

Absolutely The Best Crane Mats In The World.

This document is stored and available in the Raptor Tech Technical Document Repository.

To help our customers understand certain critical data points that factor into purchasing crane mats, Raptor Tech maintains a repository of technical documents with data from all major crane manufacturers.

You can visit Raptor Tech's repository to get crane specifications and technical details for crane models in addition to this model at:

https://library.steelcranemats.com

Thank You for Visiting the **SteelCraneMats.com** Technical Specifications Document Repository.



Manitowoc 10000B-1

Product Guide

ASME B30.5 Imperial



Features

- 100 USt capacity
- 230 ft heavy-lift boom
- Max boom + jib combination: 200 ft + 70 ft
- 285 HP engine
- 535 fpm maximum line speed
- 25,200 lb rated line pull



Shortely The Best Come Wate In The World.

The Raptor Tech Technical Document Repository is the original source of this document.

The Raptor Tech Technical Document Repository
is a copyrighted work published by Raptor Tech Inc. 1
on steelcranemats.com

https://www.steelcranemats.com/cranes-detailed-technical-specifications https://library.steelcranemats.com/

Thank You for Visiting the SteelCraneWats.com
Technical Specifications Document Repository.

Features



Self-erecting counterweight

Eliminates the need for an assist crane, and also allows for reduced counterweight chart operation.



Retractable crawlers

Crawlers can be extended and retracted for better jobsite maneuverability. On some models, these crawlers can also ship attached for easier transport and quicker setup.

Energy saving systems

Green-Engine mode conserves fuel during full speed drum operation under load, at a lower engine RPM. Other available options include Green-Winch Mode and Auto Idling Stop Mode.

Contents

Specifications	4
Outline dimensions	7
Performance data	12
Load chart notes	13
Boom combinations	14
Main boom range / load charts	16
Fixed jib range / load charts	18
Clamshell	21
Manitowoc Crane Care	22

Specifications

Upperworks



Engine

HINO J08E-UV, 6 cylinder, water-cooled diesel, direct fuel injection with turbocharger, 213 kW (285 HP) at 2100 high-idle RPM. Maximum torque 1017 N•m (750 lb•ft) net at 1,600 rpm; Interim Tier 4/Stage IIIB (Required for sale in the US/Canada/Europe; requires "Ultra Low Sulfur Diesel")

One diesel fuel tank, 400 liters (105 gallons) capacity.

Two 12 volt 136 AH capacity batteries, 24 volt system and 90 amp alternator.

All wiring harnesses and connectors are numbered for easier servicing. Machine is equipped with individual fused branch circuits.



Controls

Full-flow hydraulic control system for constant variable pressure to front and rear drums, boom hoist brakes and clutches. Controls respond instantly to the touch, delivering smooth function operation.

Relief valve pressures: Load hoist, boom hoist 4,630 psi and propel system. 3,989psi Control system. 783 psi

Hydraulic system

All four variable displacement piston-type pumps are driven by a heavy-duty pump drive. One of these pumps is used in the right propel circuit and hook hoist circuit and can accommodate an optional third drum circuit. Another is used in the left propel circuit and hook hoist circuit. A third pump is used in the boom hoist circuit. The fourth variable displacement pump is used in the swing circuit. In addition, two gear pumps are used in the control system and auxiliary equipment, and two gear pumps serve the brake cooling system.

Maximum pressure rating	4,630 psi
Load hoist and propel	Piston pumps
Boom hoist	Piston pump
Swing	Piston pump
Control system and auxiliary	Gear pumps
Brake cooling system	Gear pumps

Hydraulic tank 141 US gallon

Cooling: Oil-to-air heat exchanger (plate-fin type).

Filtration: Full-flow and bypass type with replaceable paper element.



Drums

Front and rear drums for load hoist powered by variable displacement piston-type motors, driven through planetary reducers. Powered hoisting/lowering and free-fall operation is standard. Drum turn indicators for front and rear drums are also standard.

Brake & Clutches (compatible): Forced-circulation oil-cooled wet-type multi-disc brakes, each using positive and negative actuation. An external ratchet is fitted for locking the drums.

Drums: (front and rear) 614 mm (24.2") P.C.D. x 617 mm (24.3") wide drums, grooved for 26.0 mm wire rope.

Wire rope capacity:

Front drum 853 ft working length Rear drum 754 ft working length

Line speed: Single line on the first drum layer	
Hoisting:	390 ft/min
Lowering:	390 ft/min

Optional third drum: free-fall is optional; drum grooved for 26 mm wire rope. Wire rope capacity working length is 623'.



Swing system

Swing unit: Powered by a hydraulic piston-type motor driving spur gears through planetary reducers, the swing system provides 360° rotation.

Swing brake: A spring-set, hydraulically released multiple-disc brake is internally fitted in swing motor.

Swing lock: 4-position lock for transportation.

Rotating bed turntable: Single-row ball bearing with an integral internally cut swing gear.

Swing speed: 3.2 rpm

Specifications



Boom support system

Single drum powered by a hydraulic axial piston motor through a planetary reducer.

Brake: A spring-set, hydraulically released multipledisc brake is mounted on the boom hoist motor. An external ratchet is fitted for locking the drum.

Drum: Single drum, grooved for 20 mm diameter wire rope. Boom Hoist reeving is 10-part line.

