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# model 26101C



## product guide

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## features

- 26 ton (23 mton) capacity
- 4-section, 101' (30,8 m) proportional boom
- 112' 2" (34,2 m) maximum main boom tip height
- 141' 4" (43,1 m) maximum tip height
- 1-section jib
- 2-speed planetary hoist with grooved drum and negative draft flange
- Load moment indicator with digital display and overload shutdown
- Removable boom rest
- 21' 6" (6,6 m) A-frame outriggers
- System pressure gauge
- Rugged, weatherproof, automotive style electrical system
- Manitex UPTIME comprehensive support

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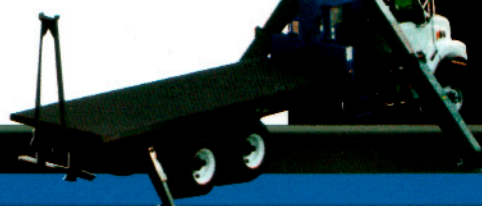
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### Boom

**Booms** – Inverted T-cross section, 4-section telescoping type, extended and retracted proportionally by double-acting hydraulic cylinder and cable-crowd system. 4-section 29' 5.25" (9,0 m) to 101' 5.25" (30,9 m). Maximum main boom tip height 112' 2" (34,2 m). 1-section, 29' (8,8 m) jib. Maximum tip height 141' 4" (43,1 m).

**Boom Points** – Three high-density nylon sheaves mounted on heavy-duty roller bearings. Two removable pin-type rope guards. Quick-reeve boom point.

**Boom Elevation** – Double-acting hydraulic cylinder. Working range from 9.5° below horizontal to 80.5° above.

**Load Hook** – 5-ton capacity hook with heavy-duty swivel and weight is provided for single-line operation.



### Hoist

**Hoist** – Maximum theoretical line speed 247 fpm (75,3 mpm). Maximum theoretical bottom-layer line pull 12,000 lbs (5 443 kg). Two-speed planetary reducer. Spring-applied, pressure-released internal brake. Wet multi-disc internal brake is spring-applied, pressure-released.

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



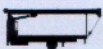
### Swing System

Externally mounted, double-reduction planetary driven by hydraulic motor. Maximum theoretical swing speed 1.5 rpm. Wet multi-disc internal brake is spring applied, pressure released. Oversized diameter ball bearing swing circle with external gear. 372° non-continuous rotation.



### Outriggers

21' 6" (6,6 m) Extended A-frame link type. Operated independently for precise leveling. Equipped with double-acting hydraulic cylinders.



### Mounting

**Mounting** – Pedestal and subframe are mounted to chassis by threaded rods and clamp plates. No welding, drilling or bolting to truck frame is required.

**A-Frame Stabilizers** – 8' (2,4 m) retracted; 10' (3,1 m) extended. Operated independently for precise leveling. Double-acting hydraulic cylinders. Fixed pad size is 8" (203,2 mm) x 11.375" (288,9 mm).

**Subframe** – Torsionally resistant, rigid 4-plate design, mounted under crane full length of truck frame.

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

**Boom Rest** – Heavy-duty, fabrication. Easily removed to simplify loading and unloading truck deck.



### Control System

Dual operator platforms are equipped with four single-lever crane controls arranged to ANSI B30.5 standards. Fully proportional control valves and system pressure gauge. Each station also includes outrigger and stabilizer controls, engine start/stop, foot throttle, signal horn, boom-angle indicator, bubble levels, load charts, range diagram and audio and/or visual indicators to warn operator of overload condition.



### Hydraulics

**Hydraulic System** – A 3-section vane pump direct-mounted to power take-off on truck transmissions provides 35 gpm (133 lpm) to the hoist, 8 gpm (30 lpm) to the swing circuit and 18 gpm (68 lpm) to the remaining crane functions. A 70-gallon (265-liter) baffled reservoir includes a 25-micron return line filter and magnetic plug. A ball valve on the suction line from the tank to pump. Extensive use of SAE O-ring face seal hydraulic fittings where possible.

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

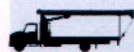


### Warning Systems

**Load Moment Indicator** – 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 relative crane configuration and load conditions via display at the operator station.

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

**Back-Up Alarm** – Supplied on factory-mounted cranes, electronic audible motion alarm activated when truck transmission is in reverse gear.



