13,400*				55
	60	75.5	209.4	13,800*	77.7	208.1	13,300*	80.1	204.5	11,300*	60
	65	74.1	207.9	13,700*	76.3	206.6	13,200*	78.6	203.0	11,200*	65
	70	72.7	206.4	13,600*	74.8	205.0	13,100*	77.2	201.4	11,200*	70
	80	69.8	202.8	11,000	71.9	201.4	11,500	74.2	197.7	11,000*	80
	90	66.9	198.6	9,000	69.0	197.2	9,400	71.2	193.5	9,900	90
	100	63.9	193.9	7,500	66.0	192.4	7,800	68.1	188.6	8,200	100
	110	60.8	188.4	6,200	62.8	186.9	6,500	64.9	182.9	6,800	110
	120	57.6	182.2	5,200	59.6	180.7	5,400	61.6	176.6	5,700	120
	130	54.3	175.2	4,300	56.3	173.6	4,500	58.2	169.3	4,800	130
	140	50.8	167.3	3,600	52.8	165.6	3,800	54.6	161.1	4,000	140
	150				49.1	156.6	3,100	50.8	151.8	3,300	150
180	45	80.2	223.1	12,600*							45
	50	78.9	222.1	12,500*	80.9	220.8	12,000*				50
	55	77.5	221.0	12,400*	79.6	219.7	11,900*				55
	60	76.2	219.7	12,200*	78.3	218.4	11,800*	80.5	214.8	10,700*	60
	65	74.9	218.4	12,100*	76.9	217.0	11,700*	79.2	213.4	10,600*	65
	70	73.5	216.9	11,900*	75.6	215.5	11,600*	77.8	211.9	10,500*	70
	80	70.8	213.5	10,800	72.8	212.1	11,300	75.0	208.4	10,400*	80
	90	68.0	209.5	8,800	70.0	208.1	9,300	72.1	204.4	9,700	90
	100	65.2	205.0	7,300	67.1	203.6	7,700	69.2	199.7	8,100	100
	110	62.2	199.9	6,000	64.2	198.4	6,400	66.2	194.4	6,700	110
	120	59.3	194.1	5,000	61.2	192.6	5,300	63.1	188.5	5,600	120
	130	56.2	187.5	4,100	58.1	186.0	4,400	59.9	181.7	4,600	130
	140	52.9	180.2	3,400	54.8	178.5	3,600	56.6	174.1	3,800	140
	150							53.1	165.5	3,100	150

laminated capacity charts for a specific crane can be purchased from an authorized Manitowoc Distributor.

**MANITOWOC ENGINEERING CO.**

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

**LIFT CRANE JIB CAPACITIES**MEETS
ANSI B30.5
REQUIREMENTS**M-65W**

III 10. 130 WITH 12' STRUT ON

300M NO. 46

12,000 LB. COUNTERWEIGHT

22 1/4" CRAWLERS EXTENDED

360 DEGREE RATING

50 FOOT JIB

BOOM LGTH. FEET	JIB OPER. RAD. FEET	3 DEGREE OFFSET			15 DEGREE OFFSET			30 DEGREE OFFSET			JIB OPER. RAD. FEET
		BOOM ANG. DEG.	JIB ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB ELEV. FEET	CAPACITY POUNDS	
70	30	79.4	124.2	15,000*							30
	35	77.0	123.0	15,000*							35
	40	74.5	121.5	15,000*	79.3	120.3	15,000*				40
	45	72.0	119.8	15,000*	76.8	118.7	15,000*				45
	50	69.5	117.9	15,000*	74.2	116.7	15,000*	79.5	113.4	12,300*	50
	55	66.9	115.7	15,000*	71.6	114.5	15,000*	76.9	111.1	11,700*	55
	60	64.3	113.3	15,000*	68.9	112.0	15,000*	74.1	108.5	11,200*	60
	65	61.6	110.5	15,000*	66.2	109.2	15,000*	71.3	105.6	10,700*	65
	70	58.8	107.4	15,000*	63.4	106.1	14,600*	68.4	102.4	10,300*	70
	80	53.0	100.2	13,200	57.5	98.8	12,900*	62.2	94.8	9,500*	80
	90	46.6	91.2	11,300	51.0	89.6	11,500	55.4	85.1	8,800*	90
80	100	39.5	79.8	9,700	43.7	77.9	9,900	47.6	72.7	8,300*	100
	110	30.9	64.6	8,500	34.8	62.3	8,600				110
	30	80.2	134.4	15,000*							30
	35	78.0	133.3	15,000*							35
	40	75.7	131.9	15,000*	80.1	130.7	15,000*				40
	45	73.5	130.4	15,000*	77.8	129.2	15,000*				45
	50	71.1	128.6	15,000*	75.5	127.4	15,000*	80.4	123.9	10,900*	50
	55	68.8	126.7	15,000*	73.1	125.4	15,000*	78.0	121.9	10,700*	55
	60	66.4	124.4	15,000*	70.7	123.1	15,000*	75.5	119.5	10,500*	60
	65	64.0	121.9	15,000*	68.2	120.6	15,000*	72.9	116.9	10,300*	65
	70	61.5	119.2	15,000*	65.7	117.8	15,000*	70.3	114.0	10,100*	70
	80	56.3	112.7	13,000	60.5	111.3	13,300	64.9	107.3	9,700*	80
90	90	50.7	104.9	11,000	54.8	103.3	11,300	59.0	98.9	9,200*	90
	100	44.7	95.2	9,500	48.7	93.5	9,700	52.5	88.6	8,600*	100
	110	37.8	83.1	8,200	41.6	81.1	8,400				110
	120	29.6	67.1	7,200	33.1	64.6	7,300				120
	30	80.9	144.6	15,000*							30
	35	78.9	143.5	15,000*							35
	40	76.8	142.3	15,000*	80.9	141.0	15,000*				40
	45	74.7	140.9	15,000*	78.7	139.6	15,000*				45
	50	72.5	139.3	15,000*	76.6	138.0	15,000*				50
	55	70.4	137.4	15,000*	74.4	136.1	15,000*	78.9	132.5	11,100*	55
	60	68.2	135.4	15,000*	72.2	134.1	15,000*	76.6	130.4	10,900*	60
	65	66.0	133.1	15,000*	69.9	131.8	15,000*	74.3	128.0	10,700*	65
100	70	63.7	130.6	15,000*	67.6	129.2	15,000*	72.0	125.4	10,500*	70
	80	59.0	124.8	12,800	62.9	123.3	13,100	67.1	119.3	10,200*	80
	90	54.0	117.8	10,800	57.9	116.2	11,100	61.8	111.9	9,500*	90
	100	48.7	109.3	9,300	52.5	107.6	9,500	56.2	103.0	8,900*	100
	110	42.9	99.1	8,000	46.6	97.2	8,200	50.0	91.9	8,400	110
	120	36.3	86.3	7,000	39.8	84.1	7,100				120
	130	28.4	69.5	6,200	31.6	66.8	6,200				130
	35	79.6	153.8	15,000*							35
	40	77.7	152.6	15,000*							40
	45	75.7	151.3	15,000*	79.5	150.0	15,000*				45
	50	73.7	149.8	15,000*	77.5	148.5	15,000*				50
	55	71.7	148.1	15,000*	75.5	146.8	15,000*	79.7	143.0	11,700*	55
	60	69.7	146.2	15,000*	73.5	144.8	15,000*	77.6	141.1	11,500*	60
	65	67.7	144.1	15,000*	71.4	142.7	15,000*	75.5	138.9	11,300*	65
	70	65.6	141.8	15,000*	69.3	140.4	15,000*	73.3	136.5	11,200*	70
	80	61.3	136.5	12,600	64.9	135.0	12,900	68.9	130.9	10,500*	80
	90	56.8	130.1	10,600	60.4	128.6	10,900	64.2	124.3	9,800*	90
	100	52.0	122.6	9,100	55.6	120.9	9,300	59.2	116.3	9,200*	100
	110	47.0	113.6	7,800	50.4	111.8	8,000	53.8	106.8	8,200	110
	120	41.4	102.8	6,800	44.7	100.8	7,000	47.8	95.2	7,100	120
	130	35.0	89.4	5,900	38.2	87.0	6,100				130
	140	27.4	71.9	5,200							140

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.



MANITOWOC ENGINEERING CO.

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



LIFT CRANE JIB CAPACITIES

JIB NO. 130 WITH 12' STRUT ON
BOOM NO. 46
42,000 LB. COUNTERWEIGHT
22'4" CRAWLERS EXTENDED
360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS

M-65W

50 FOOT JIB

BOOM LGTH. FEET	JIB OPER. RAD. FEET	3 DEGREE OFFSET			15 DEGREE OFFSET			30 DEGREE OFFSET			JIB OPER. RAD. FEET
		BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	
110	35	80.3	164.0	15,000*							35
	40	78.4	162.9	15,000*							40
	45	76.6	161.7	15,000*	80.2	160.3	15,000*				45
	50	74.8	160.3	15,000*	78.3	158.9	15,000*				50
	55	72.9	158.7	15,000*	76.5	157.3	15,000*	80.4	153.5	12,100*	55
	60	71.0	156.9	15,000*	74.6	155.5	15,000*	78.5	151.7	12,100*	60
	65	69.1	155.0	15,000*	72.6	153.6	15,000*	76.5	149.7	11,800*	65
	70	67.2	152.8	14,900	70.7	151.4	15,000*	74.5	147.4	11,400*	70
	80	63.2	147.9	12,300	66.7	146.4	12,700	70.4	142.3	10,700*	80
	90	59.1	142.1	10,400	62.5	140.6	10,700	66.1	136.3	10,100*	90
	100	54.8	135.3	8,800	58.2	133.6	9,100	61.6	129.1	9,400	100
	110	50.3	127.2	7,600	53.5	125.5	7,800	56.8	120.6	8,000	110
	120	45.4	117.7	6,500	48.6	115.8	6,700	51.6	110.5	6,900	120
	130	40.0	106.3	5,700	43.1	104.2	5,800				130
	140	33.9	92.3	4,900	36.8	89.9	5,100				140
	150	26.5	74.1	4,300							150
120	35	80.8	174.1	15,000*							35
	40	79.1	173.1	15,000*							40
	45	77.4	172.0	15,000*	80.8	170.6	15,000*				45
	50	75.7	170.7	15,000*	79.0	169.3	15,000*				50
	55	73.9	169.2	15,000*	77.3	167.8	15,000*				55
	60	72.2	167.5	15,000*	75.5	166.1	15,000*	79.2	162.2	11,700*	60
	65	70.4	165.7	15,000*	73.7	164.3	15,000*	77.4	160.3	11,600*	65
	70	68.6	163.7	14,700	71.9	162.3	15,000*	75.5	158.3	11,500*	70
	80	64.9	159.2	12,100	68.2	157.7	12,600	71.7	153.5	10,900*	80
	90	61.1	153.8	10,200	64.3	152.2	10,500	67.7	147.9	10,300*	90
	100	57.2	147.5	8,600	60.3	145.9	8,900	63.6	141.4	9,200	100
	110	53.0	140.2	7,400	56.2	138.5	7,600	59.3	133.7	7,900	110
	120	48.6	131.7	6,300	51.7	129.8	6,600	54.6	124.7	6,800	120
	130	43.9	121.7	5,500	46.9	119.7	5,700	49.6	114.1	5,800	130
	140	38.7	109.8	4,700	41.6	107.5	4,900				140
	150	32.8	95.2	4,100	35.5	92.6	4,200				150
130	40	79.7	183.4	15,000*							40
	45	78.1	182.3	15,000*							45
	50	76.5	181.0	15,000*	79.7	179.6	15,000*				50
	55	74.9	179.6	15,000*	78.0	178.2	15,000*				55
	60	73.2	178.1	15,000*	76.3	176.6	15,000*	79.8	172.7	11,100*	60
	65	71.5	176.4	15,000*	74.7	174.9	15,000*	78.1	170.9	11,000*	65
	70	69.8	174.5	14,500	73.0	173.0	15,000*	76.4	169.0	10,900*	70
	80	66.4	170.3	11,900	69.5	168.7	12,400	72.8	164.6	10,700*	80
	90	62.9	165.2	10,000	65.9	163.7	10,300	69.2	159.4	10,600*	90
	100	59.2	159.4	8,400	62.2	157.8	8,700	65.4	153.3	9,100	100
	110	55.4	152.7	7,200	58.4	151.0	7,400	61.4	146.3	7,700	110
	120	51.4	145.0	6,100	54.3	143.2	6,400	57.2	138.2	6,600	120
	130	47.2	136.0	5,300	50.0	134.1	5,500	52.7	128.7	5,700	130
	140	42.6	125.5	4,500	45.4	123.4	4,700	47.8	117.6	4,900	140
	150	37.5	113.1	3,900	40.2	110.8	4,000				150
	160	31.8	98.0	3,300	34.4	95.2	3,400				160
140	40	80.3	193.5	15,000*							40
	45	78.8	192.5	15,000*							45
	50	77.2	191.3	15,000*	80.2	189.9	15,000*				50
	55	75.7	190.0	15,000*	78.7	188.6	15,000*				55
	60	74.1	188.6	15,000*	77.1	187.1	15,000*	80.4	183.1	10,600*	60
	65	72.5	187.0	15,000*	75.5	185.5	15,000*	78.8	181.4	10,500*	65
	70	70.9	185.2	14,300	73.9	183.7	14,900	77.2	179.6	10,400*	70
	80	67.7	181.2	11,700	70.7	179.7	12,200	73.8	175.5	10,300*	80
	90	64.4	176.5	9,700	67.3	175.0	10,100	70.4	170.6	10,100*	90
	100	61.0	171.1	8,200	63.9	169.5	8,500	66.9	165.0	8,900	100
	110	57.5	164.9	6,900	60.3	163.2	7,200	63.2	158.5	7,600	110
	120	53.8	157.7	5,900	56.6	156.0	6,100	59.4	151.1	6,400	120
	130	49.9	149.6	5,000	52.7	147.7	5,200	55.3	142.5	5,500	130
	140	45.8	140.1	4,300	48.5	138.2	4,500	51.0	132.6	4,700	140
	150	41.4	129.2	3,600	44.0	127.0	3,800	46.2	120.9	4,000	150
	160	36.5	116.3	3,100	39.0	113.9	3,200				160

Rated capacity charts for a specific crane can be purchased from an authorized Manitowoc Distributor.

**MANITOWOC ENGINEERING CO.**

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

**LIFT CRANE JIB CAPACITIES**MEETS
ANSI B30.5
REQUIREMENTS**M-65W**

NO. 130 WITH 12' STRUT ON
BOOM NO. 46
42,000 LB. COUNTERWEIGHT
22" 4" CRAWLERS EXTENDED
360 DEGREE RATING

50 FOOT JIB

BOOM LGTH. FEET	JIB OPER. RAD. FEET	3 DEGREE OFFSET			15 DEGREE OFFSET			30 DEGREE OFFSET			JIB OPER. RAD. FEET
		BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	
150	40	80.8	203.7	15,000*							40
	45	79.3	202.7	15,000*							45
	50	77.9	201.6	15,000*	80.7	200.2	14,500*				50
	55	76.4	200.4	15,000*	79.2	198.9	14,400*				55
	60	74.9	199.0	15,000*	77.8	197.5	14,400*	80.9	193.5	10,200*	60
	65	73.4	197.5	15,000*	76.3	196.0	14,400*	79.4	191.9	10,100*	65
	70	71.9	195.8	14,100	74.8	194.3	14,400*	77.9	190.2	10,000*	70
	80	68.9	192.0	11,500	71.7	190.5	12,100	74.7	186.3	9,900*	80
	90	65.8	187.6	9,500	68.5	186.1	10,000	71.5	181.7	9,700*	90
	100	62.6	182.6	8,000	65.3	181.0	8,400	68.2	176.5	8,800	100
	110	59.3	176.8	6,700	62.0	175.1	7,100	64.8	170.5	7,400	110
	120	55.9	170.1	5,700	58.6	168.4	6,000	61.2	163.6	6,300	120
	130	52.3	162.6	4,800	54.9	160.8	5,100	57.5	155.7	5,300	130
	140	48.6	154.0	4,100	51.2	152.1	4,300	53.6	146.7	4,500	140
	150	44.6	144.2	3,500	47.1	142.1	3,600	49.4	136.3	3,800	150
	160				42.7	130.6	3,100				160
160	45	79.8	212.9	13,900*							45
	50	78.4	211.9	13,800*							50
	55	77.1	210.7	13,700*	79.8	209.2	13,100*				55
	60	75.7	209.4	13,600*	78.4	207.9	13,000*				60
	65	74.2	208.0	13,500*	76.9	206.4	13,000*	79.9	202.3	9,700*	65
	70	72.8	206.4	13,400*	75.5	204.9	12,900*	78.5	200.7	9,600*	70
	80	69.9	202.8	11,300	72.6	201.3	11,900	75.5	197.0	9,500*	80
	90	67.0	198.7	9,300	69.6	197.1	9,800	72.5	192.7	9,400*	90
	100	64.0	193.9	7,800	66.6	192.2	8,200	69.4	187.8	8,600	100
	110	60.9	188.4	6,500	63.5	186.7	6,900	66.2	182.1	7,300	110
	120	57.7	182.2	5,500	60.3	180.5	5,800	62.9	175.7	6,100	120
	130	54.4	175.2	4,600	56.9	173.4	4,900	59.4	168.5	5,200	130
	140	51.0	167.3	3,900	53.4	165.4	4,100	55.8	160.2	4,400	140
	150	47.3	158.4	3,200	49.7	156.4	3,500	52.0	150.8	3,700	150
	160							47.9	140.0	3,000	160
170	45	80.3	223.1	12,500*							45
	50	79.0	222.1	12,400*							50
	55	77.7	221.0	12,300*	80.3	219.5	11,700*				55
	60	76.3	219.8	12,200*	78.9	218.2	11,700*				60
	65	75.0	218.4	12,100*	77.6	216.9	11,600*	80.4	212.7	9,300*	65
	70	73.6	216.9	12,000*	76.2	215.3	11,500*	79.0	211.1	9,300*	70
	80	70.9	213.5	11,100	73.4	211.9	11,400*	76.2	207.6	9,200*	80
	90	68.1	209.5	9,100	70.6	208.0	9,600	73.4	203.6	9,000*	90
	100	65.3	205.0	7,500	67.8	203.4	8,000	70.4	198.9	8,500	100
	110	62.4	199.9	6,300	64.8	198.2	6,700	67.4	193.6	7,100	110
	120	59.4	194.1	5,200	61.8	192.4	5,600	64.3	187.6	5,900	120
	130	56.3	187.6	4,400	58.7	185.8	4,700	61.1	180.8	5,000	130
	140	53.1	180.2	3,600	55.4	178.3	3,900	57.8	173.2	4,200	140
	150	49.7	171.9	3,000	52.0	170.0	3,200	54.3	164.5	3,500	150
	160										160
180	45	80.7	233.3	11,200*							45
	50	79.5	232.3	11,100*							50
	55	78.2	231.3	11,000*	80.7	229.7	10,500*				55
	60	76.9	230.1	10,900*	79.4	228.5	10,500*				60
	65	75.6	228.8	10,800*	78.1	227.2	10,400*	80.9	223.0	9,000*	65
	70	74.4	227.3	10,700*	76.8	225.8	10,300*	79.5	221.5	8,900*	70
	80	71.8	224.1	10,500*	74.2	222.5	10,200*	76.9	218.2	8,800*	80
	90	69.1	220.4	8,900	71.5	218.8	9,500	74.1	214.4	8,700*	90
	100	66.4	216.1	7,300	68.8	214.4	7,800	71.4	210.0	8,300	100
	110	63.7	211.2	6,100	66.0	209.5	6,500	68.5	204.9	7,000	110
	120	60.8	205.7	5,100	63.2	204.0	5,400	65.6	199.3	5,800	120
	130	57.9	199.6	4,200	60.3	197.8	4,500	62.6	192.9	4,800	130
	140	54.9	192.7	3,400	57.2	190.9	3,700	59.5	185.8	4,000	140
	150				54.1	183.1	3,100	56.2	177.8	3,300	150
	160										160

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.