Wire Rope Capacity:

Drum 508 ft working length.

Line speed: Single line on the first drum layer



Gantry

This high folding type gantry is fitted with a sheave frame for boom hoist reeving. It provides full up, full down positions. Hydraulic lift is standard.



Counterweight

Upper weight (5 pieces): 76,280 lb Carbody weight (2 pieces): 14,330 lb



Operator's cab

Totally enclosed, full vision cab fitted with tinted safety glass. A fully adjustable, highbacked seat with arm rests permits operators to set their ideal working position. Short handle control levers; electronic twist grib hand throttle. Joystick controls are optional. An air conditioner, a signal horn and windshield wiper are standard features.

Controls

Full-flow hydraulic control system for constant variable pressure to front and rear drums, boom hoist brakes and clutches. Controls respond instantly to the touch, delivering smooth function operation.

Safety device

New easy to read at a glance LMI and maintenance display. Function lock lever, anti-two-block, boom over hoist limit switch, boom angle indicator, signal horn, boom hoist drum lock, front and rear drum lock, swing lock, swing alarm (buzzer and lamps), boom backstops and load moment indicator.

Lights: 2 - Front flood lights 1 - Cab inside light

Lowerworks



Carbody

The durable carbody features steel welded construction with extendible axles.



Crawlers

Crawler assemblies can be hydraulically extended for wide-track operation. Crawler belt tension adjusted with hydraulic jack and maintained by shims between idler block and frame.

Crawler drive

The independent hydraulic propel drive is built into each crawler side frame. Each drive consists of a hydraulic motor driving a propel sprocket through a planetary gearbox. The hydraulic motor and gearbox are built into the crawler side frame within the shoe width. The track rollers are sealed for maintenance-free operation.

Crawler brakes

Spring set, hydraulically released, multiple disc-type parking brakes are built into each propel drive.

Steering mechanism

The hydraulic propel system provides both skid steering (driving one track only) and counter-rotating steering (driving each track in opposite direction) and differential track speed.

Crawler shoes

36" wide each crawler.

Travel speed

(High/Low) 0.87/0.62 mph

Attachments



Boom

Welded lattice construction using tubular, high-tensile steel chords with pin connections between sections. Boom tip is open throat construction. Two idler sheaves and four point sheaves are standard.

Basic boom length 60' consists of the boom butt section 25', boom insert 10' and boom top section 25'.

5 Manitowoc 10000B-1

Specifications

Optional boom inserts are available to provide extension capabilities. They also have welded lattice construction with tubular, high-tensile steel chords and pin connections on each one of 3,0 m (10'), 6,1 m (20'), 12,2 m (40') inserts.

Maximum total length of boom 70,1 m (230').



Fixed jib

The optional fixed jib employs welded lattice construction with tubular, high-tensile steel chords with pin connections between sections.

Basic jib length 9,14 m (30') consists of jib butt section 4,57 m (15') and jib top section 4,57 m (15').

Optional jib boom inserts of 3,0 m (10'), 6,1 m (20') are available for extension capabilities up to 21,3 m (70').

Maximum total length of boom and jib 61,0 m (200') + 21,3 m (70') is 82,3 m(270').

Tools and accessories

A set of tools and accessories are furnished.

Optional equipment

- Optional: Blocks and Hooks each with roller bearing sheaves grooved for 26.0 mm diameter wire rope, and roller bearing swivel with hook latch.
- 15 USt ball hook, 1,310 lb wedge socket for 26 mm wire rope.
- 40 USt hook block, 1,881 lb with one 24" Nominal O.D. roller bearing sheaves.
- 90 USt hook block, 4,060 lb, with three 24" Nominal O.D. roller bearing sheaves.
- Nominal O.D. roller bearing sheaves.
- Optional: Detachable upper boom point with one 575 mm Nominal outer diameter roller bearing steel sheave grooved for 26mm rope for liftcrane.
- Machine inclination sensor.
- Swing angle detection and angle limiter.

- Hydraulic tagline.
- External lamp for overload alarm.

Working weight

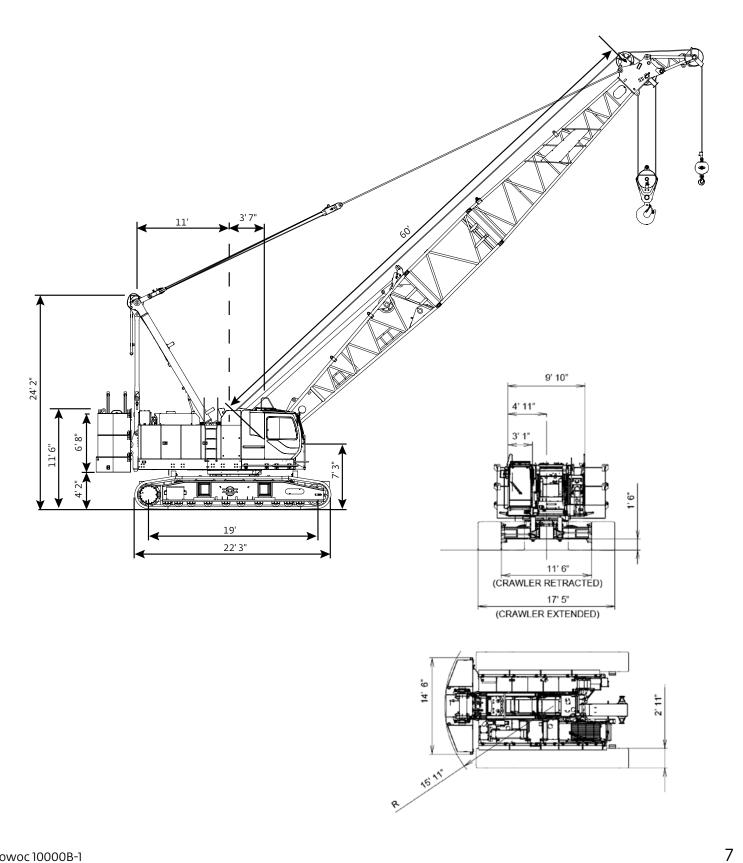
Approximately 220,300 lb including upperworks and lowerworks, full upper counterweights, full carbody counterweight and 60' basic boom.

