

Pipe renewal in Chambéry with the PIPE method



The French contractor Gauthey TP of La Ravoire had to renew around 250 m (825 ft) of a sewer and de-watering system for the factory of Placoplatre in Chambéry. The old pipes had an inner diameter of Ø 300 mm (11.8") and Ø 400 mm (15.75"). They decided to use the Cable Burster TERRA-EXTRACTOR X 400 and the PIPE method (PIPE = Pipe In Pipe). They operated from manhole to manhole without digging any pit. For this relining job they pulled in short pipes with OD 280 mm (11") and 375 mm (14.75").

Gauthey TP is a specialist in pipe and cable laying. They belong to the society Eiffage TP. Eiffage has 22'000 workers and employees, 85 % of them in France. They exist since 1993, but their history begins in the year 1844 with the creation of the society Fougerolle.

The section lengths varied between 14–38 m (46-125 ft). For a 14 m (46 ft) long section they required around 8 working hours. One big advantage of the PIPE method is that new PP or PE pipes are pulled in. These new pipes have a lifetime of 60-80 years.



View onto one of the sections, which are to be renewed.



View into the manhole at the old pipe.

**Cable Burster
TERRA-EXTRACTOR X 400**



↓ The manhole frame is assembled in the manhole Ø 800 mm (32").



↑ This manhole frame fits through the manhole opening Ø 620 mm (24.4") and can be positioned into manholes Ø 800 mm (32") and 1'000 mm (40").



↓ The calibre head Ø 295 mm (11.6") is lifted down into the second manhole.



↑ The Cable Burster TERRA-EXTRACTOR X 400 is assembled via two support struts onto the manhole frame.



↓ The positively locked plug connection with seal and notch.



↑ These short pipes OD 280 mm (11.0") with 10.7 mm (0.42") wall thickness L = 0.70/0.64 m (27.5"/25.2") are slid into the old pipe.



↓ The calibre head Ø 295 mm (11.6") with short pipe OD 280 x 10.7 mm (OD 11.0" x 0.42"), pressure plate and pipe rod.

↑ The calibre head is connected with the cable coupling to the pulling cable of the cable burster X 400.





A short pipe is pulled in. This takes approximately 20 seconds.



A new short pipe is assembled. Due to the PIPE rod this takes only 4-5 minutes. Conventional short pipe systems need 8-10 minutes.



The calibre head arrives in the arrival manhole.



The new pipes are pulled in.