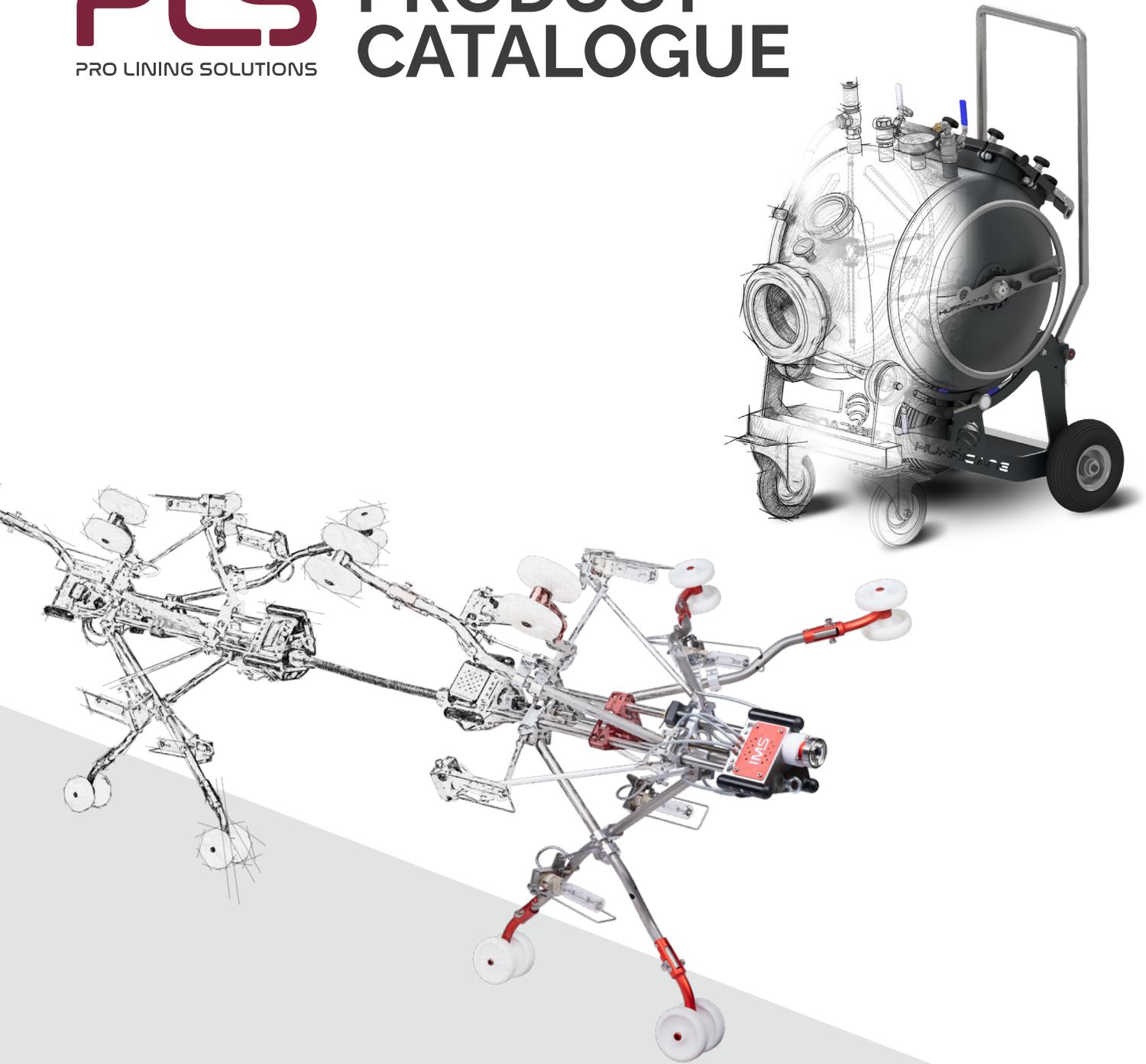




PRODUCT CATALOGUE



**TRENCHLESS
TECHNOLOGY**
FOR SEWER PIPES

www.proliningsolutions.com



Trust, integrity & professionalism

Pro Lining Solutions (PLS) is a subsidiary of the IMS Group, specialising in materials and technologies for trenchless sewer rehabilitation. With a strong focus on CIPP solutions, PLS provides contractors and utilities with high-quality products, systems and tailored support for underground pipe rehabilitation.

Beyond supplying materials, we are committed to offering technical expertise, training and on-site support to ensure reliable, efficient and cost-effective projects. Customer satisfaction, innovation and long-term trust are central to our work, making PLS a valued partner in modern sewer rehabilitation.

As part of the IMS Group, PLS benefits from a strong tradition of innovation and reliability, giving customers access to proven technologies and trusted expertise across the sewer rehabilitation industry.

Our core values



GLOBAL INDUSTRY EXPERTISE

A worldwide network in trenchless technologies



LEADING INNOVATION

Dedicated to continuous innovation to meet customer needs



DECISION AUTONOMY

Development, manufacturing and distribution - all from one source



Pro Lining Solutions is proud to be a member of the IMS Robotics Group.



www.hurricane-tt.de



www.ims-robotics.de



www.brandenburger-liner.com

Hurricane Trenchless Technologie, based in Maintal, Germany, brings decades of experience from a team of specialists in trenchless pipe rehabilitation. The company also offers mechanical engineering, rehabilitation systems, equipment and supplies for wastewater, drinking water, district heating, gas and oil applications.

IMS Robotics GmbH is widely recognised for its sewer milling robots and UV curing systems. Headquartered near Dresden, the company works with a comprehensive network of reliable, highly professional partners to develop, manufacture, service and distribute its product portfolio.

Brandenburger Liner GmbH & Co. KG, based in Landau, Germany, has decades of experience manufacturing high-quality liners for trenchless sewer rehabilitation. As a reliable partner for maintaining sewer infrastructure, the company offers innovative, resource-saving and sustainable solutions for both horizontal and vertical rehabilitation projects.

Our products & solutions





Latest innovations

Committed to ongoing development, we continually expand our product portfolio to meet customer needs. One of our latest innovations is the PROcure LED curing system. This mobile unit enables liner curing from DN 75 to DN 500 using UV light emitted by high-performance LEDs. PROcure is suitable for both house connections and medium-diameter main sewer liners.

In addition, we have expanded our well-established pneumatic milling robot series with a powerful electric motor range. Our E-robots operate efficiently and quietly, with four different models currently available for both main sewers and house connections. The newest addition to the series is the battery-powered NANO E.

PROcure DN 75 - DN 500 (3" - 20")

- Innovative LED curing system for house connections
- Flexible in 90° bends within relined DN 100 (4") pipes
- Automatic documentation of length, temperature, internal pressure, and speed
- Dimmable camera lighting with photo and video recording
- Control unit with monitor and curing software
- Remote maintenance capability via Wi-Fi hotspot
- Increased flexibility and bendability thanks to shorter light source and connector lengths
- Easy download of curing protocol via USB
- Hexagonal arrangement of 6 LED sections for improved illumination



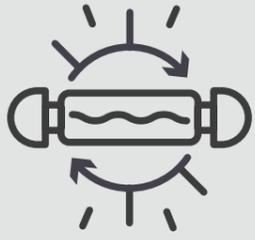
- 1 Automatic pull-back unit with additional display
- 2 Cable with integrated push rod for optimum positioning
- 3 Flexible light source 1x600W (DN 75/3" - 150/6")
- 4 Flexible light source 2x600W (DN 100/4" - 300/12")
- 5 Large light source 1200W from (DN 150/6" - DN 500/20")



New and smaller light source with reduced weight and optimised illumination

OUR PRODUCTS

WEIGHT	SIZE (W x L x H)	SUPPLY HOSE LENGTH
93,5 kg (206 lbs)	835 x 950 x 1070 mm (33" x 37" x 42")	70 m (229 ft) 100 m (328 ft)



IMS UV curing systems

IMS Robotics' state-of-the-art UV systems are specifically designed to deliver reliable and efficient sewer rehabilitation. We offer a range of systems with different wattages for main sewers, all of which can be easily set and controlled via a touch panel. This allows operators to configure all necessary parameters and carry out curing as required. In addition to UV systems with various equipment options, our specialist staff provide comprehensive training and detailed instructions for each product.

UV 8000 light

8x400/650/1000 W
DN 150 - DN 1200

- Very lightweight and mobile
- Lamp power measurement (optional)
- Temperature-resistant hybrid cable with connectors on both sides
- Industrial control with two 10-inch touch panels
- Lamp operating hours counter
- PLC with operating panel from drum control
- Flexible mounting options inside the vehicle
- Remote maintenance via the Internet
- Leaking test programme (tightness)

- 1 Sturdy wheels with brakes
- 2 Foldable arm with deflection guide
- 3 Temperature-resistant colour camera
- 4 Motorised drum with overrunning clutch
- 5 Lightweight, mobile frame
- 6 Socket for manual crank
- 7 Compatible with various light sources



WEIGHT	SIZE (W x L x H)	SUPPLY HOSE LENGTH
575 kg (1268 lbs)	740 x 1520 x 1560 mm (29" x 60" x 61")	up to 270 m (689 ft)

UV 8000 compact

DN 150 - DN 1200 (6" - 48")
8x400/650/1000 Watts

- 8000-watt power
- Temperature-resistant hybrid cable with connectors on both sides
- Dimmable / selectable power output
- Industrial control unit with two 10-inch touch panels
- Temperature-resistant colour camera
- Air conditioning for cooling the cable drum
- Upgrade option to UV 12000 Compact

WEIGHT	SIZE (W x L x H)	SUPPLY HOSE LENGTH
730 kg (1609 lbs)	775 x 1620 x 1750 mm (30.5" x 64" x 69")	up to 270 m (590 ft)



UV 12000 compact

DN 150 - DN 1600 (6" - 64")
12x400/650/1000 Watts

- 12000-watt power
- Temperature-resistant hybrid cable with connectors on both sides
- Lamp operating hours counter
- Air conditioning for cooling the cable drum
- Industrial control unit with two 10-inch touch panels
- Up to 3 temperature-resistant colour cameras: front, rear-view, and packer camera
- Can be operated via external controls with large screens inside the vehicle

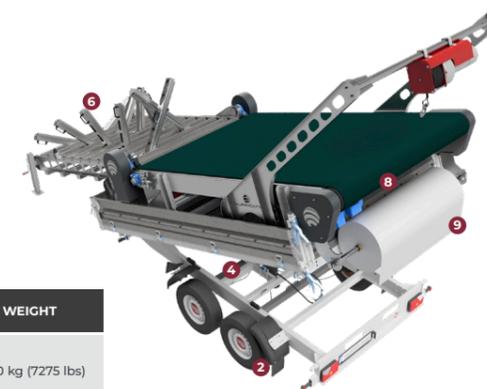
WEIGHT	SIZE (W x L x H)	SUPPLY HOSE LENGTH
780 kg (1720 lbs)	775 x 1620 x 1750 mm (30.5" x 64" x 69")	up to 180 m (590 ft)

Citylight conveyor belt with folding unit

up to DN 1600 (63")

Perfect addition for big diameters

- 1 Chassis (base frame)
- 2 Tandem axle
- 3 Height adjustable support feet
- 4 Trailer lifting device
- 5 PVC conveyor belt with anti-slip surface
- 6 Motorised swivelling folding station
- 7 Adjustable idlers
- 8 Gear motor conveyor belt
- 9 Sliding foil roller
- 10 Motorised crane
- 11 Sliding crane portal
- 12 Folding station with geared motor



SIZE (W x L x H)	NOMINAL WIDTHS	WEIGHT
6400 x 2200 x 180 mm (252" x 87" x 7")	DN 600 - DN 1600 mm (24" - 63")	3300 kg (7275 lbs)



IMS UV light sources

The following light sources are all compatible with the current IMS UV systems. Options include light chains, light source cores, and electrically extendable cores. They cover pipe diameters from DN 150 to DN 1600 (6" to 63") in circular pipes. Special profile extensions are available for egg-shaped pipes. Adaptation to the Citylight UV system is possible. A range of accessories, end-cap sets, and site tools is also available.

