

TR 110 Series Roughnecks





For more than two decades, Premium Oilfield Technologies has earned its reputation through engineering innovation, field-proven durability, and an uncompromising commitment to safety and performance.

What began as a product-focused manufacturer has evolved into a **full-scale technology partner** trusted by drilling contractors and operators around the world to keep rigs operating and crews protected. Throughout its history, Premium has modernized equipment, introduced next generation systems, and expanded its portfolio with **equipment built to withstand the escalating demands of modern drilling**. As wells have become longer, environments harsher, and efficiency expectations higher, Premium has continued to **adapt and lead with solutions** that deliver measurable value on the rig floor.

The development of the TR-110 Roughneck represents a major milestone in that evolution. Built on decades of field experience and high-cycle equipment performance, the TR-110 was engineered to deliver exceptional torque output, superior pipe handling control, and the reliability required for today's extended laterals.

TR 110 Series Roughnecks



The Premium TR-110 brings a modular, sleek and robust design to the modern oilfield environment. Built to tackle premium connections with ease, the TR-110 is designed with a small footprint to replace all existing iron roughnecks with minimum to no rig modifications required.

Performance

- Torque accuracy
- Dual torque cylinder system
- Optimized geometry
- Floating upper grip system
- Makes or breaks connections with a single bite
- Automation capable
- Advanced rotation from control panel

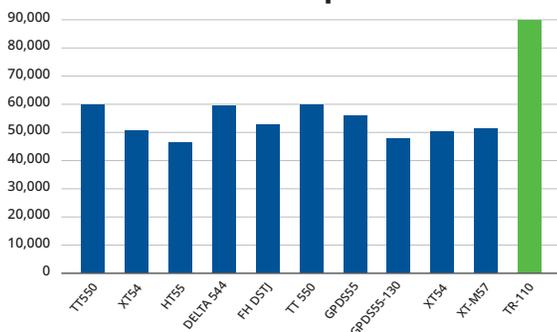
Service

- Safety: smaller footprint leaves more area for rig crews to work
- Minimal grease points
- Extended life spinner rollers
- Easy access to hydraulic hoses, cylinders, motors and consumables
- Control panel can be installed on left or right sides of the tool

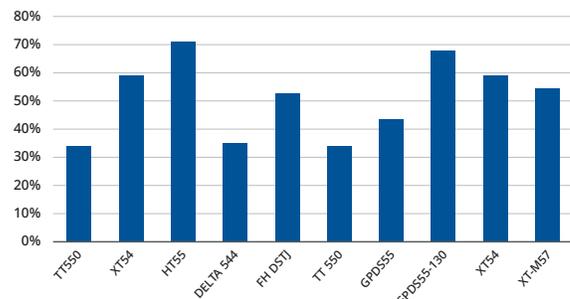
Total Cost of Ownership

- Simple installation
- Low cost of maintenance
- Competitively priced
- Can install on any existing rig socket with minimum to no rig modification required.

