

INSPIRING TRENCHLESS TECHNOLOGIES



200S COMPACT MIRACLE

■ MADE
■ IN
■ GERMANY

GRUNDOBORE^{200S}
Manhole auger boring unit



Thrust locking via foot pedal –
for easy operation

Galvanised grid –
safe base stand for the operator

Compact, powerful rotary drive –
installation of large pipe diameters
in the most limited of spaces

**Long stroke for extremely short
construction lengths –** effective rod length
of 450 mm

DYNAMIC CHARACTER

Compact and powerful

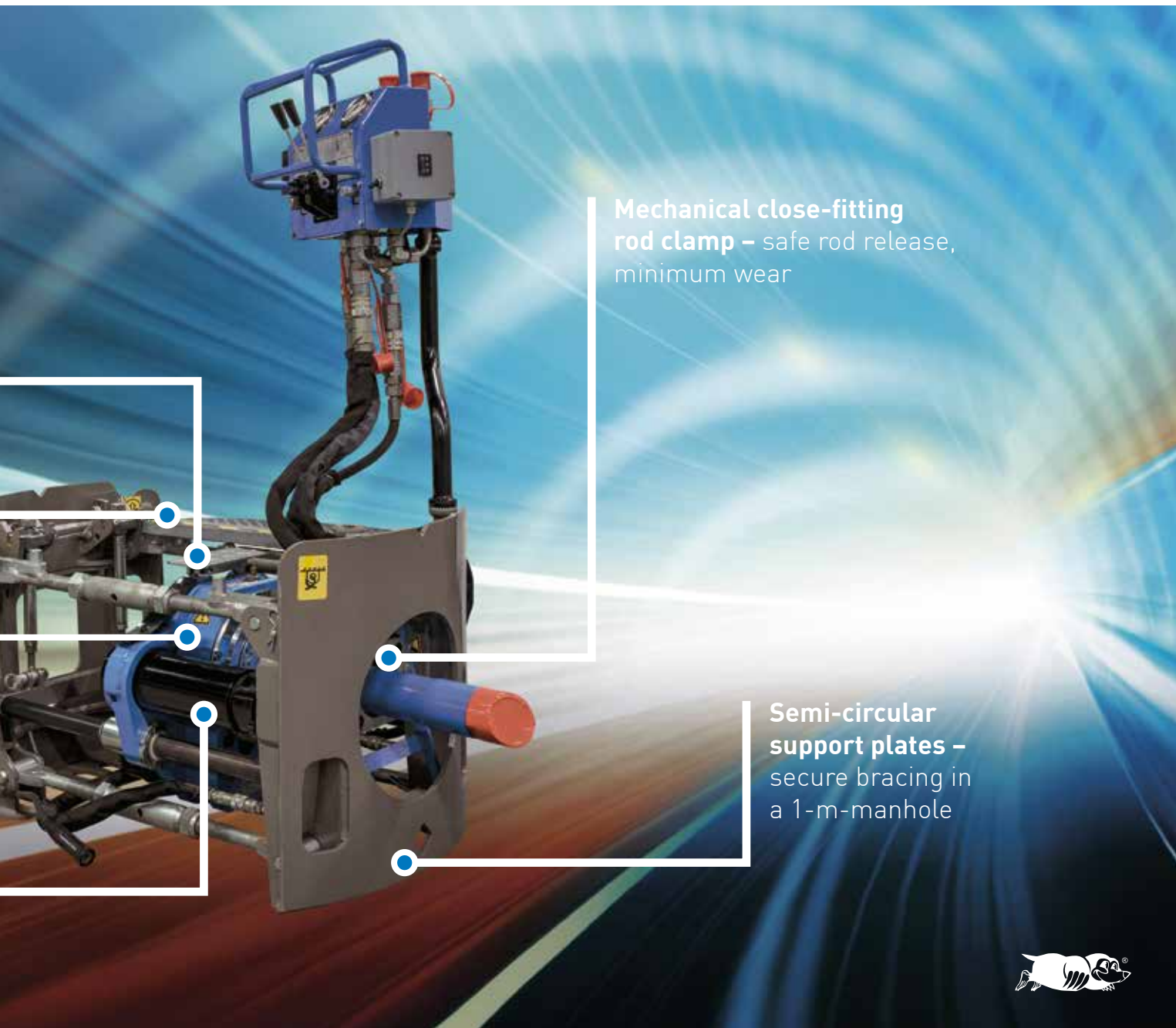
GRUNDOBORE^{200S}

- With GRUNDOBORE^{200S} pipe lines can be installed with high positional accuracy.
- The auger boring unit is especially suitable for installing property sewer connections as well as product and protection pipes up to OD 280.
- Launch is possible from a circular 1-m-manhole or extremely small construction pits.

ROTARY DRIVE