Light train

4x3x400/650 W
DN 500 - DN 1200 (20" - 48")

- 3 lamps evenly distributed in a circle on each light source core
- Flexible, powerful light chain for medium and large diameters
- Temperature-resistant colour camera
- 2 sensors for monitoring liner surface temperature
- 1 sensor for monitoring air temperature

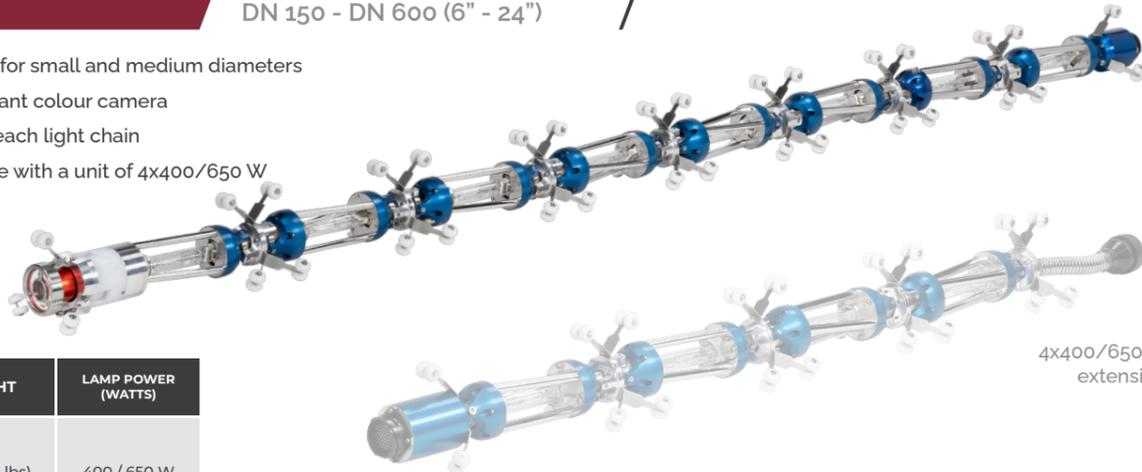


LENGTH	WEIGHT	LAMP POWER (WATTS)
2325 mm (91")	20 kg (44 lbs)	400 / 650 W

Light train

8x400/650 W (+4x400/650 W)
DN 150 - DN 600 (6" - 24")

- Flexible light chain for small and medium diameters
- Temperature-resistant colour camera
- 1 lamp centred on each light chain
- Optional extendable with a unit of 4x400/650 W



LENGTH	WEIGHT	LAMP POWER (WATTS)
2660 mm (105")	13 kg (29 lbs)	400 / 650 W

4x400/650 W extension

Light train

2x4x1000 W
DN 600 - DN 1500 (24" - 47")

- Flexible, powerful light chain for medium and large diameters
- Light chain extendable with an additional unit of 1 x 4 x 1000 W
- Temperature-resistant colour camera

LENGTH	WEIGHT	WATTS LAMP POWER
1080 mm (42.5") per core	16 kg (35 lbs) per core	1000 W



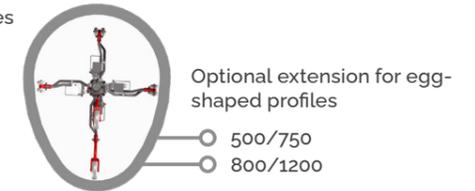
Extension of 1x4x1000 W

Electrically extendable cores

2x4x1000 W
DN 550 - DN 1200 (22" - 48")

- Two electrically extendable cores for medium and large diameters
- Temperature-resistant colour camera
- Lamps and wheels freely adjustable via electric control
- Quick-change wheels for egg-shaped profiles

LENGTH	WEIGHT	LAMP POWER (WATTS)
950 mm (37") per core	29 kg (64 lbs) per core	1000 W

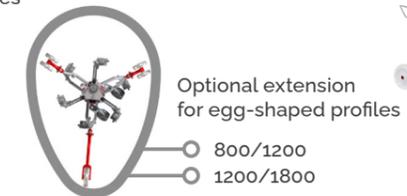


Electrically extendable cores

2x6x1000 W
DN 1000 - DN 1600 (40" - 64")

- Two electrically extendable cores for large diameters
- Temperature-resistant colour camera
- Lamps and wheels freely adjustable via electric control
- Quick-change wheels for egg-shaped profiles

LENGTH	WEIGHT	LAMP POWER (WATTS)
1245 mm (49") per core	50 kg (110 lbs) per core	1000 W



Manhole light core

3x650 W
Manhole

- Small light core for manhole liners (UV CIPP)
- Temperature-resistant colour camera
- Lamps protected by bars

SIZE (W x L x H)	WEIGHT	LAMP POWER (WATTS)
320 x 320 x 293 mm (13" x 13" x 12")	4 kg (9 lbs)	400 / 650 W



Light train winch

- For pulling UV light sources into the installed liner and removing the inner foil
- Battery-powered or mains-powered (110 V / 220 V)



For more information scan QR code

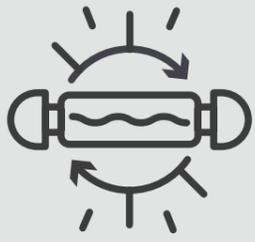


Accessories

End cans

UV starter set





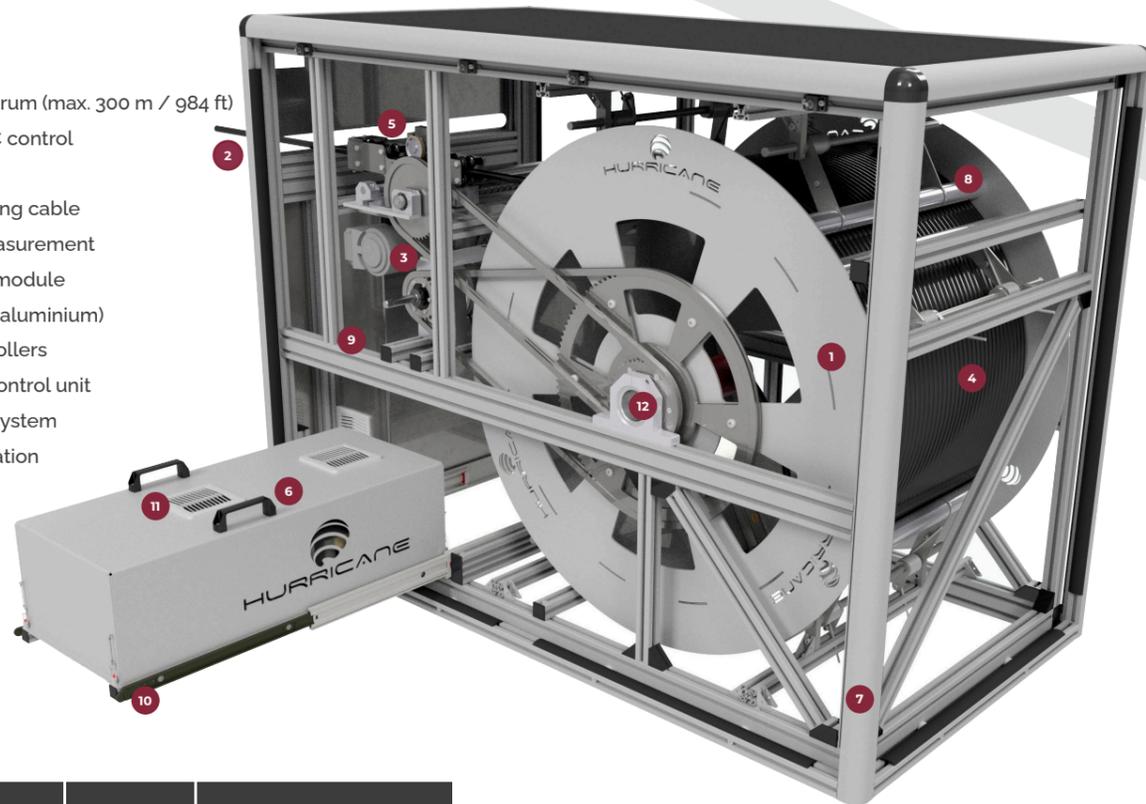
Citylight UV curing systems

and light sources

The central component of the Citylight UV curing system is the cable drum with PLC control. The frame is constructed from aluminium, reducing the overall weight of the system. All functions can be operated via the PLC control, using a brightly illuminated Siemens SIMATIC touch screen mounted on the front of the unit. Both light trains and light cores are available, enabling the curing of liners from DN 150 up to DN 2000 (6" to 80").

UV cable drum

- 1 Stainless steel cable drum (max. 300 m / 984 ft)
- 2 Siemens SIMATIC PLC control
- 3 Drive unit
- 4 UV heat-resistant curing cable
- 5 Integrated length measurement
- 6 Modular power pack module
- 7 Special profile frame (aluminium)
- 8 Adjustable pressure rollers
- 9 Control cabinet and control unit
- 10 Heavy-duty pull-out system
- 11 Filter fan for air circulation
- 12 Electrical slip ring



SIZE (L x W x H)	CONTROL	WEIGHT
2000 x 1065 x 1455 mm (79" x 42" x 57")	SIEMENS SIMATIC PLC	760 kg (1675 lbs) (WITHOUT POWER PACK)

Light train

≤DN 150 - DN 600 (6" - 24")

- 1 Plug & Play wheel sets
- 2 Infrared sensors
- 3 Flexible setup
- 4 Plug & play front camera
- 5 Connector

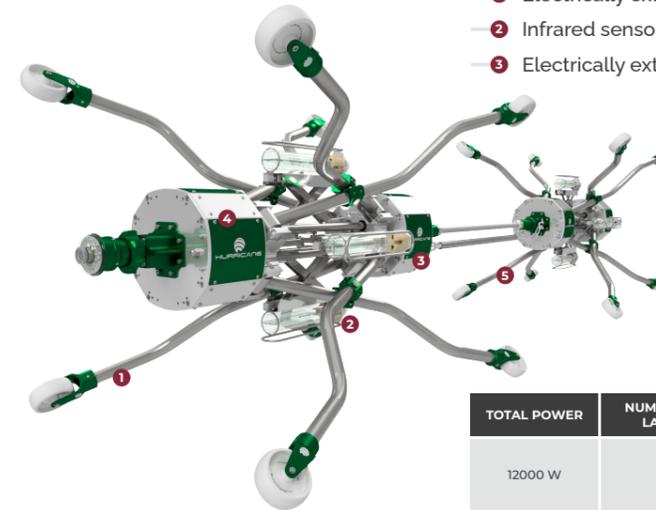


TOTAL POWER	NUMBER OF LAMPS	LAMP POWER (WATTS)	IR SENSORS	AMBIENT AIR SENSOR	NUMBER OF LIGHT SOURCES
5200 W	8	400 - 650 W	4 Sensors	1 Sensor	2 Light chains

