

data

model 2892S



product guide

features

- 28 ton (25,4 mton) capacity
- 4-section, 92' (28,0 m) proportional boom
- 101' 9" (31,0 m) maximum main boom tip height
- 147' 9" (45,0 m) maximum tip height with telescoping jib
- 2-section, 26' (7,9 m) to 46' (14,0 m) telescopic jib
- 2-speed planetary hoist with grooved drum
- Anti-two-block system
- Load Moment Indicator (LMI) senses boom hoist cylinder pressure, boom length and boom angle.
- Adjustable Out-and-Down outriggers from 7' 3.3" (2,2 m) to 19' 8" (6,0 m) wide
- System pressure gauge
- Rugged, weatherproof, automotive style electrical system
- Manitowoc CraneCARESM comprehensive support

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specifications

Upperworks

2



Boom

Boom – Inverted T-cross section. 4-section telescoping type, extended and retracted proportionally by double-acting hydraulic cylinder and cable-crowd system. Easily replaceable and adjustable high-density nylon slide pads. **2892S** – 4-Section 28' 0" (8,5 m) to 92' 0" (28,0 m). Maximum tip height 101' 9" (31,0 m). 2-section, 26' (7,9 m) to 46' (14,0 m) jib. Maximum tip height 147' 9" (45,0 m).

Quick Reeve Boom Point – Three high-density nylon sheaves mounted on heavy-duty roller bearings. Two removable pin-type rope guards.

Boom Elevation – Double-acting hydraulic cylinder. Working range from 9° below horizontal to 80° above.



Hoist

Hoist – Theoretical maximum line speed 247 fpm (75,3 mpm). Maximum theoretical bottom layer line pull 12,000 lb (5 443 kg). Two-speed planetary reducer. Spring-applied, pressure-released internal brake.

Wire Rope – 300 feet (91,4 m) of 9/16" (14,3 mm) diameter 6 X 25 EIPS IWRC.



Swing System

Externally mounted, double-reduction planetary driven by hydraulic motor. Maximum swing speed 1.5 rpm. Spring-applied hydraulically-released parking brake. Ball-bearing swing circle with external gear. Continuous rotation is standard.



Outriggers

Fully extended, intermediate extension and fully retracted positions. Out-and-Down type with double-acting hydraulic cylinders operated independently for precise leveling. Bubble level located near outrigger controls.



Mounting

Mounting – Lower frame is mounted to chassis by threaded rods and clamp plates. No welding to truck chassis is required.

Rear Underride Protection – Supplied on factory mounted cranes. Fabricated structure mounted under rear of carrier. Complies with Bureau of Motor Carrier Safety Standard 393.86.

Lower Frame - Torsion resistant, rigid 4-plate design with integrated outrigger and pedestal.

Boom Rest – Heavy-duty, removable.



Control System

Single operator platform and seat mounted to turret. Four single-axis crane controls, bubble level and system pressure gauge arranged to ANSI B30.5 standards. The operator station includes engine start/stop, air foot throttle, signal horn, load moment indicator console, boom angle indicator, load chart and range diagram.



Hydraulics

Hydraulic System – A 3-section vane pump direct-mounted to power take-off on truck transmission provides 35 gpm (133 lpm) to the hoist, 18 gpm (68 lpm) to the boom hoist and telescope circuit, and 8 gpm (80 lpm) to the swing and outrigger circuit. 70-gallon (265-liter) baffled reservoir with strainer and 25-micron filter in the return lines. Ball-type shutoff valve and strainer are provided in suction line. All fittings are ORS type and SAE.

Hydraulic Cylinders – All load-holding cylinders are equipped with integral holding valves.



Warning Systems

Anti-Two-Block System – Audible warning and shutoff functions prevent hook from contacting boom point.

Back-Up Alarm – Electronic audible motion alarm activated when truck transmission is in reverse gear.

Load Moment Indicator(LMI) – Senses boom hoist cylinder pressure, boom length and boom angle. Audio-visual warning indicates overload conditions and overload shutoff feature prevents continuing overload. Operator can access all load conditions via display at the operator station.



General

Electrical – State-of-the-art, weather-resistant components throughout. Automotive style electrical system for easy installation. Designed to withstand high pressure washing and varying climates.

Design/Welding – Design conforms to ANSI B30.5. Welding conforms to AWS D1.1. Tested to SAE 1063 and SAE 765.

Manuals – Operator, service and parts manuals depict correct crane operation, maintenance procedures and parts listing.

Warranty – 12-month warranty covers parts and labor resulting from defects in material and workmanship.

Warning

1. The operator must read and understand the owner's manual before operating this crane.
2. Positioning or operation of crane beyond areas shown on this chart is not intended or approved except where specified in owner's manual.
3. Loaded boom angles at specified boom lengths give only an approximation of the operating radius. The boom angle before loading should be greater to account for deflections. Do not exceed the operating radius for rated loads.
4. The operating radius shown in the jib rating chart is for fully extended boom only. When boom is not fully extended, use only loaded boom angle to determine load rating of jib.
5. For boom angles shown on jib load rating chart, use rating of next lower boom angle.
6. For boom lengths not shown, use rating of next shorter or longer boom length, whichever is less. For radii not shown, use rating of next longer radius.
7. Crane load ratings on outriggers are based on freely suspended loads with the machine leveled and standing on a firm, uniform supporting surface. No attempt shall be made to move a load horizontally on the ground in any direction.
8. Practical working loads depend on supporting surface, wind, and other factors affecting stability such as hazardous surroundings, experience of personnel, and proper handling, all of which must be taken into account by the operator.
9. The maximum load which may be telescoped is limited by hydraulic pressure, boom angle, and boom lubrication. It is safe to attempt to telescope any load within the limits of the load rating chart.
10. Lifting off the main boom point while the swing-around jib is erected is not intended or approved.
11. All load ratings above the heavy line are based on machine structural competence and do not exceed 85% of tipping. Load ratings below are stability limited and do not exceed 85% of tipping.

