

GRUNDOPIT<sup>K</sup> Fluid-assisted mini drill rig



# **KEYHOLE**

Mini drilling technology



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

No Bentonite fluid, 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





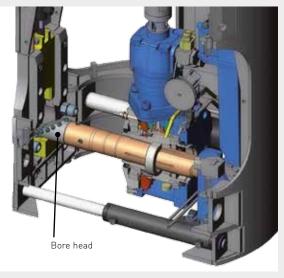
#### **CONTROL PANEL**

- Operation from the surface
- Ergonomic mode of operation according to the latest standards
- Directional detectable bore
- High safety for the operator
- Clearly arranged icon display
- Adjustment of the optimal bore parameters: steplessly adjustable adjustment of torque, rotation number as well as thrust and speed force



## **ROD CHANGE**

- Fully automatic rod handling
- Ergonomic
- Quick



#### **ROTARY DRIVE**

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

# **MINIMAL INTERVENTION**

# Maximal effect

- Drilling from out of the smallest round work pit, keyhole Ø 65 cm
- Directional drilling with continuous detection
- Simple operation via control panel
- No pits on private property, the bore hole can be drilled directly to the basement
- Minimal excavating works the job cannot be done with less
- Eco-friendly and gentle installation method
- Minimal drilling fluid requirements
- No elaborate asphalting necessary for restoring the keyhole



**GRUNDOPIT**KEYHOLE



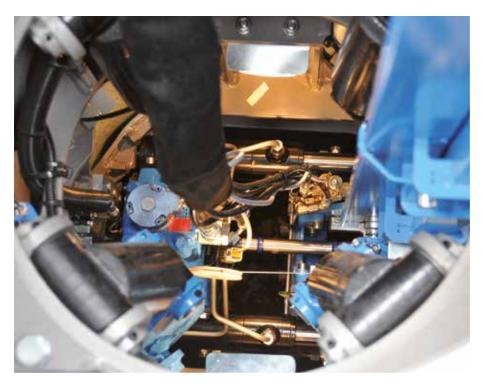
With the "keyhole bore technique", gas, water, power and FTTH service connections are installed, leading from the main line in the road through the smallest possible round working pit (keyhole with  $\emptyset$  65 cm) directly into the house or a small assembly pit in front of the house.

## PROPERTY SERVICE CONNECTIONS

For gas, water electricity and data lines

#### UNDERCROSSINGS

Directional drilling beneath roads, railway tracks and buildings

























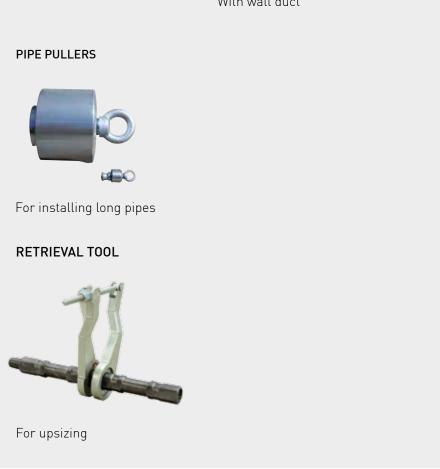
**BORE HEAD** 



**CORE HOLE DRILL** 







With detection unit



## **HYDRAULIC POWER UNIT TT HP-031**

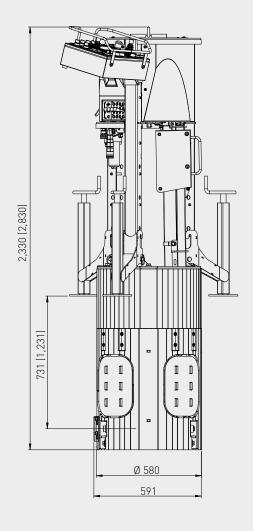


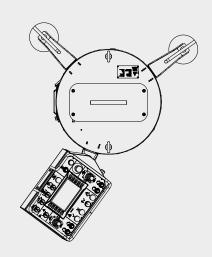
TRUCK PLATFORM (COMPLETE SYSTEM SOLUTION)



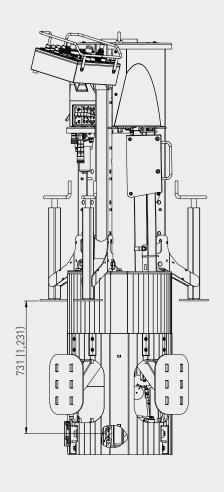
# TECHNICAL DATA GRUNDOPITK

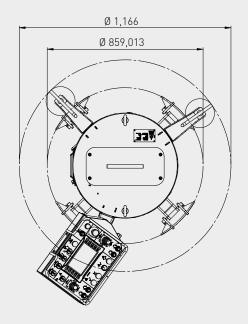
### SUPPORTS UP AND DRAWN IN





#### **SUPPORTS EXTENDED**





## **TECHNICAL DATA**

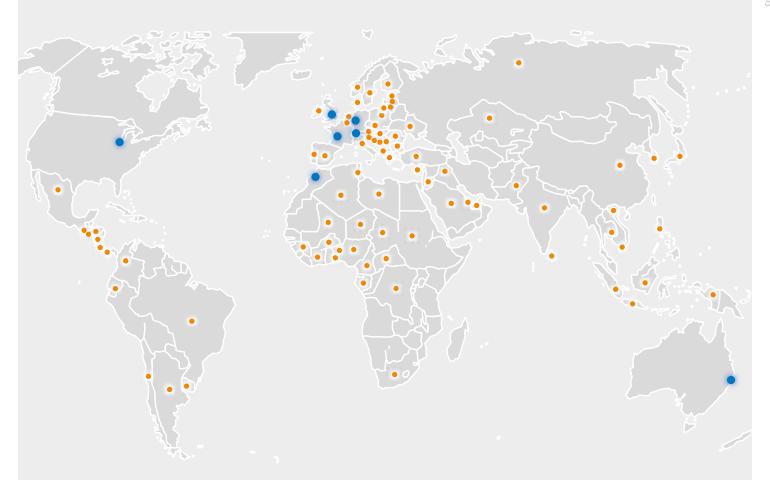


### Model **GRUNDOPIT<sup>K</sup> Basic equipment** ■ Drilling out of the smallest possible working pits keyhole Ø 650 mm Integrated machine control with bore automatics Stepless adjustment of drilling parameters Fully automatic rod handling Closed round frame design Clearly arranged icon display Rotary drive with hollow shaft ■ Torque-dependant thrust regulation Integrated rod cleaning system Integrated hydraulic bracing system

#### Performance data short version: H = 2,330; D = 590Height; diameter [mm] long version: H = 2,830; D = 590 Weight [kg] short version: approx. 550; long version: approx. 620 Content rod box [m] 100 Thrust and pulling force [kN] 40 Maximum torque [Nm] 900 Max. spindle rotation [rpm] 60 Pilot bore Ø [mm] 58 Drill rod Ø [mm] 50 Effective rod length [mm] 230 Rod weight [kg] 2.4 80 Upsizing Ø [mm] Pipe OD [mm] 60 Bore length [m] 30 Min. bore radius [m] 50

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# worldwide





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