

Lining

Rehabilitation
starts on surface



Impregnation System - fast and easy

Depending on the rehabilitation process, the resin is impregnated into the dry liner at the job-site. To get a good installation result the liner must be impregnated carefully and evenly so that the liner is soaked with resin completely. With the IBG system the liners are treated with care and will be impregnated in one step that avoids further treatment to remove bubbles or refinish the surface.

Stainless steel impregnation systems


We offer a wide range of impregnation systems depending on the model, size and application. Our small, mobile versions have calibrating rollers that are manually driven. The roller spacing can also be adjusted manually. These units are also available with a base frame and provide space-saving when in use.

Our medium-sized impregnation systems are equipped with electronically driven calibrating rollers. They are height adjustable (set manually) and are delivered with wheels. We can also integrate the system into a rehabilitation vehicle should customers wish.

To impregnate large liners we offer systems that are fully automatic and electrically driven (with an optional base frame to accommodate the electric switch box or compressor). Connected to a PLC control different data such as gap space, feed rate and the calibrated liner length can be documented and recorded. The systems are also available as mobile units or built into a vehicle (e.g. with conditioned tanks for resin and hardener, resin mixer unit, conveyer belt etc.).



Construction of
fully equipped
vehicles



For impregnation of liners on a job-site

- Applicable to liners from ID 100 to 1,200 mm (4" - 47")
- Stainless steel construction
- Available in different sizes and versions
- Manual or electric driven
- Mobile unit or fixed installation

Inversion Drums - high capacity and compact

With the help of an inversion drum a liner can be inserted easily into a deteriorated pipe. The coiled liner is "inflated" using air pressure into the pipe section under repair. The liner is 'inverted', which means the resin impregnated fabric, originally on the inside, lays directly against the inner surface of the pipe, with the coated inner foil now in the middle of the liner. By operating the rehabilitation process at the inversion drum, the inversion pressure and speed of advance through the pipe can be constantly controlled. After inserting the liner a heating medium (hot water or steam) is introduced into the liner via the drum causing the liner to 'cure'. After the curing process a new pipe has been installed inside the old one. Our inversion drums are made of stainless steel and can be used for liner rehabilitation applications from ID 100 up to 1,200 mm (4" - 47"). They are designed and manufactured according to client requirements and are available in different sizes and versions.

Possible features

- Electro-pneumatically operated air inlet and exhaust valves
- Flange for supplying of water and steam
- Bottom outlet with shut-off ball valve
- Safety valve with guided outlet
- Inspection glass with LED spotlights for lighting the drum
- Hydraulic brake system with individual braking control
- Compressed air-driven cap sealing



- Hydraulic brake (transport protection)
- Redundant safety system to guard against unintentional operation or power failure
- Powerful motor for winding/unwinding the liner or the belt
- Pressure and temperature indication (analogue/digital display)
- Moveable liner limitation plates on the shafts
- Cable remote control with emergency stop
- All features can be operated manually in case of emergency
- Uninterrupted inversion due to no pressure drop

Mobile unit
or fixed
installation



UV Equipment - the detail makes the different

Over the past 25 years, alongside the heat curing systems for trenchless pipe rehabilitation, the curing of liners using UV light was developed - providing a space saving system that utilised a UV-sensitive photo-initiated resin. We produce effective and compact systems of modular design that can grow to meet expanding needs. It can be supplied as mobile unit for limited access job-sites or as a fully equipped rehabilitation vehicle. The system is available in models IBG maxLight 5200, maxLight 9600 and maxLight 12000 including various upgrades. It can be utilised in circular cross section pipes from ID 150 to 1,500 mm (6" to 60") as well as in various egg-shaped pipes. Depending on the dimensions of a project, the system is equipped with a light train or UV double core.