Dual core

≤DN 600 - 1600 (24" - 63")

- 1 Electrically extendable legs
- 2 Infrared sensors
- 3 Electrically extendable lamps
- 4 Plug & play front camera
- 5 Connector with strain relief



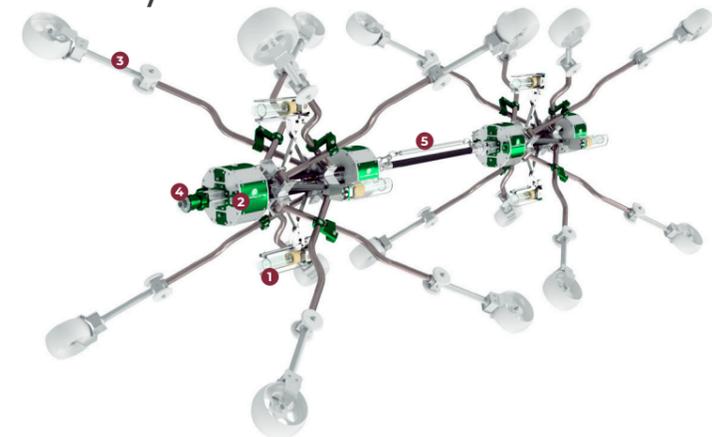
TOTAL POWER	NUMBER OF LAMPS	LAMP POWER (WATTS)	IR SENSORS	AMBIENT AIR SENSOR	NUMBER OF LIGHT SOURCES
12000 W	8	1000 - 1500 W	3 Sensors	1 Sensor	2 Light cores

Dual core extended

≤DN 1600 - DN 2000 (63" - 80")

diameter upgrade for dual core

- 1 Adjustable lamps with up to 2000 W output
- 2 Infrared sensors
- 3 Attachable wheel extension for DN 2000 (80")
- 4 Plug & play front camera
- 5 Strain relief



TOTAL POWER	NUMBER OF LAMPS	LAMP POWER (WATTS)	IR SENSORS	AMBIENT AIR SENSOR	NUMBER OF LIGHT SOURCES
16000 W	8	1500 - 2000 W	3 Sensors each core	1 Sensor each core	2 Light cores



For more information scan QR code





Lining equipment

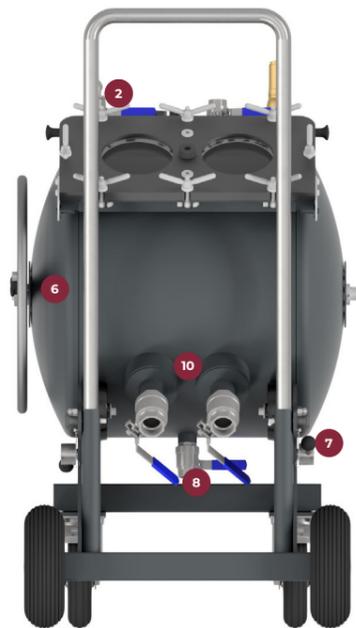
Inversion drums for the rehabilitation of damaged pipes

Thunder Drums are field-proven, robust, and provide high-quality equipment for straightforward CIPP lining. With Hurricane inversion drums, the flexible liner can be inserted into the sewer quickly, safely, and with ease. The resin-impregnated hose (liner) is wound onto the drum axle with a control rope and inverted into the open- or closed-ended sewer using compressed air. Both inversion pressure and inversion speed are continuously monitored via the control elements on the inversion drum.

Thunder Drum 600

≤ DN 300 (12")

- 1 Removable transport handle
- 2 Pressure gauge
- 3 Thermometer
- 4 Compressed air ball valve
- 5 Pressure relief valve
- 6 Protective coating
- 7 Tilt adjustment
- 8 Drain device
- 9 Sight glass for inspection
- 10 Water connection
- 11 Quick coupling
- 12 Removable hand wheel



Available in stainless steel or aluminium versions.

DRUM-Ø	SIZE (W x L x H)	CONTROL WINDOW	CONNECTION	MAX. PRESSURE	CURING METHOD	MAX. TEMPERATURE	WEIGHT	SAFETY VALVE	MAX. LINER LENGTH
600 mm (24")	645 x 1106 x 1276 mm (25" x 43.5" x 50")	200 x 455 mm (8" x 18")	6" Storz / Camlock	1.5 bar (21 psi)	Air, steam, hot water, UV light	100 °C (212 °F)	Stainless steel 138 kg (304 lbs)	1.5 bar (21 psi)	DN 100/4 mm = 35 m DN 125/4 mm = 30 m DN 150/4 mm = 28 m DN 200/4 mm = 25 m DN 300/4 mm = 25 m

Thunder Drum 400 light

≤ DN 150 (6")

- 1 Two carrying handles (left and right)
- 2 Valves and operating elements
- 3 Sight glass for inspection
- 4 Side cover with quick-release lock



Available in stainless steel or aluminium versions.

DRUM-Ø	SIZE (W x L x H)	CONTROL WINDOW	CONNECTION	MAX. PRESSURE	CURING METHOD	MAX. TEMPERATURE	WEIGHT	SAFETY VALVE	MAX. LINER LENGTH
400 mm (16")	286 x 614 x 565 mm (11" x 24" x 22")	/	6" Storz / Camlock	1.5 bar (21 psi)	Air, steam, hot water	100 °C (212 °F)	30 kg (66 lbs)	1.5 bar (21 psi)	DN 100/4 mm = 16 m DN 125/4 mm = 14 m DN 150/4 mm = 12 m

Thunder Drum 400

≤ DN 150 (6")

- 1 Windows with hot water connections
- 2 Valves and controls
- 3 Sight glass for visual control
- 4 Carriage handles
- 5 Handwheel
- 6 Tilt adjustment



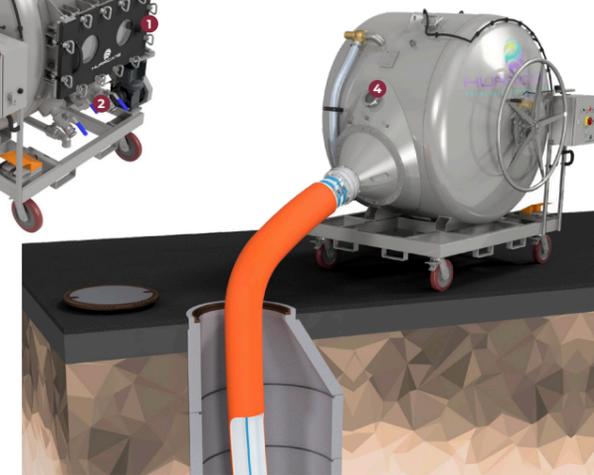
Available in stainless steel or aluminium versions.

DRUM-Ø	SIZE (W x L x H)	CONTROL WINDOW	CONNECTION	MAX. PRESSURE	CURING METHOD	MAX. TEMPERATURE	WEIGHT	SAFETY VALVE	MAX. LINER LENGTH
400 mm (16")	454 x 710 x 621 mm (18" x 28" x 25")	200 x 215 mm (8" x 9")	6" Storz / Camlock	1.5 bar (21 psi)	Air, steam, hot water, UV light	100 °C (212 °F)	34 kg (75 lbs)	1.5 bar (21 psi)	DN 100/4 mm = 18 m DN 125/4 mm = 15 m DN 150/4 mm = 13 m

Thunder Drum 1600

≤ DN 500 (20")

- 1 Windows
- 2 Hot water connections
- 3 Electrical control
- 4 Sight glass for inspection
- 5 Frame support for forklift
- 6 Handbrake
- 7 Compressed air fittings



DRUM-Ø	SIZE (W x L x H)	CONTROL WINDOW	CONNECTION	MAX. PRESSURE
1600 mm (63")	1422 x 1964 x 1962 mm (56" x 77" x 77")	400 x 750 mm (16" x 29.5")	Cone with screw flange	1.5 bar (21 psi)
CURING METHOD	MAX. TEMPERATURE	WEIGHT	SAFETY VALVE	MAX. LINER LENGTH
Air, steam, hot water, UV light	100 °C (212 °F)	660 kg (1455 lbs)	1.5 bar (21 psi)	DN 100/4 mm = 200 m DN 150/4 mm = 150 m DN 200/4 mm = 125 m DN 300/4 mm = 100 m DN 400/4 mm = 100 m DN 500/4 mm = 75 m

Other sizes available

up to DN 1200 (47")

(aluminium and stainless steel)





Lining equipment

Inversion sluices for the rehabilitation of damaged pipes

Thunder Shooters are used for inverting hose liners without length limitation. In contrast to inversion drums, the material can be continuously fed from the rear without interruption. The intelligent compressed air control system ensures smooth and consistent insertion of the liner into the pipe. The continuity of this process depends on liner characteristics such as diameter and coating stiffness, which influence the success of continuous insertion. This is achieved in a single operation using a two-stroke process with an integrated sealing chamber. Larger units are equipped with two sealing chambers, providing even greater convenience during operation.

Thunder Shooter 200 ≤ DN 200 (8")

- 1 Shooter
- 2 Pressure chamber
- 3 Frame construction with rollers
- 4 Control unit
- 5 Folding mechanism
- 6 Compressed air monitoring
- 7 Storz / camlock coupling
- 8 Compressed air supply control
- 9 Inspection sight glass
- 10 Parking brake



CHAMBERS	SIZE (W x L x H)	CONTROL WINDOW	CONNECTION	MAX. PRESSURE	CURING METHOD	MAX. TEMPERATURE	WEIGHT	SAFETY VALVE	MAX. LINER LENGTH
1	617 x 785 x 952 mm (24" x 31" x 37")	Ø 150 mm (6")	6" Storz / Camlock	1.5 bar (21 psi)	Air, steam, hot water, UV light	100 °C (212 °F)	36 kg (79 lbs)	1.5 bar (21 psi)	DN 100 = ∞ DN 150 = ∞ DN 200 = ∞

Thunder Shooter 300 ≤ DN 300 (12")

- 1 Shooter
- 2 Pressure chamber 1
- 3 Pressure chamber 2
- 4 Frame construction with rollers
- 5 Control unit
- 6 Spray system
- 7 Folding mechanism
- 8 Compressed air monitoring
- 9 Inversion cone
- 10 Compressed air supply control
- 11 Control sight glass
- 12 Control for pressure chamber 1
- 13 Control for pressure chamber 2