Ground pressure

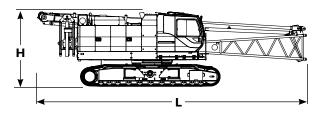
Approximately 13.6 psi with basic boom and no load.

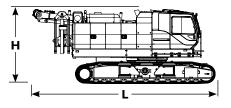
Gradeability

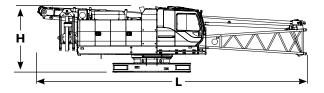
With basic boom: 40%.

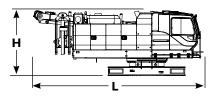


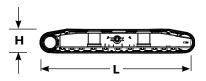
Manitowoc 10000B-1

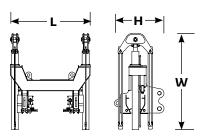












Upperworks	x 1
Length	51' 9"
Width	11' 8"
Height	11' 6"
Weight	126,808 lb

Note: Weight includes base machine, crawler, gantry, maximum hoist and whip lines on drums, boom butt, full hydraulic fluid reservoir, and one third tank of fuel.

>	Upperworks	x1
	Length	30'11"
	Width	11' 6"
	Height	11' 6"
	Weight	119,808 lb

Note: Weight includes base machine, crawler, gantry, maximum hoist and whip lines on drums, full hydraulic fluid reservoir, and one third tank of fuel.

>	Upperworks without crawlers	x 1
	Length	51' 9"
	Width	9'10"
	Height	10' 0"
	Weight	74,206 lb

Note: Weight includes base machine, gantry, maximum hoist and whip lines on drums, full hydraulic fluid reservoir, and one third tank of fuel.

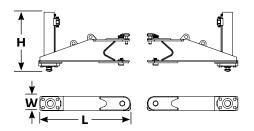
>	Upperworks without crawlers	x 1
_	Length	28' 5"
	Width	9'10"
	Height	10' 0"
	Weight	66,887 lb

Note: Weight includes base machine, gantry, maximum hoist and whip lines on drums, full hydraulic fluid reservoir, and one third tank of fuel.

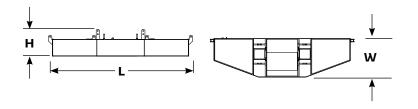
Crawlers	x 2
Length	22' 2"
Width	2'11"
Height	3' 9"
Weight	26,301 lb

Self removal unit	x1
Length	5' 3"
Width	6' 3"
Height	3' 3"
Weight	1,918 lb

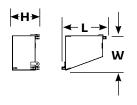




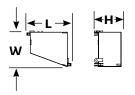
Hydraulic jack (if removed)	x1
Length	4' 10"
Width	0' 9"
Height	3' 2"
Weight	705 lb



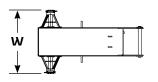
Upper counterweight A	x1
Length	14' 6"
Width	3' 11"
Height	2' 9"
Weight	25,573 lb

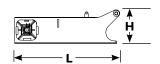


Upper counterweight B	x 2
Length	4' 9"
Width	3'10"
Height	2' 11"
Weight	12,676 lb

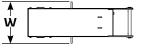


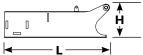
Upper counterweight C	x 2
Length	4' 9"
Width	3'10"
Height	2' 11"
Weight	12,676 lb





Carbody counterweight with float	x1
Length	6'10"
Width	4' 2"
Height	2' 2"
Weight	7,319 lb



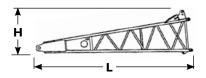


Carbody counterweight	without float x 1
Length	6'10"
Width	2' 8"
Height	2'2"
Weight	7,165 lb

9

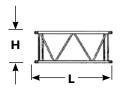


Manitowoc 10000B-1

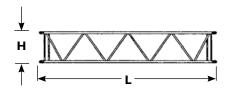


Boom butt 25'	x1
Length	25'7"
Width	5' 8"
Height	6' 9"
Weight	4,927 lb

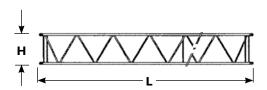
★ H J	
	L



Boom insert 10'	x 1,2
Length	10' 4"
Width	5' 6"
Height	5'7"
Weight	840 lb

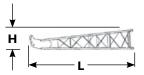


Boom insert 20'	x 1,2
Length	20' 5"
Width	5' 6"
Height	5'7"
Weight	1,445 lb

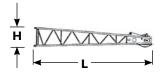


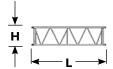
Boom insert 40'	x 1,2,3
Length	40'4"
Width	5' 6"
Height	5'7"
Weight	2,635 lb

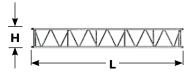
Note: Use of one "A" type insert with lug required for any boom combinations that require a 40' insert.

