

INSPIRING TRENCHLESS TECHNOLOGIES



**6V** SMALL  
POWERHOUSE

■ MADE  
■ IN  
■ GERMANY

GRUNDOPIT<sup>6V</sup>  
Fluid-assisted mini drill rig



**Coupling of the hydraulic lines directly to the rig – operator protection**

**Effective rod length 750 mm with only 1,370 mm rig length – for work in extremely limited spaces**

**Hydraulic clamp – safe, comfortable, quick and easy rod change; clamping is possible in every position**

## QUICKSTARTER

Compact, powerful, profitable

Thrust by means of **cylinder** – full performance provision

Property service connections for gas, water, electricity, glass fibre cables and sewer pressure pipes can be installed quickly and economically with the fluid-assisted mini drill rig GRUNDOPIT<sup>6V</sup>. The GRUNDOPIT<sup>6V</sup> can be launched from a small pit or, if applicable, directly from a utility room in the basement. If the bore is carried out directly into the building, the brickwork is sealed with a wall duct; so a head access hole in front of the building wall is not required. As well as the installation property service connections, crossings beneath traffic ways, rivers and brooks are also easily achieved.

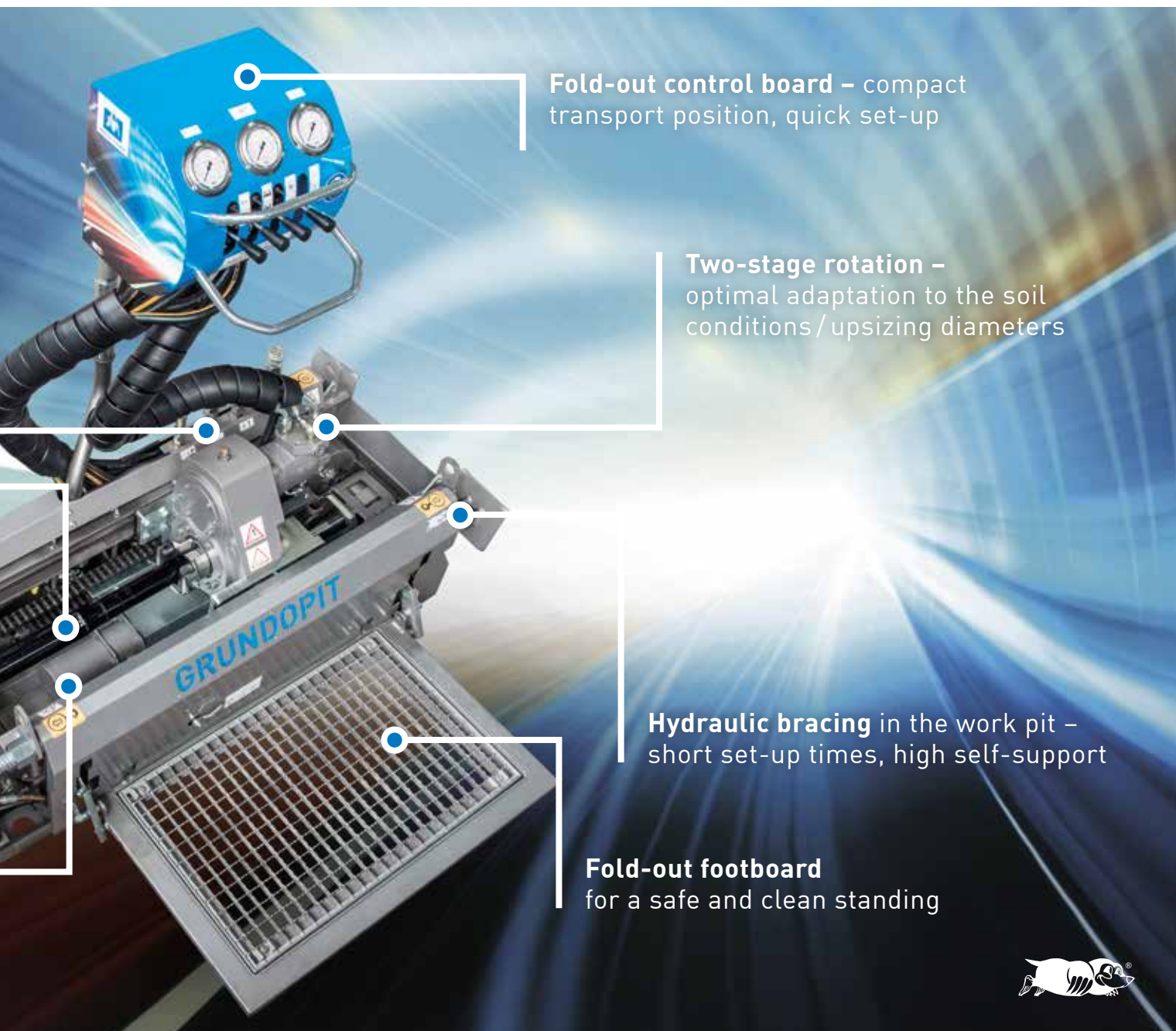
Despite its small external dimensions, the GRUNDOPIT<sup>6V</sup> provides a powerful stroke, allowing for the application of rods with an effective length of 750 mm. With its high torque of 1,500 Nm, the maximum rotation number of 150 rpm and pushing and pulling forces of up to 6 t, working in difficult soil conditions is relatively trouble free.