CHAMBERS	SIZE (W x L x H)	CONTROL WINDOW	CONNECTION	MAX. PRESSURE	CURING METHOD	MAX. TEMPERATURE	WEIGHT	SAFETY VALVE	MAX. LINER LENGTH
2	794 x 1363 x 1331 mm (31" x 54" x 52")	Ø 150 mm (6")	8" Storz / Camlock	1.5 bar (21 psi)	Air, steam, hot water, UV light	100 °C (212 °F)	80 kg (176 lbs)	1.5 bar (21 psi)	DN 100 = ∞ DN 150 = ∞ DN 200 = ∞ DN 300 = ∞

Thunder Shooter 600 ≤ DN 600 (32")

- 1 Control unit for inversion
- 2 Control unit for crawler
- 3 Tracked undercarriage
- 4 Inversion cone up to DN 600 (32")
- 5 Inspection sight glasses on both sides

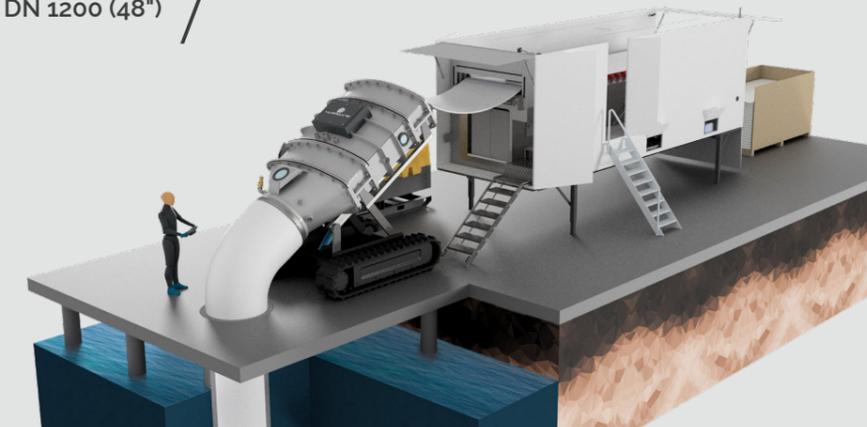


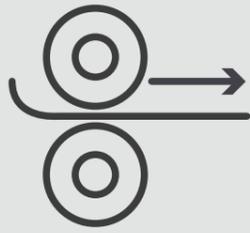
CHAMBERS	SIZE (W x L x H)	CONTROL WINDOW	CONNECTION	MAX. PRESSURE	CURING METHOD	MAX. TEMPERATURE	WEIGHT	SAFETY VALVE	MAX. LINER LENGTH
2	1218 x 1973 x 1945 mm (48" x 78" x 76.5")	Ø 150 mm (6")	Cone with screw flange	1.5 bar (21 psi)	Air, steam, hot water, UV light	100 °C (212 °F)	~900 kg (1984 lbs)	1.5 bar (21 psi)	DN 100 = ∞ DN 150 = ∞ DN 200 = ∞

Other DN sizes available

up to DN 1200 (48")

For more products scan QR code





Calibration units

impregnation systems and roller tables

The innovative, material-friendly impregnation systems are ideally suited for evenly distributing and fully soaking resins into liners for trenchless sewer rehabilitation. These high-quality systems are designed for reliable resin impregnation of liners on-site for CIPP. They support the lining preparation process in a particularly gentle, material-preserving way. Manual and electrically driven versions are available for liners up to DN 1200 (48").

Calibration unit MAXI ≤ DN 400 (16")

- 1 Electrically driven drum motors
- 2 Aluminium / steel frame with wheels
- 3 Transparent protective cover
- 4 Emergency stop
- 5 Height adjustment with digital display
- 6 Stable construction
- 7 Fully integrated control electronics
- 8 Foldable roller conveyor



MAX. LINER DN	DRIVE	VERSION	HEIGHT ADJUSTMENT	SIZE (W x L x H)	WEIGHT
400 mm (16")	Electric	Mobile	Manual with digital display	903 x 1450 x 1640 mm (35.5" x 57" x 64.5")	175 kg (386 lbs)
400 mm (16")	Electric	Fixed	Electric with digital display	903 x 1450 x 856 mm (35.5" x 57" x 34")	152 kg (335 lbs)

Calibration unit MICRO

≤ DN 200 (8")

- 1 Ergonomic hand wheel
- 2 Aluminium frame
- 3 Vertical height adjustment
- 4 Adaptation for electric drive
- 5 Rubber-coated rollers
- 6 Light and stable construction
- 7 Easy table mounting
- 8 Transport handle



MAX. LINER DN	DRIVE	VERSION	HEIGHT ADJUSTMENT	SIZE (W x L x H)	WEIGHT
200 mm (8")	Manual	Mobile	Manual with analog display	330 x 554 x 375 mm (13" x 22" x 15")	19 kg (42 lbs)

Calibration unit MINI

≤ DN 300 (12")

- 1 Electrically driven drum motors
- 2 Aluminium frame
- 3 Transport handles
- 4 Emergency stop
- 5 Height adjustment
- 6 Light and stable construction
- 7 Fully integrated control electronics



MAX. LINER DN	DRIVE	VERSION	HEIGHT ADJUSTMENT	SIZE (W x L x H)	WEIGHT
300 mm (12")	Electric	Mobile	Manual with analogue display	310 x 735 x 351 mm (12" x 29" x 14")	30 kg (66 lbs)

Calibration unit MIDI

≤ DN 300 (12")

- 1 Electrically driven drum motors
- 2 Aluminium / steel frame with wheels
- 3 Transparent protective cover
- 4 Emergency stop
- 5 Height adjustment with digital display
- 6 Stable construction
- 7 Fully integrated control electronics
- 8 Foldable roller conveyor



MAX. LINER DN	DRIVE	VERSION	HEIGHT ADJUSTMENT	SIZE (W x L x H)	WEIGHT
300 mm (12")	Electric	Mobile	Manual with digital display	768 x 1450 x 1640 mm (30" x 57" x 64.5")	175 kg (386 lbs)
300 mm (12")	Electric	Fixed	Electric with digital display	768 x 1150 x 856 mm (30" x 45" x 34")	138 kg (304 lbs)

Roller table

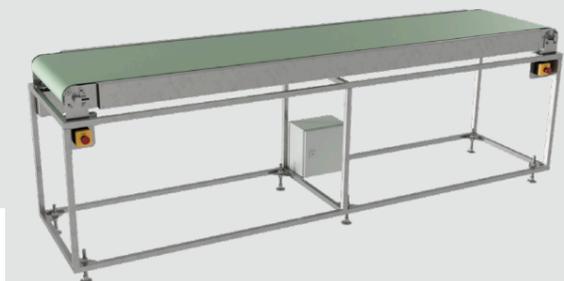
≤ DN 300 (12")



Electric conveyor belt

≤ DN 300 (12")

For liner impregnation





Consumables

Rehabilitation with resin-soaked felt liners is cost-efficient and offers several advantages. Thanks to their high flexibility, the liners adapt perfectly to the host pipe, even in bends or with slight dimensional deviations. We offer different types of liners for in-house, house connection, and main pipe applications.

We also supply specially formulated two-component epoxy resins that are perfectly matched to our liners. These differ in pot life, application method, and curing technology, and they offer outstanding structural performance. Once fully cured, they are environmentally neutral.

MULTiline
multi-curable feltliner



Felt liner for multiple uses

MULTiline

- Needle felt made from 100% polyester fibre
- Suitable for small and medium nominal diameters
- Bendable up to 90°

NOMINAL WIDTHS	CURVE PASSABILITY	FLEXIBILITY	INVERSION PRESSURE	TEXTILE	FELT WALL THICKNESS	LENGTH	COATING	CURING METHOD
DN 50 – DN 300 (2" - 12")	90° in DN 50 (2")	3 dimensional	0.2 - 0.8 bar (3 - 11 psi)	HighTex	3.5 mm or 5.5 mm (0.14" / 0.20")	Standard 100 m (328 ft)	PU	UV-LED, Cold, Warm (Water / Steam)

Why choose IMS consumables?

- Field-proven, compatible liner and resin components
- Most materials already have DIBt approval (German Institute for Building Technology)
- Broad portfolio of liners and short liner methods
- Consumables optimised for IMS equipment and systems
- Everything from a single source
- Large product range with high stock availability



Choose
your perfect liner
and resin combination

Official IMS Consumables

	PRODUCT NAMES	PRODUCT TYPE	PROPERTIES	ADVANTAGES
Short liner resins	PATCHcure SL slow	2K silicate resin	Long pot life	Best for summer and high temperatures
	PATCHcure SL medium	2K silicate resin	Average pot life	All round properties
	PATCHcure SL fast	2K silicate resin	Short pot life	Best for winter and low temperatures
	PATCHcure PL slow	2K silicate resin	Long pot life	Best for summer and high temperatures
	PATCHcure PL medium	2K silicate resin	Average pot life	All round properties
	PATCHcure PL flex	3K silicate resin	Flexible pot life	Flexible adaption to the ambient temperatures
Short liner mat	PATCHcure Glass	ECR - Glass fiber mat	Thickness 1.080 or 1.400 g/m²	Customizable material
	PATCHcure Glass Advantex	ECR - Glass fiber mat	Thickness 1.080 or 1.380 g/m²	Customizable material
Needle Felt liner	MULTiline 3.5	Invertible textile liner	Felt wall thickness dry 3.5 mm	Curable with water, steam, LED, cold curing
	MULTiline 4.5	Invertible textile liner	Felt wall thickness dry 4.5 mm	Curable with water, steam, LED, coldcuring
	MULTiline 5.5	Invertible textile liner	Felt wall thickness dry 5.5 mm	Curable with water, steam, LED, cold curing
UV LED resins	PROcure basic	1K UV LED resin (hybrid)	Economic LED resin	Average curing results
	PROcure advanced	1K UV LED resin (hybrid)	Standard LED resin	Good curing results
	PROcure ultimate	1K UV LED resin (epoxy)	Premium LED resin	High end curing results
Epoxy resin	THERMcure slow	2K epoxy resin	Long pot life	Good soaking properties
	THERMcure medium	2K epoxy resin	Average pot life	Good soaking properties
	THERMcure fast	2K epoxy resin	Short pot life	Good soaking properties

...even more consumables available

Culimeta vitriLiner (UV house connection liner)

- DN 80 - 400 (3" - 16")
- Styrene-free vinyl ether resin
- Excellent bendability (up to 90°)
- Customized liner lengths (up to 100 m / 328 ft)

BRAWO SYSTEMS (BRAWOLINER 3D)

- DN 50 - 400 (2" - 16")
- Seamless textile liners - innovative, flexible, and virtually fold-free
- Capable of multiple 90° bends and up to two dimensional transitions

Partial pipe repair

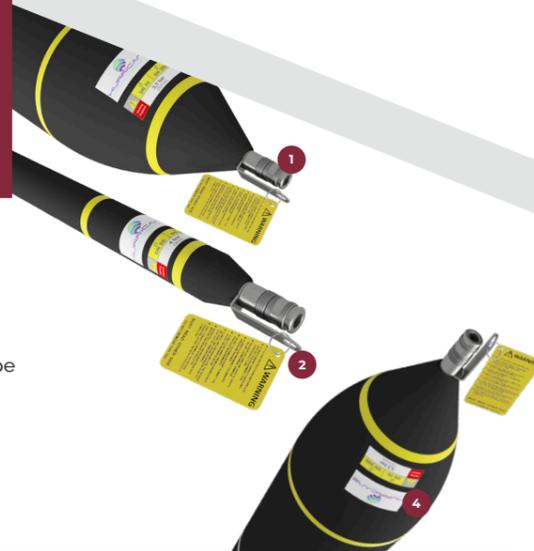
For partial pipe rehabilitation, we offer cost-effective yet high-quality products for a wide range of nominal diameters. Our equipment is manufactured from high-grade materials, developed in-house, and designed with precision. Everything comes from a single source.