### 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. Boom must be fully retracted when jib is erected, before lowering boom thru this area.
6. For boom angles not shown on jib load rating chart, use rating of next lower boom angle.
7. For boom angles shown on jib load rating chart, use rating of next lower boom angle.
8. 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.
9. 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.
10. 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.
11. 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.

# specifications

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12. 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.

13. Do not operate a Manitowoc truck-mounted crane or accessories within 10' (3,05 m) of live power lines.

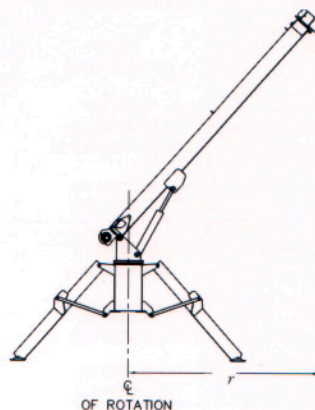
14. This capacity chart is for reference only and must not be used for specific serial number cranes.

## Information

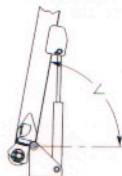
1. Deductions must be made from rated loads for stowed jib, optional attachments, hooks, and load-blocks (see deduction chart). Weights of slings and all other load-handling devices shall be considered a part of the load.
2. Crane load ratings with outriggers are based on outriggers and stabilizers extended and set with machine leveled.
3. 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, Manitex reserves the right to change product specifications without notice.

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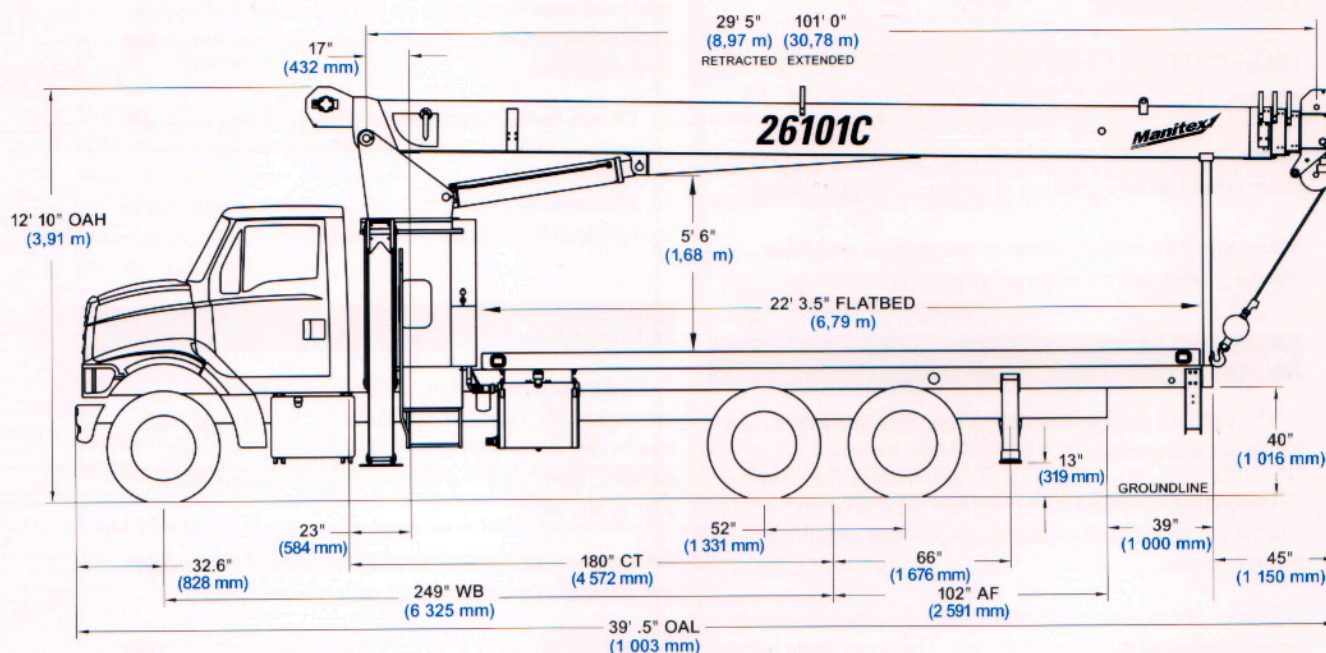


