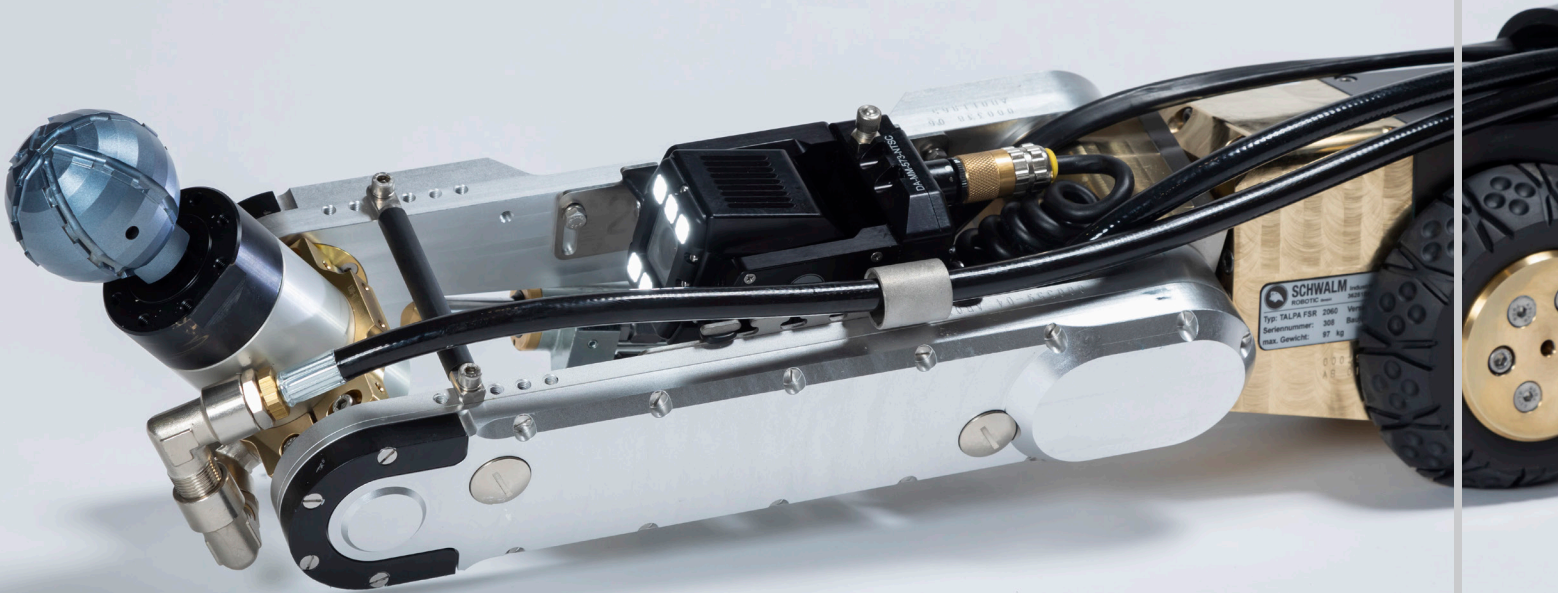




VORTEX

MULTI-PURPOSE PIPELINE REHAB ROBOTS

 **Waterline Renewal Technologies™**
OFFICIAL VORTEX RESELLER



Schwalm Talpa Robots

- Air-driven
- Rugged and durable
- USA Service and support
- Interchangeable attachments
- High-resolution camera
- Can integrate with most CCTV systems

SCHWALM TALPA FSR 1330

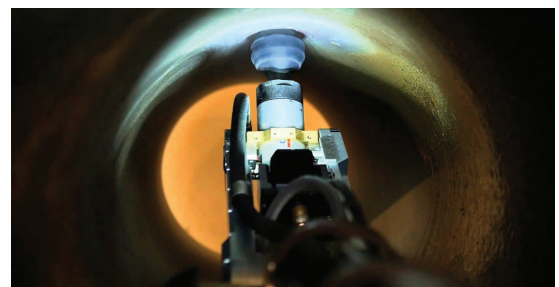
For 6" - 12" Pipe

SCHWALM TALPA FSR 2060

For 8" - 24" Pipe

DEGREES OF FREEDOM

- Robot carriage: drives forward/backward
- 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°)