Our PBX pressure boxes, in combination with push rods and rehabilitation packers, provide a complete package for modern short liner pipe rehabilitation. We also supply perfectly matched consumables such as glass mats and silicate resins — all with DIBt (German Institute for Building Technology) approval.



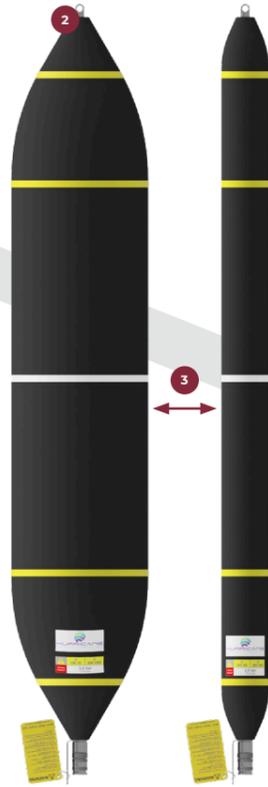
Multi black packer

≤ DN 500 (20")



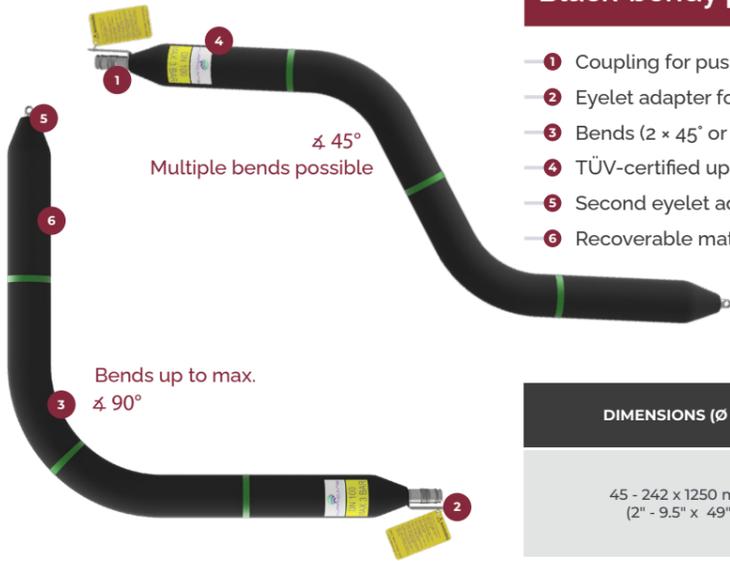
- 1 Coupling for push rods
- 2 Two eyelet adapters for holding rope
- 3 Multi dimensional
- 4 TÜV-certified up to 4 bar

DIMENSIONS (Ø x L)	MIN. Ø	MAX. Ø	MAX. PRESSURE	WEIGHT
38 - 160 x 1000 - 3000 mm (1.5" - 6" x 40" - 120")	40 - 200 mm (1.5" - 8")	100 - 500 mm (4" - 20")	3.0 - 3.5 bar (43 - 50 psi)	1.2 - 21.5 kg (2.6 - 47.5 lbs)



Black-bendy packer

≤ DN 300



- 1 Coupling for push rods
- 2 Eyelet adapter for holding rope
- 3 Bends (2 x 45° or 1 x 90°)
- 4 TÜV-certified up to 3 bar
- 5 Second eyelet adapter
- 6 Recoverable material

DIMENSIONS (Ø x L)	MIN. Ø	MAX. Ø	MAX. PRESSURE	WEIGHT
45 - 242 x 1250 mm (2" - 9.5" x 49")	50 - 280 mm (2" - 11")	70 - 300 mm (3" - 12")	3.0 bar (43 psi)	1.2 - 5 kg (2.6 - 11 lbs)

Premium push rods

Flexible and break-resistant plastic

COLOR	LENGTH	COUPLING
GREEN / BLUE / BLACK	1000 - 3000 mm (39" - 118")	HEXAGONAL / ROUND / SPECIAL

For rehabilitation packers

Various couplings available



PBX Pressure boxes

Vacuum and timer optional

For compressed air dosing on short liner packers

- 1 Two roll bars (left and right)
- 2 Three pressure regulators
- 3 Three pressure gauges (supply)
- 4 Regulator for compressed air output
- 5 Pressure gauge for compressed air output
- 6 Compressed air inlet
- 7 Compressed air outlet
- 8 Packer connection couplings
- 9 PBX boxes enable:
 - Dosing of pressure and vacuum
 - Holding of pressure and vacuum



VERSION	SIZE (W x L x H)	WORKING PRESSURE	WEIGHT
PBX 2	252 x 320 x 180 mm (10" x 12.5" x 7")	10 bar (145 psi)	6 kg (13 lbs)
PBX 3	360 x 320 x 180 mm (14" x 12.5" x 7")		8 kg (17.5 lbs)
PBX 4	470 x 320 x 180 mm (18.5" x 12.5" x 7")		10.5 kg (23 lbs)

Quick fix

All in one pipe repair kit

- 2 Components: A (summer or winter) and B.
- Complete kit for one installation

NOMINAL WIDTHS	LENGTH	RESIN SYSTEM
DN 100 - DN 200 (4" - 8")	60, 100 cm (24", 40")	2K (Summer, Winter)

- Kit contains:
- Glass fibre mat
 - Protective gloves
 - Rubber bands
 - Work surface plastic film
 - Resin and hardener
 - Spatula for spreading resin
 - Packer protection hose
 - Adhesive tape for fixing



More products available

Scan the QR code for additional equipment and materials





Turnkey solutions

The IMS Group is your partner for complete, job-site-ready custom solutions. We offer innovative, efficient turnkey systems for your construction site. Whether transporter, truck, or trailer – we support you with our expertise as a reliable partner for turnkey solutions.

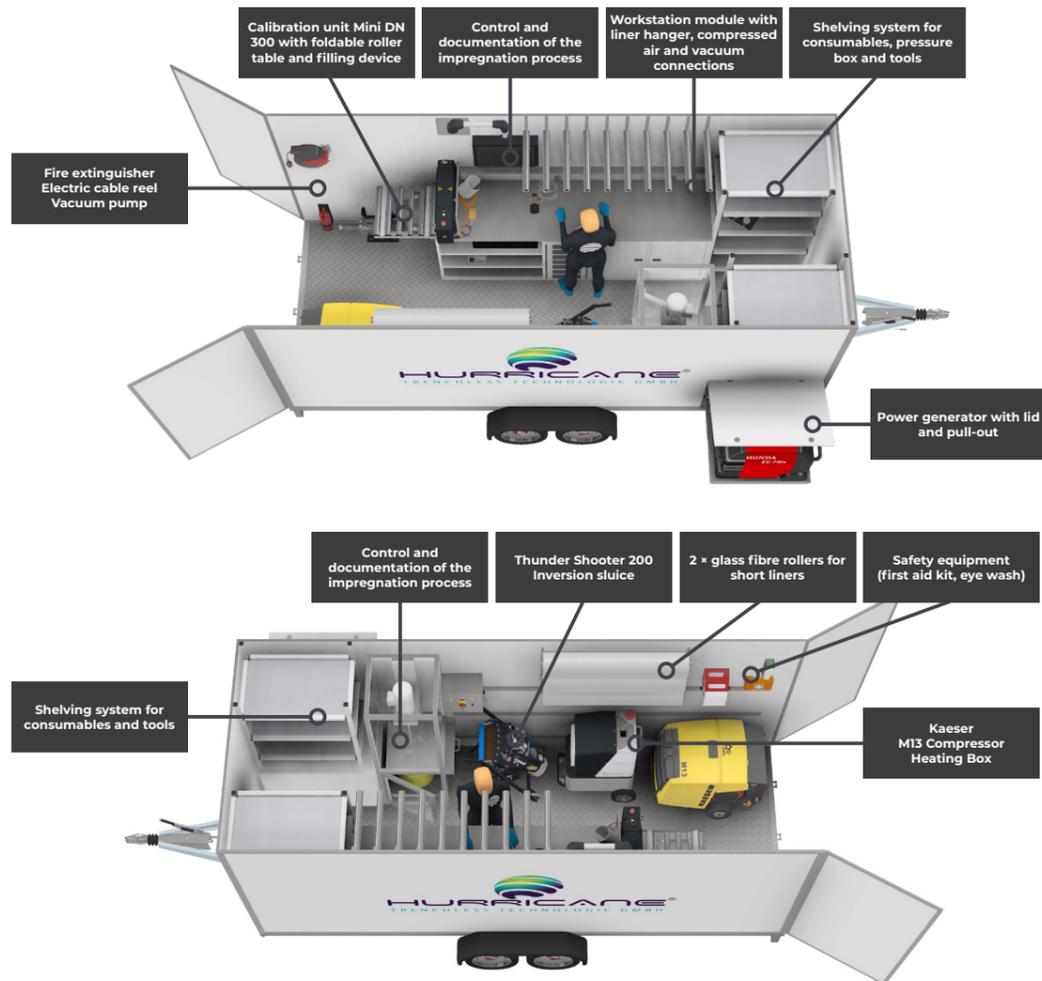
- TÜV-certified complete systems
- High-quality interior fittings
- Individually customisable to customer requirements

Box trailer for pipe rehabilitations

≤ DN 300 (12")