**MANITOWOC ENGINEERING CO.**

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

**LIFTCRANE JIB CAPACITIES**MEETS
ANSI B30.5
REQUIREMENTS**M-65W**

JIB NO. 130 WITH 12' STRUT ON
BOOM NO. 46
42,000 LB. COUNTERWEIGHT
22'4" CRAWLERS EXTENDED
360 DEGREE RATING

60 FOOT JIB

BOOM LGTH. FEET	JIB OPER. RAD. FEET	3 DEGREE OFFSET			15 DEGREE OFFSET			30 DEGREE OFFSET			JIB OPER. RAD. FEET
		BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	
70	30	80.1	134.4	15,000*							30
	35	77.9	133.3	15,000*							35
	40	75.6	132.0	15,000*	81.0	130.8	15,000*				40
	45	73.3	130.4	15,000*	78.6	129.3	15,000*				45
	50	71.0	128.7	15,000*	76.3	127.5	14,800*				50
	55	68.7	126.7	14,800*	73.9	125.5	14,500*	80.0	121.9	10,600*	55
	60	66.3	124.5	14,400*	71.5	123.2	14,200*	77.5	119.6	10,000*	60
	65	63.9	122.0	14,000*	69.1	120.7	13,700*	74.9	117.0	9,500*	65
	70	61.4	119.2	13,600*	66.5	117.9	12,800*	72.3	114.1	9,000*	70
	80	56.2	112.8	13,000*	61.3	111.4	11,300*	66.9	107.3	8,200*	80
	90	50.6	104.9	11,300*	55.7	103.4	10,100*	61.0	99.0	7,500*	90
	100	44.6	95.3	9,800*	49.5	93.6	9,200*	54.5	88.7	7,000*	100
80	110	37.7	83.2	8,500*	42.5	81.3	8,400*	47.0	75.5	6,600*	110
	120	29.5	67.2	7,500*	34.0	64.8	7,600*				120
	30	80.8	144.6	15,000*							30
	35	78.7	143.6	15,000*							35
	40	76.7	142.3	15,000*							40
	45	74.6	140.9	15,000*	79.5	139.7	15,000*				45
	50	72.4	139.3	15,000*	77.3	138.1	14,800*				50
	55	70.3	137.5	14,900*	75.2	136.2	14,500*	80.7	132.5	9,100*	55
	60	68.1	135.4	14,500*	73.0	134.1	14,300*	78.5	130.4	8,900*	60
	65	65.8	133.2	14,100*	70.7	131.8	14,000*	76.1	128.0	8,700*	65
	70	63.6	130.6	13,800*	68.4	129.3	13,500*	73.8	125.4	8,500*	70
	80	58.9	124.8	13,000*	63.7	123.4	12,000*	68.9	119.3	8,200*	80
90	90	53.9	117.8	11,100*	58.6	116.3	10,700*	63.7	111.9	7,800*	90
	100	48.6	109.4	9,500*	53.3	107.7	9,700*	58.0	102.9	7,300*	100
	110	42.8	99.1	8,300*	47.4	97.3	8,500*	51.8	91.9	6,800*	110
	120	36.3	86.4	7,200*	40.6	84.3	7,400*				120
	130	28.3	69.6	6,400*	32.5	67.0	6,500*				130
	35	79.5	153.8	15,000*							35
	40	77.6	152.7	15,000*							40
	45	75.6	151.3	15,000*	80.2	150.1	15,000*				45
	50	73.6	149.8	15,000*	78.2	148.5	14,800*				50
	55	71.6	148.1	14,900*	76.2	146.8	14,500*				55
	60	69.6	146.3	14,500*	74.2	144.9	14,300*	79.3	141.0	9,300*	60
	65	67.6	144.2	14,200*	72.1	142.8	14,000*	77.2	138.8	9,100*	65
100	70	65.5	141.8	13,900*	70.0	140.5	13,800*	75.0	136.4	8,900*	70
	80	61.2	136.5	12,800*	65.6	135.1	12,500*	70.5	130.9	8,600*	80
	90	56.7	130.2	10,900*	61.1	128.7	11,200*	65.8	124.2	8,100*	90
	100	52.0	122.6	9,300*	56.3	121.0	9,600*	60.8	116.3	7,500*	100
	110	46.9	113.6	8,100*	51.1	111.9	8,300*	55.4	106.7	7,100*	110
	120	41.3	102.8	7,100*	45.5	100.9	7,200*	49.4	95.0	6,700*	120
	130	34.9	89.4	6,200*	39.0	87.2	6,300*				130
	140	27.3	72.0	5,500*	31.1	69.1	5,600*				140
	35	80.2	164.0	15,000*							35
	40	78.3	162.9	15,000*							40
	45	76.5	161.7	15,000*	80.8	160.4	14,900*				45
	50	74.7	160.3	15,000*	79.0	159.0	14,700*				50
110	55	72.8	158.7	14,800*	77.1	157.4	14,500*				55
	60	70.9	157.0	14,500*	75.2	155.6	14,200*	80.0	151.5	9,800*	60
	65	69.0	155.0	14,200*	73.3	153.6	14,000*	78.1	149.5	9,600*	65
	70	67.1	152.9	13,900*	71.3	151.5	13,800*	76.1	147.3	9,500*	70
	80	63.1	148.0	12,600*	67.3	146.5	13,000*	71.9	142.2	9,000*	80
	90	59.0	142.1	10,600*	63.2	140.6	11,000*	67.7	136.1	8,300*	90
	100	54.7	135.3	9,100*	58.8	133.7	9,400*	63.1	128.9	7,800*	100
	110	50.2	127.3	7,900*	54.2	125.5	8,100*	58.3	120.5	7,300*	110
	120	45.3	117.8	6,800*	49.2	115.9	7,000*	53.1	110.3	6,900*	120
	130	39.9	106.4	6,000*	43.8	104.3	6,100*	47.3	98.0	6,300*	130
	140	33.8	92.4	5,200*	37.5	90.0	5,400*				140
	150	26.4	74.2	4,600*							150

Laminated capacity charts for a specific crane can be purchased from
an authorized Manitowoc Distributor.

**MANITOWOC ENGINEERING CO.**

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

**LIFT CRANE JIB CAPACITIES**MEETS
ANSI B30.5
REQUIREMENTS**M-65W**

NO. 130 WITH 12' STRUT ON
BOOM NO. 46
42,000 LB. COUNTERWEIGHT
22'4" CRAWLERS EXTENDED
360 DEGREE RATING

60 FOOT JIB

BOOM LGTH. FEET	JIB OPER. RAD. FEET	3 DEGREE OFFSET			15 DEGREE OFFSET			30 DEGREE OFFSET			JIB OPER. RAD. FEET
		BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	
110	35	80.7	174.2	15,000*							35
	40	79.0	173.2	15,000*							40
	45	77.3	172.0	15,000*							45
	50	75.6	170.7	15,000*	79.7	169.3	14,500*				50
	55	73.9	169.2	14,700*	77.9	167.8	14,300*				55
	60	72.1	167.6	14,400*	76.1	166.2	14,100*	80.7	162.0	10,200*	60
	65	70.3	165.8	14,100*	74.3	164.3	13,900*	78.8	160.1	10,100*	65
	70	68.5	163.8	13,900*	72.5	162.3	13,700*	77.0	158.1	9,900*	70
	80	64.8	159.2	12,400	68.8	157.7	12,800	73.2	153.3	9,200*	80
	90	61.0	153.8	10,400	65.0	152.3	10,800	69.2	147.7	8,500*	90
	100	57.1	147.6	8,800	61.0	145.9	9,200	65.1	141.2	8,000*	100
	110	52.9	140.2	7,600	56.8	138.5	7,900	60.7	133.5	7,500*	110
	120	48.6	131.7	6,600	52.3	129.9	6,800	56.1	124.5	7,100	120
	130	43.8	121.7	5,700	47.5	119.7	5,900	51.0	113.8	6,100	130
	140	38.6	109.8	5,000	42.2	107.6	5,100	45.4	101.0	5,300	140
	150	32.7	95.3	4,300	36.2	92.7	4,500				150
	160	25.6	76.4	3,800							160
120	40	79.7	183.4	15,000*							40
	45	78.0	182.3	15,000*							45
	50	76.4	181.1	14,900*	80.2	179.6	14,300*				50
	55	74.8	179.7	14,600*	78.6	178.2	14,200*				55
	60	73.1	178.1	14,300*	76.9	176.7	14,000*				60
	65	71.4	176.4	14,000*	75.2	175.0	13,800*	79.5	170.7	9,900*	65
	70	69.8	174.6	13,800*	73.5	173.1	13,600*	77.8	168.7	9,800*	70
	80	66.3	170.3	12,200	70.1	168.8	12,700	74.2	164.3	9,400*	80
	90	62.8	165.3	10,200	66.5	163.7	10,600	70.5	159.1	8,700*	90
	100	59.1	159.5	8,600	62.8	157.9	9,000	66.7	153.1	8,200*	100
	110	55.3	152.8	7,400	59.0	151.1	7,700	62.7	146.1	7,700*	110
	120	51.3	145.0	6,400	54.9	143.2	6,600	58.5	137.9	6,900	120
	130	47.1	136.0	5,500	50.6	134.1	5,700	54.1	128.4	6,000	130
	140	42.5	125.6	4,800	46.0	123.5	5,000	49.2	117.2	5,200	140
	150	37.5	113.1	4,100	40.8	110.8	4,300				150
	160	31.7	98.0	3,600	34.9	95.3	3,700				160
	170	24.8	78.5	3,100							170
130	40	80.2	193.6	15,000*							40
	45	78.7	192.6	14,900*							45
	50	77.1	191.4	14,600*	80.8	189.9	14,100*				50
	55	75.6	190.1	14,400*	79.2	188.6	13,900*				55
	60	74.0	188.6	14,100*	77.6	187.1	13,800*				60
	65	72.5	187.0	13,900*	76.1	185.5	13,600*	80.1	181.2	9,400*	65
	70	70.9	185.2	13,600*	74.5	183.7	13,500*	78.5	179.3	9,300*	70
	80	67.6	181.2	12,000	71.2	179.7	12,500	75.1	175.2	9,100*	80
	90	64.3	176.6	10,000	67.9	175.0	10,500	71.7	170.4	8,900*	90
	100	60.9	171.1	8,400	64.4	169.5	8,800	68.2	164.7	8,400*	100
	110	57.4	164.9	7,200	60.9	163.2	7,500	64.5	158.2	7,900*	110
	120	53.7	157.8	6,200	57.1	155.0	6,500	60.6	150.8	6,800	120
	130	49.9	149.6	5,300	53.2	147.7	5,600	56.6	142.2	5,800	130
	140	45.7	140.2	4,600	49.1	138.2	4,800	52.2	132.2	5,000	140
	150	41.3	129.3	3,900	44.5	127.1	4,100	47.5	120.5	4,300	150
	160	36.4	116.4	3,400	39.6	113.9	3,500				160
	170				33.8	97.8	3,000				170