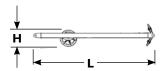


Fixed jib butt	x1
Length	15' 9"
Width	2' 8"
Height	2' 8"
Weight	440 lb









Fixed jib top	x1
Length	16' 5"
Width	2' 8"
Height	2' 8"
Weight	620 lb

Fixed jib insert 10'	x 1,2
Length	10' 2"
Width	2' 8"
Height	2' 8"
Weight	220 lb

Fixed jib insert 20'	x 1,2
Length	20' 3"
Width	2' 8"
Height	2' 8"
Weight	400 lb

Fixed jib strut	x 1
Length	11'11"
Width	2' 9"
Height	2'1"
Weight	550 lb

Performance data

Line pull		
	Rated line pull lb	*Maximum line pull lb
Front drum	25,200	46,800
Rear drum	25,200	46,800
Optional 3rd drum	25,200	46,800

^{*} Maximum line pull is not based on wire rope strength.

Wire rope specifications												
Use	Specs	Diameter mm	Working length ft	Breaking strength Ib								
Front drum	IWRC 6 X Fi (29) C/O	26,0	853	120,000								
Rear drum	IWRC 6 X Fi (29) C/O	26,0	754	120,000								
Boom hoist drum	IWRC 6 X WS (31) C/O	20,0	508	73,700								
Third drum (optional)	IWRC 6 X Fi (29) C/O	26,0	623	120,000								

Front and rear winch performance (optional: third winch)														
		Line speed ft/min												
Li	ayer	1	·											
	line pull lb													
	0	394	422	450	479	505	535							
	5,000	387	415	443	471	499	526							
	10,000	353	353	353	353	353	353							
IInd	15,000	235	235	235	235	235	235							
Rated line pull	20,000 117		117	117	117	117	117							
Rat	25,000	141	141	141	141	141	141							
	30,000	118	118	119	121	122	123							
	35,000	103	104	105	105	-	_							
	40,000	92	92	_	_	-	_							

NOTE: Line speeds and line pull based on single line. Line pulls are not based on wire rope strength.

Load chart notes

- 1. Rated loads included in the charts are the maximum allowable freely suspended loads at a given boom length, boom angle and load radius, and have been determined for the machine standing level on firm supporting surface under ideal operating conditions. The user must limit or de-rate rated loads to allow for adverse conditions (such as soft or uneven ground, out-of-level conditions, wind, side loads, pendulum action, jerking or sudden stopping of loads, inexperience of personnel, multiple machine lifts, and traveling with a load).
- 2. Capacities do not exceed 75% of minimum tipping loads. Capacities based on factors other than machine stability such as structural competence are shown by asterisk * in the charts located in the operator's crane cab.
- 3. The machine must be reeved and set-up as stated in the operation manual and all the instruction manuals. If these manuals are missing, obtain replacements. Boom backstops are required for all boom lengths. Gantry must be in the fully raised position for all operations. Crawlers must be fully extended and be locked in position. The crane must be leveled to within 1% on a firm supporting surface.
- 4. Do not attempt to lift where no radius or load is listed as crane may tip or collapse.
- Attempting to lift more than rated loads may cause machine to tip or collapse. Do not tip machine to determine capacity.
- 6. Weight of hooks, hook blocks, slings and other lifting devices are a part of the total load. Their total weight must be subtracted from the rated load to obtain the weight that can be lifted.
- 7. When lifting over boom point with jib or upper boom point installed, rated loads for the boom must be deduted as shown below.

Jib length ft	Upper boom point	30	40	50	60	70	
Deduct lb	700	2,400	3,200	4,200	5,200	6,200	

- 8. The total load that can be lifted by the fixed jib is limited by rated jib loads. The total load that can be lifted with the upper boom point is limited by rated upper boom point loads.
- 9. Boom lengths for fixed jib mounting are 27,4 m (90 ft) to 61,0 m (200 ft).
- 10. An upper boom point cannot be used on a 70,1 m (230 ft) boom length.
- 11. The boom should be erected over the front of the crawlers, not laterally.
- 12. Least stable position is over the side.
- Maximum hoist load for number of reeving parts of line for hoist rope.

Maximum load for main boom

No. of parts of line	1	2	3	4	5
Maximum loads lb	25,000	50,000	75,000	100,000	125,000

No. of parts of line	6	7	8
Maximum loads lb	150,000	175,000	200,000

Maximum load for fixed jib

No. of parts of line	1
Maximum loads Ib	24,000

Maximum load for upper boom point (on liftcrane boom)

No. of parts of line	1	2		
Maximum loads lb	25,000	50,000		

- 14. Lifting capacities listed apply only to the machine as originally manufactured for and supplied by Manitowoc Cranes, Inc. Modifications to this machine or use of equipment other than that specified can reduce operating capacity.
- 15. Designed and rated to comply with ASME Code B30.5.