# outline dimensions

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## Chassis Data

Minimum Truck Requirements	26101C
Wheelbase (WB)	249" (6 325 mm)
Cab to Tandem (CT)	180" (4 572 mm)
After Frame (AF)	102" (2 591 mm)
Frame Section Modulus (For 360° rotation minimum frame section modulus is 25.0 in <sup>3</sup> )	15.9 in <sup>3</sup> 110,000 psi (758 450 kPa)
Front Axle Gross Weight Rating	16,000 lb (7 257 kg)
Rear Tandem Axle Gross Weight Rating	34,000 lb (15 422 kg)
Minimum Truck Axle Weight - Front*	8,000 lb (3 629 kg)
Minimum Truck Axle Weight - Back*	8,000 lb (3 629 kg)
Nominal Frame Width	34 - 35" (864 - 889 mm)

## Weights

Total Crane	18,970 lb (8 605 kg)
29' (8,84 m) Fixed Length Jib	630 lb (286 kg)
22' (6,71 m) Flat Bed	2,000 lb (907 kg)

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

Additional options and/or heavier bare chassis weights may require additional axles or higher axle ratings. Special permits for overload and front overhang may be required in some states. Consult factory before finalizing truck specifications.

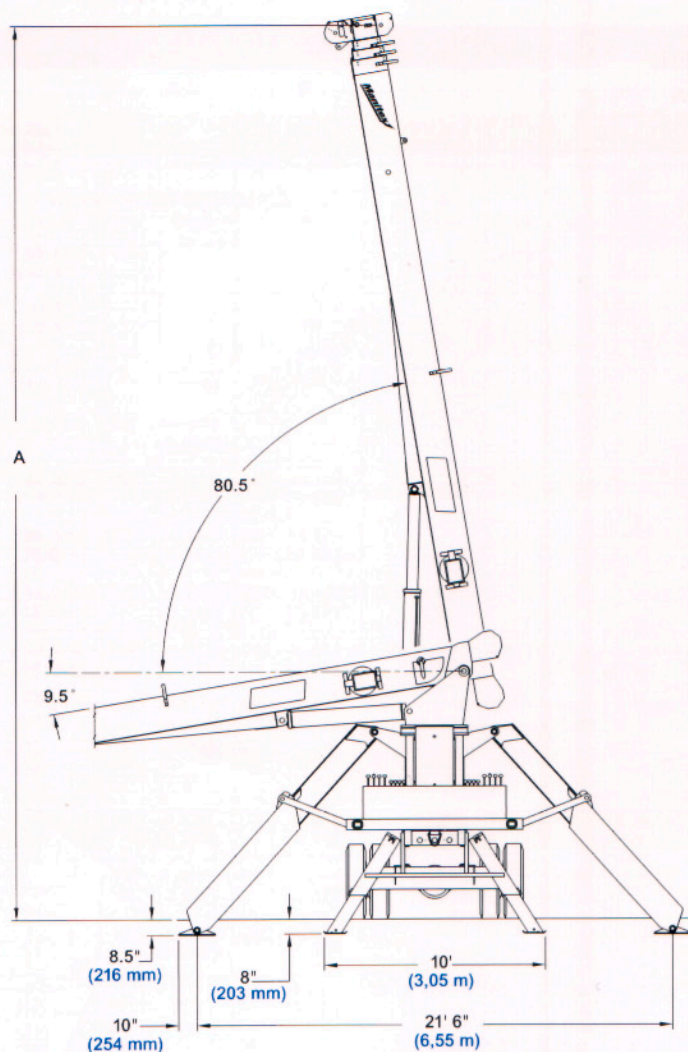
Chassis data is general - not for engineering. Some dimensions depend on truck selection.