With quick-locking rods – simple rod connection, no screwing together at the rotary drive.





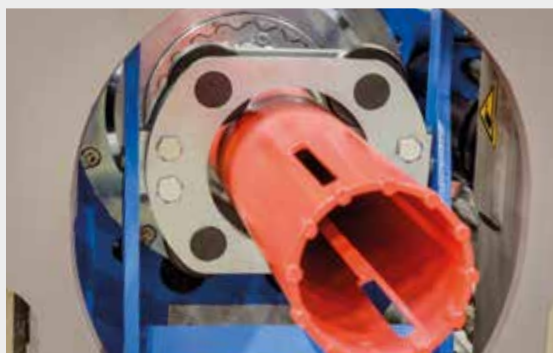
Mechanical close-fitting rod clamp – safe rod release, minimum wear

Semi-circular support plates – secure bracing in a 1-m-manhole



CORE BIT GUIDE

Rotating and stable – precise spot drilling of the manhole wall.



BORE DIRECTION

Vertical adjustment of the drilling direction by +/- 11 % is possible after installing the machine.



FUNCTIONAL PRINCIPLES

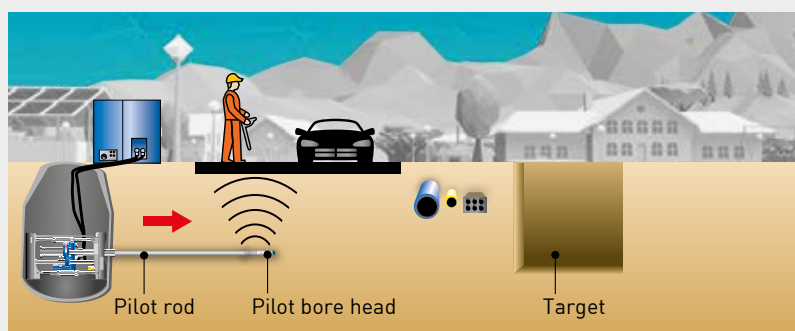
The all-rounder

Auger boring

Standard application for establishing property sewer connections and crossings beneath roads and railway tracks.

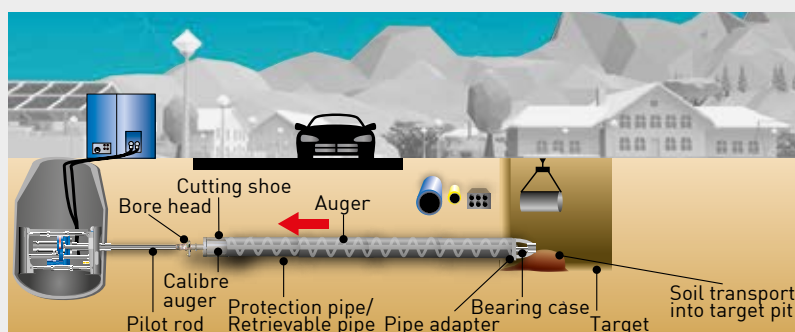
PHASE 1: Pilot rod installation

The pilot rods with the pilot bore head are pushed forward directionally (or non-directionally) from out of the manhole or pit.