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MANITOWOC ENGINEERING CO.

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



LIFT CRANE JIB CAPACITIES

MEETS
ANSI B30.5
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M-65W

JIB NO. 130 WITH 12' STRUT ON
BOOM NO. 46
42,000 LB. COUNTERWEIGHT
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60 FOOT JIB

BOOM LGTH. FEET	JIB OPER. RAD. FEET	3 DEGREE OFFSET			15 DEGREE OFFSET			30 DEGREE OFFSET			JIB OPER. RAD. FEET
		BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	
140	40	80.7	203.8	14,000*							40
	45	79.2	202.8	13,900*							45
	50	77.8	201.7	13,800*							50
	55	76.3	200.4	13,700*	79.8	198.9	13,300*				55
	60	74.8	199.0	13,600*	78.3	197.5	13,300*				60
	65	73.4	197.5	13,500*	76.8	196.0	13,300*	80.6	191.6	9,000*	65
	70	71.9	195.9	13,400*	75.3	194.3	13,300*	79.1	189.9	8,900*	70
	80	68.8	192.1	11,700	72.2	190.5	12,300	75.9	186.0	8,700*	80
	90	65.7	187.7	9,700	69.1	186.1	10,300	72.7	181.4	8,600*	90
	100	62.5	182.6	8,200	65.8	181.0	8,600	69.4	176.2	8,400*	100
	110	59.2	176.8	6,900	62.5	175.1	7,300	66.0	170.1	7,700	110
	120	55.8	170.2	5,900	59.1	168.4	6,200	62.4	163.2	6,600	120
	130	52.2	162.7	5,000	55.5	160.8	5,300	58.7	155.3	5,600	130
	140	48.5	154.1	4,300	51.7	152.1	4,600	54.8	146.3	4,800	140
	150	44.5	144.2	3,700	47.6	142.1	3,900	50.5	135.9	4,100	150
	160	40.2	132.9	3,100	43.2	130.6	3,300	45.9	123.7	3,500	160
150	45	79.8	213.0	12,800*							45
	50	78.4	211.9	12,700*							50
	55	77.0	210.7	12,600*	80.3	209.2	12,200*				55
	60	75.6	209.4	12,600*	78.9	207.9	12,200*				60
	65	74.2	208.0	12,500*	77.4	206.5	12,200*				65
	70	72.7	206.4	12,400*	76.0	204.9	12,100*	79.6	200.3	8,500*	70
	80	69.9	202.8	11,500	73.1	201.3	12,100*	76.7	196.7	8,400*	80
	90	66.9	198.7	9,600	70.1	197.1	10,100	73.6	192.4	8,200*	90
	100	63.9	193.9	8,000	67.1	192.3	8,500	70.5	187.4	8,100*	100
	110	60.8	188.5	6,800	64.0	186.8	7,200	67.3	181.8	7,600	110
	120	57.7	182.3	5,700	60.8	180.5	6,100	64.0	175.3	6,500	120
	130	54.3	175.3	4,900	57.4	173.5	5,200	60.6	168.1	5,500	130
	140	50.9	167.4	4,100	53.9	165.5	4,400	56.9	159.8	4,700	140
	150	47.2	158.4	3,500	50.2	156.4	3,700	53.1	150.3	4,000	150
	160				46.3	146.0	3,100	49.0	139.5	3,300	160
160	45	80.2	223.2	11,800*							45
	50	78.9	222.2	11,700*							50
	55	77.6	221.0	11,600*	80.7	219.5	11,100*				55
	60	76.2	219.8	11,500*	79.4	218.2	11,100*				60
	65	74.9	218.4	11,400*	78.0	216.9	11,100*				65
	70	73.6	216.9	11,400*	76.7	215.3	11,100*	80.1	210.8	8,200*	70
	80	70.8	213.5	11,200*	73.9	211.9	11,000*	77.3	207.3	8,000*	80
	90	68.0	209.6	9,300	71.1	208.0	9,900	74.5	203.2	7,900*	90
	100	65.2	205.1	7,800	68.2	203.4	8,300	71.5	198.5	7,800*	100
	110	62.3	199.9	6,500	65.3	198.2	7,000	68.5	193.2	7,500	110
	120	59.3	194.1	5,500	62.3	192.4	5,900	65.4	187.2	6,300	120
	130	56.2	187.6	4,600	59.2	185.8	5,000	62.2	180.4	5,300	130
	140	53.0	180.2	3,900	55.9	178.3	4,200	58.8	172.8	4,500	140
	150	49.6	172.0	3,300	52.5	170.0	3,500	55.3	164.1	3,800	150
	160				48.9	160.5	3,000	51.6	154.2	3,200	160
170	45	80.7	233.3	10,700*							45
	50	79.4	232.4	10,600*							50
	55	78.1	231.3	10,600*							55
	60	76.9	230.1	10,500*	79.9	228.5	10,100*				60
	65	75.6	228.8	10,400*	78.6	227.2	10,100*				65
	70	74.3	227.4	10,300*	77.3	225.8	10,000*	80.6	221.2	7,900*	70
	80	71.7	224.1	10,100*	74.6	222.5	9,900*	77.9	217.8	7,800*	80
	90	69.0	220.4	9,100	72.0	218.8	9,700	75.2	214.0	7,700*	90
	100	66.3	216.1	7,600	69.3	214.4	8,100	72.4	209.6	7,600*	100
	110	63.6	211.3	6,300	66.5	209.5	6,800	69.6	204.5	7,300	110
	120	60.8	205.8	5,300	63.6	204.0	5,700	66.7	198.9	6,100	120
	130	57.9	199.6	4,400	60.7	197.8	4,800	63.6	192.5	5,200	130
	140	54.9	192.8	3,700	57.7	190.9	4,000	60.5	185.3	4,300	140
	150	51.7	185.1	3,000	54.5	183.1	3,300	57.3	177.3	3,600	150
	160							53.8	168.3	3,000	160

Indicated capacity charts for a specific crane can be purchased from an authorized Manitowoc Distributor.



**MANITOWOC ENGINEERING CO.**

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

**LIFTCRANE JIB CAPACITIES**

JIB NO. 130 WITH 12' STRUT ON
BOOM NO. 46
35,000 LB. COUNTERWEIGHT
22'4" CRAWLERS EXTENDED
360 DEGREE RATING

MEETS
ANSI B30.5
THIS CAPACITY CHART IS FOR REVIEW ONLY
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

**M-65W
X-SPANDER**

CHART SUPPLEMENTS BOOM CAPACITY CHART NO. 7522-B. CAPACITIES FOR VARIOUS BOOM LENGTHS, JIB LENGTHS AND JIB 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 (*).

SWITCH X-SPANDER MODE SELECTOR ON/X-SPANDER TO OPERATE. X-SPANDER EXTENDED CAPACITY COLUMNS REQUIRE X-SPANDER BEAM EXTENDED TO LENGTH SHOWN. DO NOT ALLOW REAR LEG TO CONTACT GROUND WHILE TRAVELING OR SWINGING. X-SPANDERS REQUIRE COUNTERWEIGHT FULLY EXTENDED BEFORE RATED LOAD CAN BE OBTAINED. X-SPANDER RETRACTED CAPACITY COLUMN REQUIRES COUNTERWEIGHT PINNED TO MACHINE, BEAM RETRACTED AND X-SPANDER MODE OFF/STANDARD CRANE. NON-EPIC X-SPANDERS REQUIRE COUNTERWEIGHT TO BE FULLY EXTENDED BEFORE LIFTING LOAD. BOOMING DOWN ON NON-EPIC IS NOT ALLOWED WITH X-SPANDER EXTENDED CAPACITIES UNLESS COUNTERWEIGHT IS FULLY EXTENDED. WITH EPIC X-SPANDERS, HOISTING OR BOOMING IS NOT ALLOWED WHEN COUNTERWEIGHT IS MOVING ON X-SPANDER BEAM.

