


PE pipe renewal for house connections

Swiss made 



TERRA-EXTRACTOR X 100

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Berstlining procedure

In the Austrian city Weiden the contractor Altenthaler Bau GmbH renews the fresh water services. The house connections from the main service in the road to the cellars of the buildings were replaced trenchless by pipe bursting.

Pipe bursting has the big advantage against liners that a new HDPE pipe is pulled in instead of coating the inside of the old pipe. This increases the lifetime of the new pipe drastically.

Cable burster with 10 tonnes pulling force

The team of Altenthaler Bau GmbH used their new Cable Burster TERRA-EXTRACTOR X 100. This cable burster has a pulling force of 10 tonnes (22'000 lbs) and can replace small PE, PVC and lead pipes with inner diameters of 12-50 mm (0.5" - 2").

First the main line – still under pressure - is cut off from the old house connection.

The compact Cable Burster TERRA-EXTRACTOR X 100 requires a minimum space of 0.65 x 0.40 m (25.6" x 15.7"). If there is enough space, the front box is recommended. This requires another 0.30 m (12").

The 13 mm (0.5") cable is pushed through the old pipe with an inner diameter of 18 mm (3/4"). Then the cable burster is assembled in the pit. The cable burster pulls at the cable, cuts the old PE pipe, expands the bore channel and pulls the new pipe through the old pipe – all simultaneously.



Pic. 1: The compact Cable Burster requires a minimum space of 0.65 x 0.40 m.



Pic. 2: In the cellar the old pipe is cut off from the installations inside of the house. The wall around the old pipe is opened. Then the PE cutter and the connector for the new HDPE pipe are assembled.



Pic. 3: At the machine side the cable is assembled through the pipe burster. The bursting length was 12 m (40 ft). It undercrossed the pathway and the front garden of the house.

House connection renewal

Water line



Pic. 4: During bursting, the old PE pipe is regularly pushed out of the ground into the cable burster. This is why the TERRA-EXTRACTOR X 100 can be equipped with a swell cone which cuts the old pipe into two halves. This prevents a shrinking of the old pipe.



Pic. 5: View on to the new HDPE pipe OD 40 mm (1.5") and the old cut PE pipe after the disassembly of the TERRA-EXTRACTOR X 100. The renewal of the house connections in Weiden were finished without interruptions, the contractor Altenthaler Bau GmbH could realize several new house connections per day including the connection to the main water line, which was continuously under pressure. So the house owners were cut off from fresh water only for half a day.

TERRA AG
für Tiefbautechnik
Hauptstrasse 92
6260 Reiden
Switzerland

Your dealer:

Phone: + 41 62 749 10 10
Fax: + 41 62 749 10 11
office@terra-eu.eu

www.boreshop.com
www.terra-eu.eu