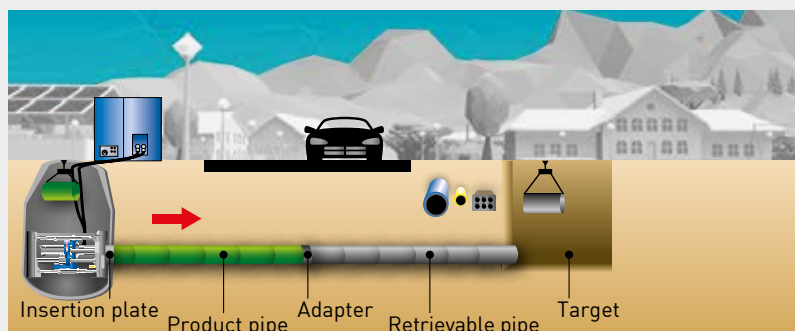
PHASE 2: Upsizing bore

After installing the pilot rod, the drill rods are linked with the bore head and augers and pulled back towards the drill rig while rotating. Simultaneously the augers transport the soil into the target pit, and the casing pipes or retrievable steel pipes are pushed in over a bearing carrier at the end of the auger without the need for rotation.



PHASE 3: Pushing the pipe

By pressing in the product pipes from the direction of the drill rig, the retrievable pipes are pushed into the target pit and recovered from there.

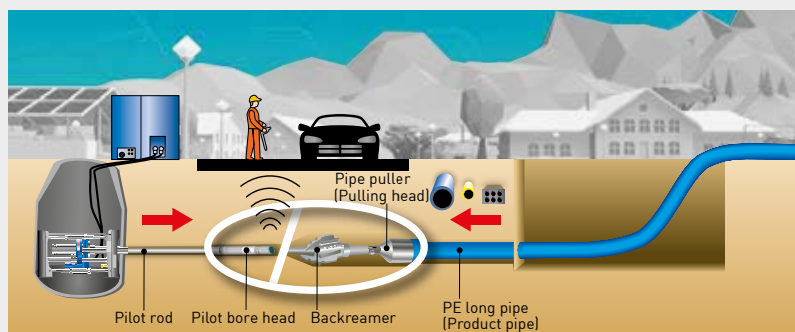




Special applications

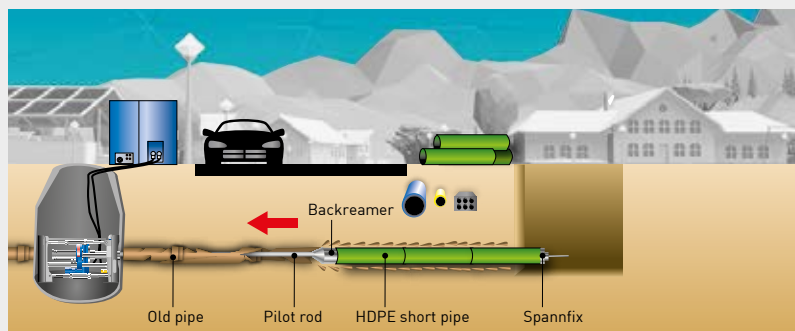
LINEAR HDD METHOD

One special application is the creation of linear HDD bores in difficult stony and rocky ground conditions.



PIPE BURSTING METHOD

The renewal of property sewer service connections is another special application.





