

LED curing solutions for trenchless pipe renovation.

LED Curing product range

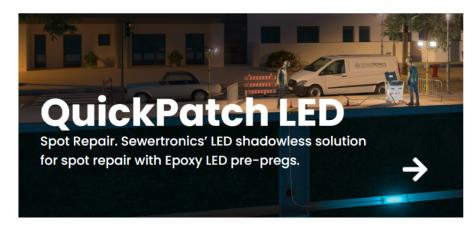
A wide portfolio of LED curing solutions for trenchless pipe renovation. Systems to renovate mainlines, laterals, inhouse drains and sectional repairs in sewer pipes.

LED curing solutions for trenchless pipe renovation.

















SpeedyLight+

UV LED CURING TECHNOLOGY

Laterals & Mainlines From DN70 to DN600 For inversion liners and pull-in fiber-glass liners Up to 100 m



SpeedyLight+ LED

Fast light curing technology for laterals & mainlines

The SpeedyLight+ LED curing system is a game changer in the sewer renovation market. Its revolutionary LED technology allows contractors to optimize their operations by increasing working efficiency at the job site up to six times. It is designed to cure felt liners, invertible glass-fiber liners and fibre-glass pull-in liners.

Working diameters start at DN70 and the system is capable of effectively curing liners up to DN600. SpeedyLight+ LED features interchangeable curing heads for better maintenance and system cost optimization. Due to the low power consumption of the of LED technology, a SpeedyLight+ LED system can be powered from standard 220V mains or from any standard electrical source.

Fast laterals curing

A 7 m long DN150 lateral can be cured in 7 minutes.
SEWERTRONIC's SpeedyLight+
LED curing system enhances renovation productivity.

Mobile, portable

All-in-one design allows the curing system to deploy virtually anywhere. Control unit, power supply and cable reel are integrated in a single, portable package.

90° soft bend or 2x45°

SpeedyLight+ LED successfully negotiates 90° soft bend or 2x45°. Its semi-rigid hose ensures a convenient push of the head along the pipe.



In Horizontal. In Vertical

SpeedyLight+ LED system is designed to be used in both horizontal and vertical pipes. Most laterals are horizontal, although building rehabilitation frequently involve vertical piping.

Green Technology

SpeedyLight+ LED protects our Environment by using less power and less energy to cure.

Integrated CCTV camera

Curing head with embedded camera delivering 150° field of view for a crisp image of the pipe.



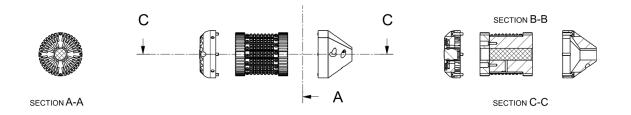
SpectraLight

A curing head for each application.

Sewertronics' is based on a static monolithic design (patent granted) that overcomes the need to force air along the interior of the curing head to stabilize LED working temperature. SpectraLight family of curing heads follow this patented design where its housing, with optimized thermal conductive properties and cooling fins, exchanges heat with the air traveling outside the core. This air is also used to pressurize the liner during inversion and curing process.

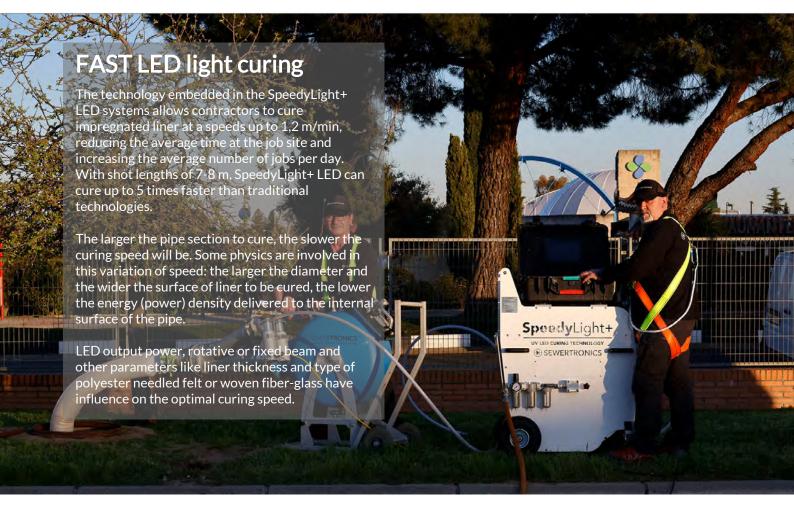
The family comprises 4 different heads, from an extra-small one up to a triple head, extending the range of application of the SpeedyLight+ curing systems up to DN600 in UV fibre-glass liners.

