

Pipe Cross-Section doubled with duplex PE Roller Cutter

Swiss made



TERRA-EXTRACTOR X 400

Pipe Cross-Section doubled with Duplex PE Roller Cutter

Job Site Report

The fire fighting water capacity of the biogas plant in Oensingen, Switzerland had to be increased. Therefore the existing water line had to be renewed and enlarged. This water line lays under the access road to the biogas plant. This road could not be blocked for the supply traffic. Therefore the trenchless specialist Tschanz Grabenlos AG decided to use the cable burster TERRA-EXTRACTOR X 400.

The old water line from HDPE with a diameter of 110 mm (4.3") was replaced by a new HDPE pipe OD 160 mm (6.3"). Two pipe sections of 15 m (50 ft) and 90 m (300 ft) were successfully cut by the new duplex PE roller cutter. This bursting job required only one working day.

40 tonnes Cable Burster

The TERRA-EXTRACTOR X 400 is an innovative cable burster, which renews old pipes in diameters from \varnothing 40 - 250 mm (\varnothing 1.5" - 10"). Lengths up to 150 m (500 ft) are possible. Old pipes from steel, cast iron, clayware and plastic can be renewed. The new pipes are mostly from HDPE with outer diameters from 63 - 250 mm (2.5" - 10").



Pic 1:
The pulling cable is pulled through the old pipe.



Pic 2:
At the other end of the pulling cable the Duplex PE Roller Cutter, the expander cone and the new pipe are assembled.



Pic 3:
The new HDPE pipe OD 160 mm (6.3") is ready to be pulled in.



Pic 4:
The Duplex PE Roller Cutter has vanished into the ground. The expander cone pushes the two halves of the old PE pipe sidewise.



Pic 5:
The Duplex PE Roller Cutter arrives in the machine pit. It has cut the old pipe clearly into two halves.

Duplex PE Roller Cutter

Plastic renewal



Pic 6:
Expander cone and new pipe in
the machine pit.



Pic 7:
The new HDPE pipe OD 160 mm (6.3'') has been
pulled in.

Duplex PE Roller Cutter

The Duplex PE Roller Cutter cuts the old pipe completely into two halves.

The PE Roller Cutters of TERRA deflect the cutting forces sidewise, so the old PE pipe is never compressed. The two large chopper discs (tooth wheels) cut the old pipe and possible joints. The Duplex PE Roller Cutter reduces the friction at the new pipe drastically.



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