### CONTROL BOARD



The well laid-out, swivelling control board is made for comfortable handling and control over the drill rig from every position.





**Fold-out control board** – compact transport position, quick set-up

**Two-stage rotation** – optimal adaptation to the soil conditions / upsizing diameters

**Hydraulic bracing** in the work pit – short set-up times, high self-support

**Fold-out footboard** for a safe and clean standing

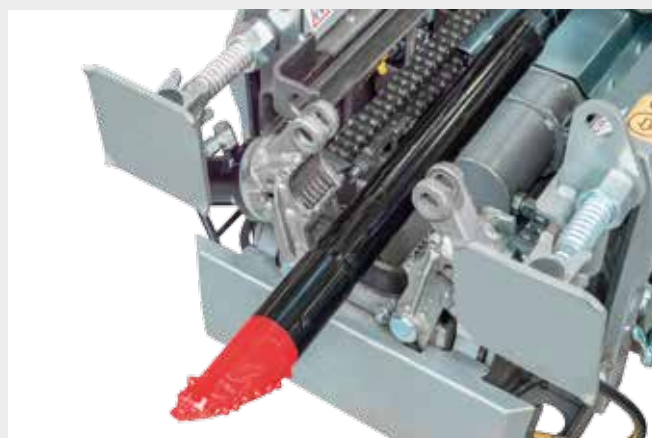


#### ROTARY DRIVE WITH QUICK ROD CONNECTION



Simple and quick connection of the rods to the rotary drive without screwed fittings enables immediate paddle function.

#### UNFOLDING CLAMP



Pulling large backreamers up to OD 200 mm directly into the rig is possible – an attachment frame is not required.



## EARN'S ITS REPUTATION

Approved method, versatile applications



### The fluid-assisted HDD method

#### PILOT BORE\*



#### Implementing the planned bore path:

- Linear bores: pushing and rotation of the bore head.
- Curved bores: pushing of the aligned bore head, supported by paddle mode/impact unit if required.

#### UPSIZING & PIPE PULLING\*



#### Installation of the product/protection pipe:

- Reverse pulling of the backreamer with pipe attached, intermediate upsizing may be necessary.

\* Depending on soil type and required upsizing diameter, special drilling tools are used.





## Applications

All GRUNDOPIT rigs are designed for a wide range of applications, a long service life, minimal wear, minimal downtime and low consumption of resources and fuels – making them particularly flexible and economic – from the first day onwards.

- **UNDERCROSSINGS**

Beneath roads, railway tracks, buildings, gardens and other valuable surfaces.

- **PROPERTY SERVICE CONNECTIONS**

For gas, water, sewage, electricity, broadband (FTTB) or directly from the property.

- **DRAINAGE BORES**

Installation of drainage pipes to discharge water.