SpectraLight design and cooling concept patented.



4 different heads for a wide range of diameters and type of liner.





Laterals range

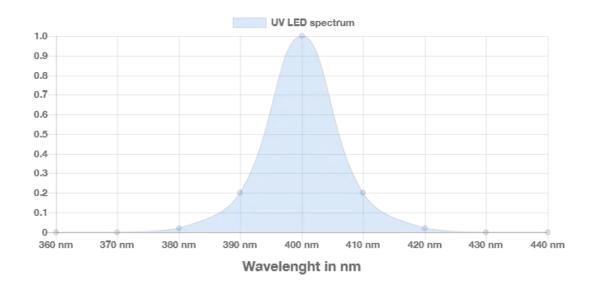
In the lateral rehabilitation market, the most common diameter is DN150 (50%), followed by DN100 (20%) and DN200 (15%). The fewest number of renovations are performed in laterals with diameters of DN125 (10%) and DN250 (5%).

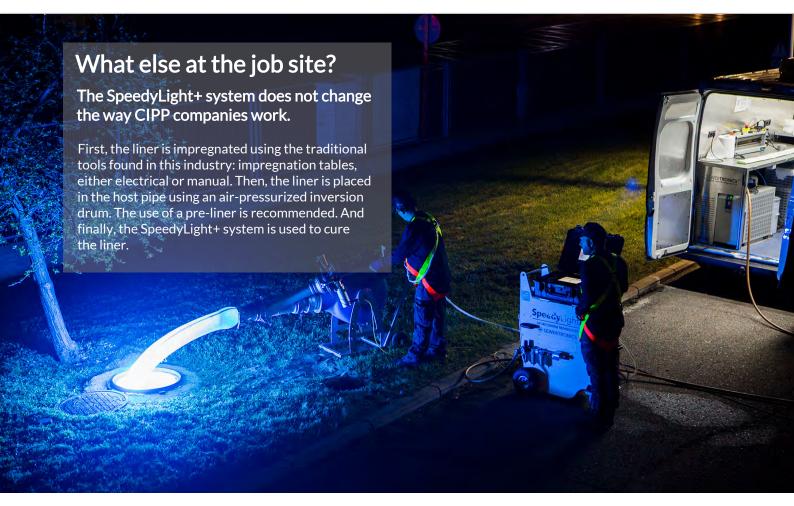




LED Curing

A high-powered LED array irradiates the impregnated liner, initiating an exothermic reaction that cures the entire thickness of the carrier resin. The wavelength (400nm) of the LEDs ensures energy is efficiently used to cure the liner. The LED components integrated in the SpeedyLight+ LED system are lead-free and comply with RoHS legislation.





90 - degree bends

SpeedyLight offers a family of three different LED curing heads: XS head suitable for diameters $70 \, \text{mm} - 150 \, \text{mm}$ and capable of managing 90° bends starting at $100 \, \text{mm}$, S head suitable for diameters $100 \, \text{mm} - 200 \, \text{mm}$ and capable of managing 90° bends starting at $160 \, \text{mm}$ and L head suitable for diameters $100 \, \text{mm} - 400 \, \text{mm}$ and capable of managing 90° bends starting at $200 \, \text{mm}$. Different curing heads for all different needs.

Green Technology

SpeedyLight+ LED technology contribute to saving our environment. It uses less energy to cure every metre of liner, as well as it uses resin that is styrene and amine free. Light technology helps the industry to protect our Environment in various ways.