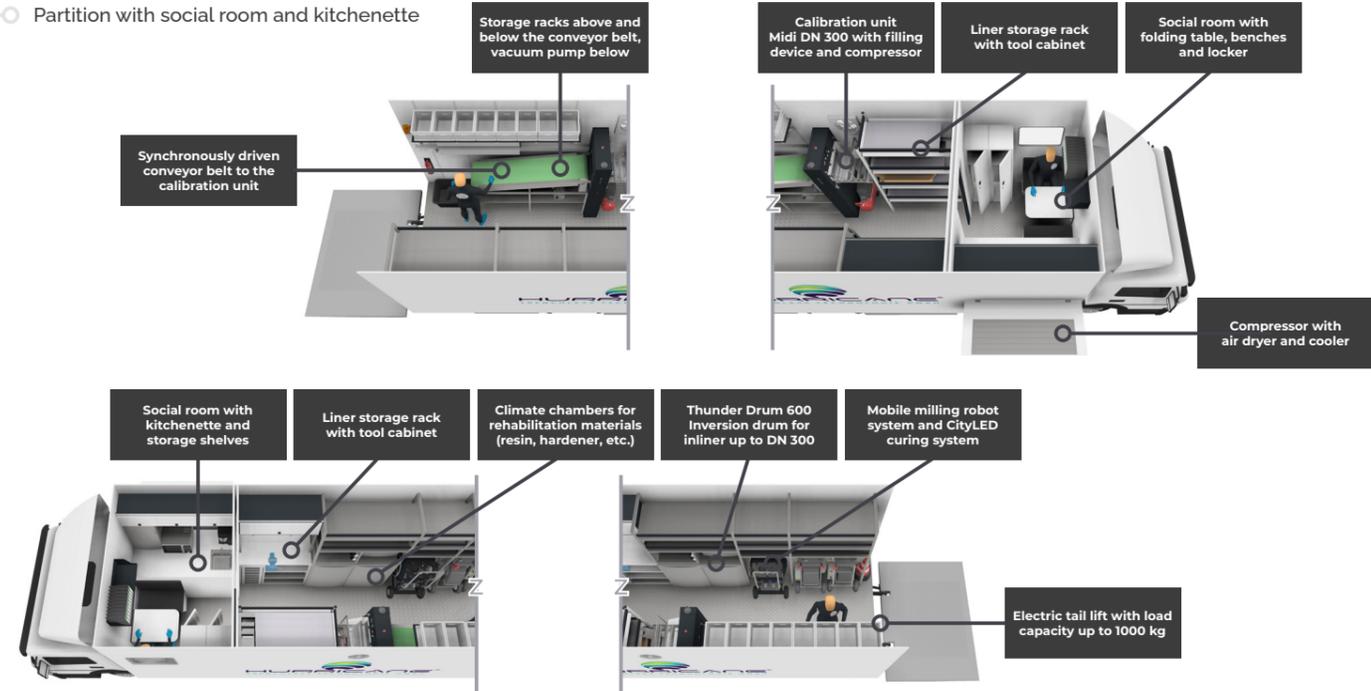
- Full liner preparation and calibration
- PLC mixing system with display
- Inversion and curing equipment



7.5 ton truck for LED and conventional epoxy lining

≤ DN 300 (12")

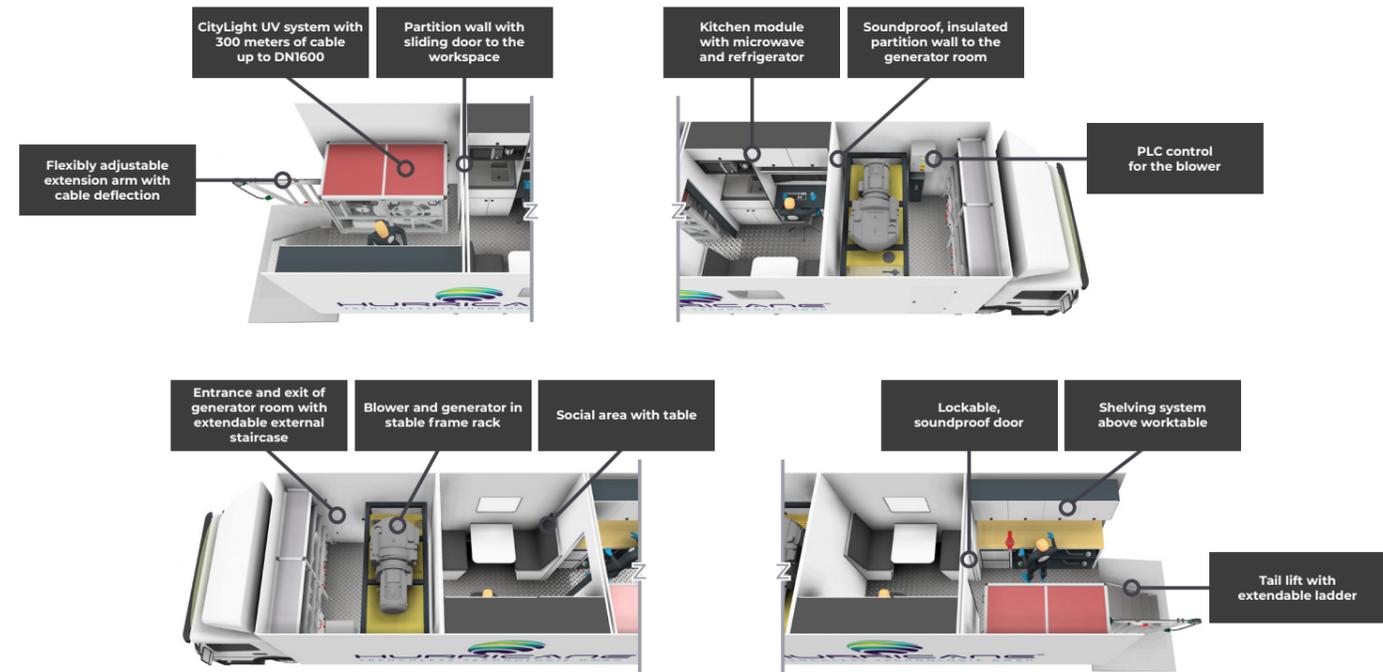
- LED liner preparation for PROcure system
- Thunder drum 600 and MICROautomatic E
- Partition with social room and kitchenette



15 ton truck for UV CIPP lining

≤ DN 1600 (64")

- Citylight UV System with Light Train and Dual Core
- Social room with operator desk and kitchenette
- Insulated generator room with blower and end can storage



Further turnkey solutions on request

up to DN 2000 (80")

Scan QR code for more solutions





Most used equipment and consumables by
External Pipe Renovators



External pipe rehabilitation specialists handle a wide range of applications. These pipes, which mainly connect to houses and buildings, may be either short or long runs. A key requirement on such construction sites is that work must be completed within a single day, ensuring the pipe system is fully functional again by the evening.



Most used equipment and consumables by
In-House Pipe Renovators



In-house pipe rehabilitation specialists focus exclusively on pipes located inside buildings. Their work often takes place in confined spaces, and transporting equipment via stairs is frequently necessary. For this reason, the equipment must be compact and mobile. The consumables used must deliver a precise, form-fitting result to ensure the renovated pipes remain leak-free at all times.

Our customised IMS Group Package

DN 100 - 300



Thunder Drum 600



Super Midi Miller



PROcure



Calibration Unit MINI



MULTiline 4.5
PROCURE ULTIMATE



vitriLiner

Our customised IMS Group Package

DN 50 - 200



Thunder Drum 400



Akku Super Mini Miller



Calibration Unit MICRO



MULTiline 4.5
PROCURE ULTIMATE



T Liner



Brawo Liner
Pre-impregnated



Most used equipment and consumables by

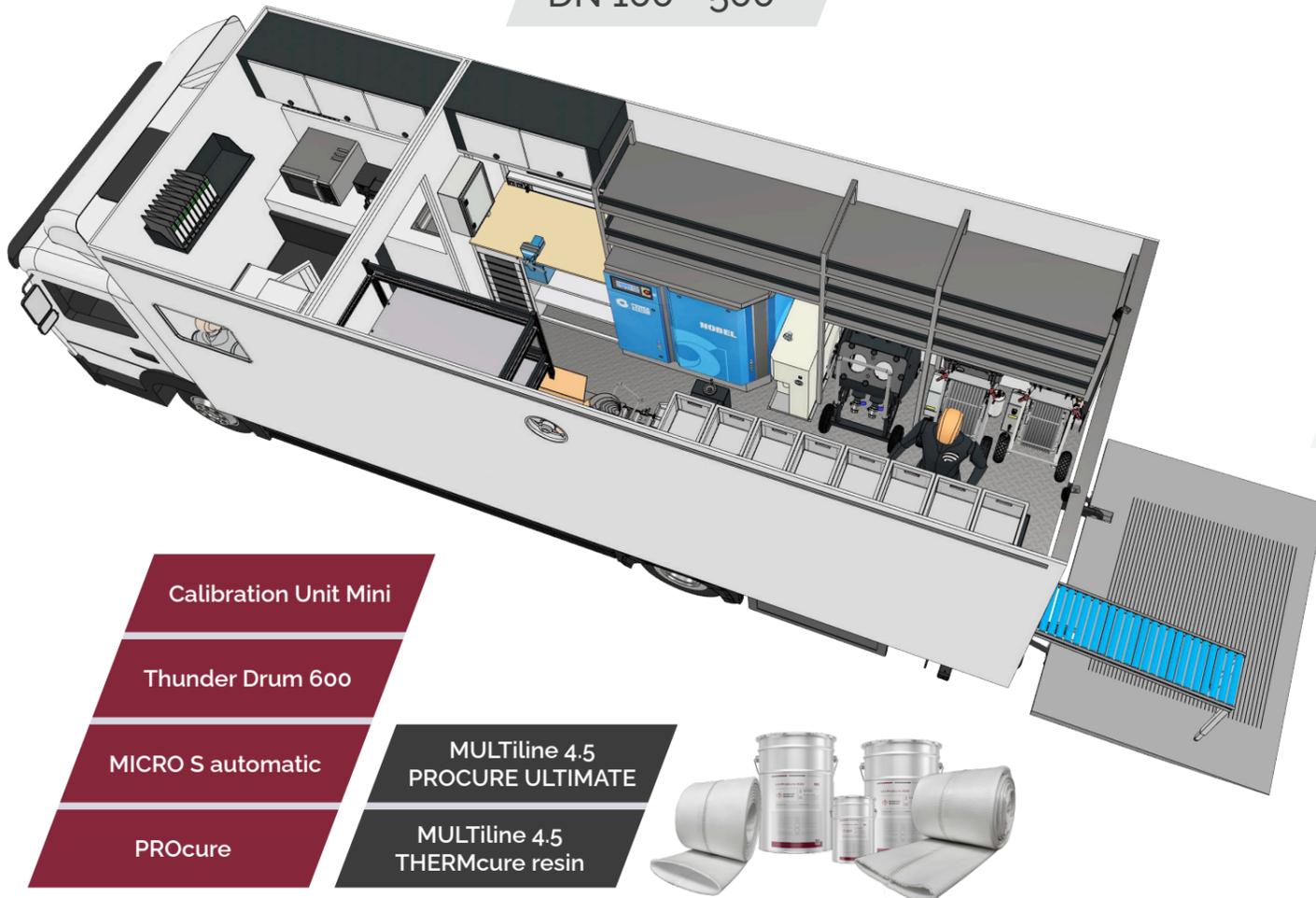
Renovators with custom built vehicle



This pipe rehabilitation specialist always has everything on board in his vehicle. He carries the right equipment not only for unscheduled jobs but also for pre-planned construction sites, allowing him to adapt flexibly to local requirements. The vehicle is customised to his needs, equipped with the essential main components and the necessary interior fittings. He works with both pre-impregnated liners and his own impregnation line, which is integrated directly into the vehicle.

