

Rock Drilling with the TERRA MINI-JET

City: Luzern/Switzerland
Authorities: Städtische Werke Luzern
Contractor: W. Schmid/Sachseln
HDD Machine: TERRA MINI-JET with
TERRA-ROCK Air Percussion Head \varnothing 65 mm
Air Compressor: 2.5 m³/min at 7 bar
Length: 14 m (house connection)
Inclination: at the beginning 50 % (27°), at the end 80 % (39°)
Pipe bundle: 3 PE pipes OD 92 (Power) + OD 75 (Gas) + OD 75 (Water)
Underground: sand stone



Above: The TERRA MINI-JET with the TERRA-ROCK Air Percussion Head \varnothing 65 mm. For starting the short starting adapter is used instead of the longer sonde housing.



Left: A view into the starting pit.



Right: The TERRA-ROCK Air Percussion Head \varnothing 65 mm during starting, now with the sonde housing.

Horizontal Directional Drilling System TERRA MINI-JET

TERRA
Systems for Trenchless Pipe Installation



Left: The Rock Drill Head has reached the target. The speed in sand stone was 6 m/h. The inclination was 80 % (39°) upwards.

Right: The backreaming is done with the standard TERRA-JET backreamers, which can be used nearly in every ground (with Bentonite).



Left: The pipe bundle with the three PE pipes and the backreamer OD 215 mm reach the starting pit.

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