WORK PIT LAUNCH



BREAKTHROUGH



MINIMAL





WORK PIT



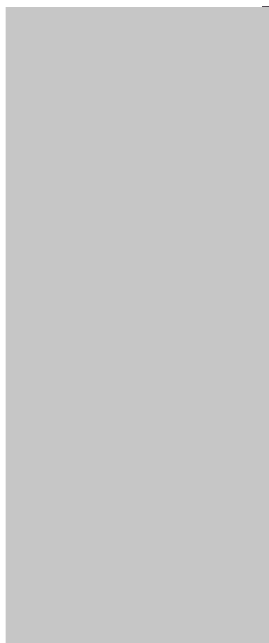
POWERFUL



UPSIZING



COMPACT



MANHOLE

ACCESSORIES

For all applications

CORE HOLE DRILL



ADAPTER RODS WITH TRIPLE WING CUTTER BIT
non-directional



PILOT RODS WITH TRIPLE WING DRILL BIT



SHOE PIPE



CALIBRE AUGER DRILL



**SUPPORT LAUNCH FRAME
FOR PIT LAUNCH**

HYDRAULIC UNIT TT HP-031





TRANSMITTER HOUSING WITH STEERING HEAD

directional



RETRIEVABLE PLUG-ON PIPE



CONVEYOR AUGER



BEARING CARRIER



ACCESSORIES FOR SPECIAL APPLICATIONS

Available upon request

HDD ACCESSORIES



PIPE BURSTING ACCESSORIES





INSTALLATION

Manhole or pit

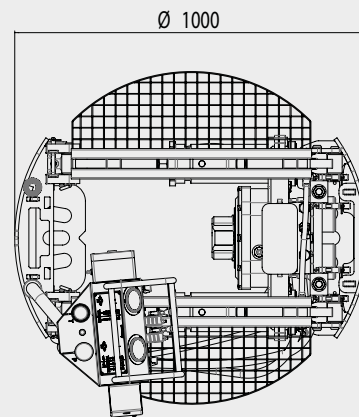
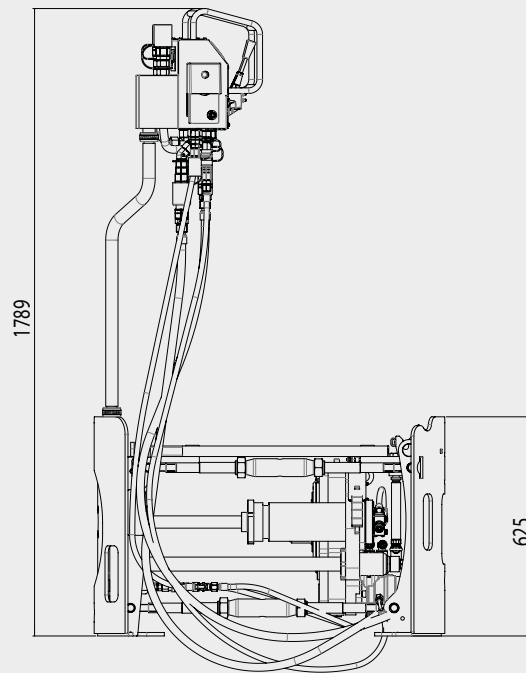
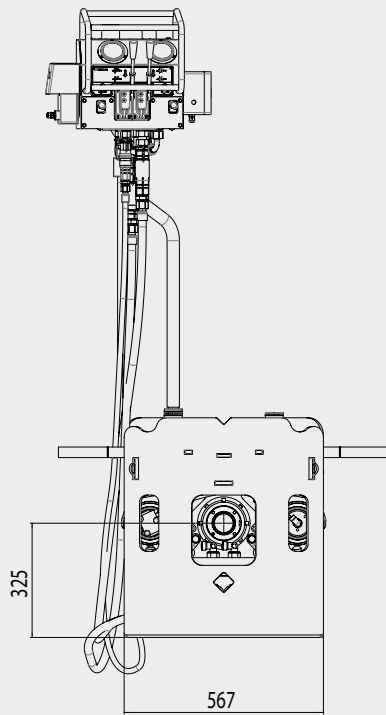


For launch from a manhole with a fracture opening of only \varnothing 62.5 cm, the rig can be disassembled into its single components (bore drive with pressing cylinders/ pressing frames).



Support launch frame for pit launch.