Operation of this equipment in excess of rated loads or disregard of instruction voids the warranty.

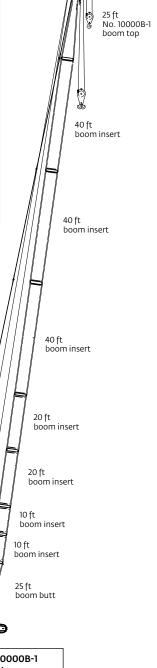
Manitowoc 10000B-1 13

Boom combinations

No. 10000B-1 heavy-lift boom combinations										
	Boom inserts									
Boom length ft	10 ft	20 ft	40 ft							
60	1	-	-							
70	2	1	-							
80	1	1	-							
90	2	1	-							
100	1	2	-							
110	2	2	-							
120	1	1]*							
130	2	1	1*							
140	1	2	1*							
150	2	2	1*							
160	1	1	2*							
170	2	1	2*							
180	1	2	2*							
190	2	2	2*							
200	1	1	3*							
210	2	1	3*							
220	1	2	3*							
230	2	2	3*							

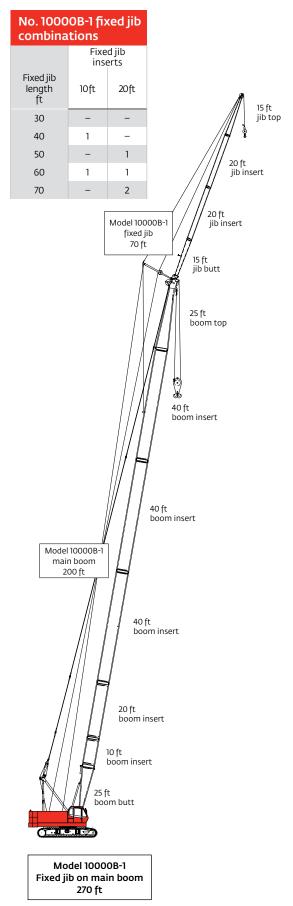
* NOTE: One 40 ft boom insert with lug 40A is required for fixed jib. When no jib is installed a 40 ft boom can be used instead of 40A.

> Model 10000B-1 main boom 230 ft



Model 10000B-1 Main boom 230 ft

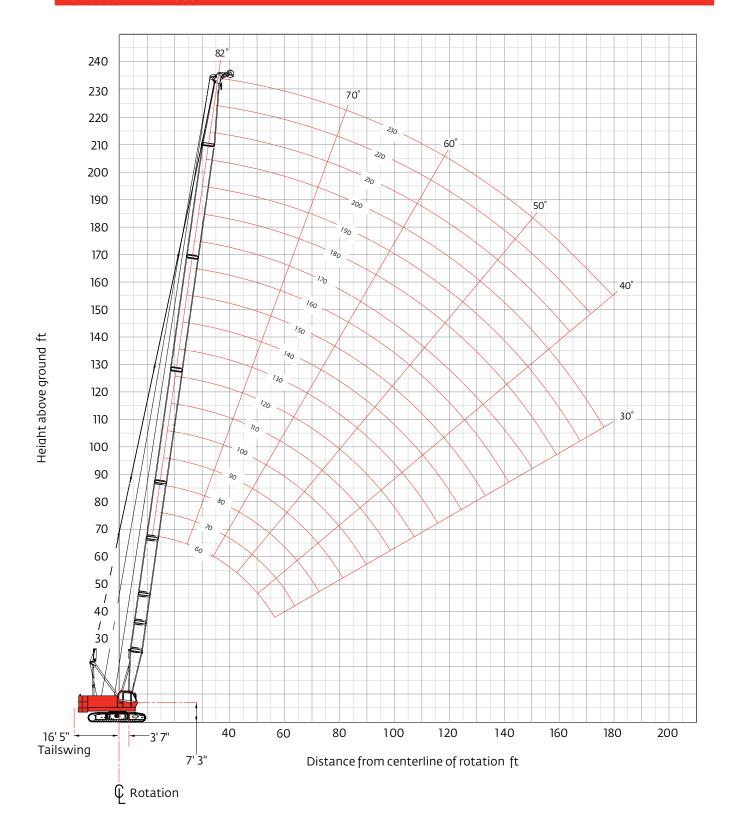
Boom combinations



Manitowoc 10000B-1 15

Heavy-lift boom range diagram

No. 10000B-1 main boom



Heavy-lift boom load charts

Model 10000B-1 liftcrane boom capacities - 10000B-1 main boom

76,280 lb crane counterweight, 14,330 lb carbody counterweight crawler extended 360° Rating lb x 1 000