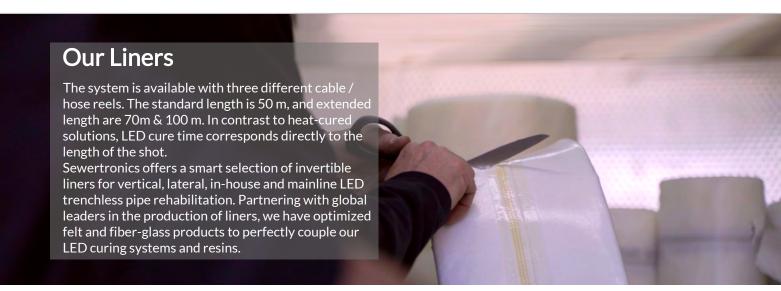
Integrated CCTV camera.

CCD camera combines a large aperture lens.

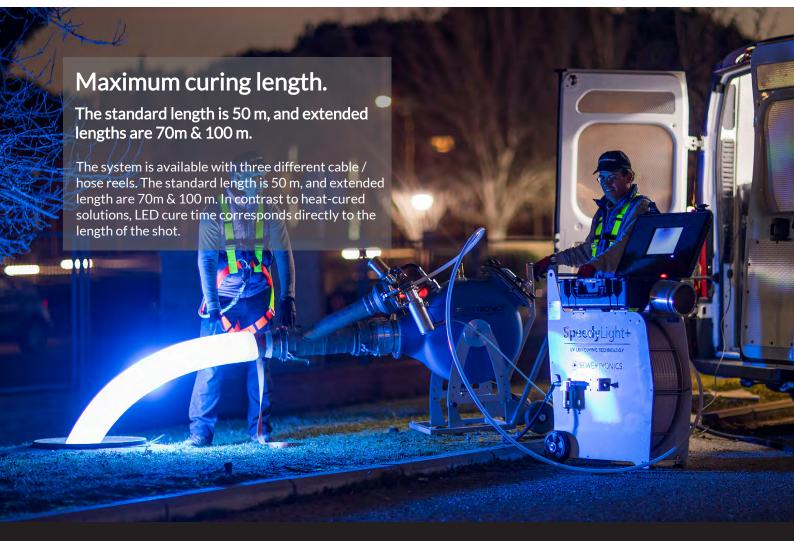
The curing head's CCD camera combines a large aperture lens, 150-degree field of view and a 3000 mW LED ring to deliver a bright, sharp image. The main purposes of the camera is to support the curing process and is not designed to replace the CCTV inspection system.

Sewertronics' epoxy LED resin

Sewertronics' epoxy LED family of resins have been specifically designed to work in combination with SpeedyLight+, SpeedyLight VX and QuickPatch LED curing devices. Those hybrid epoxy based binder, free from volatile solvents, ensures a proper polymerization yet delivering a high degree of bonding and adhesiveness. From a mechanical perspective, Young modulus and first breaking strength exceeds the industry standards allowing to cure liners of 3.0 to 4.5 mm under any load hypothesis and hose pipe stage. Guidelines and recommendation from EN ISO 11296-4 and DWA 144-3 have been followe.



From felt liners -needled and seamless knitted- to Fiber-glass seamless liners. Our quality felt liners curve, stretch and accommodate up to 90° bends, and are specifically developed for optimal results in a wide range of applications and pipe configurations. Extremely flexible tubes, ideal for use on multiple bends up to 90° with minimal wrinkling. Liners available in diameters from DN70 to DN400 and different thicknesses.



SpeedyLight VX

LED CURING TECHNOLOGY

Verticals & House-Connections From DN70 to DN150 For inversion liners Up to 25 m



SpeedyLight VX LED

A curing system for verticals & in-house with LED epoxy resin.

The SpeedyLight VX LED curing system is designed for in-house and vertical no-dig rehabilitation applications. Its revolutionary LED technology, bundled with Sewertronics LED epoxy resin, allows CIPP contractors to optimize their curing times by avoiding downtimes associated to ambient curing resins. Working diameters start at DN70 and the system is capable of curing liners up to DN150.

