## SCHWALM <br> ROBOTIC



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: DN 130 - DN 300

- Rehab of lateral connections with hat seals*,

Accessible I.D. range: DN 90 - DN 250

- 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

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-degrees camera swiveling in lateral axis (+/-135)

Available Robotic Camera Systems by Schwalm - MiNa and MiMoZo The MiMoZo Camera: Robust High-Performance
Zoom Camera
-Image sensor: 1/4-inch CCD

- Resolution: 520 TV lines, PAL or NTSC available
- Minimum illumination: 2.5 Lux (daylight mode,
real-time color mode))
- Zoom lens: 10x optical, Focus: automatic and manual
- Electronic shutter: automatic and manual (8 steps)
- Swivel feature: +/- 135-degrees (backward view),
wear-resistant friction clutch
- Watertight: pressure monitoring to 0.2 bar
( 7 psi) with indicator light
Quick mount: assembly to the robot with a few steps

The MiNa Camera: Sewer Camera,
Compact Version
Image sensor: 1/3-inch 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-degrees (backward view) wear-resistant friction clutch
- Watertight: pressure monitoring to 0.2 bar
( 7 psi ) 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 DN 100/125/150/200 compression plugs

Wheels

- Carbide-surfaced wheels, conical with solder-bonded carbide texturing
- Carbide wheels: 150 mm diameter, with increased ground clearance
- Solid-rubber surfaced wheels with stud treading

Axle Extenders

- DN 200 extender - widens wheel base, for DN 200 and up

DN 250 extender - widens wheel base, for DN 250 and up

- DN 300 extender - widens wheel base, for DN 300

Recommended Air Motors
-1320-P: for DN 130 - DN 200
-1530-P: for DN 150 - DN 300

- 2025-P: for DN 200 - DN 250
- 2560-P: for DN 250 upwards (up to DN 600), extendable
- 3 drive shaft extenders for 2560-P air motor available in lengths of 10,15 and 20 cm

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 -inch 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: 140 m , 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 1 cm , with digita
display reset function for positioning to defined zero points
Hose-in-Hose Supply Lines
Seamless hose-in-hose system for compressed air and water supply to robot
- 100 m in length, extension segments available for additional length, with hose reel for feed and retrieval


SCHWALM Robotic GmbH - Systems for Trenchless Partial Sewer Rehabilitation

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Design, technical data and features are subject to change. All photographic material shown must not necessarily comply in full detail to our current products shipped.

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


