

GRUNDOPIT^{KS50} Fluid-assisted mini drill rig





With the "keyhole bore technique", gas, water, power and FTTH service connections are installed, leading from the main line in the road through the smallest possible round working pit (keyhole with \emptyset 65 cm) directly into the house or a small assembly pit in front of the house.

PROPERTY SERVICE CONNECTIONS

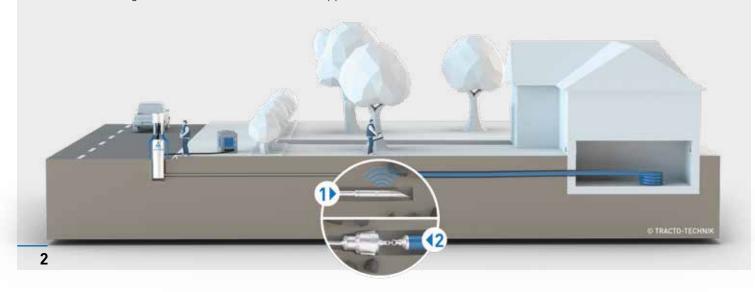
For gas, water, power and data lines

UNDERCROSSINGS

Directional drilling beneath roads, railway tracks and buildings

PARALLEL INSTALLATIONS

Besides undercrossings, linear bore holes parallel to roads, bodies of water and buildings are some of the conventional applications.

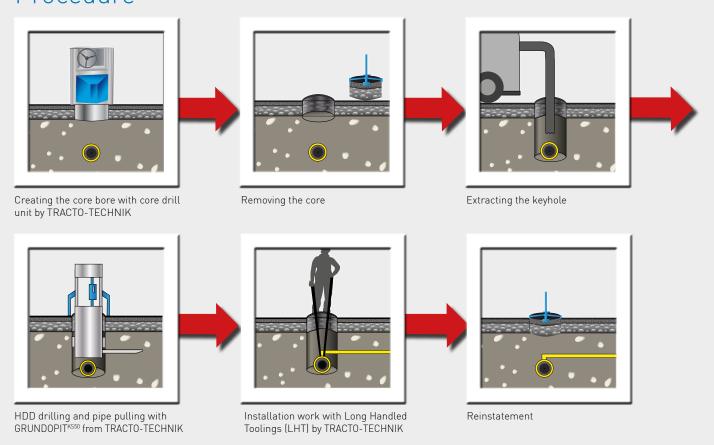


MINIMAL INTERVENTION

Maximum effect

- Drilling from out of the smallest round work pit, keyhole Ø 65 cm
- Directional drilling with continuous detection
- Simple operation via control panel with colour display
- No pits on private properties, the bore hole can be drilled directly into the basement
- Minimum excavating works the job cannot be done with less
- Only very small work area required, minor affect on traffic
- Eco-friendly and gentle installation method
- Minimal drilling fluid requirements
- No elaborate asphalting necessary for restoring the keyhole
- All connection works are carried out from the surface
- Bore lengths up to 50 m
- Pipe diameter up to 90 mm

Procedure



If you would like to find out more about our core drills and our Long Handled Toolings (LHT), simply contact us.

KEYHOLE

Mini drilling technology

Integrated machine control – fully automatic drilling

Minimally invasive drilling from out of the smallest possible working pits Ø 650 mm "Keyhole"

Fluid-assisted displacement drilling technique

No "flushing out of the bore cuttings"

Closed round frame design – stable, flexibly directional (machine can rotate freely inside the keyhole)

Small space between bore axis and bottom edge of the machine – direct connection of service pipe to the main line

Integrated **rod cleaning** by means of high-pressure washing jet

Integrated hydraulic bracing system – short set-up times, safe installation





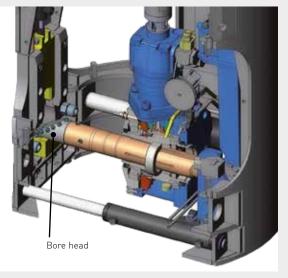
CONTROL PANEL

- Operation from the surface
- Ergonomic mode of operation according to the latest standards
- Directional detectable bore
- High safety for the operator
- Clearly arranged colour display with icons
- Adjustment of the optimal bore parameters:
 Display of machine interior on
 colour display using integrated camera
 infinitely variable adjustment of torque,
 rotational seed and thrust force/speed