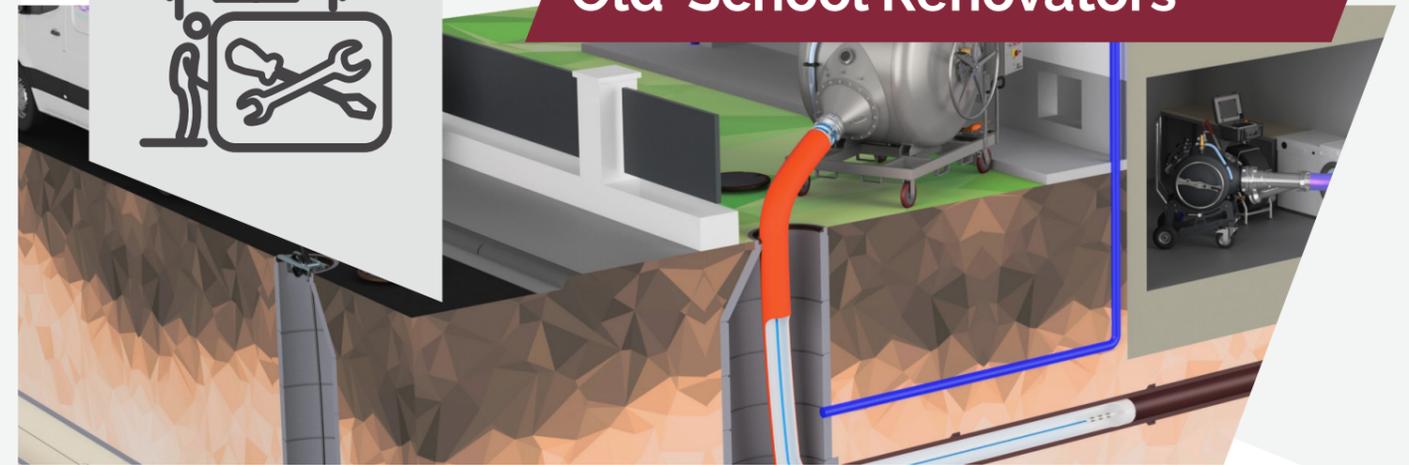
Our customised IMS Group Package

DN 100 - 500



Most used equipment and consumables by

Old-School Renovators



The old-school renovator primarily repairs the external pipework of houses. He avoids the high investment costs of innovative technology and does not depend on state-of-the-art equipment. Instead, he relies on proven pipe rehabilitation methods and prefers functionally designed systems without unnecessary extras.

Our customised IMS Group Package

DN 100 - 300



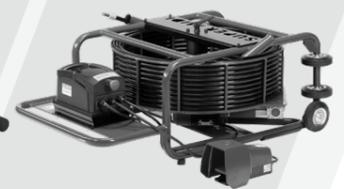
Heating Box 750 mobil



Thunder Drum 600



Calibration Unit MICRO



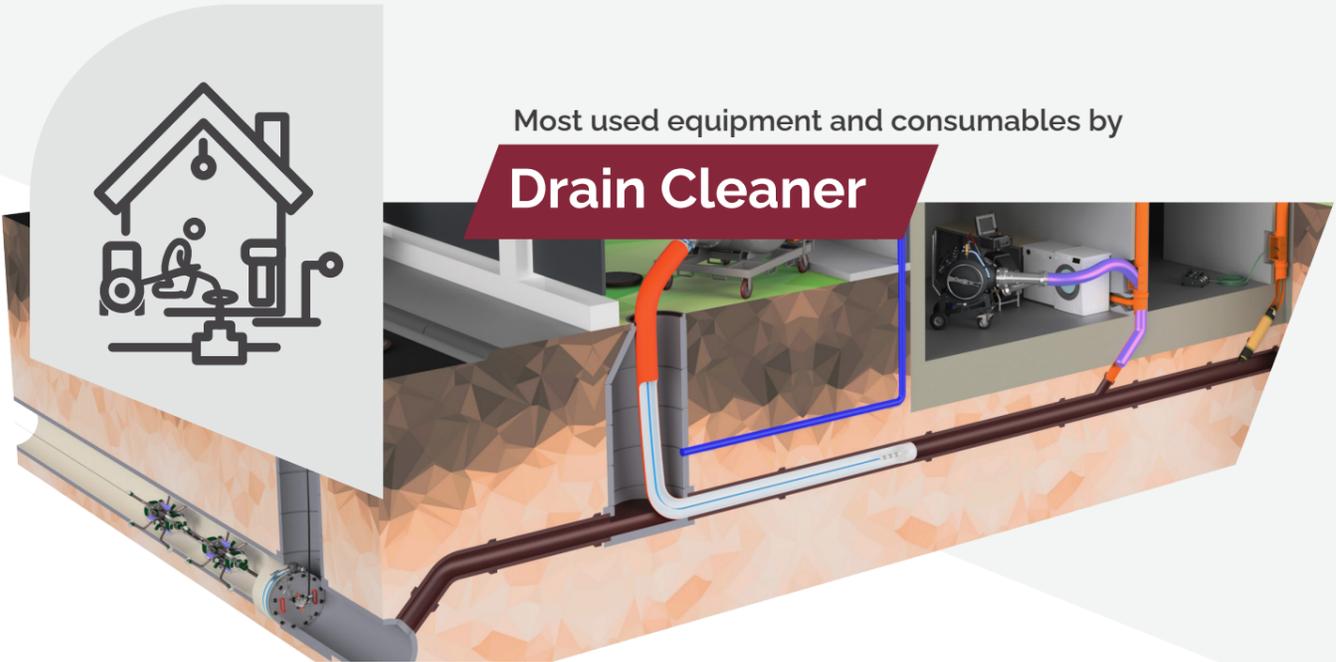
Super Midi Miller



Brawo Liner 3D



MULTiline 4.5 THERMcure resin



Most used equipment and consumables by

Drain Cleaner

The drain cleaner is the "fire fighter" of the pipework world. Called in spontaneously and flexibly, he usually deals with blockages in internal pipe systems. He can often repair minor damage on the spot and always carries his mobile equipment with him. In such cases, short liner rehabilitation is commonly used - an economical yet effective method.



Most used equipment and consumables by

Property Renovator

The property renovator combines the roles of both internal and external pipe specialists. He not only repairs small vertical and horizontal pipes but also rehabilitates long main sewer lines up to DN 500. His work includes conventional rehabilitation with an inversion drum and epoxy resin-impregnated felt liners, as well as the use of pre-impregnated LED liners. A powerful milling robot system also forms part of his equipment portfolio.

Our customised IMS Group Package

DN 50 - 150



Micro Miller with Plumber kit



Push rods

Black-bendy & Multi black packers



PATCHcure Silicate resin



PATCHcure Glass 1.080/1.400

Our customised IMS Group Package

DN 75 - 500



MICRO S light plus



Thunder Drum 1000



Calibration Unit MIDI



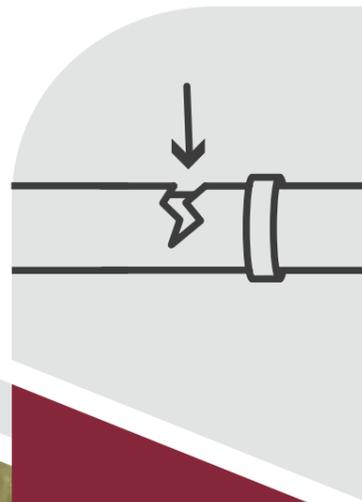
PROcure



MULTiline 4.5 PROcure advanced



BRAWOLINER 3D THERMcure resin

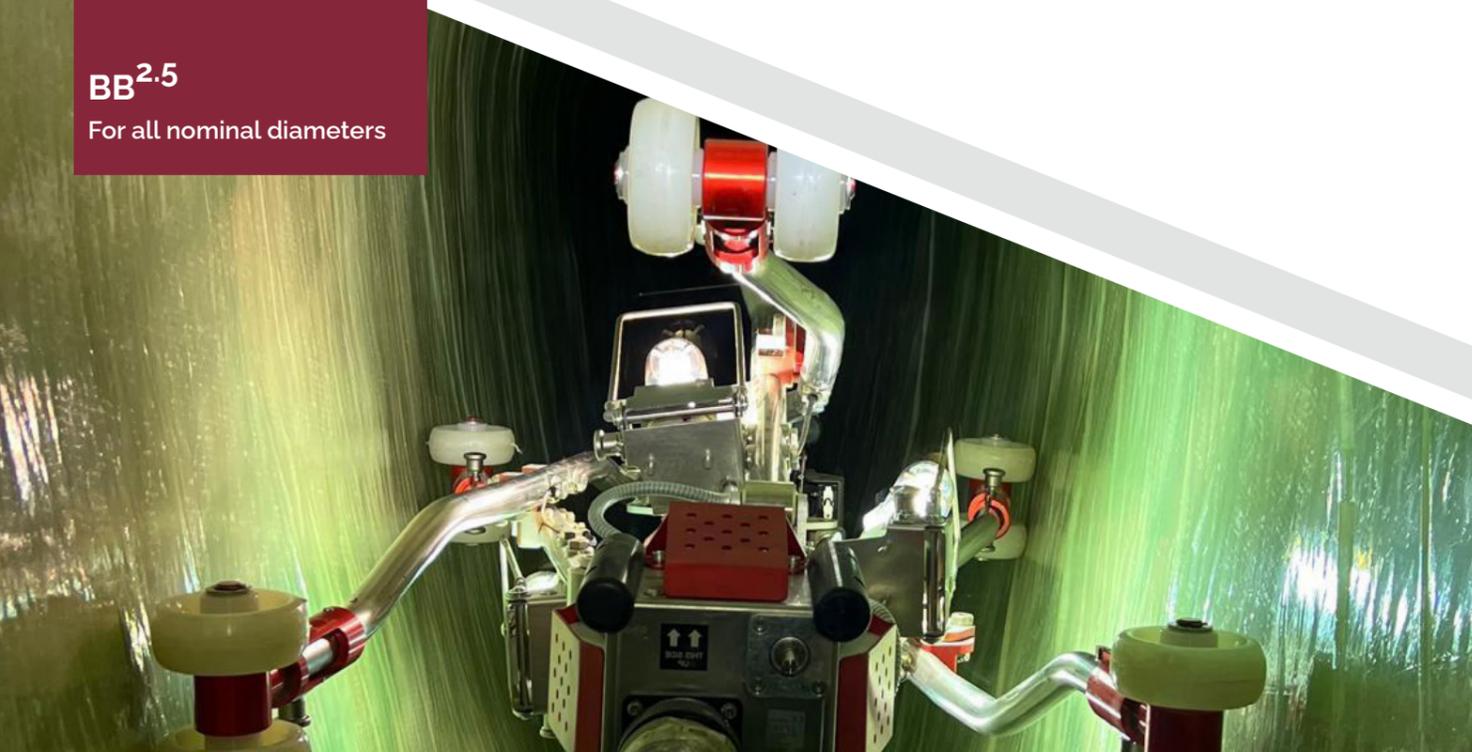


Brandenburger Liner

Brandenburger is a leading manufacturer of high-quality UV light-curing GFRP pipe liners for trenchless sewer rehabilitation. With more than 30 years of expertise and patented wrapping technology, the company sets standards for efficiency, economy and sustainability. Their innovative solutions ensure cost-effective and environmentally friendly rehabilitation of sewer systems - the reliable choice for contractors, planners and installers alike.

BB^{2.5}

For all nominal diameters



BB^{2.5} FLEX

The versatile liner for special geometries and changing profiles

The Brandenburger BB 2.5 FLEX is specifically designed for challenging rehabilitation projects, including bends, varying pipe diameters and special profiles. Thanks to its innovative folded inner foil, installation is safe and reliable. One liner can cover multiple dimensions, saving storage space, logistics costs and planning time - all while maintaining DIBt approval within the BB 2.5 system.

