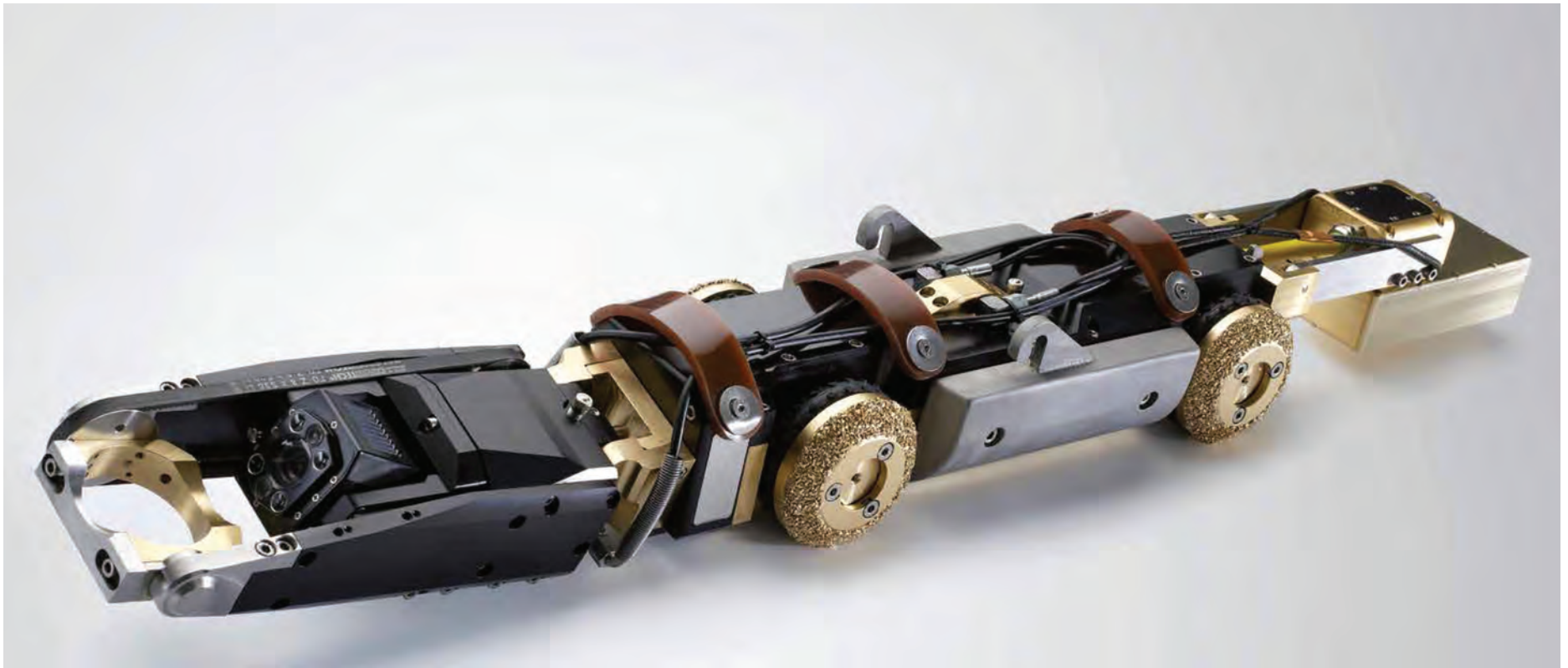




SCHWALM
USA



The Talpa FSR 1330 Sewer Rehab Robot
System Components and Accessories



Talpa FSR 1330 – Data and Facts

Application Sectors

- Trenchless partial rehab of sewer lines
- Primary line rehab with short liner segments*, Accessible I.D. range: 5.5 – 12 in.
- Rehab of lateral connections with lined seals*, Accessible I.D. range: 3.50 – 6 in.
- Localized TV inspection of main lines and laterals for internal QA

Robot Functions

- Milling of concrete, ceramics, organic substances, plastics
- Abrasive cutting: cut out protruding obstacles
- Cleaning with specialized brushes, high-pressure jetters
- Maneuvers and positions lateral connection packers
- Compression plugs for sealing of inoperative lateral lines
- Reinstatement of CIPP

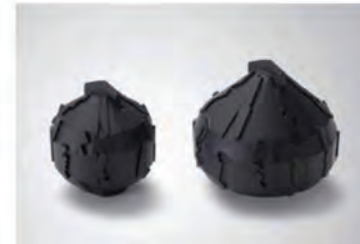
Degrees of Freedom of the Talpa FSR 1330

- Robot carriage: drives forwards/backwards
- Access arm: swivels up/down
- Access arm: swivels clockwise/counterclockwise
- Tooling mount: swivels about transverse axis up/down
- Camera: 270° camera swiveling in lateral axis (+/- 135°)

Available Robotic Camera Systems by Schwalm – MiNa

The MiNa Camera: Sewer Camera, Compact Version

- Image sensor: 1/3 in. Sony Super HAD CCD II
- Resolution: 600 TV lines, PAL or NTSC
- Minimum illumination: 2.0 Lux (daylight mode, real-time color mode)
- Swivel feature: +/- 135° (backward view), wear-resistant friction clutch
- Watertight: pressure monitoring to 5 psi (0.3 bar) with indicator light
- Quick mount: assembly to the robot with a few steps



System Components and Accessories

Tooling / Attachments

- Piranha heads: conical or ball-shaped, small/large each
- Mushroom heads: small/large each
- Compressed air-powered disc grinder
- High-pressure jet nozzles, specialized brushes
- Powered wrenches for 4 / 5 / 6 in. compression plugs

Wheels

- Carbide-surfaced wheels, conical with solder-bonded carbide texturing
- Carbide wheels: 5.91 in. diameter, with increased ground clearance
- Solid-rubber surfaced wheels with stud treading

Axle Extenders

- 8 in. extender – widens wheel base, for 7.75 in. and up
- 10 in. extender – widens wheel base, for 9.75 in. and up
- 12 in. extender – widens wheel base, for 11.75 in.

Recommended Air Motors

- 13000, 6 - 12 in.
- 12000, 8 - 12 in.

Schwalm Digital Control Module

- Controls robot functions
- Power supply: 110 V or 230 V
- NTSC and PAL systems
- Control unit with serial interface: alphanumeric display of date, time and robot position (ft or m)
- Operating panel with two joysticks, options: keyboard, flat screen
- Available as 19 in. stationary rack module or portable module in aluminium carrying case with integrated screen

Automatic Cable Drum

- Electrically powered cable feed with self-levelling winding, cable length: 660 ft., operates from 110 V or 230 V power
- Output and retrieval: automatic or manual, winding tension and speed: closed or open-loop control
- Cable length reading accurate to nearest .50 in, with digital display reset function for positioning to defined zero points

Supply Lines

- 500 ft. in length, extension segments available for additional length, with hose reel for feed and retrieval
- Bonded twin hose, air and water



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SCHWALM USA – Systems for Trenchless Sewer Rehabilitation

Contact Us

1-855-WHYDIG1
17 AD Asbury Drive
Greenville, SC 29605
schwalm-usa.com

- Sewer Rehab Robots, System Components and Accessories
- Cutter Heads
- Lateral Connection Packers

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