12. Do not operate a Manitowoc truck-mounted crane or accessories within 10' (3.05 m) of live power lines.

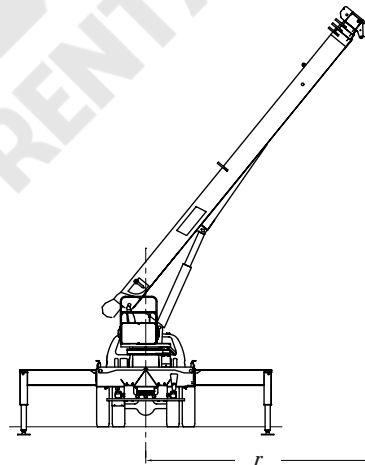
13. This capacity chart is for reference only and must not be used for specific serial number cranes.

Information

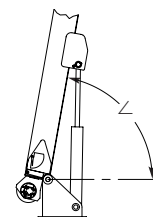
1. Deductions must be made from rated loads for stowed jib, optional attachments, hooks, and loadblocks (see deduction chart). Weights of slings and all other load-handling devices shall be considered a part of the load.
2. Load ratings above the heavy line are structurally limited capacities. Load ratings below the heavy line are stability limited capacities and do not exceed 85% of tipping.

Definitions

1. Operating radius (r) is the horizontal distance from the axis of rotation to the center of the vertical hoist line or tackle with load applied (see below).

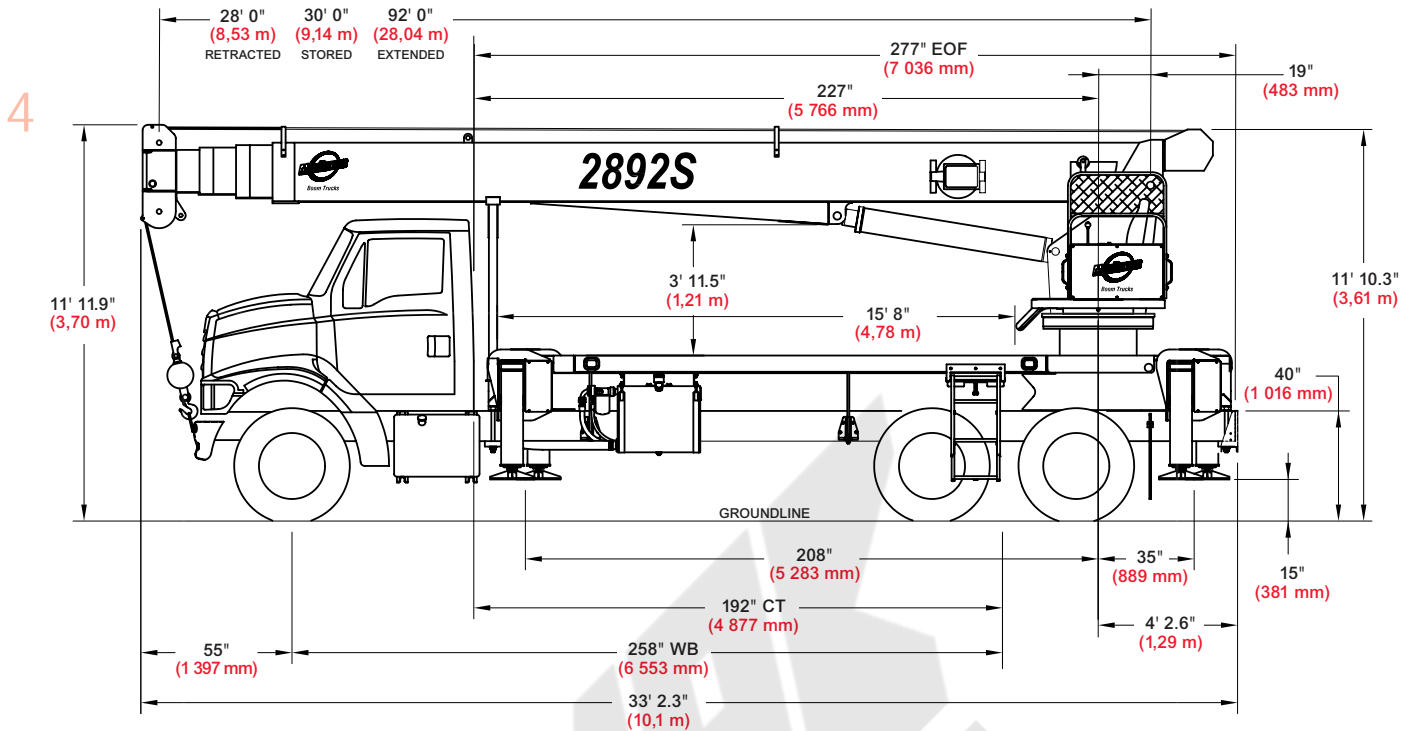


2. Loaded boom angle (\angle), as shown in the load chart columns headed by \angle , is the included angle between the horizontal and longitudinal axes of the boom base after lifting rated load at rated radius (see below).



