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## Grundodrill 15XP Horizontal Directional Drilling System

**Total Drive Performance 116 kW**  
**147 kN Thrust Power : 4,500 Nm Torque : 200 l/min Bentonite Pump Included**



### Completely equipped Grundodrill 15XP

Grundodrill 15XP Self-drive Bore Rig on Rubber Tracks features:

- Thrust rig with:
- 106 kW drive motor for driving and bore mode,
- Rubber track undercarriage with 1 stabiliser
- Drill rod loading system,
- Hydraulic clamp and break-away system
- All-weather cabin (lightweight version) incl. LCD display
- Auto-bore
- Anchor bore system including two screw in anchors
- Bore data storage acc. DVGW GW 321
- 200 l/min Bentonite HP pump on board,
- Bore head assembly complete with MDH-bore head,
- Mixing system Type MA 010-D (4.000 l) including drive unit (10 kW Hatz power unit)
- Safety equipment
- Service package
- Telemetric data transfer

**GRUNDOMAT** Soil displacement hammers  
**GRUNDORAM** Steel pipe pushing systems  
**GRUNDOCRACK** Dynamic pipe bursting systems  
**GRUNDOBURST** Static pipe bursting systems  
**GRUNDOBRILL** Hydro-Dynamic steerable boring systems  
**GRUNDOSTEER** Guided boring system  
**GRUNDOWINCH** Capstan Winches



Tracto-Technik GmbH, Germany  
Tracto-Techniques Sarl, France  
TT Technologies Inc, USA  
TT Asia Pacific Pty Ltd, Australia  
Prime Drilling GmbH  
TT (Trenchless Technology) Ireland Ltd  
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Members of UK Society for Trenchless Technology - Pipeline Industries Guild - IGEM - UVDB



#### Fields of application:

- Hydro-dynamic steerable boring system for medium, hard and stony ground conditions
- Designed to install PE pipes up to OD 450 mm over lengths up to 350 m (longer bores or larger diameters possible in certain ground conditions)
- Crossings of streets, highways, parking lots, etc.  
Ideal for under river crossings

#### 1. GRUNDODRILL 15XP comprising of:

- Built in hydraulics (106 kW - Diesel) for bore and drive mode, comparative large torque and thrust and pulling power (147 kN).
- Thrust rig with hydraulic rotational drive and adapter for drill rods
- Extremely solid and purpose built conception
- Optimal relation of own weight (9,320 kg) to thrust power (147 kN)
- High productivity ensures steerability in easy soils
- Hydraulic percussive hammer ensures thrust and steerability in difficult soils
- Semi-automatic drill rod loading system, incl. magazine, for the automatic adding and removal of the drill rods, capacity: Drill rods, capacity for 60 rods (180 m), rods not included
- Drill rod greasing system
- Semi-automatic break away system to loosen and tighten the drill rods
- Rubber chained undercarriage with 400 mm wide chains and 1 stabiliser ensure high stability. An inclination cylinder enables the bore angle to be adjusted without any problems. Track mounted undercarriage allows for driving, even to sites with limited access.
- Complete cabin including heater, shade-lite glass, separated front window, incl. LCD display for bore mode. Operator seat, inclinable, height adjustable, horizontally moveable, adjustable to operator weight including special protection for inter-vertebral discs.
- Operation of the main functions with only 2 multifunctional joysticks. Operation of the main functions with multifunctional joystick. Stepless rpm adjustment. Electrically operated valves for the most important functions including manometer for checking the pressure circuits rotation / pushing / Bentonite flow.
- Auto-bore for optimal regulation of pull / thrust and rotation forces during pilot bores, reaming and pipe installation
- Anchor bore system including Bentonite collector basin with feeding pump as well as two screwed anchors for anchoring the bore rig
- Bentonite high-pressure pump on board the rig, max 200 l / min – max. 80 bar
- High-pressure cleaner including hose and high-pressure gun
- Bore data entry: Bore data storage – Bore data stored and protocol as per DVGW regulation GW 321 Date and time / thrust and pull force (kN) / Torque (Nm) / RPM's, drilling fluid flow rate (l/min) / Drilling fluid pump pressure (bar). Additionally the actual drill rod number will be recorder automatically, so that the length of the drill rod length can be determined, among other things.
- Suitable for rock drilling – also for operating a Mud-motor
- Pre-equipped for cable guided boring / pre-equipped for measuring tensile strength
- Bentonite flow rate indication
- Cable remote control for drive mode



## 2. Bore head, consisting of:

- Sonde housing  $\varnothing$  70 mm with inner sleeve for sonde with buffers.
- 1 MDH Oval-Bore head  $\varnothing$  100 mm with exchangeable round-framed chisels, various seals and lock pins.

## 3. Safety equipment, consisting of:

- 2 grounding mats, grounding cable 1 m, grounding rod, safety boots and safety gloves.
- Acoustic warning signal in the unlikely event of a cable strike

## 4. Service package, consisting of:

- Set of jets, O Rings, Filters, Screws, Thread Lub, tools etc.
- Pulling adaptor yoke head – adaptor socket TD61 / Pulling adaptor yoke head

## 5. Mixing system MA 010D ( fully fitted in 20' sea container) comprising of:



- 2 x Tanks with 4.000 l total contents.
- Bentonite mixing and distributor system.
- With fresh water filter and c-hose filling connection.
- Venturi nozzle for mixing the Bentonite
- 1,300 l/min pump for mixing and feeding the mixture
- Integrated workbench, vice including tool wall
- 10.9kW Hatz diesel engine