- **ROCK BORES**

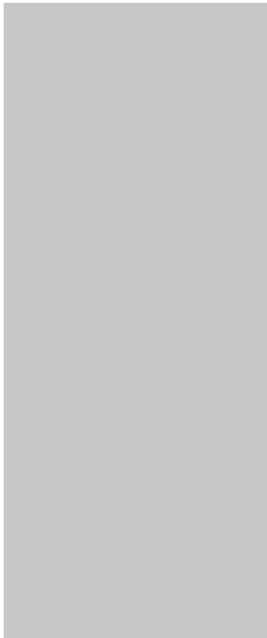
For safe propulsion in rocky, alternating soils, a pneumatic hammer bore head is put into operation.









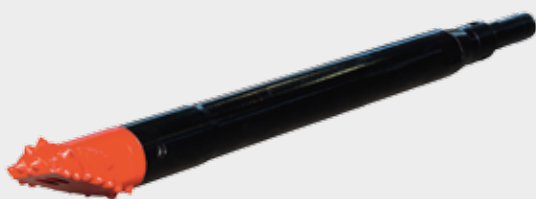


# ACCESSORIES

For all applications

Drilling tools, perfectly adapted to the drill rig, guarantee optimal drilling progression in every type of soil. Robustness and durability of all parts are guaranteed.