NOTE: Due to continuing improvements, Manitowoc Boom Trucks reserves the right to change product specifications without notice.

outline dimensions



Chassis Data

Minimum Truck Requirements	2892C
Wheelbase (WB)	258" (6 553 mm)
Cab to Tandem (CT)	192" (4 877 mm)
Cab to End of Frame (EOF)	277" (7 036 mm)
Frame Section Modulus	20.0 in ³ 110,000 psi (758 422 kPa)
Front Axle Gross Weight Rating	18,000 lb (8 165 kg)
Rear Axle Gross Weight Rating	34,000 lb (10 363 kg)
Minimum Truck Axle Weight - Front*	8,000 lb (3 629 kg)
Minimum Truck Axle Weight - Back*	8,300 lb (3 765 kg)
Nominal Frame Width	34" (864 mm)

Weights

	2892C
Cab Alone	575 lb (261 kg)
Crane- Without Cab	22,393 lb (10 158 kg)
14' (4,27 m) Flat Bed	1,260 lb (572 kg)
26' (7,92 m) Fixed Length Jib	832 lb (377 kg)
26' (7,92 m) to 46' (14,02 m) Telescopic Jib	1,226 lb (556 kg)

*Minimum chassis weight is required to meet 85% stability requirements.

Chassis data is general - not for engineering. Some dimensions depend on truck selection.

OAH Overall Height
CT Cab to Tandem
CA Cab to Axle
WB Wheel Base
OAL Overall Length
BBC Bumper to Back of Cab
AF Afterframe
EOF End of Frame

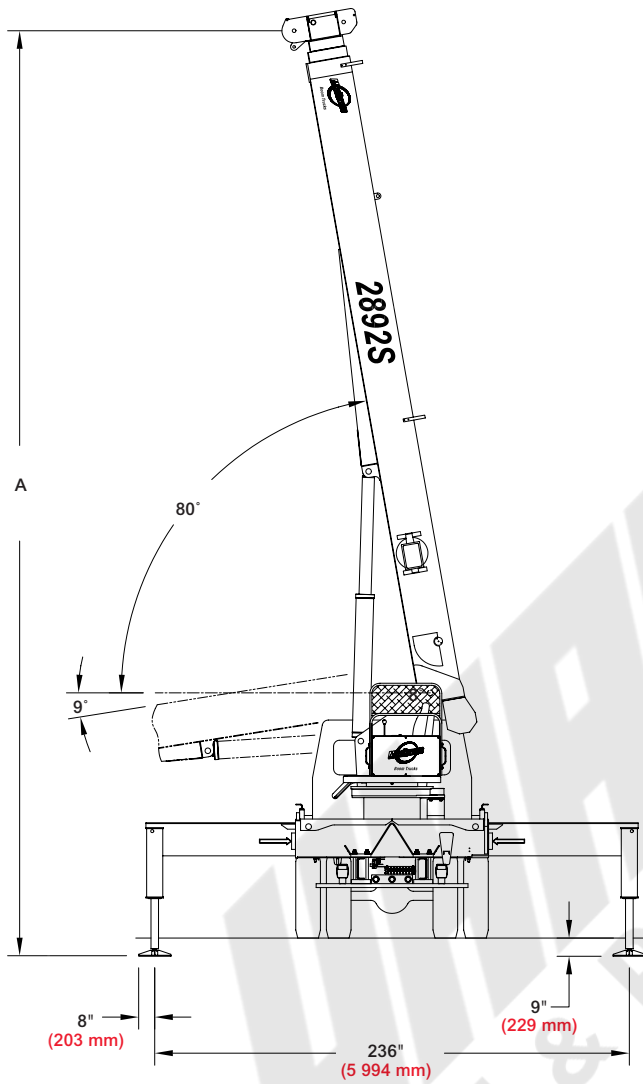
model 2892S



Manitowoc Boom Trucks

outline dimensions

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Maximum Tip Height (A)

Configuration	2892S
	Boom 92' 0" (28,0 m)
Extended Boom	101' 9" (30,8 m)
Fixed or Retracted Jib	128' 0" (39,0 m)
Extended Jib	147' 9" (45,0 m)

