



# Scan||TECH

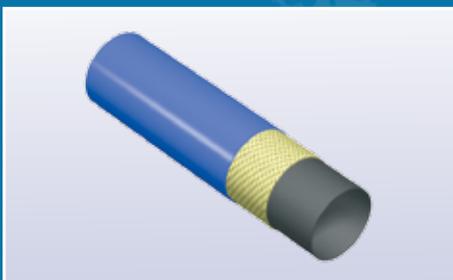
*Industrial Pipe Solutions Worldwide*

## Primus Line®

Flexible technology for the trenchless rehabilitation of water pipelines

Drinking water  
Waste water  
Industrial water  
Quenching water  
Service water  
Warm water  
Sea water

# WATER



## Application

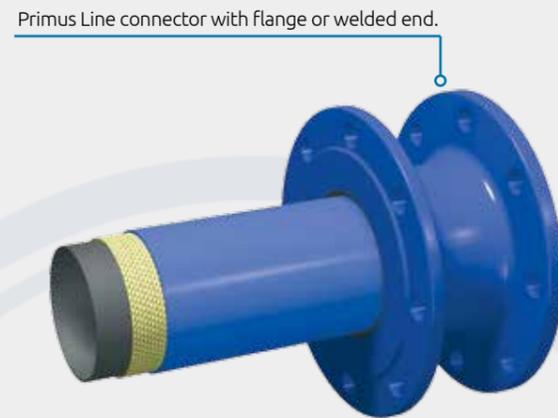
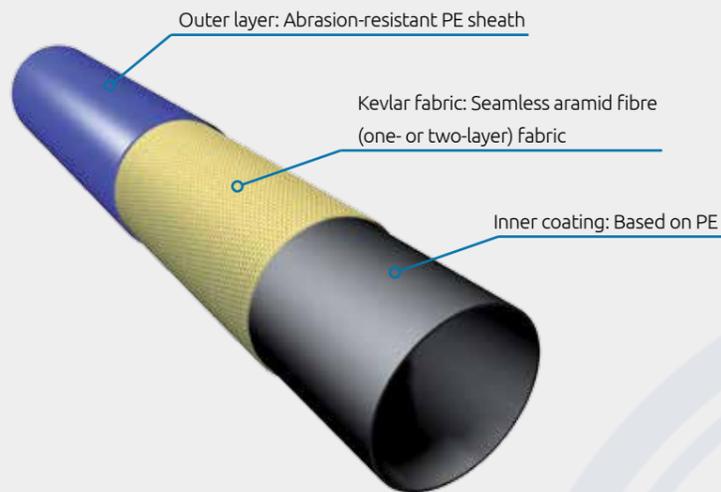
**Primus Line® is an innovative technology for the trenchless rehabilitation of pressure pipelines for different media such as oil, water and gas.**

The process is based on a flexible high-pressure hose and a connecting technology, which has been developed specifically for this system. Primus Line® is suitable for the transportation of various liquids in the field

of water, and holds drinking water permits in several countries. The extremely smooth inner coating, ideal flow characteristics and the optimized systems for high-, medium- and low-pressure requirements all make Primus Line® an

economical choice for the rehabilitation of aging pipelines. Water authorities and network operators benefit from a sustainable and reliable operation and consistent revenue.

## 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
- No corrosion of Primus Line®
- Certifications in the field of drinking water

### 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.

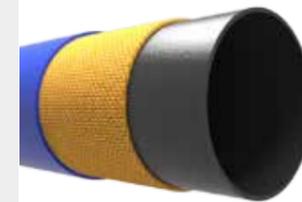
Primus Line® – the flexible system for trenchless pipe rehabilitation – has proven itself in numerous projects across the world, and has already demonstrated its many benefits in the most wide-ranging fields of application.

### Global activities by Rädlinger primus line GmbH

Own branch office in the USA

Headquarters in Germany

Numerous projects worldwide



## References in the field of water

### Water main south of Lake Balaton, Hungary:

A damaged asbestos cement pipeline needed to be repaired. The pipeline connects towns along the south-western banks of Lake Balaton with the water reservoir, which lies to the north of the lake. After 40 years of operation, this key transport pipeline regularly succumbed to damage.

The network operator chose the innovative Primus Line® technology for this project due to the extremely short construction period. The section to be renewed had a total length of 3,526 m. The renovation of the pipeline with Primus Line® took place in two phases; each lasting just 3 weeks.

- |                                 |   |
|---------------------------------|---|
| • Transported medium:           | Drinking water                                  |
| • Diameter of the host pipe:    | DN 500, OD = 580 mm                             |
| • Material of host pipe:        | Asbestos cement                                 |
| • Operating pressure:           | PN 10 bar                                       |
| • Primus Line® system:          | Flexible pressure pipe DN 500 PN 15 bar         |
| • Total length:                 | 3,526 m   |
| • Bends:                        | Several vertical and horizontal bends up to 30° |
| • Part 1 in 5 sections:         | 185 + 296 + 350 + 531 + 900 m                   |
| • Part 2 in 3 sections:         | 526 + 488 + 250 m                               |
| • Longest installation section: | 900 m   |



## Water main in Soto de Agues, Spain:

As the installation site in the Spanish mountains was only accessible across ground by foot, the installation equipment had to be flown in by helicopter. The small amount of tools and machines required for the installation of Primus Line® was of great benefit here, as there was also little room available for work at the installation site itself.

The renovated water main is a key pipeline for the city in the valley. As such, a solution was required that took as little time as possible, that could overcome both vertical and horizontal bends and that allowed for fast recommissioning.

- |  |   |
|--|---|
| • Transported medium:                  | Drinking water                                  |
| • Diameter of the host pipe:           | DN 400, OD = 421 mm, ID = 390 mm                |
| • Material of host pipe:               | Cast iron                                       |
| • Operating pressure:                  | PN 10 bar                                       |
| • Primus Line® system:                 | Flexible pressure pipe<br>DN 400 PN 16 bar      |
| • Total length:                        | 740 m   |
| • Bends:                               | Several vertical and horizontal bends up to 25° |
| • Part 1 in 5 sections:                | 140 + 200 m                                     |
| • Part 2 in 3 sections:                | 200 + 200 m                                     |
| • Longest installation section:        | 200 m   |
| • Duration of the rehabilitation work: | 10 working days                                 |



## Sewage pipe in Brandenburg, Germany:

A waste water syphon below the Havel was showing first signs of corrosion and areas of damage, meaning that the leak tightness could no longer be guaranteed. A suitable method of renovation of the syphon could not interrupt shipping traffic and could only require a short amount of work due to the limited capacity of the waste water storage basins. In addition, the renovation system had to be able to be inserted into an old pipeline filled with water.

Primus Line® fulfilled these demands and was also suitable, when fitted with an extremely wear-resistant inner coating, for the transportation of the pre-treated domestic waste water. As the flexible system is not bonded to the walls of the pipe, inserting it into the existing underwater pipeline was not a problem.

- |                                    |   |
|------------------------------------|---|
| • Transported medium:              | Waste water   |
| • Diameter of the host pipe:       | DN 700  |
| • Material of the host pipe:       | Steel without lining                                |
| • Operating pressure:              | PN 10 bar   |
| • Primus Line® system:             | Flexible high-pressure pipeline<br>DN 500 PN 15 bar |
| • Total length:                    | 93 m  |
| • Bends:                           | Several bends of up to 22,5°                        |
| • Number of construction sections: | 1 installation section                              |



# Scan||TECH

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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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