



X120-UV-SUPER UV Curing Rehabilitation System

Advanced Trenchless Pipeline Rehabilitation with UV Technology



Why Choose X120-UV-SUPER?



The X120-UV-SUPER is a comprehensive UV curing system designed for trenchless rehabilitation of municipal pipelines from DN200 to DN1600. Comprising a power system, UV control system, UV lamp frame systems, video monitoring, and pipeline pressure regulation, it utilizes advanced UV light curing technology to efficiently restore pipe structural integrity without excavation. Operators benefit from flexible configuration and real-time monitoring, ensuring a high-quality, durable repair.

Performance

- High-intensity UV light sources with long service life, ensuring efficient and complete resin curing.
- Precise diameter matching and centering mechanism within the pipe to maximize rehabilitation efficiency and quality.
- Capable of handling complex repair conditions with robust and waterproof components.

Intelligence

- Dual video monitoring (front and rear view) provides comprehensive visual feedback throughout the curing process.
- Multiple combination modes with interchangeable lamp frames offer great operational flexibility for various pipe sizes.
- Integrated control system for precise management of the entire rehabilitation process.

Safety

- All critical components (lamp frames, cameras) feature IP68 waterproof rating, suitable for demanding working environments.
- Stable system performance with minimalist internal design of lamp frames, reducing failure points.

Reliability

- Simplified and robust design of lamp frames, containing only the light source and temperature sensors for enhanced durability.
- Consistent and reliable performance backed by a complete suite of dedicated support facilities.

Key Features & Components

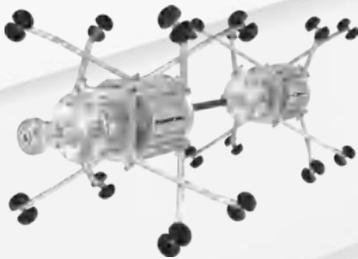
UV Curing Control System

- **Dimensions (LWH) incl. Articulated Arm:** 1760 * 750 * 1370 mm;
- **Cable Length:** 150 m (Waterproof, Abrasion-resistant, Heat-resistant, Chemical-resistant, Corrosion-resistant), optional 200 m available;
- **Monitors:** 3 No. (two for forward view, one for rear view);
- **Main Controller:** Android Tablet;
- **Parameter Setting:** Configurable curing parameters, including: Liner diameter, Liner wall thickness;
- **Pressure Control:** Manual regulation of blower output pressure;
- **Curing Control:** Automated curing based on set parameters and traction speed (Auto-retract/rewind, Auto-levelwind);
- **Imaging:** High-definition analog cameras with real-time display on 3 screens;
- **Status Indication:** Displays curing pressure and traction speed;
- **Length Measurement:** High-precision encoder with 1 mm resolution;
- **Weight:** Approx. 560 kg;



Large Curing Lamp Assembly

- **Ingress Protection (IP) Rating:** IP68;
- **Light Source:** LED;
- **Power Rating:** Approx. 1080 W per section;
- **Weight:** Approx. 33 kg per section;
- **Applicable Pipe Range:** DN700 - DN1600;



Small Curing Lamp Assembly

- **Ingress Protection (IP) Rating:** IP68;
- **Light Source:** LED;
- **Power Rating:** Approx. 180 W per section;
- **Weight:** Approx. 3.5 kg per section;
- **Applicable Pipe Range:** DN200 - DN600;



Forward Inspection Camera

- **Dimensions (Ø*L):** 108 * 123 mm;
- **Ingress Protection (IP) Rating:** IP68;
- **Resolution:** 2 Megapixels;



Rear-view Inspection Camera

- **Dimensions (Ø*L):** 50 * 160 mm;
- **Ingress Protection (IP) Rating:** IP68;
- **Resolution:** 2 Megapixels;



RESTORE FROM WITHIN, WITH STRENGTH AND PRECISION

TRENCHLESS TECHNOLOGY, DURABLE RESULTS



Main Configuration Including:

- Main Control System
- UV Lamp Frames (Large and Small)
- Video Monitoring Cameras (Front & Rear)