Key Values

- Safe installation with folded inner foil
- Covers DN 250 to DN 1600
- Expansion of up to 35% during installation
- DIBt-approved as part of the BB 2.5 system
- One liner covers multiple dimensions, reducing costs and saving time
- Ideal for bends, dimensional changes and special profiles

BB^{2.5}

CIPP for all diameters

The Brandenburger Liner BB 2.5 is a high-performance GRP hose liner available for all nominal diameters. Thanks to its uniquely engineered glass mat design, it combines exceptional static strength with minimal wall thickness, ensuring reliable performance under the highest loads while remaining lightweight and cost-efficient. A two-layer, fibre-reinforced outer protection safeguards the liner before, during, and after installation, while its smooth inner surface guarantees excellent flow characteristics. Certified to DIBt standards, the BB 2.5 represents state-of-the-art trenchless rehabilitation technology.

- Exceptional mechanical strength with thinner wall thicknesses
□ lighter and more efficient than conventional liners
- Available for circular profiles DN 150–1600 and egg-shaped profiles DN 200/300–1200/1800
- Two-layer, fibre-reinforced outer protection for maximum durability during installation and operation
- Smooth inner surface for optimised wastewater flow
- DIBt-certified with proven static performance
- High resistance to high-pressure flushing
- Up to 10% elongation in circular profiles, 5% in egg-shaped profiles
- Homogeneous, glass-fleece-bound pure resin wear layer for long-term durability.

MATERIAL PROPERTIES	STANDARD	DN 150 – DN 875	DN 875 – DN 1600
Circumferential short-term E-modulus	EN 1228	14,200 N/mm ²	16.875 N/mm ²
Circumferential long-term E-modulus	EN 1228	11,180 N/mm ²	13.288 N/mm ²
Flexural short-term E-modulus	ISO 178	11,180 N/mm ²	13.600 N/mm ²
Flexural long-term E-modulus	ISO 178	9,290 N/mm ²	10,708 N/mm ²
Material classification group	DWA-M 144-3	22	26
Density	ISO 1183	1.54 g/cm ³	1.54 g/cm ³
Short-term flexural stress	ISO 178 / ISO 11296-4	200 N/mm ²	200 N/mm ²
Long-term flexural stress	ISO 178 / ISO 11296-4	157 N/mm ²	157 N/mm ²
Long-term reduction factor (50 years)	EN 761	1,27	1.27



Notes

BB^{2.5} VERTICAL

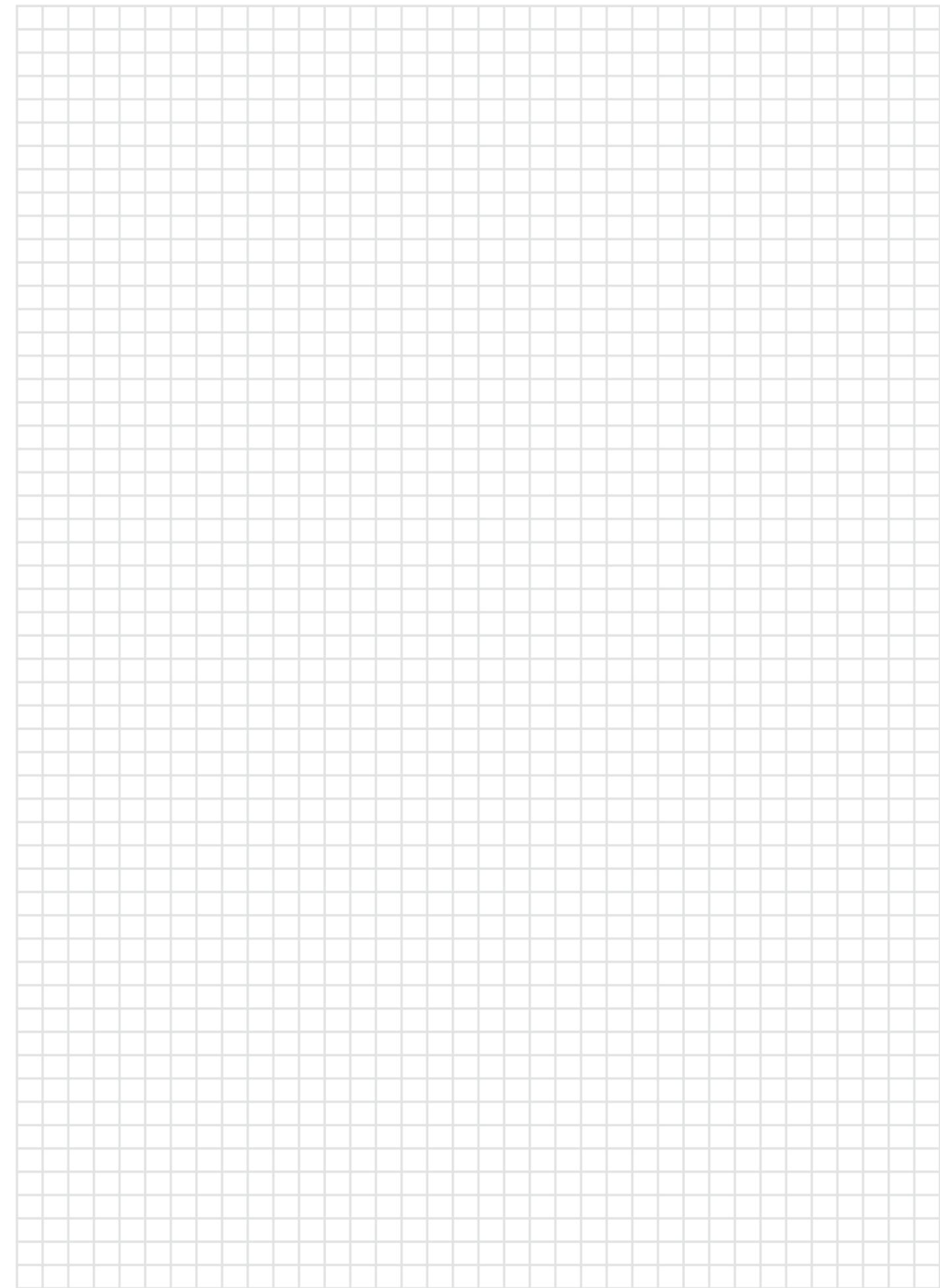
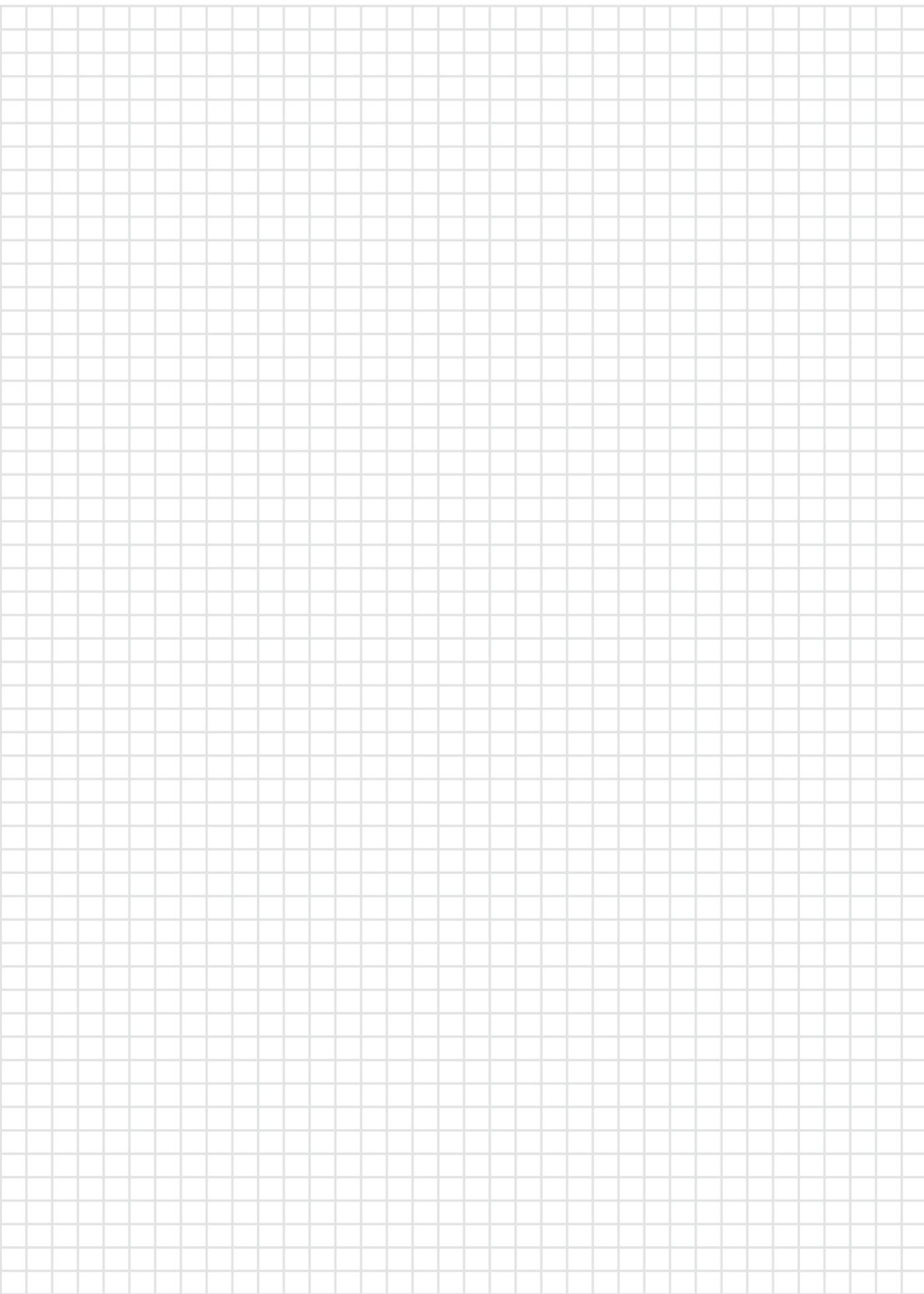
Innovative manhole rehabilitation /

The Brandenburger BB 2.5 VERTICAL is the first manhole liner that can be reliably cured using both UV and LED technology. Its flexible geometry adapts seamlessly to existing manhole shapes, eliminating the need for complex measurements and saving time on site. Designed for durability and user-friendliness, the system minimises logistical effort while ensuring safe, efficient, and complete rehabilitation of manholes and connected pipelines - all from a single source.

Key Values

- Reliable curing with UV and LED technology
- Flexible geometry adapts to all common manhole shapes
- DIBt-approved as part of the BB 2.5 system
- Excellent static load capacity and high technical performance
- Produced as endlessly wound, metre-long goods for flexible length configuration and efficient logistics
- Enables rehabilitation down to the invert for complete renewal of manhole structures
- Long-term investment with depreciation potential

OVERVIEW	
Nominal width manhole	DN 800 & DN 1000
Wall thickness	7 mm after installation
Circumferential E-Modulus Short-term EN 1228	14,200 N/mm ²
Circumferential E-Modulus Long-term EN 1228	11,800 N/mm ²
Manhole geometry	Round
Ordering length	max. 50 m
Mounting depth	max. 15 m





PLS

PRO LINING SOLUTIONS

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