model 2892S

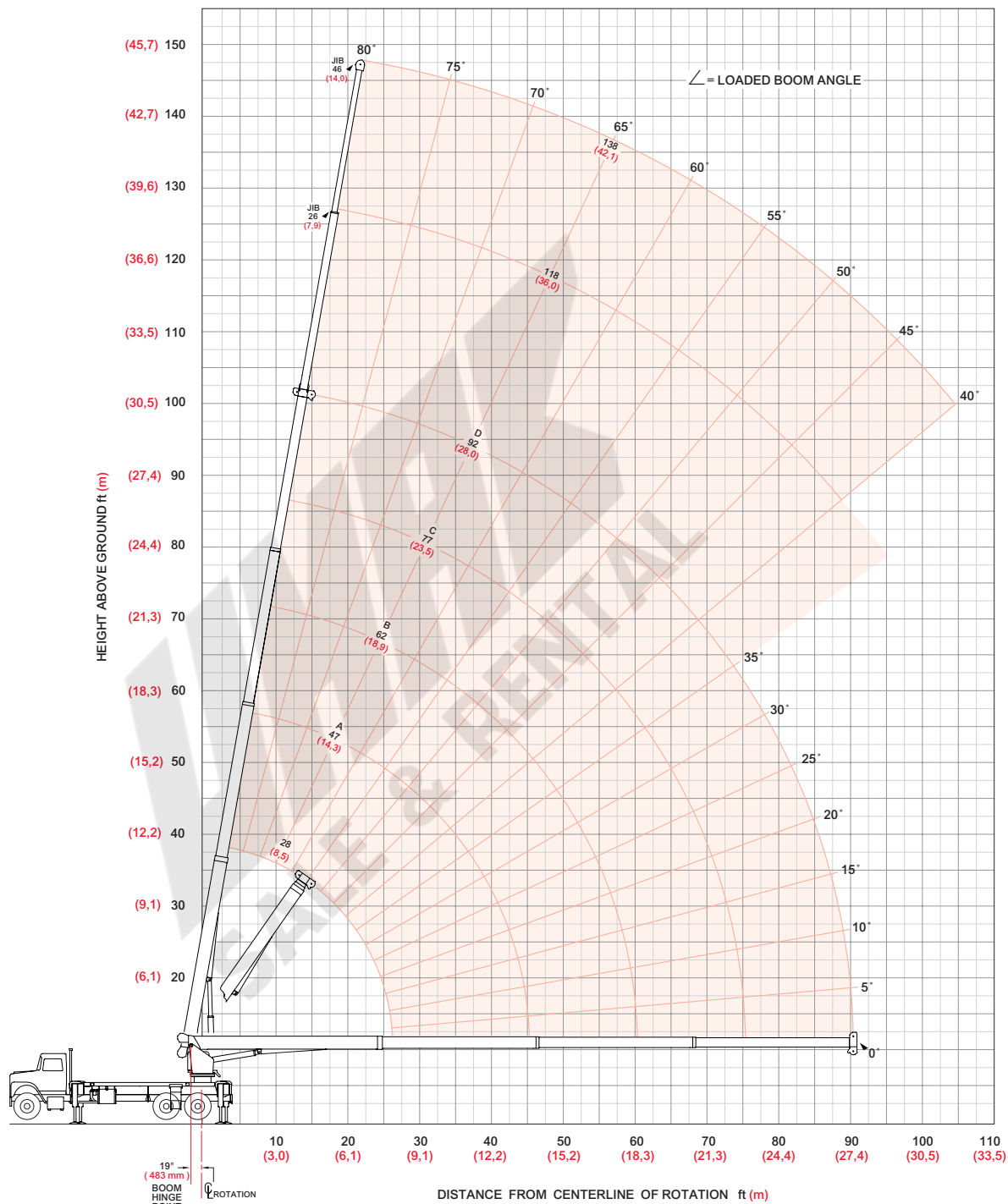


Manitowoc Boom Trucks

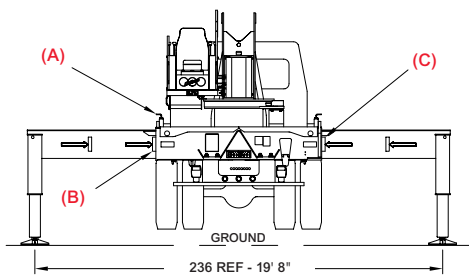
boom/jib range diagram

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2892S Range Diagram - Fully Extended



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- (A) Pins must be disengaged for this outrigger configuration
- (B) This mark indicates beam is fully extended
- (C) All outrigger beams must be extended to full extend mark

NOTE: Use this chart only when all outriggers are fully extended.

boom/jib load charts

2892S Load Ratings Fully Extended Outrigger Spread

2892S Jib Load Ratings

Boom/Jib ft (m)	A					B					C					D					Fixed Jib		Telescopic Jib			Boom/Jib ft (m)
	28 (8,5)	47 (14,3)	62 (18,9)	77 (23,5)	92 (28,0)	26 (7,9)	26 (7,9)	46 (14,0)	26 (7,9)	46 (14,0)	26 (7,9)	46 (14,0)	26 (7,9)	46 (14,0)	26 (7,9)	46 (14,0)	26 (7,9)	46 (14,0)	26 (7,9)	46 (14,0)	26 (7,9)	46 (14,0)				
Operating Radius ft (m)	∠	lb (kg)	∠	lb (kg)	∠	lb (kg)	∠	lb (kg)	∠	lb (kg)	∠	lb (kg)	∠	lb (kg)	∠	lb (kg)	∠	lb (kg)	∠	lb (kg)	∠	lb (kg)	∠	lb (kg)		
5 (1,5)	79°	56,000 (25 401)																						5 (1,5)		
8 (2,4)	72°	39,180 (17 772)																							8 (2,4)	
10 (3,1)	68°	32,980 (14 959)	78°	20,500 (9 299)																					10 (3,1)	
12 (3,7)	63°	28,530 (12 941)	75°	20,500 (9 299)	79°	20,500 (9 299)																			12 (3,7)	
15 (4,6)	56°	23,690 (10 749)	71°	20,500 (9 299)	77°	20,460 (9 281)	80°	15,900 (7 212)																	15 (4,6)	
20 (6,1)	42°	17,240 (7 820)	65°	16,660 (7 557)	72°	15,730 (7 135)	76°	13,540 (6 142)	79°	10,200 (4 627)															20 (6,1)	
25 (7,6)	21°	12,550 (5 693)	58°	12,930 (5 865)	67°	12,710 (5 765)	73°	11,710 (5 312)	76°	9,290 (4 214)	79°	5,600 (2 540)	79°	5,400 (2 449)											25 (7,6)	
30 (9,1)			50°	9,990 (4 531)	62°	10,100 (4 581)	69°	10,050 (4 559)	73°	8,330 (3 778)	77°	5,300 (2 404)	77°	5,100 (2 313)	79°	3,400 (1 542)									30 (9,1)	
35 (10,7)			41°	7,960 (3 611)	56°	8,070 (3 660)	64°	8,130 (3 688)	70°	7,320 (3 320)	75°	4,960 (2 250)	75°	4,700 (2 132)	77°	3,300 (1 497)									35 (10,7)	
40 (12,2)			30°	6,470 (2 935)	50°	6,590 (2 989)	60°	6,650 (3 016)	66°	6,460 (2 930)	72°	4,490 (2 037)	72°	4,230 (1 919)	76°	3,200 (1 451)									40 (12,2)	
45 (13,7)			10°	5,320 (2 413)	43°	5,460 (2 477)	55°	5,520 (2 504)	63°	5,560 (2 522)	70°	4,080 (1 851)	70°	3,820 (1 733)	74°	3,040 (1 379)									45 (13,7)	
50 (15,2)					36°	4,570 (2 073)	51°	4,630 (2 100)	59°	4,670 (2 118)	67°	3,710 (1 683)	67°	3,440 (1 560)	72°	2,800 (1 270)									50 (15,2)	
55 (16,8)					26°	3,840 (1 742)	45°	3,910 (1 774)	55°	3,950 (1 792)	65°	3,380 (1 533)	65°	3,100 (1 406)	69°	2,630 (1 193)									55 (16,8)	
60 (18,3)					9°	3,220 (1 461)	39°	3,320 (1 506)	51°	3,360 (1 524)	62°	3,080 (1 397)	62°	2,810 (1 275)	67°	2,480 (1 125)									60 (18,3)	
65 (19,8)							33°	2,760 (1 252)	46°	2,810 (1 275)	59°	2,820 (1 279)	59°	2,540 (1 152)	65°	2,310 (1 048)									65 (19,8)	
70 (21,3)							24°	2,290 (1 039)	42°	2,340 (1 061)	56°	2,470 (1 120)	56°	2,180 (989)	63°	2,110 (957)									70 (21,3)	
75 (22,9)							8°	1,880 (853)	36°	1,940 (880)	53°	2,070 (939)	53°	1,770 (803)	60°	1,940 (880)									75 (22,9)	
80 (24,4)									30°	1,600 (726)	50°	1,720 (780)	50°	1,430 (649)	58°	1,770 (803)									80 (24,4)	
85 (25,9)										22°	1,300 (590)	46°	1,420 (644)	46°	1,130 (513)	55°	1,580 (717)								85 (25,9)	
90 (27,4)										8°	1,030 (467)	42°	1,160 (526)	42°	870 (395)	52°	1,320 (599)								90 (27,4)	
95 (29,0)												38°	930 (422)	38°	640 (290)	49°	1,080 (490)								95 (29,0)	
100 (30,5)																46°	870 (395)								100 (30,5)	
105 (32,0)																43°	690 (313)								105 (32,0)	
Deduction*		460 (209)		270 (122)		210 (95)		170 (77)		140 (64)																
Deduction**		690 (313)		410 (186)		310 (141)		250 (113)		210 (95)																