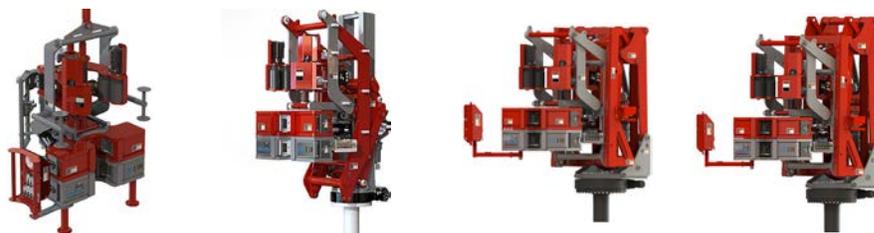
Max Torque



TR-110 Margin Over 6 5/8" Tool Joint

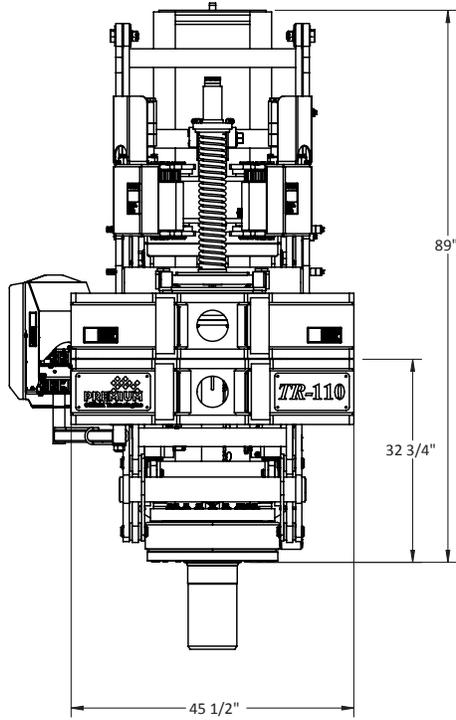


Specifications and Models

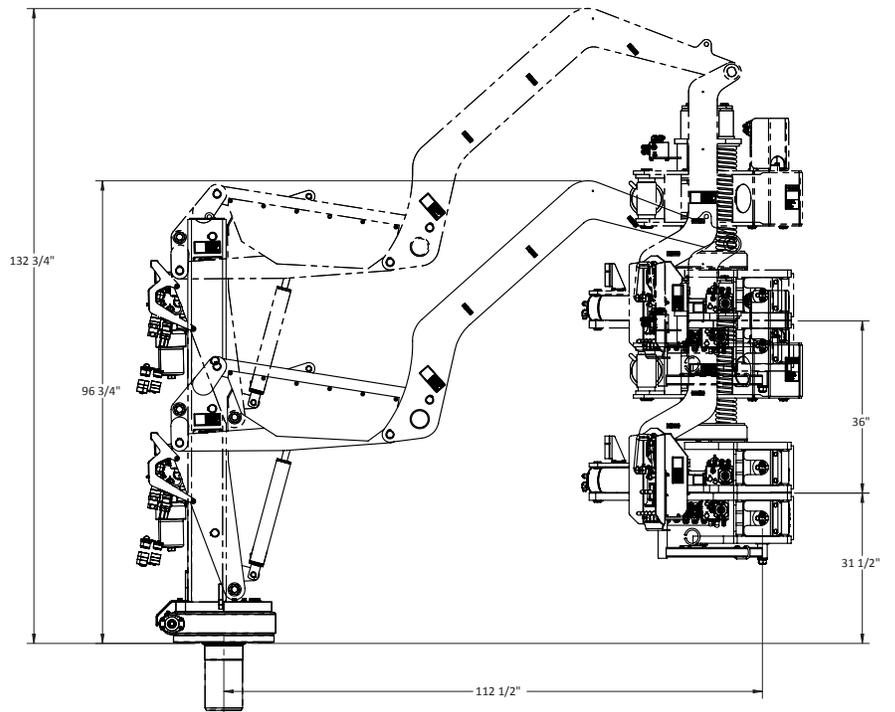
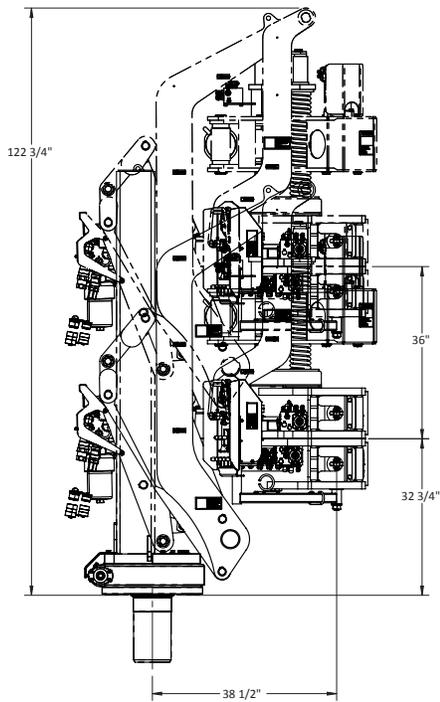
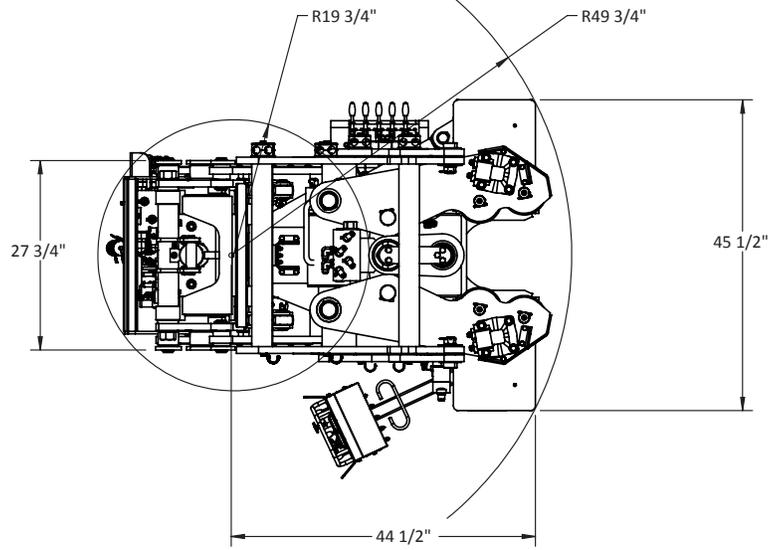


Specification	TR-110 H	TR-110	TR-110 L	TR-110 XR
Torque: Make-up	90,000 ft-lbs	90,000 ft-lbs	90,000 ft-lbs	90,000 ft-lbs
Torque: Break-out	110,000 ft-lbs	110,000 ft-lbs	110,000 ft-lbs	110,000 ft-lbs
Spinner Torque	2000 ft-lbs	2000 ft-lbs	2000 ft-lbs	2000 ft-lbs
Tubular Range	3.5" - 10"	3.5" - 10"	3.5" - 10"	3.5" - 10"
Connection OD	4" - 10"	4" - 10"	4" - 10"	4" - 10"
Torque Rotation Angle	35°	35°	35°	35°
Spinner Thread Compensation	±5"	±5"	±5"	±5"
Effective Horizontal Travel	NA	73"	92"	110"
Horizontal Reach*	NA	112"	136"	154"
Vertical Travel	84"	36"	36"	36"
Slew Angle	NA	±179°	±179°	±179°
Minimum Connection Height	24"	29"	29"	29"
Ambient Temperature Range	-20°C to +45°C	-20°C to +45°C	-20°C to +45°C	-20°C to +45°C
Weight	5,500 lbs	7,000 lbs	8,000 lbs	8,000 lbs
Height Stowed	76"	89"	83"	92"
Depth	46"	66"	70"	70"
Width	46"	46"	46"	46"
Min Flow	30 gpm	30 gpm	30 gpm	30 gpm
Min Pressure	2,350 psi	2,350 psi	2,350 psi	2,350 psi
Max Pressure	3,000 psi	3,000 psi	3,000 psi	3,000 psi
Meets API 7K Design Requirements	Yes	Yes	Yes	Yes
Zone Management System (ZMS)	NA	Yes	Yes	Yes
Podium Operation	NA	Yes	Yes	Yes
Integrated Driller Cabin (Optional)	NA	Yes	Yes	Yes

**TR-110 Standard Model Shown*



TR-110 Standard Model



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