

LARGE OTR TIRE SERVICE TRUCK

STELLAR® 28000 OTR

TECHNICAL SPECIFICATION GUIDE



The Stellar 28000 OTR series tire service crane fits the need of OTR tire service technicians who need something that can handle it all. A 320-degree turntable rotation system driven by a worm gear / pinion system ensures rock solid performance. This crane features a lifting capacity of 28,000 lbs. at 10' and 17,200 lbs. at 16'3" of total reach, without the tire manipulator.

Stellar's modified A-frame stabilizer design is an industry first. The Stellar 28000 OTR offers the stability and durability of A-frame stabilizers with the diversity of out and down style outriggers. By modifying the A-frame geometry and using dual cylinders we are able to allow A-frame stability at differing widths.

The TM16160 tire manipulator offers over 143 degrees of articulation and 315 degrees rotation, along with continuous rotating pads. With a clamping width of 160", it can easily handle tire and tire rim combinations up to 16,500 lbs. The unique parallelogram design of the TM16160 not only gives it considerable clamping width, but it also has the ability to clamp tires as small as 56".



Service Body Features

- 20' long body
- Heavy duty steel construction
- Flatbody has eight (8) D-ring tie downs
- Stainless steel rotary slam latches
- Slide top doors on all tool compartments
- Recessed, skirt-mounted halogen floodlights
- Rubber mounted running lights
- Entire body is undercoated

Crane Features

- Rotation is accomplished through a turntable bearing
- Fully proportional radio remote control
- Fully enclosed extension boom cylinder
- Hexagon-shaped secondary and extension
- Integral-mounted pump and PTO on chassis
- Load-holding counterbalance valves

SPECIFICATIONS

Specifications

Crane Rating:	280,000 ft-lbs (38.73 t-m)
Standard Boom Length:	13' 2" (4.01 m)
Boom Extension:	Hydraulic 37" (93.98 cm)
Max. Horizontal Reach:	16' 3" (4.95 m)
Max. Vertical Lift:	25' (7.62 m)
Rotation:	315 degree power (planetary reduction)
Lifting Capacities:	28,000 lbs. @ 10 foot (12,701 kg @ 3.05 m) 21,300 lbs. @ 13 foot 2 in. (9,662 kg @ 4.01 m) 17,200 lbs. @ 16 foot 3 in. (7,802 kg @ 4.95 m)
Power Supply Req:	16 gpm @ 4200 psi - PTO & Pump (60.6 lpm @ 290 bar)
Controls:	Proportional paddle controls
Stowed Height:	114" (289.56 cm)
Mounting Space Req:	48" (121.92 cm)
Shipping Weight:	13,000 lbs. (5,897 kg)

Specifications

Tireman Capacity:	16,500 lbs @ 15 ft. (7,484 kg @ 4.57 m)
Clamping Span:	40" to 158" (102 cm to 401 cm)
Clamp Cylinders:	4.50 in. (11.43 cm) w/pilot operated check valve
Tilt Cylinder:	Provided by crane extension boom
Body Rotation:	315-degree power
Rotation System:	Rotation bearing & worm driven gear box
Clamping Pad Rotation:	Continuous 360-degree power
Tilt:	+80 degrees to -20 degrees
Hydraulic Controls:	Incorporated with the crane controls
Shipping Weight:	6000 lbs. (2,722 kg)

Compressor

SHD-245 direct driven, mounted above deck for maintenance ease
4-cylinder, 2-stage capable of 110 CFM @ 175 PSI

28000 Crane



Optional rear mount configuration is available.

NOTE: All Stellar cranes meet ANSI B30.22 and OSHA 1910.180 specifications.