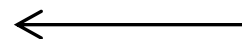


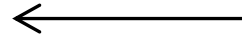
TERRA-EXTRACTOR X 400 bursts old pipe DN 100 mm (4") with expansion OD 324 mm (12.75")

In the Swiss city Mühlethurnen the old water line from cast iron had to be replaced by a new HDPE pipe. This pipe renewal job was done by the specialist M/s Rudolf Frutig. The first section of the old pipe had a diameter of 100 mm (4"), all other sections were 125 mm (5"). The new pipe was the HDPE pipe OD 250 mm (10") which served as a protection for the 180 mm (7") product pipe. The large expander cone DA 324 mm (12.75") required a burster with high pulling forces. Mr. Rudolf Frutig decided to use his cable burster TERRA-EXTRACTOR X 400 with pulling forces of 400 kN (40 tons).

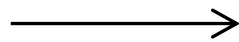


The roller cutter cuts the old cast iron pipes. The expander cone OD 324 mm (12.75") expands the bore channel and pulls in the new protection pipe OD 250 mm (10").

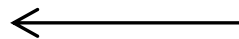
**Cable burster
TERRA-EXTRACTOR X 400**



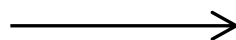
The cable burster TERRA-EXTRACTOR X 400 is assembled on a self-made iron frame.



The roller cutter cuts the old cast iron pipe. The roller cutter DN 100 mm (4") was changed against a roller cutter 125 mm (5") in an inter medium pit.



The roller cutter with expander cone and protection pipe OD 250 mm (10") reach the pulling pit.



The product pipe OD 180 mm (7") and a grounding cable are pulled into the protection pipe after the successful burstlining.