*for stowed fixed jib
**for stowed telescopic jib

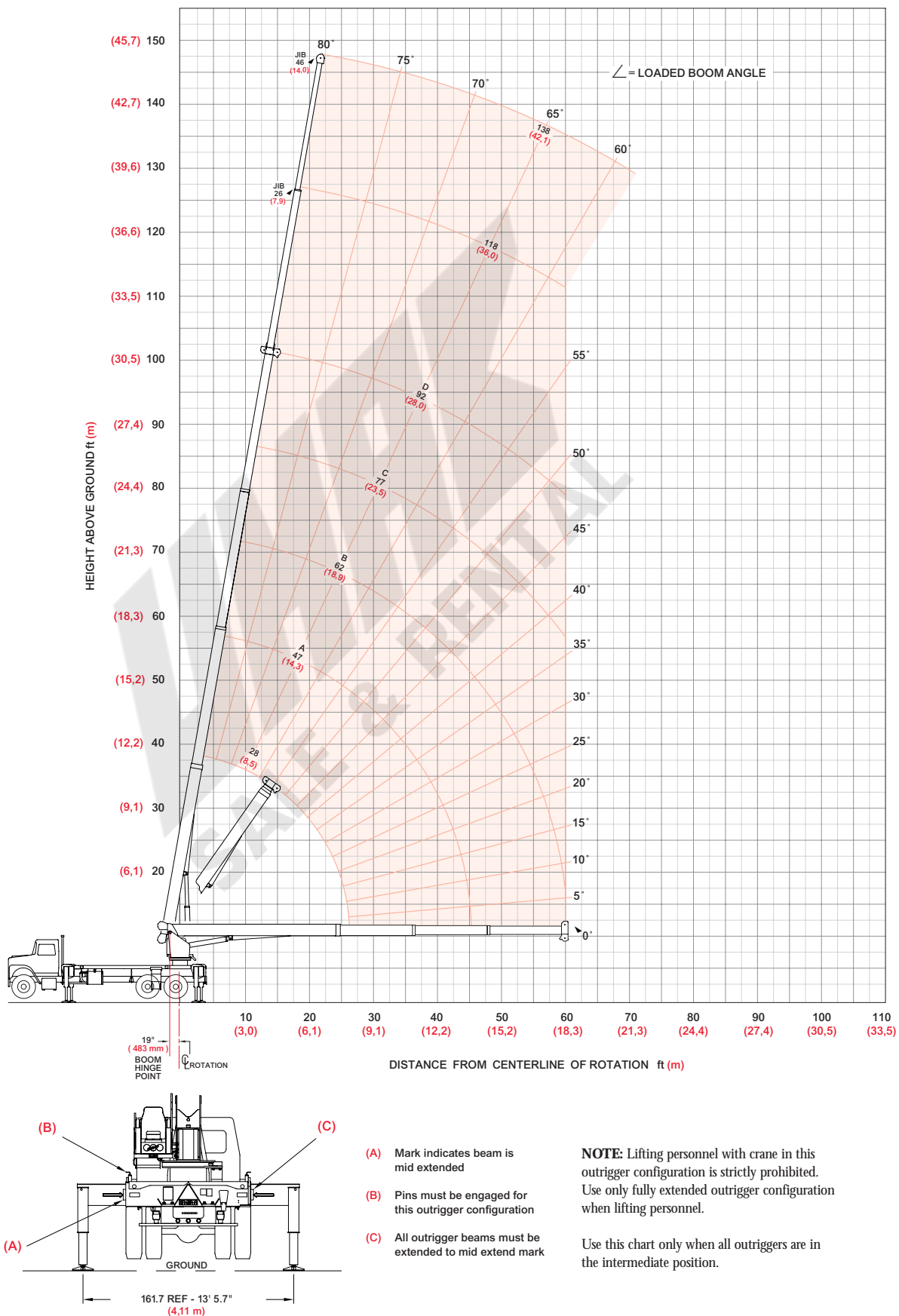
Meets ANSI B30.5 Requirements - Do not operate crane or accessories within 10' (3.05m) of live power lines.
NOTICE: This capacity chart is for reference only and must not be used for lifting purposes.