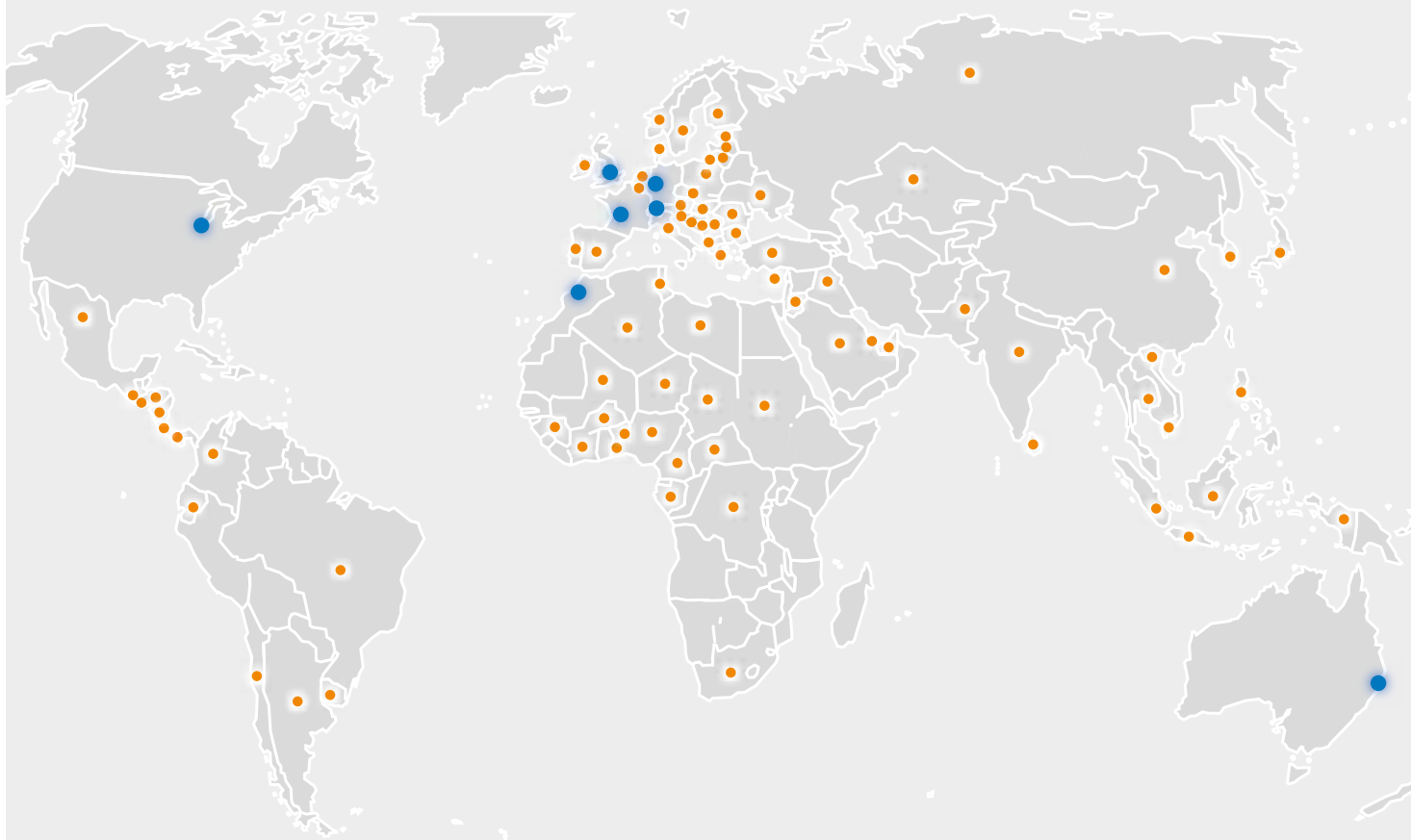
Technical Data

GRUNDOBORE^{200S}

| | |
|---|--------------------|
| Max. thrust force | 200 kN |
| Max. pulling force | 250 kN |
| Cylinder stroke | 280 mm |
| Max. thrust speed | 2 rpm |
| Max. torque | 3,800 Nm |
| Max. spindle speed | 60 rpm |
| Max. hydraulic pressure | 250 bar |
| Length x Width x Height | 960 x 567 x 625 mm |
| Weight | 395 kg |
| Axis height / axis height with steel frame application (pit launch) | 325/375 mm |
| Launch manhole (circular manhole) | Ø 1,000 mm |
| Length launch pit | 1,200 mm |
| Length target pit | 1,000 mm |
| Effective length pilot rods | 450 mm |
| Diameter pilot rods | 82.5 mm |
| Retrievable pipe / product pipe length | ≥ 450 mm |
| Max. pipe OD | 280 mm |
| Max. bore length (depending on soil conditions) | 25 m |

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