UV-Systems overview

IBG maxLight 5,200

Cable reel

- Special UV-cable up to 300 m)
- „Plug Cam“
- Stainless steel construction

Light train ID 150 - 600 (6" - 24")

- 2x strings incl. 4 UV-lamps each
- 400 / 500 / 650 watt per lamp
- Wheel sets for ID 150 - 600
- Front camera with high-power LED

Control

- Touch screen integrated in Drum
- Intuitive menu navigation

Accessories

- Packer-set of stainless steel
- Return pullies, foil, liner etc.
- Spare part and accessory kit

Upgrade IBG maxLight 9,600

(IBG maxLight 5,200 plus following upgrades)

Dual Core ID 600 - 1,200 (24" - 48")

- 2x light core incl. 4 UV-lamps each
- 1,000 / 1,200 watt per lamp
- Electric driven set-up of each single-core

Power unit 9,6 kw

- Gearing unit 8 x 1,000 / 1,200 watt
- „Plug and Work“
(Connection will be detected automatically)

Control

- Extension for Dual Core
8 x 1,000 / 1,200 watt
- Extension for output stage 8 / 9,6 kW

Accessories

- 3 additional sets of packers (stainless steel)

Upgrade IBG maxLight 12,000

(IBG maxLight 9,600 plus following upgrades)

Dual Core ID 600 - 1,500 (24" - 60")

- 1,000 / 1,200 / 1,500 watt per lamp

Power unit 12 kW

- Gearing unit 8 x 1,000 / 1,200 / 1,500 watt

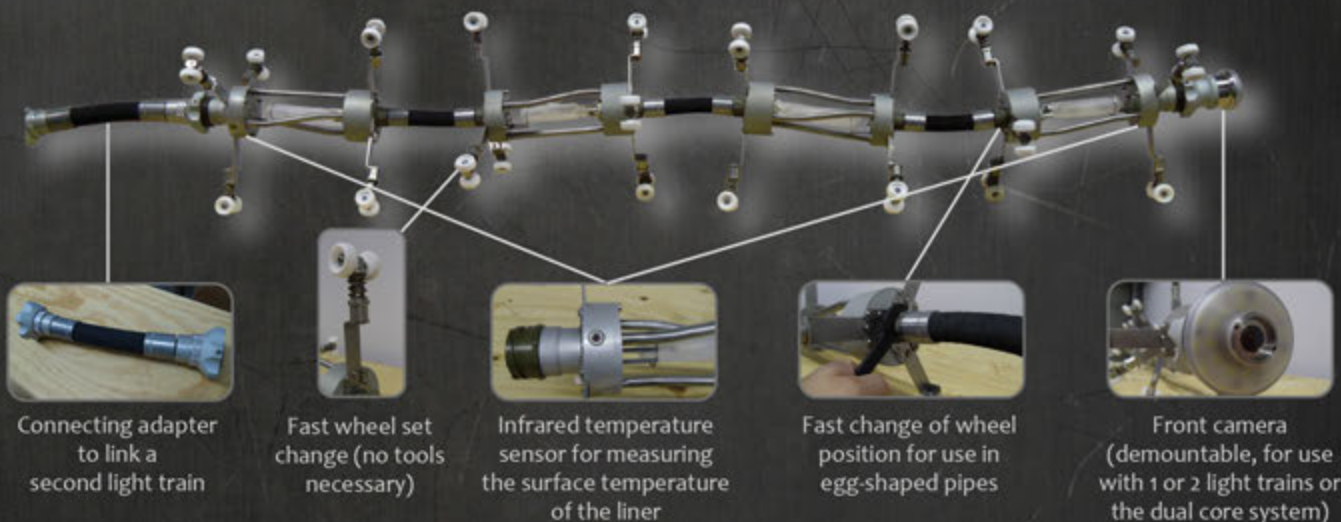
Control

- Extension for Dual Core
8 x 1,000 / 1,200 / 1,500 watt
- Extension for output stage 8 / 9,6 / 12 kW

Accessories

- additional set of packers DN 1,500 (60")

UV Curing Equipment for circular cross-section pipes from ID 150 to 1,500 mm (6" - 60"), egg-shaped pipes and special profiles