VORTEX



Cut Through Pipes
and Protruding
TAPS Faster

POWERFUL

EFFICIENT

Cut Through Pipes and Protruding TAPS Faster

The incredibly powerful Schwalm Talpa series **delivers fast and efficient grinding and cutting solutions.** Simply add one of many cutting heads and experience the power for yourself. **The Liner Cut Pro** ball milling head easily cuts through liners, PVC, and other plastic materials that often protrude from laterals. For tougher jobs, attach our **Mushroom Milling Cutter** to cut through clay, cement, even ductile iron.

RELATED ATTACHMENTS

- Mushroom Head Milling Cutter
- Tungsten Carbide Ball Cutter
- Polycrystalline Diamond (PCD) Ball Milling Cutter





VORTEX

Patch and Plug

QUICK

COMPATIBLE

Patch and Plug

INSTALL LATERAL CONNECTION SEALS

Known for its cutting capabilities, Schwalm robots are also widely used to install lateral connection seals to stop infiltration and exfiltration.

PERFORM POINT REPAIRS

Schwalm is compatible with standard point repair systems to install pipe patches and inner pipe sealing systems.

QUICKLY INSTALL LATERAL PLUGS

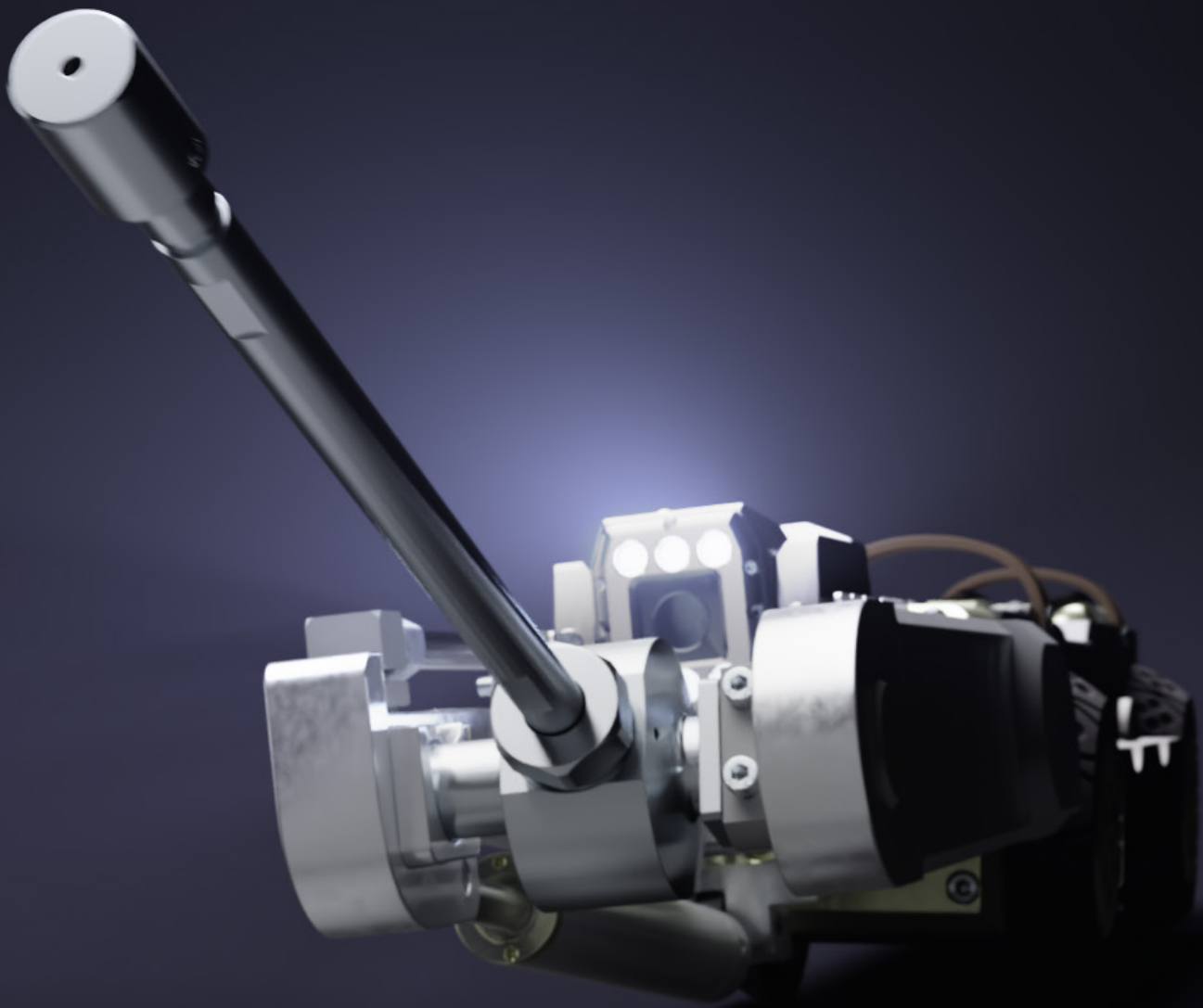
Use the **Schwalm Reusable Lateral Plug** to temporarily or permanently plug laterals and dead-end lines. The entire process only takes a few minutes to complete.