SpeedyLight VX LED features a 25 m hose on a very compact and portable frame. In combination with Sewertronics epoxy resin, SpeedyLight VX delivers quality repairs, including a hi-degree of host pipe bonding and adhesiveness.

SpeedyLight VX LED

A curing system for verticals & in-house with LED epoxy resin.

Fast light curing

The SEWERTRONIC's SpeedyLight VX LED system drastically reduces curing times in vertical and house connections rehabilitation.

Designed for buildings

All-in-one design allows the curing system to deploy virtually anywhere. Control unit, power supply and cable reel are integrated in a single, portable package.

90° bends

SpeedyLight VX LED successfully negotiates 90° bends in DN100. It's semi-rigid hose ensures a convenient push of the head along the pipe.



Verticals & house connections

SpeedyLight VX LED system is designed to be used in both horizontal and vertical pipes. Most laterals are horizontal, although building rehabilitation frequently involve vertical piping.

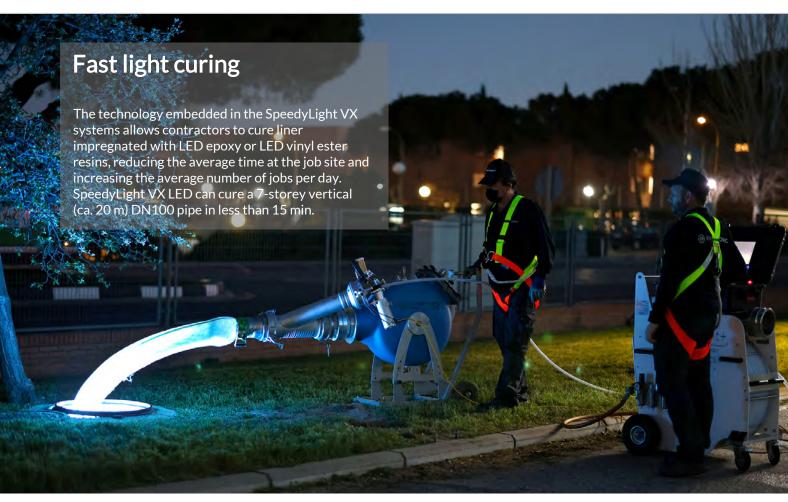
Green Technology

SpeedyLight VX LED protects our Environment by using less power and less energy to cure.

Integrated CCTV camera

The curing head has a camera whose large aperture and 150° field of view deliver a crisp image of the pipe.



