

VORTEX UV CURING SYSTEM

POWERFUL TECHNOLOGY FOR UV CURING OF GRP LINERS

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The Vortex UV CIPP Curing System

FOR UV CIPP LINING, UV TECHNOLOGY IS UNSURPASSED IN ITS WORKING RANGE OF DN 150 - DN 1800 | 6"-72" DIAMETER PIPE.



It's Compact

Job site access is often limited, creating challenges when attempting to reach the sewer or pipe requiring rehabilitation. The compact and streamlined design of the Vortex 12kW UV CIPP Curing System allows it to fit comfortably into even the narrowest spaces, making installations easier on job sites with limited access.

It's Powerful

Vortex offers one of the most powerful UV curing systems in the field of sewer and pipe rehabilitation. The system's technology offers maximum UV light output of 12 x 1500W and is equipped with the industry's most innovative digital control features.

It's Ergonomic

The Vortex UV Curing System is as easy as using a smartphone. Everything can be controlled from a touchscreen on the cable drum or the vehicle's computer workstation.

It's Safe

Jobsite safety is important. In dangerous traffic situations, high aerosol loads or bad weather, you can simply work from inside the vehicle.

It's Efficient

Our Vortex UV CIPP technology is also efficient, with easy handling and powerful performance – along with less stress for the operator.



State-of-the-Art Equipment

HIGH PERFORMANCE





State-of-the-Art Equipment

PLC CONTROL AND SUFFICIENT POWER FOR UV CURING UP TO DN 1800 | 72"

The Vortex UV curing system cable drum with PLC control features a high strength aluminum frame, weighing only 920 kg | 2,028 lbs. All equipment can be operated via the PLC with a brightly illuminated Siemens SIMATIC touch screen located at the front of the unit.

The cable drum is electrically driven, has a cross guide spindle and can be built with either 1000 ft. | 305 m of heat-resistant UV curing cable. The curing cable has been designed for durability and has a self cross-linking PUR outer coating. The cable drum also has an automatic freewheeling system and features interior lighting.

TECHNICAL DETAILS

- 12 kW UV Curing System
- Dimensions (LxWxH): 2000 x 1065 x 1455 mm | 6.5 x 3.5 x 4.75 ft.
- Weight: 920 kg | 2,028 lbs.
- Control: Siemens Simatic PLC
- Chassis: Aluminum Lightweight
- Special Feature: Integrated Blower Control
- Flexible: Vehicle Integratable



- 1. Stainless Steel Cable Drum (max. 305 m | 1000 ft.)
- 2. Siemens Simatic PLC Control
- 3. Drive Unit
- 4. UV Heat Resistant Curing Cable
- 5. Integrated Distance Counter
- 6. Special Profile Frame (Aluminum)
- 7. Heavy Duty Pull-Out System
- 8. Electric Slip Ring
- 9. Integrated Cable Swivel Guide



Vortex UV Light Chain

FAST & SAFE SMARTLY ADAPTED



Vortex Light Chain

LIGHT CHAIN DN 150 - DN 600 | 6"-24"

The Vortex Light Chain has eight centrally arranged and power-controlled UV lamps from 400-650W, depending on the pipe diameter. By exchanging the spring-mounted wheel sets, the Light Chain can be optimally and intelligently adapted to various pipe diameters, simultaneously enabling smoother movement and improved maneuverability through pipes, even when encountering deflections or minor offsets, due to its flexible, spring-loaded design.

With the help of a front and back cameras, the quality of the UV liner can be monitored while the chain is being pulled through the liner. Defects such as wrinkling, air pockets or damaged inner foil caused by improper installation are detected. The sensors installed in the chains provide important information relating to temperature changes in the liner.

TECHNICAL DETAILS

- Pipe Dimensions: *Circular Profiles* DN 150 - DN 600 | 6"-24" *Egg Profiles* DN 200 - DN 300 | 8"-12" DN 500 - DN 750 | 20"-30"
- Number of Lamps: 8 Pcs. 400-650W with Pluggable Ceramic Sockets
- Total Power: 3200W - Use of 1 Light Chain 6400W - Use of 2 Light Chains
- IR Sensors: 3 Pcs.
 Latent Temperature Detection
- Ambient Air Sensor: 1 Pc. Ambient Temperature Detection



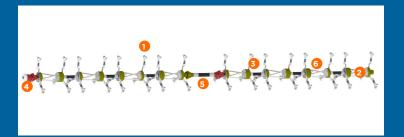


Quick-release light chain connector

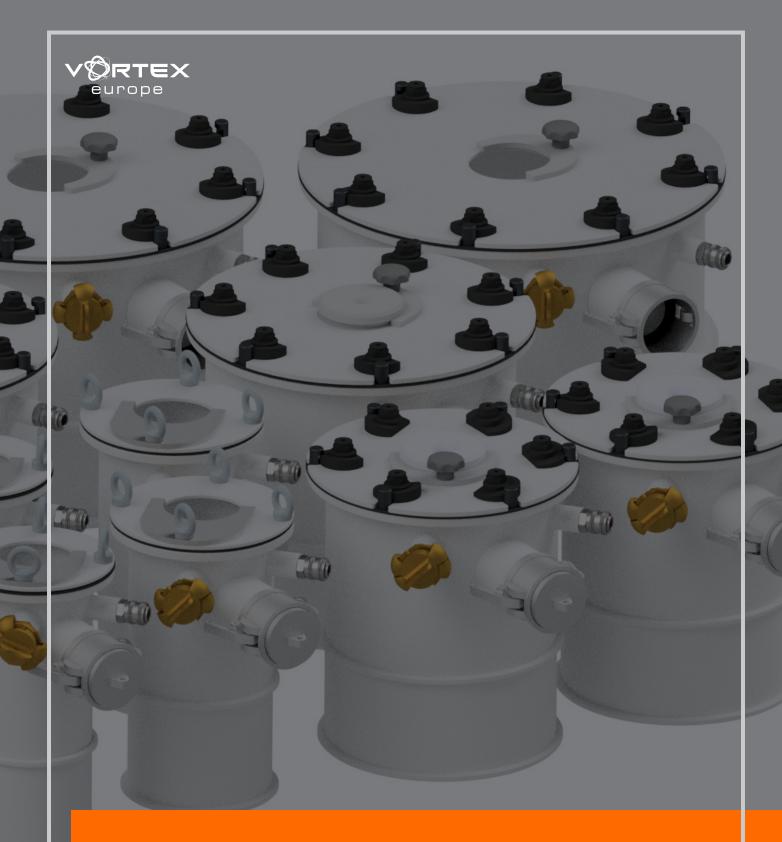
Flexible, spring-loaded wheel sets



CCD camera with LED illumination



- 1. Plug & Play Wheels
- 2. Infrared Sensors
- 3. Flexible Setup
- 4. Plug & Play Front Camera
- 5. Connector
- 6. Reflective UV Lamp Housing



Accessories

BEST CHOICE





Accessories

UV PACKER SET DN 150 - DN 600 | 6"-24"

With the help of UV packers, the GRP liners are secured to and set up in a user-friendly manner. Set consists of 5 pairs for nominal sizes DN 150 - DN 600 | 6"-24". The stainless steel packers are equipped with matching air couplings for a compressor connection. The cover of the packers can also be removed without tools.

Larger sizes available upon request.





Detailed Connections



VORTEX EUROPE GmbH UNTERWANGERSTRAßE 3 87439 KEMPTEN (ALLGÄU) DEUTSCHLAND

+49 (0)89 23708298 EUROPE@VORTEXCOMPANIES.COM WWW.VORTEXEUROPE.DE