RELATED ATTACHMENTS

- Pipe-Robo-Tec®
- Compression Plugs
- Mechanical Packer Air Hose Assembly



VORTEX



AccuPower™

HIGH-PRESSURE
WATER BLASTER

AccuPower™ High-Pressure Water Blaster

VORTEX ACCUPOWER™ HIGH-PRESSURE WATER BLASTER

The AccuPower delivers up to 40,000 psi of ultra high power, water jetting performance for the most demanding pipe cleaning and cutting projects. **Powered by Schwalm**, AccuPower will clean, clear, and cut through obstructions with ease in pipes ranging from 8-48" in diameter.

LEGENDARY SCHWALM VERSATILITY

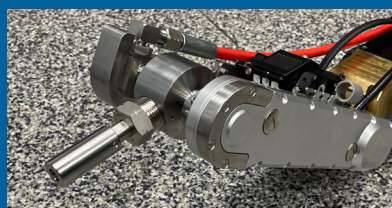
Turn your Schwalm 2060 into a 40,000 PSI precision cleaning machine in minutes! Not much stands in the way of AccuPower™ High-Pressure Water Blaster. It can clean, cut and slice through the toughest materials with ease.



ATTACHMENTS INCLUDED IN PELICAN CASE

- AccuPower Swivel Arm attachment
- Twin Jet Spray Bar
- 4" Lance w/ caps
- Camera Lens Protector w/shields
- 12" Lance w/caps
- Four 0° Jets
- Four 15° Jets
- Hose Whip

Choice of Nozzles Based On The Job



THE ACCUPOWER PACKAGE INCLUDES THREE HIGH PERFORMANCE NOZZLES FOR MAXIMUM CLEANING AND CUTTING POWER

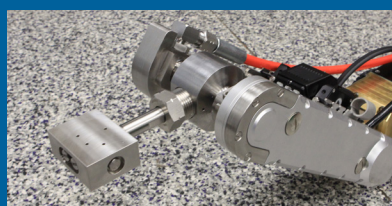
4" Lance

The 4" Lance is equipped with 0° and 15° jets for aggressive cutting and standard cleaning/cutting applications. Adjustable Lance Caps, ranging from 3mm to 30mm, are included for cutting multiple CIPP liner thicknesses.



12" Lance

The 12" Lance also feature 0° or 15° jetter options and two CIPP caps. This nozzle is designed for removing CIPP in pipe sizes 20" and up. It also comes in handy when you need to create distance between the debris and the camera.



Twin-Jet Spray Bar

The Twin-Jet Spray Bar attachment is used for removing debris from the bottom of the pipe without damaging its surface.