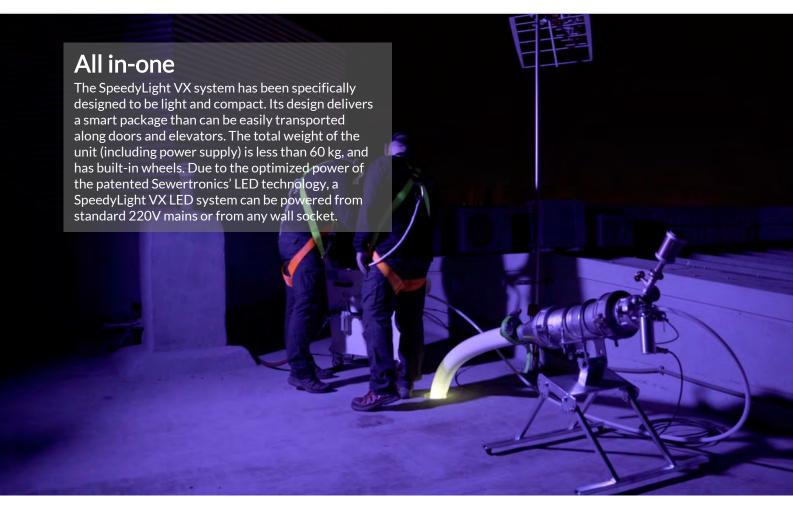


Integrated CCTV camera

CCD camera combines a large aperture lens

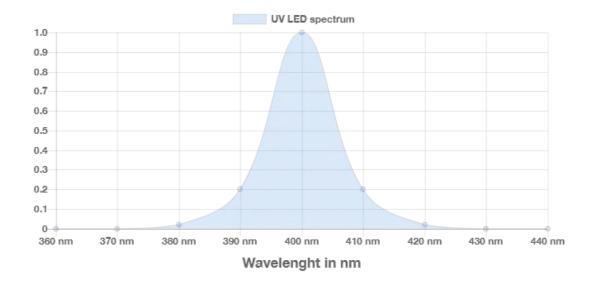
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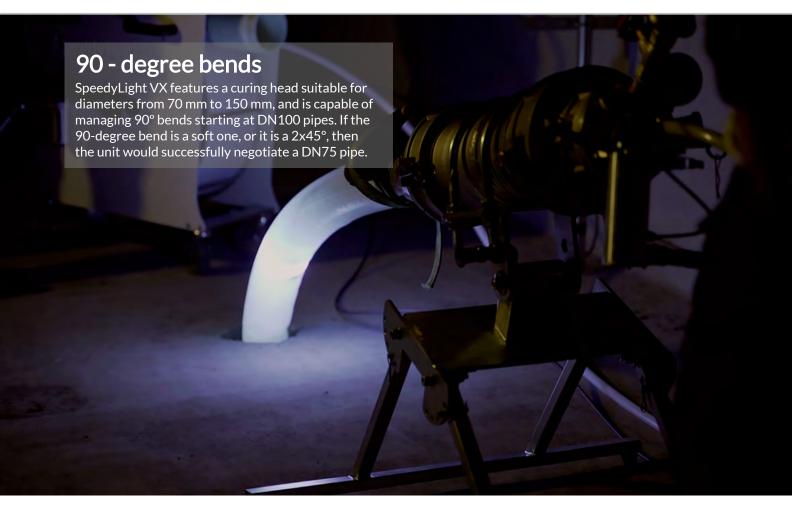




LED Curing

A high-powered LED array irradiates the impregnated liner, initiating an exothermic reaction that cures the entire thickness of the carrier resin. The wavelength (400nm) of the LEDs ensures energy is efficiently used to cure the liner. The LED components integrated in the SpeedyLight VX LED system are lead-free and comply with RoHS legislation.





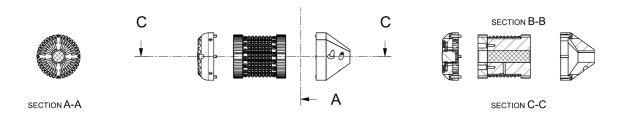
SpectraLight curing head

Sewertronics' SpectraLight curing head is based on a static monolithic design (patent granted) that overcomes the need to force air along the interior of the curing head to stabilize LED working temperature.

SpectraLight family of curing heads follow this patented design where its housing, with optimized thermal conductive properties and cooling fins, exchanges heat with the air traveling outside the core. This air is also used to pressurize the liner during inversion and curing process.

This head is 40 mm in diameter and allow to negotiate DN100 bends.

SpectraLight patented design and cooling concept









LEDRig

UV LED CURING TECHNOLOGY

Mainlines & Laterals From DN150 to DN600 For pull-in glass-fibre liners Cable length 200 m



UV LED Advantages

Smart and efficient UV LED light radiation modules

Hi-efficiency LED modules take the best from every W of energy, limiting unproductive heat and minimizing the size of the power supply unit required, while simplifying your ancillary equipment on site.