ROD CHANGE

- Fully automatic rod handling
- Ergonomic
- Quick
- Safe



ROTARY DRIVE

- Rotary drive with hollow shaft maximum rod length for the smallest installation space
- Positive-fitting rod link soiling-resistant, material-friendly
- Torque-dependent thrust regulation optimal utilisation of the machine output

























HYDRAULIC POWER UNIT TT HP-031



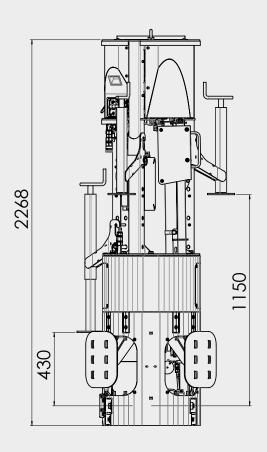
TRUCK PLATFORM (COMPLETE SYSTEM SOLUTION)

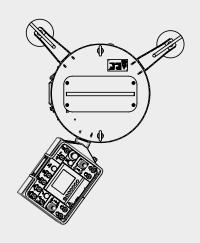


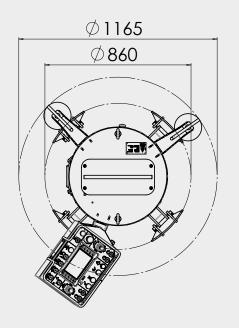
TECHNICAL DATA OF GRUNDOPITKS50

SUPPORTS EXTENDED

SUPPORTS UP AND DRAWN IN







TECHNICAL DATA



GRUNDOPITKS50 Model **Basic equipment** Drilling out of the smallest possible working pits, "Keyhole" Ø 650 mm Integrated machine control with fully automatic drilling operation (except steering movements) ■ Infinitely variable adjustment of the drilling parameters Fully automatic rod handling Closed round frame design Clearly arranged colour display with icons Rotary drive with hollow shaft ■ Torque-dependent thrust regulation ■ Integrated rod cleaning system ■ Integrated hydraulic bracing system

short version: H = 2,350; $\emptyset = 590$ Height; diameter [mm] long version: H = 2,850; $\emptyset = 590$ Weight [kg] short version: approx. 630; long version: approx. 685 Content of rod box [m] 25 Thrust and pulling force [kN] 50 Max. torque [Nm] 1200 Max. spindle speed [rpm] 60 Pilot bore Ø [mm] 58 Drill rod Ø [mm] 50 Effective rod length [mm] 250 Rod weight [kg] 2.4 Upsizing Ø [mm] 110 Pipe OD* [mm] 90 Drilling length* [m] 50

*depending on soil

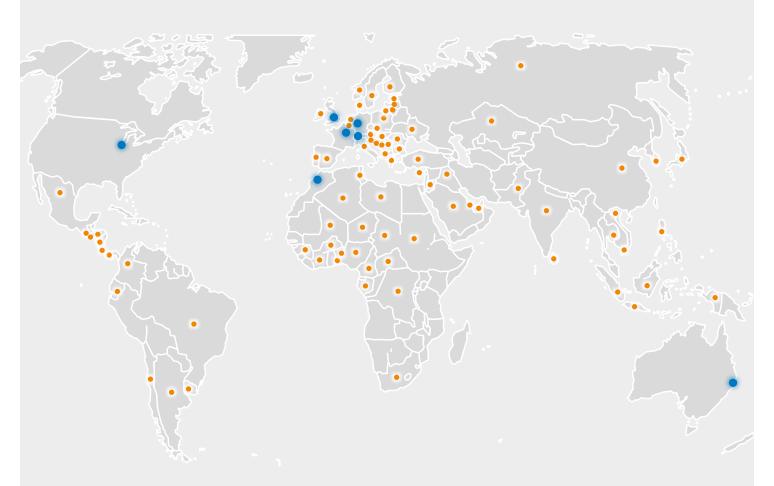
Min. bore radius [m]

Performance data

50

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worldwide





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