WEIGHT OF ALL LOAD BLOCKS, HOOKS, WEIGHT BALL, SLINGS, HOIST LINES, ETC., BENEATH BOOM AND JIB POINT SHEAVES, IS CONSIDERED PART OF JIB LOAD. BOOM AND JIB ARE 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 (16'8-1/2") AND GANTRY UP. REFER TO BOOM RIGGING NO. 168744, JIB ASSEMBLY NO. 168267, WIRE ROPE SPECIFICATION CHART NO. 7523-A AND X-SPANDER GENERAL ARRANGEMENT NO. 169711 FOR ATTACHMENT AND EXTEND PROCEDURE. 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 LIFTED LOAD AND OTHER CONSIDERATIONS NOTED ON 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 LOWERING BOOM TO GROUND WHEN WIND IS ABOVE 35 MPH.

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

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

MACHINE EQUIPPED WITH X-SPANDER, 22'4" EXTENDIBLE CRAWLERS, 36" TREADS, 17' RETRACTABLE GANTRY, 12 PART BOOM HOIST REEVING, TWO 1-1/4" BOOM PENDANTS AND 35,000 LB. COUNTERWEIGHT.

MAXIMUM CAPACITY ON 3/4" - 6 X 25 EIPS, IWRC IS 15,000 LBS.

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED			
OVER END OF BLOCKED CRAWLERS		OVER SIDE OF EXTENDED CRAWLERS	
BOOM LGTH.	JIB NO. 130	BOOM LGTH.	JIB NO. 130
190'	---	190'	---
180'	50'	180'	---
170'	60'	170'	40'
		160'	60'
LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START.			

30 FT. JIB, 3 DEGREE OFFSET

BOOM LGTH. FEET	JIB OPER. RAD. FEET	BOOM ANG. DEG.	JIB POINT ELEV. FEET	X-SPANDER RETRACTED CAPACITY POUNDS	X-SPANDER EXTENDED 7'8" CAPACITY POUNDS	X-SPANDER EXTENDED 15' CAPACITY POUNDS	BOOM LGTH. FEET	JIB OPER. RAD. FEET	BOOM ANG. DEG.	JIB POINT ELEV. FEET	X-SPANDER RETRACTED CAPACITY POUNDS	X-SPANDER EXTENDED 7'8" CAPACITY POUNDS	X-SPANDER EXTENDED 15' CAPACITY POUNDS
70	25	79.2	104.8	15,000*			80	25	80.2	115.0	15,000*		
	30	76.3	103.6	15,000*				30	77.6	113.9	15,000*		
	35	73.4	102.1	15,000*				35	74.9	112.6	15,000*		
	40	70.4	100.4	15,000*				40	72.2	111.0	15,000*		
	45	67.3	98.3	15,000*				45	69.5	109.2	15,000*		
	50	64.2	96.0	15,000*				50	66.7	107.1	15,000*		
	55	61.0	93.2	15,000*	15,000*	15,000*		55	63.8	104.6	15,000*	15,000*	15,000*
	60	57.7	90.1	15,000*	15,000*	15,000*		60	60.9	101.9	15,000*	15,000*	15,000*
	65	54.2	86.6	15,000*	15,000*	15,000*		65	57.9	98.8	15,000*	15,000*	15,000*
	70	50.6	82.5	15,000*	15,000*	15,000*		70	54.7	95.3	15,000*	15,000*	15,000*
100	80	42.6	72.7	13,000	15,000*	15,000*	100	80	48.0	87.0	12,800	15,000*	15,000*
	90	33.1	59.2	11,100	14,000	15,000*		90	40.5	76.3	10,800	13,800	15,000*
	100	19.8	38.0	9,600	12,200	12,700*		100	31.5	62.0	9,300	11,900	14,200

**MANITOWOC ENGINEERING CO.**

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

**LIFTCRANE JIB CAPACITIES**MEETS
ANSI B30.5
REQUIREMENTS**M-65W**

JIB. NO. 130 WITH 12' STRUT ON

BOOM NO. 46

35,000 LB. COUNTERWEIGHT

22'4" CRAWLERS EXTENDED

360 DEGREE RATING

WITH X-SPANDER

30 FOOT JIB, 3 DEGREE OFFSET

BOOM LGTH. FEET	JIB OPER. RAD. FEET	BOOM ANG. DEG.	JIB POINT ELEV. FEET	X-SPANDER RETRACTED CAPACITY POUNDS	X-SPANDER EXTENDED 7'8" CAPACITY POUNDS	X-SPANDER EXTENDED 15' CAPACITY POUNDS	BOOM LGTH. FEET	JIB OPER. RAD. FEET	BOOM ANG. DEG.	JIB POINT ELEV. FEET	X-SPANDER RETRACTED CAPACITY POUNDS	X-SPANDER EXTENDED 7'8" CAPACITY POUNDS	X-SPANDER EXTENDED 15' CAPACITY POUNDS
160	40	79.8	193.6	15,000*			180	40	80.8	213.9	15,000*		
	45	78.3	192.6	15,000*				45	79.4	213.0	15,000*		
	50	76.7	191.4	15,000*				50	78.0	211.9	15,000*		
	55	75.2	190.1	15,000*	15,000*	15,000*		55	76.6	210.8	14,000*	14,000*	14,000*
	60	73.6	188.6	15,000*	15,000*	15,000*		60	75.2	209.4	13,800*	13,800*	13,800*
	65	72.0	187.0	15,000*	15,000*	15,000*		65	73.8	208.0	13,600*	13,600*	13,600*
	70	70.5	185.2	13,700	15,000*	15,000*		70	72.4	206.4	13,300	13,500*	13,500*
	80	67.2	181.2	11,100	14,400	15,000*		80	69.5	202.9	10,700	13,200*	13,200*
	90	63.9	176.6	9,100	12,100	14,700		90	66.6	198.7	8,700	11,600*	12,900*
	100	60.5	171.2	7,600	10,200	12,500		100	63.6	193.9	7,200	9,800	12,100
	110	57.0	164.9	6,300	8,700	10,800		110	60.5	188.5	5,900	8,300	10,400
	120	53.3	157.8	5,300	7,500	9,400		120	57.3	182.3	4,900	7,000	9,000
	130	49.4	149.6	4,500	6,400	8,200		130	54.0	175.3	4,000	6,000	7,700*
	140	45.3	140.2	3,700	5,600	7,000*		140	50.5	167.4	3,300	5,100	6,400*
170	150	40.9	129.3	3,100	4,800	6,000*		150	46.9	158.4		4,400	5,400*
	160	36.0	116.4		4,100	5,100*		160	43.0	148.2		3,700	4,400*
	170	30.4	100.7		3,600	4,200*		170	38.8	136.4		3,100	3,600*
	180	23.7	80.6		3,000	3,100*							
	40	80.3	203.8	15,000*			170	40	80.3	203.8	15,000*		
	45	78.9	202.8	15,000*				45	78.9	202.8	15,000*		
	50	77.4	201.7	15,000*				50	77.4	201.7	15,000*		
	55	75.9	200.4	15,000*	15,000*	15,000*		55	75.9	200.4	15,000*	15,000*	15,000*
	60	74.5	199.1	15,000*	15,000*	15,000*		60	74.5	199.1	15,000*	15,000*	15,000*
	65	73.0	197.5	15,000*	15,000*	15,000*		65	73.0	197.5	15,000*	15,000*	15,000*
	70	71.5	195.9	13,400	15,000*	15,000*		70	71.5	195.9	13,400	15,000*	15,000*
	80	68.4	192.1	10,800	14,200	15,000*		80	68.4	192.1	10,800	14,200	15,000*
	90	65.3	187.7	8,900	11,800	14,400		90	65.3	187.7	8,900	11,800	14,400
	100	62.1	182.6	7,300	10,000	12,300		100	62.1	182.6	7,300	10,000	12,300
	110	58.8	176.8	6,100	8,500	10,600		110	58.8	176.8	6,100	8,500	10,600
	120	55.4	170.2	5,100	7,200	9,100		120	55.4	170.2	5,100	7,200	9,100
	130	51.9	162.7	4,200	6,200	7,900		130	51.9	162.7	4,200	6,200	7,900
	140	48.1	154.1	3,500	5,300	6,700*		140	48.1	154.1	3,500	5,300	6,700*
	150	44.1	144.3		4,500	5,600*		150	44.1	144.3		4,500	5,600*
	160	39.8	132.9		3,900	4,700*		160	39.8	132.9		3,900	4,700*
	170	35.1	119.5		3,300	3,900*		170	35.1	119.5		3,300	3,900*
	180	29.6	103.4			3,100*		180	29.6	103.4			3,100*