VORTEX

Cleaning Capabilities

PRECISE

RUGGED

Cleaning Capabilities

Looking to descale and clean 6"-24" pipes with ease? Schwalm's **durable, precise and rugged characteristics** allow for fast and efficient cleaning. Choose from a variety of attachments to best fit your cleaning needs!

RELATED ATTACHMENTS

- Robo Cyclone™ — The industry's best premium descaling chain just got better.
- Robo Smart Spider™ — Quickly convert your Schwalm into a descaler for fragile pipes.
- Robo Smart Cutter™ — Grind away seams, welding beads, and other inconsistencies in the pipe quickly and easily.
- Robo Grabber — Exclusively designed for a Schwalm, it turns your robot into a retrieval device.
- Ripsaw™ Rotating Turbo Nozzle — Cut through roots, grouts and cements, blasts through grease, as well. The Ripsaw blasts a 0° water stream up to 3200 PSI. Provides 18° cone of coverage.

Fast and Efficient Pipe Prep

With the **highly versatile** Schwalm robot, it's never been easier to prep your pipe for rehabilitation! Choose from a wide variety of available attachments to **attack your pipe's condition** and remove unwanted materials from your pipe. With a Schwalm, you can prep pipes ranging from 6" to 24".

RELATED ATTACHMENTS

- Chisel for Talpa 2060
- Robo Grabber™
- Air Grinder: Use your Schwalm with our Pneumatic Disc Grinder, rotating at 12,000 rpm, for removing excess material or cutting metallic objects into pieces.



I Picote Robo Tools

Picote Robo Tools are exclusively available ONLY for Schwalm Robots. A specially designed air motor can be mounted on an existing Schwalm Talpa FSR 2060 Robot to operate the new tools. The air motor, developed by Schwalm Robotics GmbH, runs at max 1,500 rpm. Combine Picote's exclusive Robo Tools with the advanced Schwalm Robotic System to create a powerful and versatile solution for your job site.

ROBO SMART CUTTER™

Take advantage of the fine-tuning power of the Robo Smart Cutter. Use the cutting ball and then follow up with this incredible attachment. Grind away seams, welding beads, and other inconsistencies in the pipe quickly and easily. Steering option included. Available sizes: 6", 8", 10" and 12"

ROBO CYCLONE™

Descale pipe like never before with the Picote Premium Cyclone Chain. Mount the Robo Cyclone on a robot for efficient cleaning and grinding. Available sizes: 6", 8", 10" and 12"

ROBO GRABBER™

Turn your robot into a retrieval device by adding the Robo Grabber. Remove items from hard-to-reach places. Reclaim a tool or item weighing up to 77 lb. Available sizes: Regular Grabber for 4" or larger pipes.

ROBO SMART SPIDER™

Descale fragile pipes with ease with your multi-use robot. Gentle on brass connections in water mains. Available sizes: 6" & 8"



Schwalm Mobile Robotics System Trailer

Ask about the Schwalm Mobile Robotics System Trailer that is **equipped with everything you need** to conduct full-scale inspecting, cleaning, and cutting operations!

Base and custom-built models available.

Existing CCTV System? Schwalm is completely compatible with all industry-leading CCTV equipment! This saves you money and reduces your capital equipment expenses.

Designed for ultimate efficiency, every Schwalm Trailer comes with these exclusive Schwalm components:

- Talpa FSR 2060 Robot
- Talpa FSR 1330 Robot
- 500 LB Crane with Lighting
- 500 FT Air Hose Reel
- 660 FT Cable Reel
- Wash Down Tank for Cleaning Robots and Lens
- Comprehensive Control Unit
- Double Monitors
- Built-in Generator, Air-Compressor
- Solar Panels
- Built-in Joy Sticks (Desk Top)
- Optional PS4 Controls
- And Much More!



WWW.VORTEXCOMPANIES.COM
SALES@VORTEXCOMPANIES.COM

1-855-WHYDIG1
18150 IMPERIAL VALLEY DR.
HOUSTON, TX 77060

 **Waterline Renewal Technologies™**
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