model 2892S



boom/jib range diagram

2892S Range Diagram - Intermediate



boom/jib load charts

2892S Load Ratings Intermediate Outrigger Spread

2892S Jib Load Ratings

2892S Load Ratings Intermediate Outrigger Spread						2892S Jib Load Ratings						
Boom/Jib ft (m)	A		B		C		D		Fixed Jib	Telescopic Jib		Boom/Jib ft (m)
	28 (8,5)	47 (14,3)	62 (18,9)	77 (23,5)	92 (28,0)	26.0 (7,9)	26.0 (7,9)	46 (14,0)				
Operating Radius ft (m)	∠	∠	∠	∠	∠	∠	∠	∠	∠	∠	∠	Operating Radius ft (m)
	lb (kg)	lb (kg)	lb (kg)	lb (kg)	lb (kg)	lb (kg)	lb (kg)	lb (kg)	lb (kg)	lb (kg)	lb (kg)	
5 (1,5)	79° 56,000 (25 401)											5 (1,5)
8 (2,4)	72° 39,180 (17 772)											8 (2,4)
10 (3,1)	68° 32,980 (14 959)	78° 20,500 (9 299)										10 (3,0)
12 (3,7)	63° 28,530 (12 941)	75° 20,500 (9 299)	79° 20,500 (9 299)									12 (3,7)
15 (4,6)	56° 21,070 (9 557)	71° 20,500 (9 299)	77° 20,460 (9 281)	80° 15,900 (7 212)								15 (4,6)
20 (6,1)	42° 11,830 (5 366)	65° 12,280 (5 570)	72° 12,430 (5 638)	76° 12,520 (5 679)	79° 10,200 (4 627)							20 (6,1)
25 (7,6)	21° 7,600 (3 447)	58° 8,070 (3 660)	67° 8,200 (3 719)	73° 8,280 (3 756)	76° 8,330 (3 778)	79° 5,600 (2 540)	79° 5,400 (2 449)					25 (7,6)
30 (9,1)		50° 5,660 (2 567)	62° 5,790 (2 626)	69° 5,860 (2 658)	73° 5,910 (2 681)	77° 5,300 (2 404)	77° 5,100 (2 313)	79° 3,400 (1 542)				30 (9,1)
35 (10,7)		41° 4,100 (1 860)	56° 4,230 (1 919)	64° 4,300 (1 950)	70° 4,350 (1 973)	75° 4,470 (2 028)	75° 4,160 (1 887)	77° 3,300 (1 497)				35 (10,7)
40 (12,2)		30° 3,000 (1 361)	50° 3,140 (1 424)	60° 3,210 (1 456)	66° 3,250 (1 474)	72° 3,360 (1 524)	72° 3,060 (1 388)	76° 3,200 (1 451)				40 (12,2)
45 (13,7)		10° 2,160 (980)	43° 2 330 (1 057)	55° 2,400 (1 089)	63° 2,440 (1 107)	70° 2,540 (1 152)	70° 2,240 (1 016)	74° 2,730 (1 238)				45 (13,7)
50 (15,2)			36° 1,700 (771)	51° 1,780 (807)	59° 1,820 (826)	67° 1,910 (866)	67° 1,610 (730)	72° 2,090 (948)				50 (15,2)
55 (16,8)			26° 1,200 (544)	45° 1,280 (581)	55° 1,320 (599)	65° 1,410 (640)	65° 1,110 (503)	69° 1,580 (717)				55 (16,8)
60 (18,3)			9° 780 (354)	39° 880 (399)	51° 920 (417)	62° 1,010 (458)	62° 700 (318)	67° 1,170 (531)				60 (18,3)
65 (19,8)								65° 830 (376)				65 (19,8)
70 (21,3)								63° 540 (245)				70 (21,3)
Deduction*	460 (209)	270 (122)	210 (95)	170 (77)	140 (64)							
Deduction**	690 (313)	410 (186)	310 (141)	250 (113)	210 (95)							