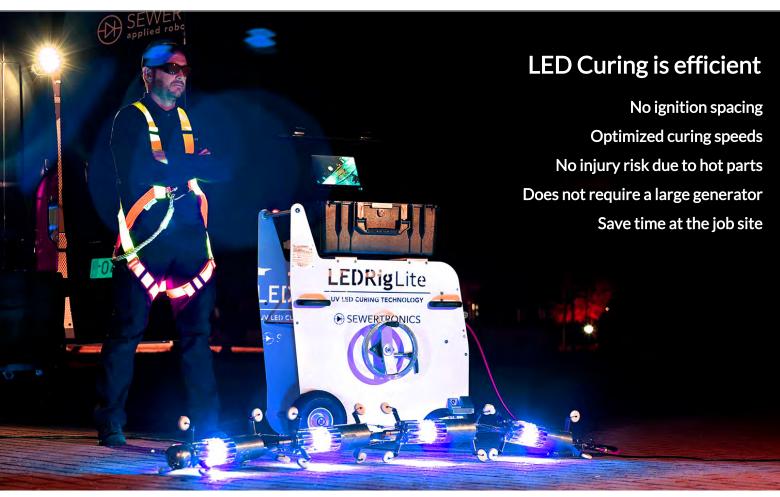
LED ON, LED OFF. No ignition spacing.

No wasted time on lamps ignition spacing. Classic UV lamp solutions are forced to set sequential start-up due to the large amount of power drawn (peak) at lamp ignition. All LEDRIG modules are turned ON at the very same time, saving precious time on every job.

Switch LED off & head back home.

UV LED modules do not reach dangerous working temperatures. As soon as you are done with your curing job, you are ready to take the unit off the manhole and go back home. Another time saving factor to become more effective in the field. Cure more liners in a simpler and lighter way.

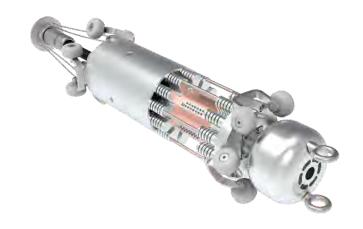




UV LED curing from DN150 to DN600

The LEDRig system is a glass fibre curing solution for diameters ranging from DN150 to DN600. The high efficiency of UV LED technology means that electricity consumption can be reduced, while the equipment can be more portable and easier to use. Its modular design allows to implement different number of UV LED modules to adapt the unit to the diameter of the pipe.

LEDRig has a 200 m long umbilical cable mounted on a reel fitted with wheels so that it can be transported to the work site. A compact control unit integrated in the cable reel supplies power to the eight UV LED modules that make up a compact array. LEDRig is suitable for application in diameters ranging from DN150 to DN600.