Sewer Rehabilitation vehicles - customized system design

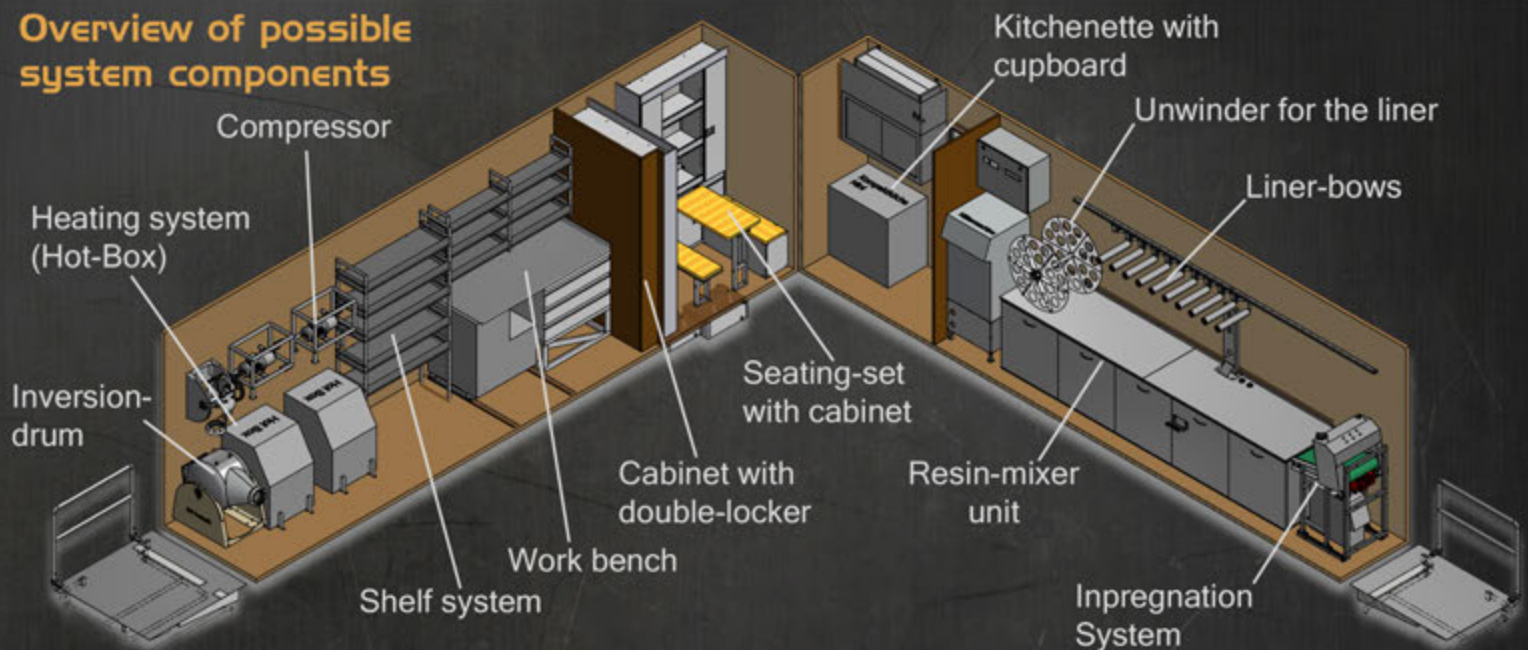
The high quality, well-equipped vehicle bodywork is assembled in our production plant. The main focus is the quality and long-life expectancy of all components used. As well as standardized vehicle configurations we also offer individual solutions to meet specific requirements:

- Partial or complete vehicle body work
- Assembled into a container, trailer, semi-trailer, truck, van etc.
- Equipment selection and adjustments made-to-measure

We also take care of maintenance and repair work.



Overview of possible system components



IBG HydroTech GmbH has focused its activities on developing and manufacturing high-quality products in the field of robotics, sewer cleaning and pipe rehabilitation. The company offers products that can be customized to client needs - from the single system components up to complex equipped vehicles of all kinds. Experience over 40 years together with close team work on both national and international projects allows us to provide market-driven product solutions. We set high standards for ourselves and our products.

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