*for stowed fixed jib

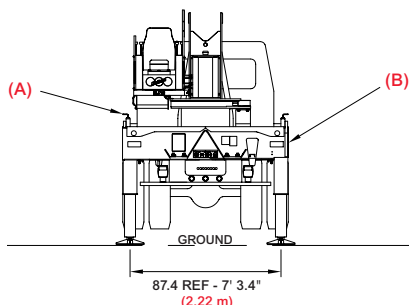
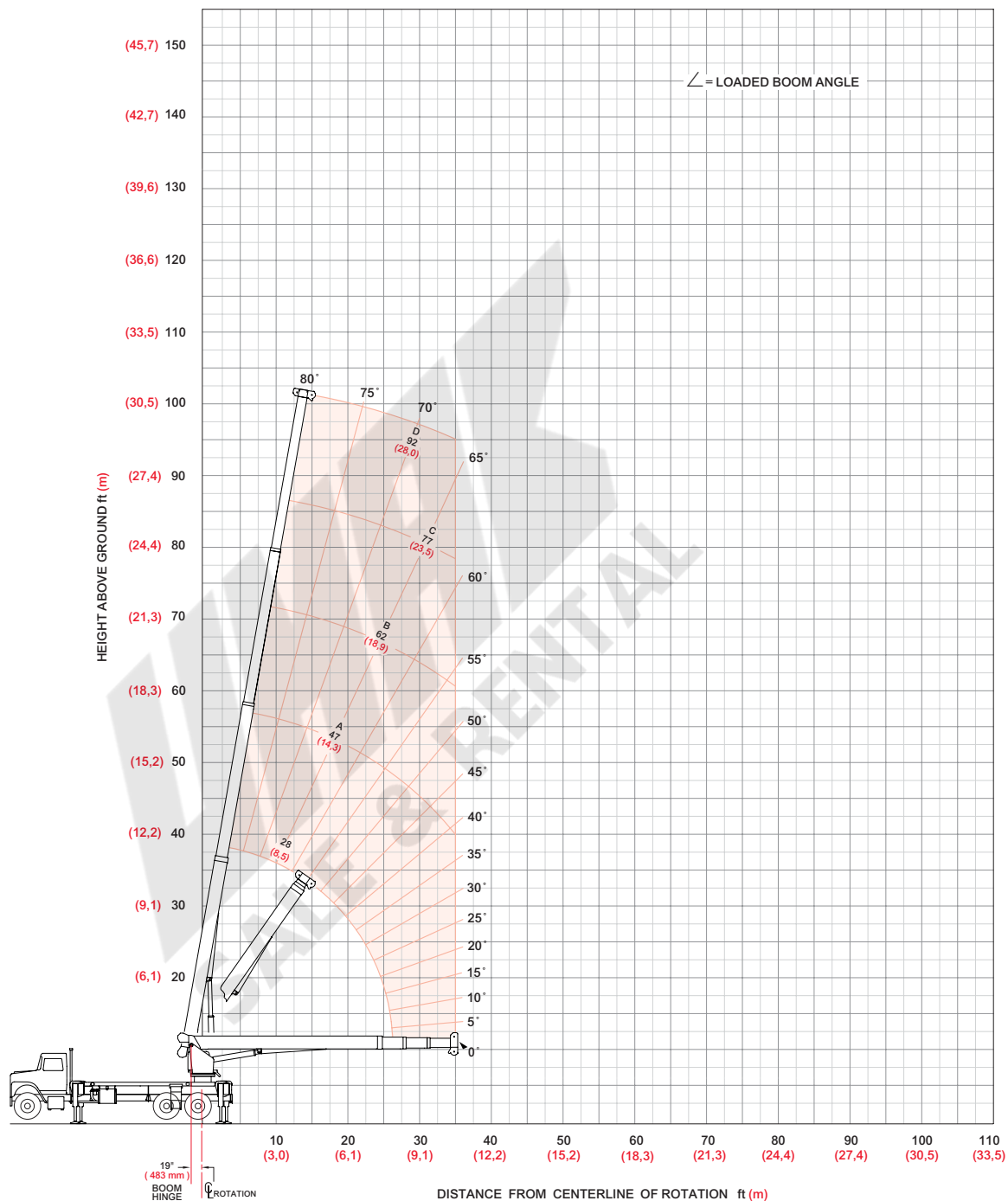
**for stowed telescopic jib

Meets ANSI B30.5 Requirements - Do not operate crane or accessories within 10' (3.05m) of live power lines.
 NOTICE: This capacity chart is for reference only and must not be used for lifting purposes.

boom/jib range diagram

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2892S Range Diagram - Fully Retracted



- (A) Pins must be disengaged for this outrigger configuration
- (B) All outrigger beams must be fully retracted

NOTE: Lifting personnel with crane in this outrigger configuration is strictly prohibited. Use only fully extended outrigger configuration when lifting personnel.

Use this chart only when all outriggers are fully retracted.

