

TR-40 Directional Drill



The Tulsa Trenchless TR-40 Horizontal Directional Drill Rig

For sales and service,
contact your local Tulsa Trenchless Dealer:



Trenchless Utility Equipment Inc.
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The TR-40 Horizontal Drill Rig sets a new standard in Directional Drilling. With its rated 38,500 lbs of thrust/pullback, 6,500 ft lbs of rotary torque and standard 90 gpm @ 1000 psi mud pump, the TR-40 is ready to tackle your toughest jobs. The TR-40 has a unique configuration featuring:

Dedicated Hydraulics Motors

- Thrust/Pullback
- Rotary and
- Mud System

Compound Thrust Cyclinder

On-Board Mud Pump - 90 gpm @ 1,000 psi

The TR-40 is powered with a sturdy Cummins 6BTA5.9 Turbo Diesel Engine with 185 HP. The unique compound thrust cylinder allows for constant positive power, reliability and positive control over full load range - and no more chains! Open top vises allow the operator to clearly see the drill stem joints and makes making-up and breaking joints a snap. The TR-40 comes equipped with a unique top-loading auto rod loader, and with the remote tram controls so you can direct the TR-40 to where you need it to be. Rubber tracks keep you from damaging asphalt and other surfaces, and Integral Stake-Downs are a standard feature for operator safety .

Essential to the success of any drilling contractor is the proper training of field personnel. Tulsa Trenchless has a dedicated technical services group to provide initial operational training and is available for further consultation during your daily drilling operations.

"Complete" packages are available including High Efficient Venturi Style Mud Mixing Systems, DigiTrak Locating Equipment, Transport Trailers, Drill Rod, Drill Heads, Pull Swivels, Bits and Remers, etc. Spare parts and additional accessories are in stock and available to minimize contractor downtime.



The TR-40 is equipped with three hydraulic pumps which allow uncompromised dedicated performance of all hydraulic systems.

TR-40 Directional Drill Specifications

Operational Specifications		
Thrust/Pullback Drive System	Compound Hydraulic Cylinder	
Maximum Carriage Speed	60 fpm	18 m/min
Rated Thrust/Pullback Force	38,500 lbs.	
Rotary Drive System	Crossing Vane Hydraulic Motor	
Maximum Rotary Speed	160 RPM	
Rated Rotary Torque @ 80 rpm	5,000 ft-lbs.	6,784 N-m
The diesel/hydraulic power system has been designed and tested to provide the above actual parameters in combination as may be experienced during a reaming operation.		
Makeup/Breakout System	Cylinder operated lower vise with operated upper breakout vise	
Power Specifications		
Engine	Cummins 6BTA 5.9	
Horsepower	185 HP	137.95 kW
Hydraulic Pumps	Triple, variable volume, closed loop, hydrostatic transmission pumps w/auxiliary pressure piston compensation pump	
Hydraulic Reservoir Capacity	47 gal	177 L
Fuel Tank Capacity	50 gal	189 L
Drill Pipe Specifications		
Length	10 ft	3.05 m
Tube/Tooljoint OD	2 7/8 in	
Tooljoint OD	2 7/8 in	
Connection	QD-65 2-7/8	
Weight	127 lbs./length	32.7 kg/length
Rack Capacity	50 Lengths	

Mud Pump Specifications		
Pump	Tulsa Triplex TT-100	
Maximum Flowrate w/ water	100 gpm	378 L/min
Maximum Pressure w/ water	3,000 psi	206 Bar
Normal Operating Flowrate & Pressure	95 gpm @ 1,000 psi	340 L/min @ 68 Bar
Dimensional Specifications		
Transport Width	84 in	2.13 m
Transport Height	96 in	2.44 m
Transport Length	250 in	6.35 m
Transport and Operating Weight	18,000 lbs. w/ loaded pipe rack	8,165 kg

Package Includes

TR-40 Drill Rig
Mud Mixing System
Drill Pipe
Digitrak Locating System
Tooling



The rig's mud motor, rotary torque and thrust/pullback all have their own dedicated hydraulic systems

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