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

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### Maximum Tip Height A

Configuration	Boom 101' (30,8 m)
Extended Boom	112' 2" (34,2 m)
Fixed or Retracted Jib	141' 4" (43,1 m)



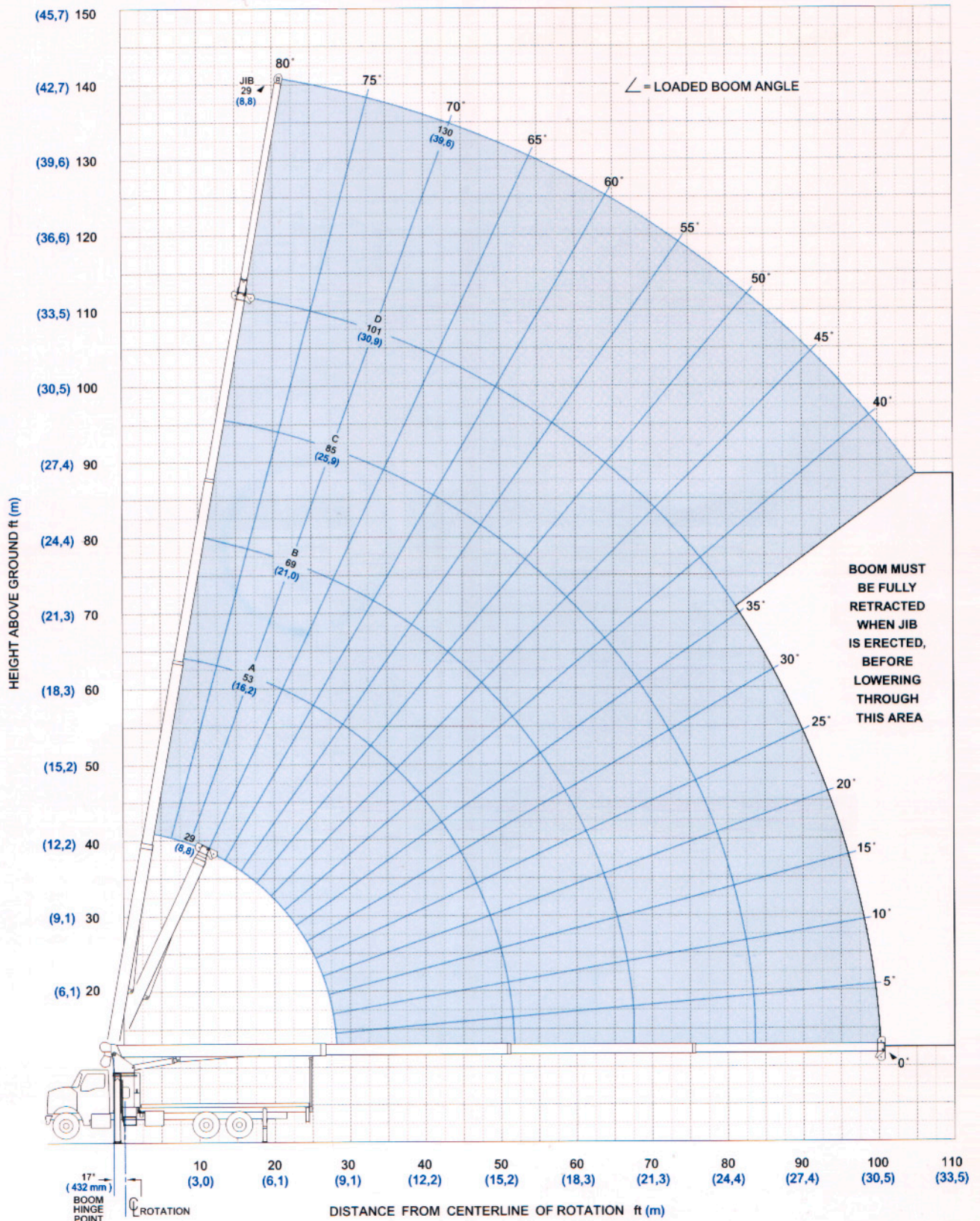
# boom/jib range diagram

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**26101C Range Diagram**





### 26101C Load Ratings

		A		B		C		D		Fixed Jib			
Boom/Jib ft (m)		29 (9,0)	53 (16,2)	69 (21,0)	85 (25,9)	101 (30,9)				29 (8,8)	Boom/Jib ft (m)		
Operating Radius ft (m)		lb (kg)	lb (kg)	lb (kg)	lb (kg)	lb (kg)				lb (kg)	Operating Radius ft (m)		
5 (1,5)	80°	52,000 (23 587)									5 (1,5)		
8 (2,4)	74°	37,330 (16 933)									8 (2,4)		
10 (3,1)	70°	31,700 (14 379)									10 (3,1)		
12 (3,7)	66°	27,700 (12 565)	78°	14,000 (6 350)							12 (3,7)		
14 (4,3)	61°	24,690 (11 199)	76°	14,000 (6 350)	80°	14,000 (6 350)					14 (4,3)		
17 (5,2)	54°	21,200 (9 616)	72°	14,000 (6 350)	78°	12,880 (5 842)					17 (5,2)		
20 (6,1)	46°	18,030 (8 178)	69°	13,700 (6 214)	75°	11,430 (5 185)	79°	8,920 (4 046)			20 (6,1)		
25 (7,6)	29°	14,120 (6 405)	63°	11,070 (5 021)	71°	9,460 (4 291)	75°	8,000 (3 629)	79°	6,000 (2 722)	25 (7,6)		
30 (9,1)			56°	9,170 (4 160)	66°	8,210 (3 724)	72°	7,070 (3 207)	76°	5,500 (2 495)	30 (9,1)		
35 (10,7)			49°	7,850 (3 561)	61°	6,970 (3 162)	68°	6,130 (2 781)	73°	4,980 (2 259)	35 (10,7)		
40 (12,2)			41°	6,120 (2 776)	56°	5,980 (2 713)	65°	5,320 (2 413)	70°	4,490 (2 037)	40 (12,2)		
45 (13,7)			31°	4,890 (2 218)	51°	5,020 (2 277)	61°	4,640 (2 105)	67°	4,000 (1 814)	45 (13,7)		
50 (15,2)			17°	3,950 (1 792)	45°	4,090 (1 855)	57°	4,070 (1 846)	64°	3,580 (1 624)	50 (15,2)		
