



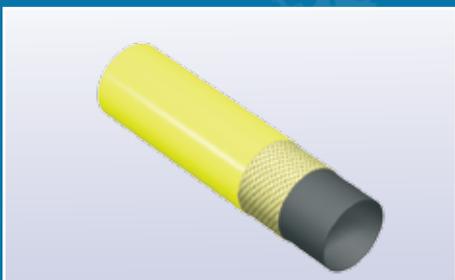
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Industrial Pipe Solutions Worldwide

Primus Line®

Flexible technology for the trenchless rehabilitation of gas pipelines

GAS



Application

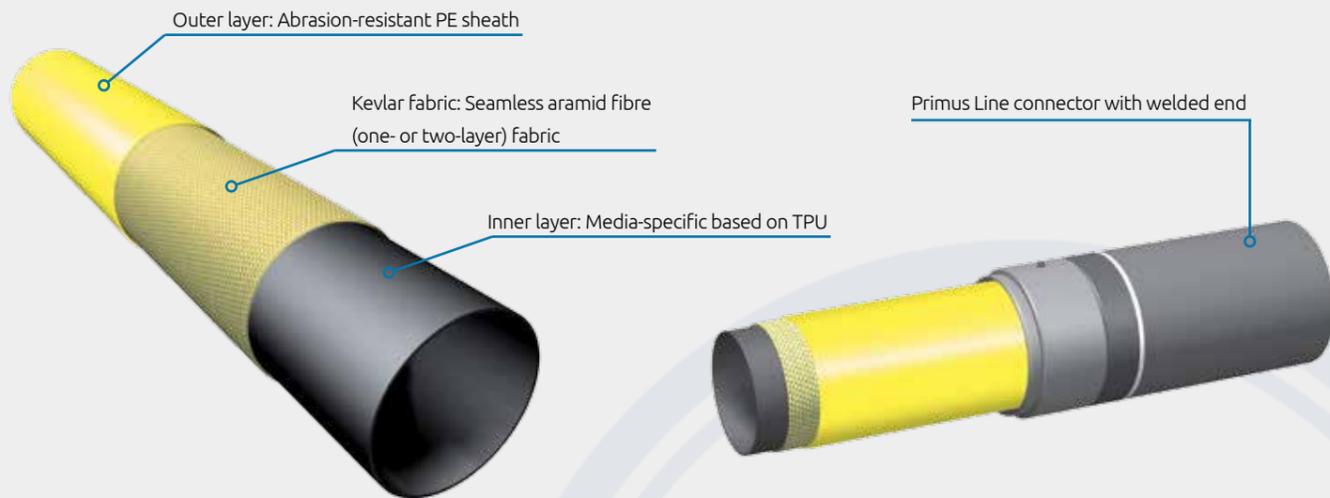
Primus Line® is an innovative technology for the trenchless rehabilitation of pressure pipelines for different media such as gas, water and oil.

The process is based on a flexible high-pressure hose and a connecting technology, which has been developed specifically for this system. Gaseous media represent a special challenge to trenchless pipe rehabili-

tation. However, an inner layer made of permeation reducing plastics and the seamless production of up to 4,500 metres of the Primus Line hose have made it possible for gas pipelines to also be renovated with Primus Line®.

A monitoring pipe with a fitted valve that is affixed to the old pipeline allows the system-specific annular space to be monitored after the renovation work.

Features



Advantages

Easy to Use

- Reduced use of machinery
- Up to 6,000 m can be supplied on a transport drum
- Short construction period due to large insertion lengths
- Small pits, reduction of roadworks
- Able to negotiate bends
- Insertion through bends of up to 45°
- Fast recommissioning

High Strength and Quality

- Life span of at least 50 years
- High abrasion and cut resistance of the outer coating

High Performance

- Minimum cross-section loss due to low wall thicknesses of 6.0 or 8.0 mm
- Improved flow properties of the pipe

PRIMUS LINE

Primus Line® across the world

As an international company with increasing levels of global activity, the Rädlinger primus line GmbH does not just work from its headquarters in Germany; it also has a branch office in the USA.

Primus Line® – the flexible system for trenchless pipe rehabilitation – has proven itself in numerous projects across the world, and has already demonstrated its many benefits in the most wide-ranging fields of application.

Global activities by Rädlinger primus line GmbH

Own branch office in the USA

Headquarters in Germany

Numerous projects worldwide



References in the field of gas

Siphon rehabilitation in Kolpaschevo, Russia:

As part of the technical co-operation with E.ON Ruhrgas AG, OAO Gazprom was looking for a suitable solution for the renovation of the 40-year-old gas pipeline under the River Ob in the Siberian Taiga. The pipeline that was in need of renovation lies up to 11 m below the water level.

After successful renovations with Primus Line®, the provision of gas and heat to the city of Kolpaschevo was once again secured over the long term – and in considerably more favourable conditions than with the other suggested solutions.

- | | |
|------------------------------------|---|
| • Transported medium: | Gas |
| • Diameter of the host pipe: | DN 200 |
| • Operating pressure: | PN 16 bar |
| • Primus Line® system: | Flexible pressure pipe (DN 150 PN 25 bar) |
| • Total length: | 2,500 m |
| • Bends: | 6 bends ranging between 10° and 30°, Radius 5D to 10D |
| • Number of construction sections: | 1 installation section |
| • Longest installation section: | 2,500 m |



High-pressure gas pipeline in Altenessen, Germany:

The renovated high-pressure gas pipeline in Altenessen runs alongside a heavily used main transport route. Open renovations with road closures would have had a massive impact on traffic and would have been difficult to realise.

As such, the demands facing a trenchless method of renovation were also large. The amount of excavation pits along the section of the pipeline to be renovated, which was 1,350 metres in length from the OGE Open Grid Europe site, had to be kept as low as possible. In addition, there was only limited space available for excavation pits and some of the works on the installation of Primus Line® had to be undertaken at night.



- Transported medium: Gas
- Diameter of the host pipe: DN 400 / DN 500 steel
- Operating pressure: PN 10 bar
- Primus Line® system: Flexible pressure pipe (DN 150SD PN 30 bar)
- Total length: 1,350 m
- Bends: Several bends ranging from 20° to 45°
- Number of construction sections: 6 installation section
- Longest installation section: 600 m

Gas pipeline in Dnepropetrovsk, Ukraine:

The first pipeline rehabilitation in the Ukraine entailed a lengthy tendering process, which saw the Primus Line® technology win out over all of the other bidders.

The trenchless system represented the ideal solution for the steel gas pipeline to be renovated, which runs below the main transport routes of Dnepropetrovsk, the third-largest city in the Ukraine.

Trained personnel from the local partner inserted the 1,100 m long DN 500 pipe in one section under the instruction of a supervisor. The works were completed within three working days, without the need to close any roads or set up any diversions.



- Transported medium: Gas
- Diameter of the host pipe: DN 500
- Material of the host pipe: Steel
- Operating pressure: PN 10 bar
- Primus Line® system: Flexible pressure pipe DN 500 PN 10 bar
- Total length: 1,100 m
- Bends: Several vertical and horizontal bends up to 30°
- Number of construction sections: 6 installation section
- Longest installation section: 600 m



ScanTech proactively addresses both quality and environmental concerns from component manufacturing to installation. ISO 9001 and ISO 14001 standards are the basis for the manufacture of all parts in pipe components and systems delivered by ScanTech.

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