

PIPe renews concrete sewer line \varnothing 500 mm (20") trenchless

City:	Völklingen, Germany
Contractor:	Karo-San/Germany
Length:	50 m (165 ft)
New pipe:	Short pipes from PP-HM OD 485 mm (19"), 400 mm (15.75") long
Machine:	TERRA-EXTRACTOR X 400 with manhole frame
Old pipe:	Concrete \varnothing 500 mm (20")
Underground:	Sand, gravel, stones, sandstone

The German city Völklingen a 50 m (165 ft) long concrete sewer line. The Civil Engineering Office of Völklingen looked for a environmentally sound trenchless method. Due to the low static bearing capacity of the old pipe cipp methods were not possible. A new pipe with full load bearing capacity should be laid.



Picture above:

The Cable Burster TERRA-EXTRACTOR X 400 and the automatic Cable Drum before operation. Installation of the job site at minimum space.



Picture left:

The TERRA-EXTRACTOR X 400 during the pipe pulling on top of the manhole. The cable burster is remote controlled. No operator has to enter the manhole during pipe pulling.

**Cable Burster
TERRA-EXTRACTOR X 400**



←
The manhole frame, the front plate and the two struts are lifted through the opening \varnothing 62.5 cm (24.6") and assembled at the bottom of the manhole.



→
The next pipe module PP-HM DA 485 mm (19") is lowered into the manhole.



←
The next pipe module is assembled.