**MANITOWOC ENGINEERING CO.**

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

**LIFT CRANE JIB CAPACITIES**MEETS
ANSI B30.5
REQUIREMENTS**M-65W**

JIB, NO. 130 WITH 12' STRUT ON

BOOM NO. 46

35,000 LB. COUNTERWEIGHT

22'4" CRAWLERS EXTENDED

360 DEGREE RATING

WITH X-SPANDER**30 FOOT JIB, 15 DEGREE OFFSET**

BOOM LGTH. FEET	JIB OPER. RAD. FEET	BOOM ANG. DEG.	JIB POINT ELEV. FEET	X-SPANDER RETRACTED CAPACITY POUNDS	X-SPANDER EXTENDED 7'8" CAPACITY POUNDS	X-SPANDER EXTENDED 15' CAPACITY POUNDS	BOOM LGTH. FEET	JIB OPER. RAD. FEET	BOOM ANG. DEG.	JIB POINT ELEV. FEET	X-SPANDER RETRACTED CAPACITY POUNDS	X-SPANDER EXTENDED 7'8" CAPACITY POUNDS	X-SPANDER EXTENDED 15' CAPACITY POUNDS
160	45	80.1	191.6	15,000*			180	50	79.6	211.0	13,800*		
	50	78.5	190.4	15,000*				55	78.2	209.8	13,700*	13,700*	13,700*
	55	77.0	189.1	15,000*	15,000*	15,000*		60	76.8	208.5	13,500*	13,500*	13,500*
	60	75.4	187.6	15,000*	15,000*	15,000*		65	75.4	207.0	13,400*	13,400*	13,400*
	65	73.8	186.0	15,000*	15,000*	15,000*		70	74.0	205.4	13,200*	13,200*	13,200*
	70	72.2	184.2	14,100	15,000*	15,000*		80	71.1	201.8	11,100	12,900*	12,900*
	80	69.0	180.2	11,400	14,800	15,000*		90	68.1	197.7	9,000	12,000	12,700*
	90	65.6	175.5	9,400	12,400	15,000*		100	65.1	192.8	7,400	10,100	12,400
	100	62.2	170.1	7,800	10,500	12,800		110	62.0	187.4	6,200	8,500	10,600
	110	58.7	163.8	6,500	8,900	11,000		120	58.8	181.1	5,100	7,300	9,200
	120	55.0	156.6	5,500	7,700	9,600		130	55.5	174.1	4,200	6,200	7,900
	130	51.1	148.4	4,600	6,600	8,400		140	52.0	166.1	3,500	5,300	6,700*
	140	46.9	138.9	3,900	5,700	7,300*		150	48.3	157.1		4,500	5,600*
	150	42.4	127.8	3,200	4,900	6,100*		160	44.4	146.8		3,800	4,600*
170	160	37.5	114.8		4,200	5,200*		170	40.2	134.8		3,200	3,800*
	170	31.8	98.8		3,600	4,300*		180	35.6	120.8			3,100*
	45	80.6	201.8	15,000*									
	50	79.1	200.7	15,000*									
	55	77.6	199.5	15,000*	15,000*	15,000*							
	60	76.1	198.1	15,000*	15,000*	15,000*							
	65	74.7	196.5	15,000*	15,000*	15,000*							
	70	73.1	194.9	13,900	15,000*	15,000*							
	80	70.1	191.1	11,200	14,600	14,800*							
	90	67.0	186.6	9,200	12,100	14,500*							
	100	63.8	181.5	7,600	10,200	12,600							
	110	60.4	175.7	6,300	8,700	10,800							
	120	57.0	169.0	5,300	7,400	9,300							
	130	53.4	161.5	4,400	6,400	8,100							
	140	49.6	152.8	3,600	5,500	6,900*							
	150	45.6	142.9	3,000	4,700	5,800*							
	160	41.2	131.4		4,000	4,800*							
	170	36.4	117.8		3,400	4,000*							



MANITOWOC ENGINEERING CO.

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



LIFT CRANE JIB CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

M-65W

JIB NO. 130 WITH 12' STRUT ON

BOOM NO. 46

35,000 LB. COUNTERWEIGHT

22 1/4" CRAWLERS EXTENDED

360 DEGREE RATING

WITH X-SPANDER

30 FOOT JIB, 30 DEGREE OFFSET

BOOM LGTH. FEET	JIB OPER. RAD. FEET	BOOM ANG. DEG.	JIB POINT ELEV. FEET	X-SPANDER RETRACTED CAPACITY POUNDS	X-SPANDER EXTENDED 7'8" CAPACITY POUNDS	X-SPANDER EXTENDED 15' CAPACITY POUNDS
1 8 0	55	80.0	207.0	12,800*		
	60	78.6	205.7	12,700*	12,700*	12,700*
	65	77.1	204.2	12,600*	12,600*	12,600*
	70	75.7	202.6	12,500*	12,500*	12,500*
	80	72.8	199.0	11,500	12,300*	12,300*
	90	69.8	194.8	9,400	12,100*	12,100*
	100	66.7	189.9	7,700	10,400	11,900*
	110	63.5	184.3	6,400	8,800	10,900
	120	60.3	178.0	5,300	7,500	9,400
	130	56.9	170.8	4,400	6,400	8,100
	140	53.3	162.7	3,600	5,400	6,900*
	150	49.6	153.4		4,600	5,800*

**MANITOWOC ENGINEERING CO.**

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

**LIFT CRANE JIB CAPACITIES**MEETS
ANSI B30.5
REQUIREMENTS**M-65W**JIB NO. 130 WITH 12' STRUT ON
BOOM NO. 46

35,000 LB. COUNTERWEIGHT

22 1/4" CRAWLERS EXTENDED

360 DEGREE RATING

WITH X-SPANDER

40 FOOT JIB, 3 DEGREE OFFSET

BOOM LGTH. FEET	JIB OPER. RAD. FEET	BOOM ANG. DEG.	JIB POINT ELEV. FEET	X-SPANDER RETRACTED CAPACITY POUNDS	X-SPANDER EXTENDED 7'8" CAPACITY POUNDS	X-SPANDER EXTENDED 15' CAPACITY POUNDS
150	40	80.2	193.5	15,000*		
	45	78.6	192.5	15,000*		
	50	77.1	191.3	15,000*		
	55	75.5	190.0	15,000*	15,000*	15,000*
	60	74.0	188.6	15,000*	15,000*	15,000*
	65	72.4	187.0	15,000*	15,000*	15,000*
	70	70.8	185.2	14,000	15,000*	15,000*
	80	67.6	181.2	11,400	14,800	15,000*
	90	64.3	176.5	9,500	12,400	15,000*
	100	60.9	171.1	7,900	10,500	12,900
	110	57.4	164.9	6,700	9,000	11,100
	120	53.7	157.7	5,600	7,800	9,700
	130	49.8	149.6	4,800	6,800	8,500
	140	45.7	140.1	4,000	5,900	7,500
	150	41.2	129.2	3,400	5,100	6,400*
	160	36.4	116.3		4,400	5,500*
	170	30.8	100.6		3,900	4,600*
	180	24.0	80.5		3,300	3,500*
160	40	80.7	203.7	15,000*		
	45	79.2	202.7	15,000*		
	50	77.7	201.6	15,000*		
	55	76.3	200.4	15,000*	15,000*	15,000*
	60	74.8	199.0	15,000*	15,000*	15,000*
	65	73.3	197.5	15,000*	15,000*	15,000*
	70	71.8	195.8	13,800	15,000*	15,000*
	80	68.8	192.0	11,200	14,600	15,000*
	90	65.7	187.6	9,300	12,200	14,800
	100	62.5	182.6	7,700	10,300	12,600
	110	59.2	176.8	6,400	8,800	10,900
	120	55.8	170.1	5,400	7,600	9,500
	130	52.2	162.6	4,600	6,500	8,300
	140	48.4	154.0	3,800	5,700	7,200*
	150	44.5	144.2	3,200	4,900	6,100*
	160	40.1	132.8		4,200	5,200*
	170	35.4	119.4		3,600	4,400*
	180	30.0	103.3		3,100	3,600*
170	45	79.7	212.9	14,200*		
	50	78.3	211.9	14,100*		
	55	76.9	210.7	13,900*	13,900*	13,900*
	60	75.5	209.4	13,800*	13,800*	13,800*
	65	74.1	207.9	13,700*	13,700*	13,700*
	70	72.7	206.4	13,600*	13,600*	13,600*
	80	69.8	202.8	11,000	13,300*	13,300*
	90	66.9	198.6	9,000	12,000	13,100*
	100	63.9	193.9	7,500	10,100	12,400
	110	60.8	188.4	6,200	8,600	10,700
	120	57.6	182.2	5,200	7,300	9,200
	130	54.3	175.2	4,300	6,300	8,000
	140	50.8	167.3	3,600	5,400	6,800*
	150	47.2	158.4		4,600	5,800*
	160	43.3	148.1		4,000	4,800*
	170	39.1	136.3		3,400	4,000*
	180	34.5	122.5			3,300*

BOOM LGTH. FEET	JIB OPER. RAD. FEET	BOOM ANG. DEG.	JIB POINT ELEV. FEET	X-SPANDER RETRACTED CAPACITY POUNDS	X-SPANDER EXTENDED 7'8" CAPACITY POUNDS	X-SPANDER EXTENDED 15' CAPACITY POUNDS
180	45	80.2	223.1	12,600*		
	50	78.9	222.1	12,500*		
	55	77.5	221.0	12,400*		
	60	76.2	219.7	12,200*	12,400*	12,400*
	65	74.9	218.4	12,100*	12,200*	12,200*
	70	73.5	216.9	12,100*	12,100*	12,100*
	80	70.8	213.5	11,900*	11,900*	11,900*
	90	68.0	209.5	10,800	11,700*	11,700*
	100	65.2	205.0	8,800	11,500*	11,500*
	110	62.2	199.9	7,300	9,900	11,200*
	120	59.3	194.1	6,000	8,400	10,500
	130	56.2	187.5	5,000	7,100	9,100
	140	52.9	180.2	4,100	6,100	7,800*
	150	49.6	171.9	3,400	5,200	6,600*
	160	46.0	162.6		4,500	5,500*
	170	42.3	151.9		3,800	4,600*
	180	38.2	139.7		3,200	3,800*

