



Ludwig Pfeiffer Unternehmensgruppe has sites all over the world and is a market leader in construction of underground pipelines and sewers. As a full service provider, we can also offer all the current methods of renovating underground pipelines and sewer systems.

We use intelligent solutions, the latest technology, the power of innovation and forward-looking concepts to make your projects a success. This is our promise to our clients at home and abroad, and we have been keeping it for decades.

As individual as the challenges posed by the pipeline under renovation and the construction site can be, whether it's in a city center or in a nature reserve, our approaches are diverse and flexible enough to cope.



YOUR GAINS

We are a full service provider and take every aspect of your project into consideration.

Whether it is open-trench laying or trenchless renovation, we will find the best solution for your situation.

Regardless of whether your project is international, regional or domestic, large or small scale – we will adapt to your needs.

Renovation

Viggarbach diversion pipe.

Year: 2013/14

Place: Austria, Tyrol, Ellbögen municipality, Sankt Peter district

Project: Renovation of DN 400 water catchment pipe

Problem:

The section of the Viggarbach diversion being renovated is located on a steep slope next to the course of the stream and passes under the Innsbruck- Brenner railroad. In addition, the sudden onset of winter 2013/2014 interrupted work on the slope.

Our solution:

Using an open-trench approach, our team replaced around 340 m of pipe with a DA450 PE100RC, SDR 11 – on time. A walking excavator and a helicopter (to transport materials) were used.

Renovation of the remaining 80m of pipeling using the DynTec process with a DA400 PE100, SDR 11.



Your project

An individual solution.



Process

Reduction with close fit

DynTec is a trenchless pipe renovation system without annular space. It is ideal for trenchless replacement of gas, water and sewage pipes.

DynTec is characterised as a reduction process as the diameter of the PE pipe is reduced when it is inserted. This reduction and subsequent expansion mean the a perfect close fit is achieved.

The relining process means that pipelines can be renovated cost-effectively and with minimum impact on the environment and road traffic. This makes it one of the most efficient and widely-used pipe renovation techniques worldwide. Existing pipelines in any material and in virtually any diameter can be efficiently renovated with PE-HD.

In the DynTec process, the existing pipe is first cleaned, inspected and calibrated. The PE inliner is welded together to form a complete pipeline section. The pipe itself is reduced in diameter by a reduction tool immediately before insertion. The tensile forces are monitored continuously throughout the insertion process.

When insertion is complete and the tensile forces have been released, the PE inliner expands against the existing pipe and creates a permanent close fit. This means there is no annular space which would require packing.

YOUR GAINS

- cost-effective: standard PE materials are used
- diameters from DN 65 to DN 1200
- fast: sections up to 1000 m
- environmentally friendly: little site equipment
- energy-saving: forming without heat input
- minimal disruption of road traffic around site
- renovation to as-new standard

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→ more about our company

DynTec

Fast and effective.