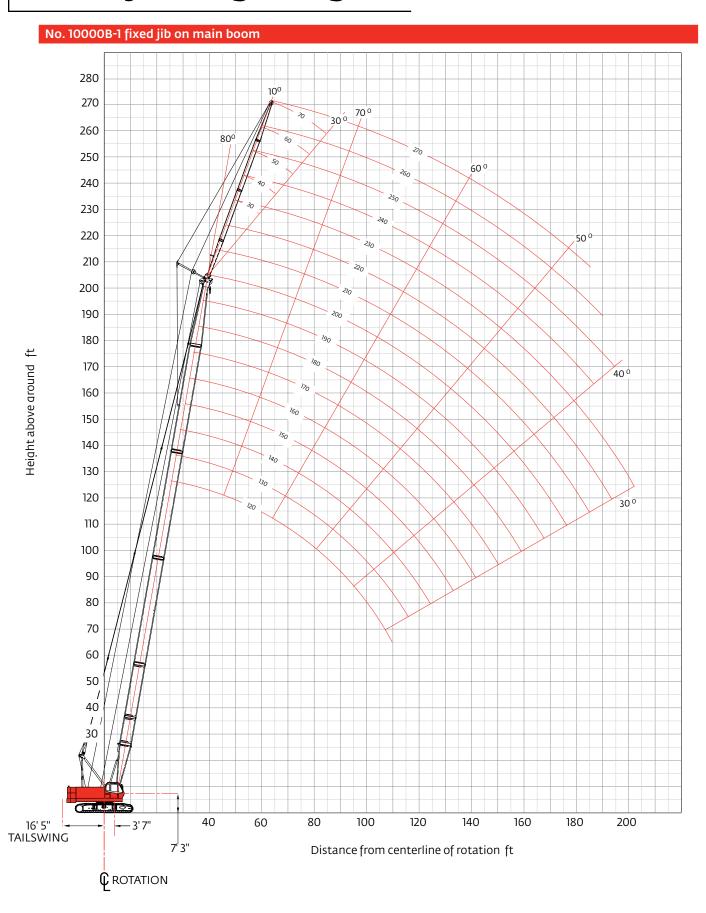
Boom ft	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230
Radius																		
14	200.0																	
16	177.0	177.0																
18	150.0	150.0	150.0	150.0														
20	135.0	135.0	135.0	135.0	135.0													
24	111.7	111.7	111.5	111.5	111.3	111.3	111.1	100.0										
28	89.2	89.0	88.8	88.8	88.6	88.4	88.4	88.1	87.9	87.7								
34	68.1	67.9	67.4	67.4	67.2	67.0	67.0	66.7	66.5	66.3	66.3	66.1	65.9	65.4				
40	54.6	54.4	54.2	54.0	53.7	53.5	53.5	53.3	53.1	52.6	52.9	52.4	52.2	52.0	50.0	50.0	46.7	42.7
45	46.7	46.5	46.2	46.0	45.8	45.6	45.6	45.4	45.1	44.7	44.9	44.5	44.3	44.0	44.0	43.8	43.4	40.1
55	36.1	35.9	35.4	35.4	35.0	34.8	34.8	34.6	34.3	33.9	33.9	33.7	33.2	33.0	33.0	32.8	32.6	32.1
75				23.5	23.1	22.9	22.7	22.4	22.2	21.8	21.8	21.6	21.1	20.9	20.9	20.7	20.2	20.0
95						16.5	16.3	16.0	15.6	15.4	15.4	14.9	14.7	14.3	14.3	14.1	13.8	13.4
105							14.1	13.8	13.4	13.2	13.2	12.7	12.3	12.1	12.1	11.9	11.4	11.2
115								12.1	11.6	11.2	11.2	11.0	10.5	10.1	10.3	9.9	9.7	9.2
125									10.3	9.9	9.7	9.4	9.0	8.8	8.8	8.3	7.9	7.4
135											8.5	8.1	7.7	7.2	7.2	6.8	6.6	6.1
145												7.0	6.6	6.1	6.1	5.7	5.2	4.8
155													5.7	5.2	5.0	4.6	4.4	3.9
165														4.4	4.1	3.7	3.5	
175															3.5			

Meets ASME B30.5 Requirements – Capacities do not exceet 75% of static tipping load. NOTICE: This capacity chart is for reference only and must not be used for lifting purposes.

For complete chart, refer to www.cranelibrary.com.

Manitowoc 10000B-1 17

Fixed jib range diagram



Fixed jib load charts

Model 10000B-1 liftcrane jib capacities No. 10000B-1 fixed jib on main boom

76,280 lb upper counterweight, 14,330 lb carbody counterweight crawler extended 360° Rating lb x 1 000