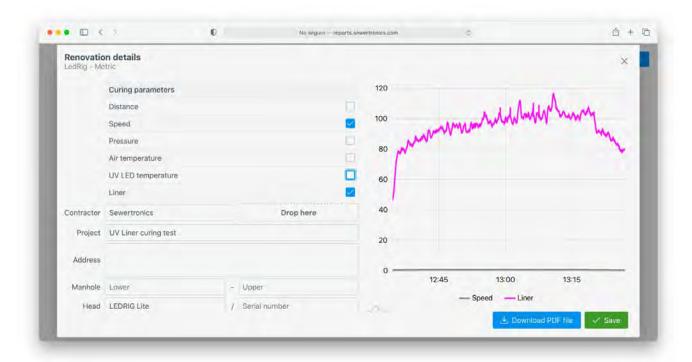


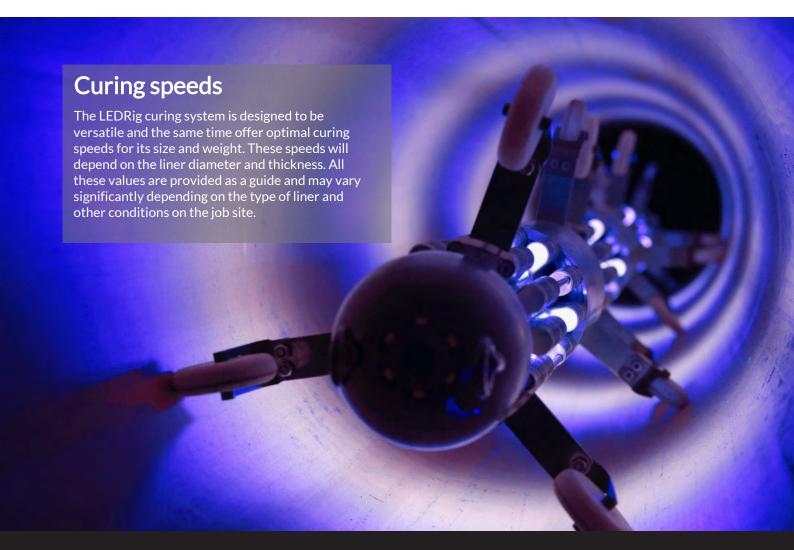
On-Line reporting

LEDRig units record & store the main data from every curing job. Our online reporting feature, easy accessible via PC or handheld device with an internet connection, is a web based system that produces an instant reports that can be adopted and personalized to your needs, that includes: name of the contractor, client, project name, address, time & hour, curing time, LED head, start-finish manholes and contractor/client logo. Curing parameters can be all combined into a single report or addressed individually - air pressure, air temperature, LED temperature, curing speed, distance etc.

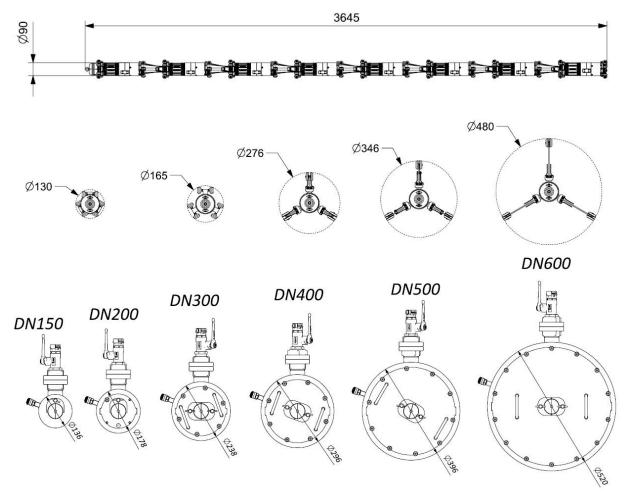


The right side of the screen displays a preview of the report. The left side displays a number of settings and all curing parameters to choose from. The final output report is a pdf file that can then be sent to your client or just saved for your own company records.









QuickPatch LED

SECTIONAL REPAIR LED CURING

LED curing patch repair From DN80 to DN600 Epoxy pre-pregs Shadowless technology



Sewertronics' LED shadowless solution for patch repair

Le système de durcissement et de réparation spot QuickPatch LED est monté sur un châssis en aluminium à 4 The Sewertronics' QuickPatch LED cures prepregs for a spot repair from DN80 mm to DN600 mm. QuickPatch's high-power LED design incorporates a breakthrough, shadowless technology that guarantees full radiation reach to the entire surface of the fibre-glass prepregs. The LED radiation design, follows the radiation and cooling principles of our patented technology and allows to cure every patch in just 3-5 minutes.

Just as our Speedylight+ and LED RIG equipment, QuickPatch LED changes the game in the rehabilitation industry by bringing incredibly fast curing times, portability and easy-to-use features.

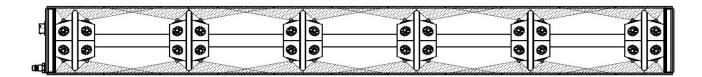




QuickPatch LED

Shadowless technology

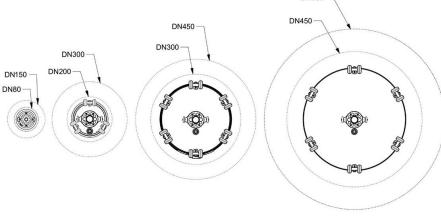
Sewertronics' shadowless technology (patent pending) delivers a homogeneous UV light exposure along 100% of the surface of the patch, ensuring a full body curing of the laminate.



Diameter ranges: DN80 to DN600

QuickPatch UV LED is designed to cover a working range from DN80 to DN600. including the following packer sizes:

- DN80 DN150
- DN200 DN300
- DN300 DN450
- DN450 DN600



DN600