**MANITOWOC ENGINEERING CO.**

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

**LIFTCRANE JIB CAPACITIES**MEETS
ANSI B30.5
REQUIREMENTS**M-65W**

JIB. NO. 130 WITH 12' STRUT ON

BOOM NO. 46

35,000 LB. COUNTERWEIGHT

22'4" CRAWLERS EXTENDED

360 DEGREE RATING

WITH X-SPANDER**40 FOOT JIB, 15 DEGREE OFFSET**

BOOM LGTH. FEET	JIB OPER. RAD. FEET	BOOM ANG. DEG.	JIB POINT ELEV. FEET	X-SPANDER RETRACTED CAPACITY POUNDS	X-SPANDER EXTENDED 7'8" CAPACITY POUNDS	X-SPANDER EXTENDED 15' CAPACITY POUNDS	BOOM LGTH. FEET	JIB OPER. RAD. FEET	BOOM ANG. DEG.	JIB POINT ELEV. FEET	X-SPANDER RETRACTED CAPACITY POUNDS	X-SPANDER EXTENDED 7'8" CAPACITY POUNDS	X-SPANDER EXTENDED 15' CAPACITY POUNDS
160	50	80.0	200.3	15,000*			180	50	80.9	220.8	12,000*		
	55	78.5	199.1	15,000*	15,000*	15,000*		55	79.6	219.7	11,900*		
	60	77.1	197.7	15,000*	15,000*	15,000*		60	78.3	218.4	11,800*	11,800*	11,800*
	65	75.6	196.1	14,900*	14,900*	14,900*		65	76.9	217.0	11,700*	11,700*	11,700*
	70	74.0	194.5	14,400*	14,800*	14,800*		70	75.6	215.5	11,600*	11,600*	11,600*
	80	71.0	190.7	11,700*	14,700*	14,700*		80	72.8	212.1	11,300*	11,400*	11,400*
	90	67.8	186.2	9,600*	12,600*	14,500*		90	70.0	208.1	9,300*	11,200*	11,200*
	100	64.6	181.1	8,000*	10,700*	13,000*		100	67.1	203.6	7,700*	10,300*	11,000*
	110	61.3	175.3	6,700*	9,100*	11,200*		110	64.2	198.4	6,400*	8,700*	10,800*
	120	57.9	168.6	5,700*	7,800*	9,700*		120	61.2	192.6	5,300*	7,400*	9,300*
	130	54.3	161.0	4,800*	6,800*	8,500*		130	58.1	186.0	4,400*	6,400*	8,100*
	140	50.5	152.3	4,000*	5,800*	7,500*		140	54.8	178.5	3,600*	5,400*	7,000*
170	150	46.4	142.3	3,300*	5,000*	6,400*		150	51.4	170.2		4,700*	5,800*
	160	42.1	130.8		4,400*	5,400*		160	47.8	160.7		4,000*	4,800*
	170	37.2	117.2		3,800*	4,600*		170	44.0	150.0		3,400*	4,000*
	50	80.5	210.6	13,500*				180	39.9	137.6			3,200*
	55	79.1	209.4	13,400*	13,400*	13,400*							
	60	77.7	208.1	13,300*	13,300*	13,300*							
	65	76.3	206.6	13,200*	13,200*	13,200*							
	70	74.8	205.0	13,100*	13,100*	13,100*							
	80	71.9	201.4	11,500*	12,900*	12,900*							
	90	69.0	197.2	9,400*	12,400*	12,700*							
	100	66.0	192.4	7,800*	10,400*	12,500*							
	110	62.8	186.9	6,500*	8,900*	11,000*							
	120	59.6	180.7	5,400*	7,600*	9,500*							
	130	56.3	173.6	4,500*	6,500*	8,300*							
	140	52.8	165.6	3,800*	5,600*	7,200*							
	150	49.1	156.6	3,100*	4,800*	6,000*							
	160	45.2	146.2		4,100*	5,100*							
	170	40.9	134.2		3,500*	4,200*							
	180	36.2	120.2		3,000*	3,500*							

**MANITOWOC ENGINEERING CO.**

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

**LIFT CRANE JIB CAPACITIES**MEETS
ANSI B30.5
REQUIREMENTS**M-65W**

JIB. NO. 130 WITH 12' STRUT ON

BOOM NO. 46

35,000 LB. COUNTERWEIGHT

22' 4" CRAWLERS EXTENDED

360 DEGREE RATING

WITH X-SPANDER**50 FOOT JIB, 3 DEGREE OFFSET**

BOOM LGTH. FEET	JIB OPER. RAD. FEET	BOOM ANG. DEG.	JIB POINT ELEV. FEET	X-SPANDER RETRACTED CAPACITY POUNDS	X-SPANDER EXTENDED 7' 8" CAPACITY POUNDS	X-SPANDER EXTENDED 15' CAPACITY POUNDS	BOOM LGTH. FEET	JIB OPER. RAD. FEET	BOOM ANG. DEG.	JIB POINT ELEV. FEET	X-SPANDER RETRACTED CAPACITY POUNDS	X-SPANDER EXTENDED 7' 8" CAPACITY POUNDS	X-SPANDER EXTENDED 15' CAPACITY POUNDS
150	40	80.8	203.7	15,000*			180	45	80.7	233.3	11,200*		
	45	79.3	202.7	15,000*				50	79.5	232.3	11,100*		
	50	77.9	201.6	15,000*				55	78.2	231.3	11,000*		
	55	76.4	200.4	15,000*	15,000*	15,000*		60	76.9	230.1	10,900*	10,900*	10,900*
	60	74.9	199.0	15,000*	15,000*	15,000*		65	75.6	228.8	10,800*	10,800*	10,800*
	65	73.4	197.5	15,000*	15,000*	15,000*		70	74.4	227.3	10,700*	10,700*	10,700*
	70	71.9	195.8	14,100	14,900*	14,900*		80	71.8	224.1	10,500*	10,500*	10,500*
	80	68.9	192.0	11,500	14,700*	14,700*		90	69.1	220.4	8,900	10,300*	10,300*
	90	65.8	187.6	9,500	12,500	14,500*		100	66.4	216.1	7,300	10,000	10,100*
	100	62.6	182.6	8,000	10,600	12,900		110	63.7	211.2	6,100	8,500	10,000*
	110	59.3	176.8	6,700	9,100	11,200		120	60.8	205.7	5,100	7,200	9,000*
	120	55.9	170.1	5,700	7,900	9,800		130	57.9	199.6	4,200	6,200	7,800*
	130	52.3	162.6	4,800	6,800	8,600		140	54.9	192.7	3,400	5,300	6,700*
	140	48.6	154.0	4,100	5,900	7,600		150	51.8	185.0		4,500	5,600*
	150	44.6	144.2	3,500	5,200	6,500*		160	48.5	176.4		3,900	4,700*
	160	40.3	132.8		4,500	5,600*		170	45.1	166.7		3,300	3,900*
	170	35.5	119.5		3,900	4,800*		180	41.4	155.7			3,100*
	180	30.1	103.3		3,400	4,000*							
	190	23.5	82.5			3,000*							
160	45	79.8	212.9	13,900*			170	45	80.3	223.1	12,500*		
	50	78.4	211.9	13,800*				50	79.0	222.1	12,400*		
	55	77.1	210.7	13,700*	13,700*	13,700*		55	77.7	221.0	12,300*	12,300*	12,300*
	60	75.7	209.4	13,600*	13,600*	13,600*		60	76.3	219.8	12,200*	12,200*	12,200*
	65	74.2	208.0	13,500*	13,500*	13,500*		65	75.0	218.4	12,100*	12,100*	12,100*
	70	72.8	206.4	13,400*	13,400*	13,400*		70	73.6	216.9	12,000*	12,000*	12,000*
	80	69.9	202.8	11,300	13,200*	13,200*		80	70.9	213.5	11,100	11,800*	11,800*
	90	67.0	198.7	9,300	12,300	13,100*		90	68.1	209.5	9,100	11,600*	11,600*
	100	64.0	193.9	7,800	10,400	12,700		100	65.3	205.0	7,500	10,200	11,500*
	110	60.9	188.4	6,500	8,900	11,000		110	62.4	199.9	6,300	8,600	10,700
	120	57.7	182.2	5,500	7,600	9,600		120	59.4	194.1	5,200	7,400	9,300
	130	54.4	175.2	4,600	6,600	8,400		130	56.3	187.6	4,400	6,400	8,100
170	140	51.0	167.3	3,900	5,700	7,300*		140	53.1	180.2	3,600	5,500	7,000*
	150	47.3	158.4	3,200	5,000	6,200*		150	49.7	171.9	3,000	4,700	5,900*
	160	43.4	148.1		4,300	5,300*		160	46.1	162.6		4,000	4,900*
	170	39.2	136.3		3,700	4,600*		170	42.4	151.9		3,500	4,100*
	180	34.6	122.5		3,200	3,800*		180	38.3	139.7			3,400*
	190	29.3	105.8			3,000*							