	10° Offset						30° Offset							
	Boom ft	90	120	160	180	200			Boom ft	90	120	160	180	200
	Radius								Radius					
11	30	24.0							30					
	40	24.0	24.0						40	21.0				
	50	24.0	24.0	24.0	24.0	24.0			50	21.0	21.0			
	60	24.0	24.0	24.0	24.0	24.0		ш	60	18.9	21.0	21.0	21.0	21.0
Jib length 30 ft	80	10.1	21.1	20.1	19.8	19.0		30 fi	80		20.8	20.8	20.2	19.9
ngth	100	7.4	15.3	14.2	13.6	13.1		Jib length 30 ft	100		15.6	14.7	14.1	13.7
Jib le	120		11.6	10.4	9.8	9.3		Jib le	120			10.7	10.2	9.7
	140			7.8	7.1	6.5		Ì	140				7.4	7.0
	160			5.8	4.9	4.2			160					
	175				3.6				175					
	185								185					
	10° Offset													
			10° O	fset						30°	Offset	:		
	Boom ft	90	10° O	fset 160	180	200			Boom ft	30° 90	Offset 120	160	180	200
	Boom ft Radius				180	200			Boom ft Radius				180	200
					180	200							180	200
	Radius				180	200			Radius				180	200
	Radius 30	90			180	200			Radius 30				180	200
ىږ	Radius 30 40	90	120	160	180	200		ىد	Radius 30 40				180	200
1 50 ft	30 40 50	90 20.0 20.0	20.0	20.0				50 ft	30 40 50	90	120		180	200
ingth 50 ft	30 40 50 60	90 20.0 20.0 20.0	20.0 20.0	20.0 20.0	20.0	20.0		ngth 50 ft	Radius 30 40 50 60	90	120	160		
Jib length 50 ft	Radius 30 40 50 60 80	90 20.0 20.0 20.0 16.8	20.0 20.0 19.5	20.0 20.0 20.0	20.0	20.0		Jib length 50 ft	Radius 30 40 50 60 80	90 11.4 11.2	120 11.4 11.2	160	11.4	11.4
Jib length 50 ft	Radius 30 40 50 60 80 100	20.0 20.0 20.0 16.8 13.6	20.0 20.0 19.5 15.7	20.0 20.0 20.0 20.0 14.7	20.0 20.0 14.1	20.0 19.7 13.6		Jib length 50 ft	Radius 30 40 50 60 80 100	90 11.4 11.2	11.4 11.2 10.6	11.4 11.4	11.4	11.4
Jib length 50 ft	Radius 30 40 50 60 80 100 120	20.0 20.0 20.0 16.8 13.6	20.0 20.0 19.5 15.7 11.9	20.0 20.0 20.0 14.7 10.8	20.0 20.0 14.1 10.2	20.0 19.7 13.6 9.8		Jib length 50 ft	Radius 30 40 50 60 80 100 120	90 11.4 11.2	11.4 11.2 10.6	11.4 11.4 10.4	11.4 11.4 10.8	11.4 11.4 10.6
Jib length 50 ft	Radius 30 40 50 60 80 100 120 140	20.0 20.0 20.0 16.8 13.6	20.0 20.0 19.5 15.7 11.9	20.0 20.0 20.0 14.7 10.8 8.2	20.0 20.0 14.1 10.2 7.5	20.0 19.7 13.6 9.8 7.1		Jib length 50 ft	Radius 30 40 50 60 80 100 120 140	90 11.4 11.2	11.4 11.2 10.6	11.4 11.4 10.4	11.4 11.4 10.8 8.1	11.4 11.4 10.6 7.7
Jib length 50 ft	Radius 30 40 50 60 80 100 120 140 160	20.0 20.0 20.0 16.8 13.6	20.0 20.0 19.5 15.7 11.9	20.0 20.0 20.0 14.7 10.8 8.2 6.2	20.0 20.0 14.1 10.2 7.5 5.4	20.0 19.7 13.6 9.8 7.1 4.7		Jib length 50 ft	Radius 30 40 50 60 80 100 120 140 160	90 11.4 11.2	11.4 11.2 10.6	11.4 11.4 10.4	11.4 11.4 10.8 8.1	11.4 11.4 10.6 7.7 5.3

For complete chart, refer to www.cranelibrary.com.

Fixed jib load charts

Model 10000B-1 liftcrane jib capacities No. 10000B-1 fixed jib on main boom

76,280 lb upper counterweight, 14,330 lb carbody counterweight crawler extended 360° Rating lb x 1 000

10° Offset							30° Offset							
	Boom ft	90	120	160	180	200			Boom ft	90	120	160	180	200
	Radius								Radius					
	45	15.7							45					
	60	14.8	15.1	15.4	15.6	15.7		Jib length 70 ft	60					
	75	13.9	14.4	14.8	15.0	15.1			75	8.1	8.1			
	90	11.5	13.3	14.3	14.4	14.6			90	7.6	8.1	8.1	8.1	8.1
Jib length 70 ft	110	9.4	10.9	12.7	12.3	11.9			110	6.5	7.0	7.6	7.8	8.0
ngth	130	7.9	9.2	9.7	9.1	8.6			130		6.3	6.9	7.1	7.3
Jib le	145	7.1	8.2	7.9	7.2	6.8			145		5.9	6.4	6.6	6.8
	170		6.8	5.6	4.7	4.1			170			5.9	5.5	4.9
	180			4.8	3.9				180				4.5	3.9
	190			4.0					190					
	200			3.3					200					

 $For \ complete \ chart, \ refer \ to \ www.cranelibrary.com.$

Clamshell

Boom:

Welded lattice construction using tubular, high-tensile steel

chords with pin connections between sections.

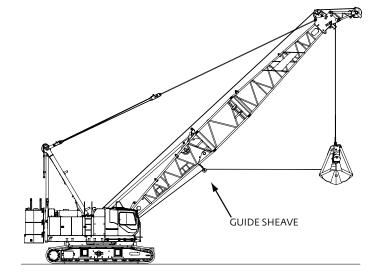
Basic boom length: 60 ft Max. boom length: 100 ft

Limit of empty clamshell bucket weight: 4,600 lb

Boom component chart

Boom length ft	Boom arrangement				
60	Base-A-Tip				
70	Base-A-A-Tip, Base-B-Tip				
80	Base-A-B-Tip				
90	Base-A-A-B-Tip, Base-B-B-Tip, Base-C-Tip				
100	Base-A-B-B-Tip, Base-A-C-Tip				

Base = 25 ft Insert: A = 10 ft B = 20 ft C = 40 ft Tip = 25 ft



- 1. Figures represent maximum allowable capacity, and assume level ground and ideal working conditions.
- 2. Capacities are calculated at 66% of the minimum tipping loads.
- Capacities are maximum recommended by PCSA Standard #4. Allowances must be made by the user for such unfavorable conditions as a soft or uneven supporting surface, rapid cycle operations, or bucket suction.
- 4. The combined weight of the bucket and load must not exceed these capacities.
- 5. Boom length for clamshell operation should not exceed 100 ft.