**BORE HEAD WITH TRANSMITTER HOUSING**



**DRILL RODS**



**BACKREAMER**



**QUICK-CONNECT**



**PIPE PULLERS**



For installing long pipes

**SPANNFIX  
WITH PULLING CHAIN**



Tensioning device for installing short pipes





**DETECTION TECHNOLOGY**



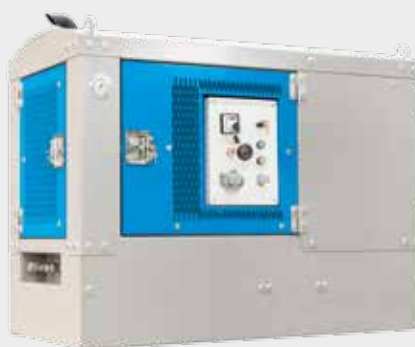
**HAMMER BORE HEAD**



**MIXING SYSTEM MA09**

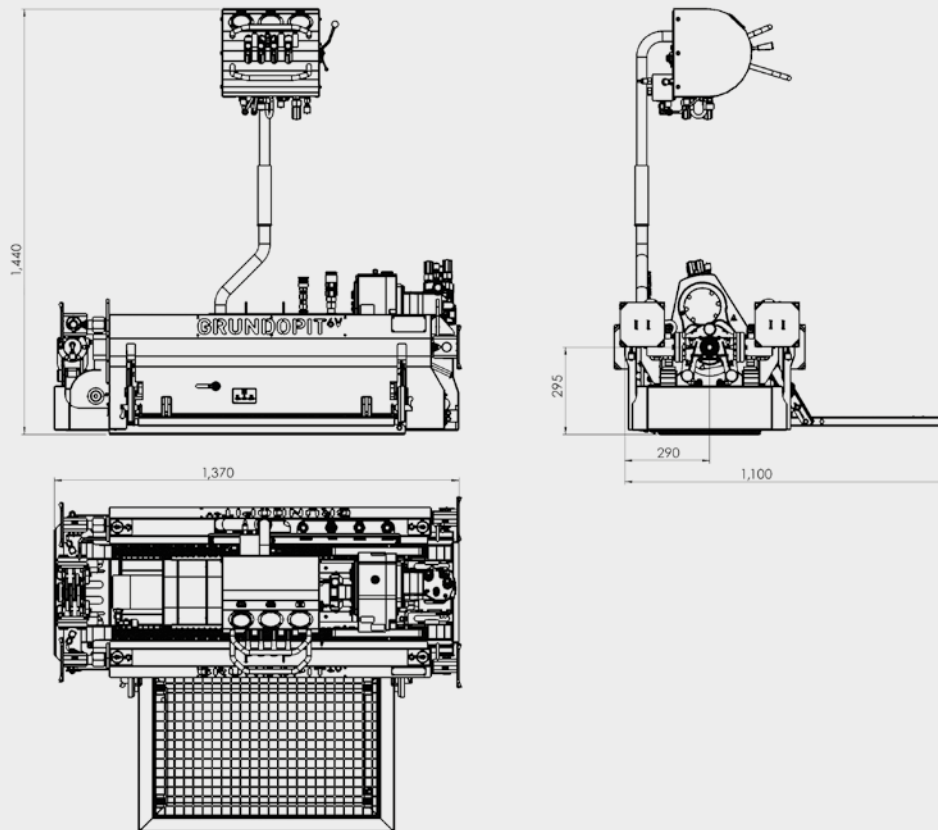


**DRIVE UNIT TT HP-031**

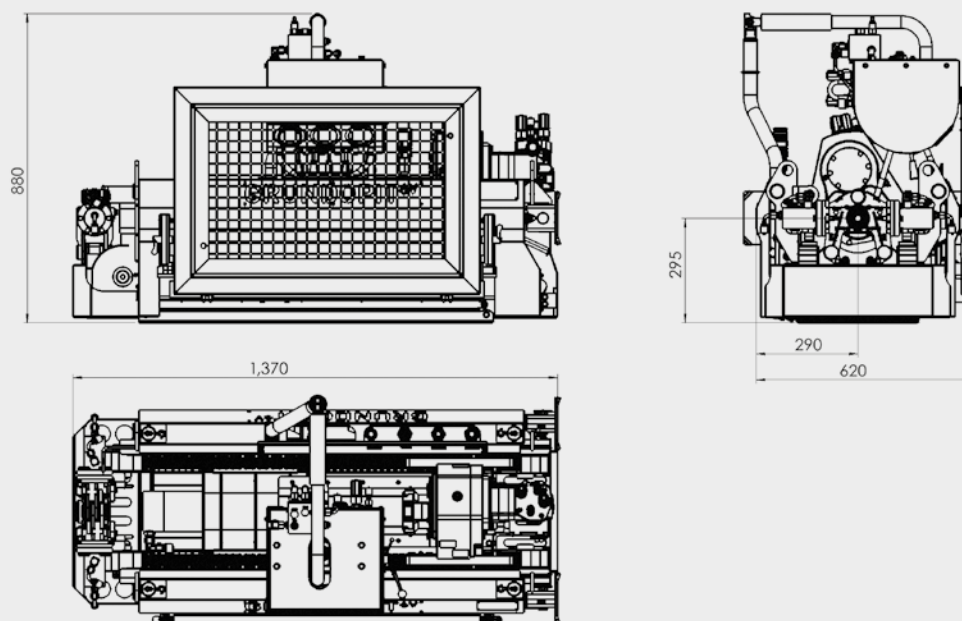


# TECHNICAL DATA GRUNDOPIT<sup>6V</sup>

## WORKING POSITION

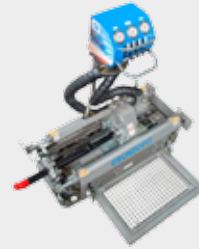


## TRANSPORT POSITION





## TECHNICAL DATA



### Model

GRUNDOPIT<sup>6V</sup>

### Basic equipment

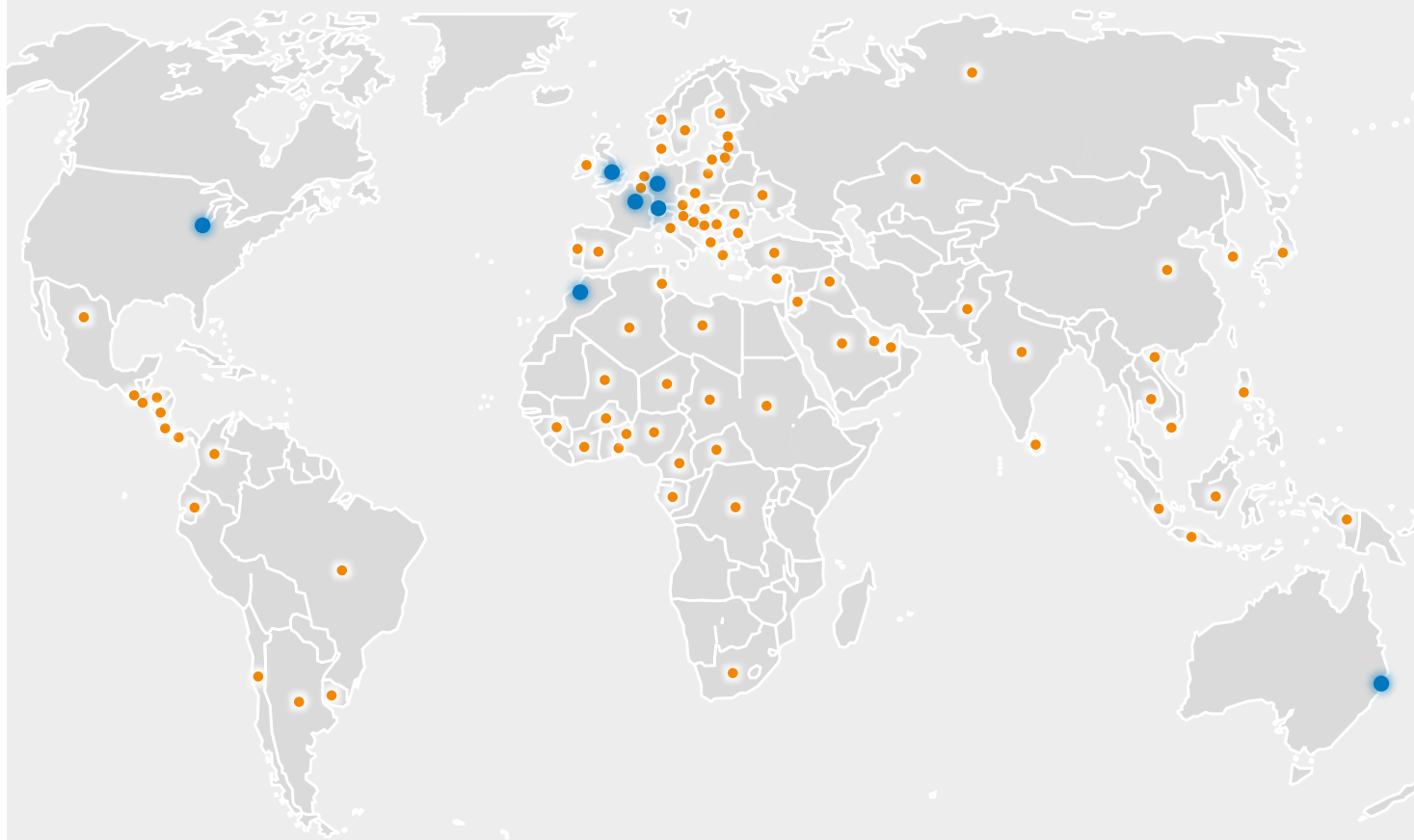
- Two-stage rotation
- Hydraulic clamp
- Effective length of the rods 750 mm with a rig length of only 1,370 mm
- Thrust by means of cylinder
- Fold-out control board
- Hydraulic bracing in the work pit
- The hydraulic line is coupled directly with the rig
- Rotary drive with quick-locking rods (replacement of single wear parts)
- Unfolding clamp

### Performance data

L x W x H [mm]	
Transport position [mm]	1,375 x 1,100 x 1,450
Working position [mm]	1,375 x 610 x 880
Weight [kg]	450
Content rod box [m]	30
Thrust and pulling force [kN]	60
Max. torque [Nm]	1,500 / 750
Max. spindle speed [rpm]	75 / 150
Rods	ELICON D51
Pilot bore Ø [mm]	80
Drill rods Ø [mm]	51
Effective length [mm]	750
Weight [kg]	5.8
Upsizing Ø [mm]	250
Pipe OD [mm]	200
Bore length [m]	100
Min. bore radius [m]	26

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