55 (16,8)					38°	3,370 (1 529)	52°	3,440 (1 560)	61°	3,200 (1 452)	55 (16,8)		
60 (18,3)					30°	2,790 (1 266)	47°	2,860 (1 297)	57°	2,850 (1 293)	60 (18,3)		
65 (19,8)					19°	2,310 (1 048)	42°	2,390 (1 084)	54°	2,430 (1 102)	64°	1,670 (758)	65 (19,8)
70 (21,3)							36°	1,990 (903)	50°	2,040 (925)	62°	1,520 (689)	70 (21,3)
75 (22,9)						29°	1,650 (748)	45°	1,700 (771)	59°	1,380 (626)	75 (22,9)	
80 (24,4)						20°	1,360 (617)	41°	1,420 (644)	56°	1,230 (558)	80 (24,4)	
85 (25,9)								36°	1,160 (526)	53°	1,080 (490)	85 (25,9)	
90 (27,4)								30°	950 (431)	50°	950 (431)	90 (27,4)	
95 (29,0)								22°	750 (340)	47°	830 (376)	95 (29,0)	
100 (30,5)								3°	570 (259)	44°	690 (313)	100 (30,5)	
105 (32,0)										40°	530 (240)	105 (32,0)	

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

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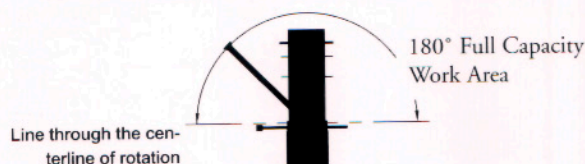
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## Deductions

<b>Auxiliary Block</b>	50 lb (23 kg)
<b>Overhaul Ball</b>	See manufacturer's nameplate
<b>Load Block</b>	See manufacturer's nameplate
<b>Hose Reel</b>	160 lb (73 kg)
<b>Swing-Around Jib (stowed)</b>	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
<b>7,400 lb</b> (3 357 kg)	<b>14,800 lb</b> (6 713 kg)	<b>22,200 lb</b> (10 070 kg)	<b>29,600 lb</b> (13 426 kg)	<b>37,000 lb</b> (16 783 kg)	<b>44,000 lb</b> (19 958 kg)
<b>8,500 lb</b> (3 856 kg)	<b>17,000 lb</b> (7 711 kg)	<b>25,500 lb</b> (11 567 kg)	<b>34,000 lb</b> (15 422 kg)	<b>42,500 lb</b> (19 278 kg)	<b>44,000 lb</b> (19 958 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.

Lifting off the main boom point while the swing around jib is erected is not intended or approved.

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