Clamshell Capacities

11.0 USt counterweight

(one upper counterweight, crawlers extended)

lb x 1 000

		•	<i>5</i> /		
Boom ft	60	70	80	90	100
Radius					
30	25.0				
34	25.0	25.0			
45	22.9	22.7	22.5	21.6	
50	19.8	19.6	19.4	19.2	18.5
55	12.5	17.2	17.0	16.8	16.5
60		15.2	15.0	14.8	14.6
70			11.9	11.7	11.5
80				9.5	9.3
85					8.4
90					7.7

Manitowoc 10000B-1 21

Manitowoc Crane Care

Crane Care is Manitowoc's comprehensive service and support program. It includes classroom and on-site training, prompt parts availability, expert field service, technical support and documentation.

That's commitment you won't find anywhere else.

That's Crane Care.

Service training

Manitowoc specialists work with you in our training centers and in the field to make sure you know how to get maximum performance, reliability and life from your cranes.

Manitowoc Cranes Technical Training Centers provide valuable multi-level training, which is available for all models and attachments, in the following format:

- Intro to Canbus and Canbus 1, 2, 3
- Intro to EPIC and EPIC 1, 2, 3
- Small Crawler 1
- Canbus 1 and 2 assembly, operation and maintenance
- EPIC 1 and 2 assembly, operation and maintenance

Refer to www.manitowoc.com for course descriptions.

Parts availability

Genuine Manitowoc replacement parts are accessible through your distributor 24 hours a day, 7 days a week, 365 days a year.

Service interval kits 200 hour kit 1,000 hour kit 2,000 hour kit Hydraulic test kit U.S. standard tools kit

Field service

Factory-trained service experts are always ready to help maintain your crane's peak performance.

For a worldwide listing of dealer locations, please consult our website at: www.manitowoc.com

Technical support

Manitowoc's dealer network and factory personnel are available 24 hours a day, 7 days a week, 365 days a year to answer your technical questions and more, with the help of computerized programs that simplify crane selection, lift planning, and ground-bearing calculations.

For a worldwide listing of dealer locations, please consult our website at: www.manitowoc.com

Technical documentation

Manitowoc has the industry's most extensive documentation; available in major languages and formats that include print, videotape, and DVD/CD.

Additional copies available through your Authorized Manitowoc Distributor.

- Crane operator's manual
- Crane parts manual
- Crane capacity manual
- Crane vendor manual
- Crane service manual
- Luffing jib operator's/parts manual
- Capacity chart manual attachments

Available from your Authorized Manitowoc Cranes Distributor, these videos are available in NTSC, PAL, SECAM, and DVD formats.

- Your Capacity Chart Video
- Respect the Limits Video
- Crane Safety Video
- Boom Inspection/Repair Video

Crane Care Package

Manitowoc has assembled all of the available literature, CD's and videos listed above plus several Manitowoc premiums into one complete Crane Care Package, which is supplied to the owner of each new crane.

Notes

Manitowoc 10000B-1 23



Manitowoc Cranes

Regional headquarters

Americas

Manitowoc, Wisconsin, USA Tel: +1 920 684 6621 Fax: +1 920 683 6277

Shady Grove, Pennsylvania, USA

Tel: +17175978121 Fax: +17175974062

Europe, Middle East, Africa

Ecully, France Tel: +33 (0)4 72 18 20 20 Fax: +33 (0)4 72 18 20 00

China

Shanghai, China Tel: +86 21 6457 0066 Fax: +86 21 6457 4955

Greater Asia-Pacific

Singapore Tel: +65 6264 1188 Fax: +65 6862 4040

Regional offices

Americas

Brazil Alphaville Mexico Monterrey Chile Santiago

Europe, Middle East,

Africa France Baudemont Cergy **Decines** Germany Langenfeld Italy Lainate Netherlands Breda **Poland** Warsaw Portugal Baltar Russia

Moscow South Africa Johannesburg U.A.E. Dubai U.K. Buckingham

China

Beijing Chengdu Guangzhou Xian

Greater Asia-Pacific

Australia Brisbane Melbourne Sydney India Chennai Delhi Hyderabad Pune Korea Seoul **Philippines** Makati City Singapore

Factories

Brazil Passo Fundo China TaiAn Zhangjiagang France Charlieu Moulins

Germany Wilhelmshaven India Pune Italy Niella Tanaro Portugal Baltar

Slovakia Saris USA Manitowoc

Shady Grove

Port Washington

Fânzeres

This document is non-contractual. Constant improvement and engineering progress make it necessary that we reserve the right to make specification, equipment, and price changes without notice. Illustrations shown may include optional equipment and accessories and may not include all standard equipment.