model 2892S



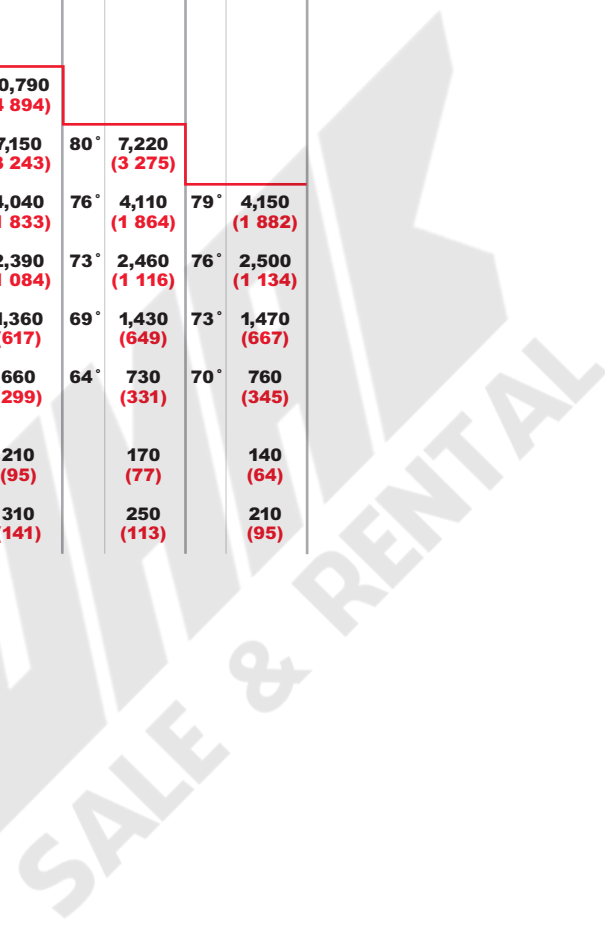
boom/jib load charts

2892S Load Ratings Fully Retracted Outrigger Spread

Boom/Jib ft (m)	A		B		C		D	
	28 (8,5)	47 (14,3)	62 (18,9)	77 (23,5)	92 (28,0)			
Operating Radius ft (m)	∠ lb (kg)	∠ lb (kg)	∠ lb (kg)	∠ lb (kg)	∠ lb (kg)	∠ lb (kg)	∠ lb (kg)	∠ lb (kg)
5 (1,5)	79° 56,000 (25 401)							
8 (2,4)	72° 22,730 (10 310)							
10 (3,1)	68° 14,530 (6 591)	78° 14,970 (6 790)						
12 (3,7)	63° 10,250 (4 649)	75° 10,650 (4 831)	79° 10,790 (4 894)					
15 (4,6)	56° 6,650 (3 016)	71° 7,020 (3 184)	77° 7,150 (3 243)	80° 7,220 (3 275)				
20 (6,1)	42° 3,560 (1 615)	65° 3,930 (1 783)	72° 4,040 (1 833)	76° 4,110 (1 864)	79° 4,150 (1 882)			
25 (7,6)	21° 1,880 (853)	58° 2,280 (1 034)	67° 2,390 (1 084)	73° 2,460 (1 116)	76° 2,500 (1 134)			
30 (9,1)		50° 1,250 (567)	62° 1,360 (617)	69° 1,430 (649)	73° 1,470 (667)			
35 (10,7)			56° 660 (299)	64° 730 (331)	70° 760 (345)			
Deduction*	460 (209)	270 (122)	210 (95)	170 (77)	140 (64)			
Deduction**	690 (313)	410 (186)	310 (141)	250 (113)	210 (95)			

*for stowed fixed jib

**for stowed telescopic jib



model 2892S

Meets ANSI B30.5 Requirements - Do not operate crane or accessories within 10' (3.05m) of live power lines.
 NOTICE: This capacity chart is for reference only and must not be used for lifting purposes.



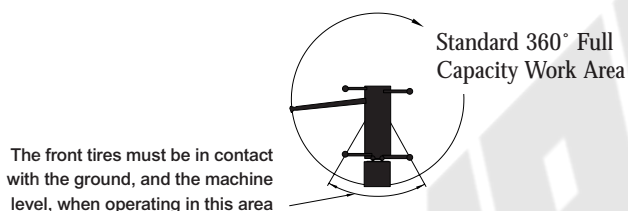
load chart data

12

Deductions

Auxiliary Block	50 lb (23 kg)
Auxiliary Sheave	50 lb (23 kg)
Overhaul Ball	See manufacturer's nameplate
Load Block	See manufacturer's nameplate
Hose Reel	140 lb (64 kg)
Swing-Around Jib	See load rating chart

Area of Operation



Allowable Line Pull

1 Part Line	2 Part Line	3 Part Line	4 Part Line	5 Part Line	6 Part Line	7 Part Line
7,400 lb (3 357 kg)	14,800 lb (6 713 kg)	22,200 lb (10 070 kg)	29,600 lb (13 426 kg)	37,000 lb (16 783 kg)	44,400 lb (20 140 kg)	51,800 lb (23 496 kg)
8,500 lb (3 856 kg)	17,000 lb (7 711 kg)	25,500 lb (11 567 kg)	34,000 lb (15 422 kg)	42,500 lb (19 278 kg)	51,000 lb (23 133 kg)	56,000 lb (25 401 kg)

9/16" 6 x 25 IWRC (3.5:1 SF) – 29,750 lb Min Breaking Strength
 9/16" Rotation Resistant (5.0:1 SF) – 37,000 lb Min Breaking Strength

Warning

Anti-two-block system must be in good operating condition before operating crane. Refer to the owner's manual. Keep at least three wraps of load line on the drum at all times.

CraneCARE is Manitowoc Boom Trucks' complete service and support program. Incorporated into this program are service training, immediate parts availability, professional field service, and technical support and documentation. CraneCARE is available for every one of the thousands of cranes still operating all over the world.

That's dedication and devotion that you won't get anywhere else.

That's **CraneCARE**.

Service Training

A certified Manitowoc Boom Trucks service specialist works with you in your training facility or in the field to ensure that you know how to achieve maximum performance, dependability, and years from your cranes.

A reputable Manitowoc Boom Trucks Service technician comes to you to provide valuable training to all distributors on the crane's LMI system.

Parts Availability

Genuine Manitowoc Boom Trucks replacement parts may be obtained through your MBT distributor on a regular basis.

Hydraulic Test Kit with Case – Part No. 499792-9

- Small national O-ring kit
- Pressure gauges
- Fluke multi-meter
- Hydraulic flow meters
- Multi-load grease gun
- 6-drawer tool box
- 17-piece wrench set

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.manitowocbt.com.

Technical Support

Manitowoc Boom Trucks' 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.

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

Technical Documentation

Manitowoc Boom Trucks boast an extensive, easy-to-understand library of documentation.

A complete set of Operator's parts and service manuals are included with each crane.

Additional copies are available through your Authorized Manitowoc Boom Trucks Distributor.





Backed by Manitowoc Boom Trucks,
part of Manitowoc Crane Group

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Maniowoc Boom Trucks

Maniowoc Boom Trucks
3000 South Austin Avenue
P.O. Box 1609
Georgetown, TX, USA 78627-1609
Telephone 512-942-3000
Facsimile 512-863-3776
www.manitowocbt.com