**MANITOWOC ENGINEERING CO.**

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

**LIFTCRANE JIB CAPACITIES**MEETS
ANSI B30.5
REQUIREMENTS**M-65W**

JIB. NO. 130 WITH 12' STRUT ON

BOOM NO. 46

35,000 LB. COUNTERWEIGHT

22'4" CRAWLERS EXTENDED

360 DEGREE RATING

WITH X-SPANDER**50 FOOT JIB, 15 DEGREE OFFSET**

BOOM LGTH. FEET	JIB OPER. RAD. FEET	BOOM ANG. DEG.	JIB POINT ELEV. FEET	X-SPANDER RETRACTED CAPACITY POUNDS	X-SPANDER EXTENDED 7'8" CAPACITY POUNDS	X-SPANDER EXTENDED 15' CAPACITY POUNDS	BOOM LGTH. FEET	JIB OPER. RAD. FEET	BOOM ANG. DEG.	JIB POINT ELEV. FEET	X-SPANDER RETRACTED CAPACITY POUNDS	X-SPANDER EXTENDED 7'8" CAPACITY POUNDS	X-SPANDER EXTENDED 15' CAPACITY POUNDS
160	55	79.8	209.2	13,100*			180	55	80.7	229.7	10,500*		
	60	78.4	207.9	13,000*	13,000*	13,000*		60	79.4	228.5	10,500*		
	65	76.9	206.4	13,000*	13,000*	13,000*		65	78.1	227.2	10,400*	10,400*	10,400*
	70	75.5	204.9	12,900*	12,900*	12,900*		70	76.8	225.8	10,300*	10,300*	10,300*
	80	72.6	201.3	11,900	12,800*	12,800*		80	74.2	222.5	10,200*	10,200*	10,200*
	90	69.6	197.1	9,800	12,700*	12,700*		90	71.5	218.8	9,500	10,000*	10,000*
	100	66.6	192.2	8,200	10,800	12,700*		100	68.8	214.4	7,800	9,900*	9,900*
	110	63.5	186.7	6,900	9,300	11,300		110	66.0	209.5	6,500	8,900	9,800*
	120	60.3	180.5	5,800	8,000	9,900*		120	63.2	204.0	5,400	7,600	9,400*
	130	56.9	173.4	4,900	6,900	8,600*		130	60.3	197.8	4,500	6,500	8,100*
	140	53.4	165.4	4,100	6,000	7,600		140	57.2	190.9	3,700	5,600	7,000*
	150	49.7	156.4	3,500	5,200	6,600*		150	54.1	183.1	3,100	4,800	6,000*
170	160	45.8	146.0		4,500	5,600*		160	50.8	174.4		4,100	5,000*
	170	41.5	134.0		3,900	4,700*		170	47.3	164.5		3,500	4,200*
	180	36.8	119.9		3,300	4,000*		180	43.5	153.4			3,400*
	55	80.3	219.5	11,700*				55	80.3	219.5	11,700*		
	60	78.9	218.2	11,700*	11,700*	11,700*		60	78.9	218.2	11,700*		
	65	77.6	216.9	11,600*	11,600*	11,600*		65	77.6	216.9	11,600*		
	70	76.2	215.3	11,500*	11,500*	11,500*		70	76.2	215.3	11,500*		
	80	73.4	211.9	11,400*	11,400*	11,400*		80	73.4	211.9	11,400*		
	90	70.6	208.0	9,600	11,300*	11,300*		90	70.6	208.0	9,600		
	100	67.8	203.4	8,000	10,600	11,200*		100	67.8	203.4	8,000		
	110	64.8	198.2	6,700	9,000	11,100*		110	64.8	198.2	6,700		
	120	61.8	192.4	5,600	7,700	9,700		120	61.8	192.4	5,600		
	130	58.7	185.8	4,700	6,700	8,400		130	58.7	185.8	4,700		
	140	55.4	178.3	3,900	5,700	7,400		140	55.4	178.3	3,900		
	150	52.0	170.0	3,200	4,900	6,200*		150	52.0	170.0	3,200		
	160	48.5	160.5		4,200	5,200*		160	48.5	160.5			
	170	44.6	149.7		3,600	4,400*		170	44.6	149.7			
	180	40.5	137.3		3,100	3,600*		180	40.5	137.3			
	190	35.9	122.8			3,000*		190	35.9	122.8			

**MANITOWOC ENGINEERING CO.**

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

**LIFT CRANE JIB CAPACITIES**MEETS
ANSI B30.5
REQUIREMENTS**M-65W**

JIB NO. 130 WITH 12' STRUT ON

BOOM NO. 46

35,000 LB. COUNTERWEIGHT

22'4" CRAWLERS EXTENDED

360 DEGREE RATING

WITH X-SPANDER**60 FOOT JIB, 15 DEGREE OFFSET**

BOOM LGTH. FEET	JIB OPER. RAD. FEET	BOOM ANG. DEG.	JIB POINT ELEV. FEET	X-SPANDER RETRACTED CAPACITY POUNDS	X-SPANDER EXTENDED 7'8" CAPACITY POUNDS	X-SPANDER EXTENDED 15' CAPACITY POUNDS	BOOM LGTH. FEET	JIB OPER. RAD. FEET	BOOM ANG. DEG.	JIB POINT ELEV. FEET	X-SPANDER RETRACTED CAPACITY POUNDS	X-SPANDER EXTENDED 7'8" CAPACITY POUNDS	X-SPANDER EXTENDED 15' CAPACITY POUNDS
160	55	80.7	219.5	11,100*			170	60	79.9	228.5	10,100*		
	60	79.4	218.2	11,100*				65	78.6	227.2	10,100*	10,100*	10,100*
	65	78.0	216.9	11,100*	11,100*	11,100*		70	77.3	225.8	10,000*	10,000*	10,000*
	70	76.7	215.3	11,100*	11,100*	11,100*		80	74.6	222.5	9,900*	9,900*	9,900*
	80	73.9	211.9	11,000*	11,000*	11,000*		90	72.0	218.8	9,700*	9,800*	9,800*
	90	71.1	208.0	9,900*	11,000*	11,000*		100	69.3	214.4	8,100*	9,800*	9,800*
	100	68.2	203.4	8,300*	10,900*	10,900*		110	66.5	209.5	6,800*	9,100*	9,700*
	110	65.3	198.2	7,000*	9,400*	10,800*		120	63.6	204.0	5,700*	7,800*	9,600*
	120	62.3	192.4	5,900*	8,100*	10,000*		130	60.7	197.8	4,800*	6,800*	8,500*
	130	59.2	185.8	5,000*	7,000*	8,700*		140	57.7	190.9	4,000*	5,800*	7,400*
	140	55.9	178.3	4,200*	6,000*	7,700*		150	54.5	183.1	3,300*	5,000*	6,400*
	150	52.5	170.0	3,500*	5,200*	6,700*		160	51.2	174.4		4,300*	5,400*
170	160	48.9	160.5	3,000*	4,500*	5,700*		170	47.7	164.5		3,700*	4,500*
	170	45.1	149.7		3,900*	4,900*		180	44.0	153.4		3,200*	3,800*
	180	40.9	137.3		3,400*	4,100*		190	39.9	140.6			3,100*
	190	36.3	122.8			3,400*							



150 TON P&H TRACK CRANE PCSA CLASS 17-855

1 rated crane loads in pounds — main boom (80" w. x 75 d.) in.

OPER. RAD. FT.	60 FT. BOOM		70 FT. BOOM		80 FT. BOOM		90 FT. BOOM		100 FT. BOOM		110 FT. BOOM		120 FT. BOOM		
	ANGLE	BOOM PT. EL. RATING LBS.	ANGLE	BOOM PT. EL. RATING LBS.	ANGLE	BOOM PT. EL. RATING LBS.	ANGLE	BOOM PT. EL. RATING LBS.	ANGLE	BOOM PT. EL. RATING LBS.	ANGLE	BOOM PT. EL. RATING LBS.	ANGLE	BOOM PT. EL. RATING LBS.	
17	78	66.5	100000												
20	75	65.9	748500	78	76.1	739500	79	86.3	213800						
25	70	64.4	168200	73	74.9	169700	75	85.2	167800						
30	65	62.4	138500	69	72.2	128300	72	83.8	128200	77	95.5	169200			
35	60	59.8	107700	65	71.1	103700	72	83.8	128200	74	94.3	127900	76	104.6	127800
40	54	56.6	85500	60	68.5	83000	68	82.0	102400	70	92.7	102300	73	103.2	102300
45	48	52.5	73000	55	65.2	72800	64	79.8	85100	67	90.8	84800	69	99.5	72200
50	41	47.3	62500	50	61.4	63200	56	74.0	63000	64	88.5	72200	66	99.5	72200
60	23	30.7	50000	38	50.9	49800	46	65.8	49800	52	79.1	49200	63	97.2	62600
70				21	37.6	40700	35	54.1	40800	44	70.0	40200	57	91.4	49200
80							19	34.3	34000	33	57.1	33700	41	83.8	40100
90										18	35.9	28700	31	73.8	33600
100													29	88.2	33300
110													19	77.4	26300
120													31	64.4	25000
130													18	42.1	21800
140															
150															
160															
170															
180															
190															
200															
210															
220															

WARNING:
WHEN BOOM IS EQUIPPED WITH JIB, MAIN HOOK
RATING MUST BE REDUCED TO COMPENSATE
FOR JIB ATTACHMENT WEIGHT.

JIB LENGTH	20 FT.	30 FT.	40 FT.	50 FT.	60 FT.
DEDUCT-LBS.	1,500	1,500	2,000	2,500	3,000

32R222

2 rated crane loads in pounds — main boom (80" w. x 75" d.) in.

OPER. RAD. FT.	60 FT. BOOM		70 FT. BOOM		80 FT. BOOM		90 FT. BOOM		100 FT. BOOM		110 FT. BOOM		120 FT. BOOM		130 FT. BOOM		140 FT. BOOM	
	ANGLE	RATING LBS.	ANGLE	RATING LBS.	ANGLE	RATING LBS.	ANGLE	RATING LBS.	ANGLE	RATING LBS.	ANGLE	RATING LBS.	ANGLE	RATING LBS.	ANGLE	RATING LBS.	ANGLE	RATING LBS.
17	78	220000																
20	75	170300	78	170100	79	170800												
25	70	123100	73	122800	75	122700	77	122400	78	122200								
30	65	95800	69	95600	72	95400	74	95100	76	95000	77	94700	78	94400	79	94100		
35	60	78200	65	77900	68	77700	70	77400	73	77300	74	77000	76	76800	77	76400	78	76200
40	54	65700	60	65400	64	65300	67	64900	69	64800	71	64500	73	64200	74	63900	76	63700
45	48	56500	55	56200	60	56000	64	55700	66	55600	69	55200	71	54900	72	54600	73	54400
50	41	49500	50	49200	56	49000	60	48700	63	48600	66	48300	68	48000	70	47700	71	47500
60	23	39200	38	38900	46	38700	52	38400	57	38300	60	38000	63	37700	65	37400	67	37200
70			21	31900	35	31700	44	31300	49	31300	54	30900	57	30700	60	30300	62	30100
80					22	27100	34	26800	42	26700	48	26400	52	26200	55	25800	58	25700
90							20	22800	33	22700	40	22400	45	22100	50	21800	53	21600
100									19	19600	31	19200	38	19000	44	18600	48	18500
110											18	16700	30	16500	37	16100	42	16000
120													17	14400	28	14000	35	13900
130															17	12300	27	12200
140																	16	10700
150																		
160																		
170																		
180																		
190																		

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