

# PERFORATOR

## UNGUIDED AND GUIDED AUGER BORING METHOD -DIGITALIZATION FOR JACKING CONTROL AND DATA RECORDING

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Method	Size, OD [mm/in.]	Max. Drive Length [m/ft.]	Ground Water	Ground conditions
Unguided Auger Boring	100-1.700/ 4-68	80 / 260	Х*	unconsolidated soil / rock
Guided Auger Boring – Pilot tube with soil displacement	100-1.200/ 4-48	110 / 360	Х*	unconsolidated soil
Guided Auger Boring – Pilot tube with soil removal	350-1.400/ 14-56	110 / 360	Х*	unconsolidated soil / rock
Guided Auger Boring – Pilot tube Microtunneling	400-1.500/ 16-60	100 / 328	Х*	unconsolidated soil / rock
Guided Auger Boring – Pilot tube HDD	100-800/ 4-30	110/360	-	unconsolidated soil

\*Use below the groundwater level depending on ground type and water above working level. Sluice augers and waterproof shafts may required.





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OEN (OPTICAL-ELECTRONIC-NAVIGATION)-SYSTEM PERFORCAM AI – ARTIFICIAL INTELLIGENCE

- Pilot tube drilling data recording according to DWA-A 125 regulations (or equal)
- Artificial intelligence for automated processes, digital recording and navigation of the pilot tube jacking.
- GOOGLE CORAL AI Accelerator, camera and components
- Industry PC with 12" full-HD monitor
- Digital camera with auto focus (contrast, brightness, zoom)
- GPS sensor with location, date and time report
- Digital distance and tilt measurement
- Automatic position control and alert
- Digital alignment tool
- Protection rating IP 67 for camera and display







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## DIGITAL DATA RECORDING UNIT PERFORDAT

- Jacking data recording according to DWA-A 125 regulations (or equal)
- Real time display overview and recording (Display/Smartphone App/Desktop solution)
- Cable or WIFI transmission
- Drilling length
- Orilling- and thrust force
- Steering data recording for pilot tube method with ground removal (steering head)

(horizontal and vertical inclination)

- Water pressure- and flow rate
- Bentonite pressure and flow rate







### PREVIEW INTO THE FUTURE OF AUGER DRILLING

- Combined data recorder for pilot bore and pipe jacking with automatic protocol function
- Cloud based data management
- Digital project modelling (BIM-compatible)
- Telemaintenance and machine management
- Remote access to the steering system (remote support and training option) with 360° camera access
- Automatisation of the drilling process save of manpower
- Green Power alternative power supply (fuel cell)





