



MUNICIPAL THE PICOTE WAY



**QUALITY SOLUTIONS
BY EXPERTS
IN THE FIELD**

PRESSURE PIPE COATING
POTABLE WATER INFRASTRUCTURE COATING
CLEANING AND DESCALING OF PROBLEM PIPES
LINING AND COATING OF CLARIFIER DRAIN LINES
CONCRETE AND GROUT REMOVAL
ROBOTIC TOOLS

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- > Picote Brush Coating™
- > High-Speed Cleaning
- > Reinstatements
- > Failed CIPP Liner Removal
- > Picote Branch Lining

WHEN YOU GO PICOTE YOU GO WITH HISTORY, KNOWLEDGE AND EXPERTISE IN AND OUT OF THE FIELD

Picote has been a contractor in Finland for over 20 years. Our dynamic R&D Team works closely with our skilled CIPP Services Team to bring our customers tools that work in the real world. Our passion and commitment for what we do doesn't stop there. We offer unrivalled support through our Resellers, Training Centers, Technical Team and our online training courses, videos, and support materials from the Picote Institute.



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CERTIFICATION TRAINING AT OUR TRAINING CENTER ANDERSON, SC

Get the most out of your Picote with certification courses and expert technical guidance at our Training Center in Anderson, SC. Gain hands-on practical experience working with plumbed-in pipes replicating real world scenarios.

Contact us for further details on our range of certification courses, prices and scheduling:
training@picotesolutions.com





Picote's specially designed epoxy coatings are perfect for potable water supply lines 4" and larger. Our NSF 61.5 approved epoxy can rebuild and seal deterioration and leaks while preventing future failure for 30-50 years.

POTABLE WATER INFRASTRUCTURE COATING

HEATING AND COOLING SYSTEMS COATING

Large scale heating and cooling system piping is often a perfect candidate for the Picote Brush Coating™ system. The resilient epoxy can seal leaks and prevent build up of scale and mineral deposits while providing excellent chemical resistance for glycol and other chemicals found in such systems.



< Picote's Maxi Coating System is being used to rehabilitate a 50+ year old potable water main at NASA's Cape Canaveral site. This water main is 8" in diameter and serves a major part of the shuttle launch facility.



PRESSURE PIPING, COMMUNITY POOLS, FOUNTAINS, FORCE MAIN PIPES, LIFT STATION RISERS AND DISTRIBUTION 90s



With the right number of coats added to a pipe, Picote's epoxy coating can withstand operating pressures upwards of 150psi. This capability makes our coating a great repair option for pressure pipes of all kinds, including: pools, fountains, force mains, fire suppression lines and more. Pipe condition, type and temperatures will all be a factor and should be considered before undertaking work.

Consult with Picote's technical team for further information:
support@picotesolutions.com
+1 (864) 940 0088



Picote's coating process has been used to renew wastewater clarifier drains where heavy use, caustic and corrosive environments are a constant.

This is a great preventative measure when the system is drained down for service or cleaning.

Multiple rehabilitations of the drain lines can be accomplished in a day.

CLARIFIER DRAIN LINES

LINING AND COATING



LINING IN SMALL DIAMETER PIPE FOR VARIOUS TYPES OF TREATMENT PLANTS

Many municipalities have sites where critical piping such as drains for testing labs, valve stations, monitoring stations and more are quite old. These pipes are often neglected and can become full of corrosion. Picote's small diameter lining processes are great for repairing these lines by way of highly flexible materials and simple installation equipment.



Meets the Requirements of
ASTM D1681





Sometimes a liner is installed and is acceptable aside from some minor imperfections like fins, wrinkles and slugs of resin. Picote's tools can remove these types of blemishes and can even polish the liner back to a visually appealing and functional state.

REMOVAL OF FINES, WRINKLES AND RESIN SLUGS

FAILED LINER REMOVAL – OLD AND NEW

CIPP lining has been a standard practice now for many years. Many older installations are nearing their end of life, showing signs of failure, and will need to be removed. Sometimes the unexpected happens and an install just doesn't go well for a number of reasons and a lining may need to be removed immediately. Often these poor installations are found later when problems arise and will then need to be removed. No matter what the scenario, Picote has a solution for removing the problem.





CONCRETE AND GROUT REMOVAL

It is very common to find concrete and grout in pipes. These cases can cause major difficulty with flow or prevent the ability to navigate these lines. Picote's unique line of grinding tools is specifically designed to remove these types of blockages.





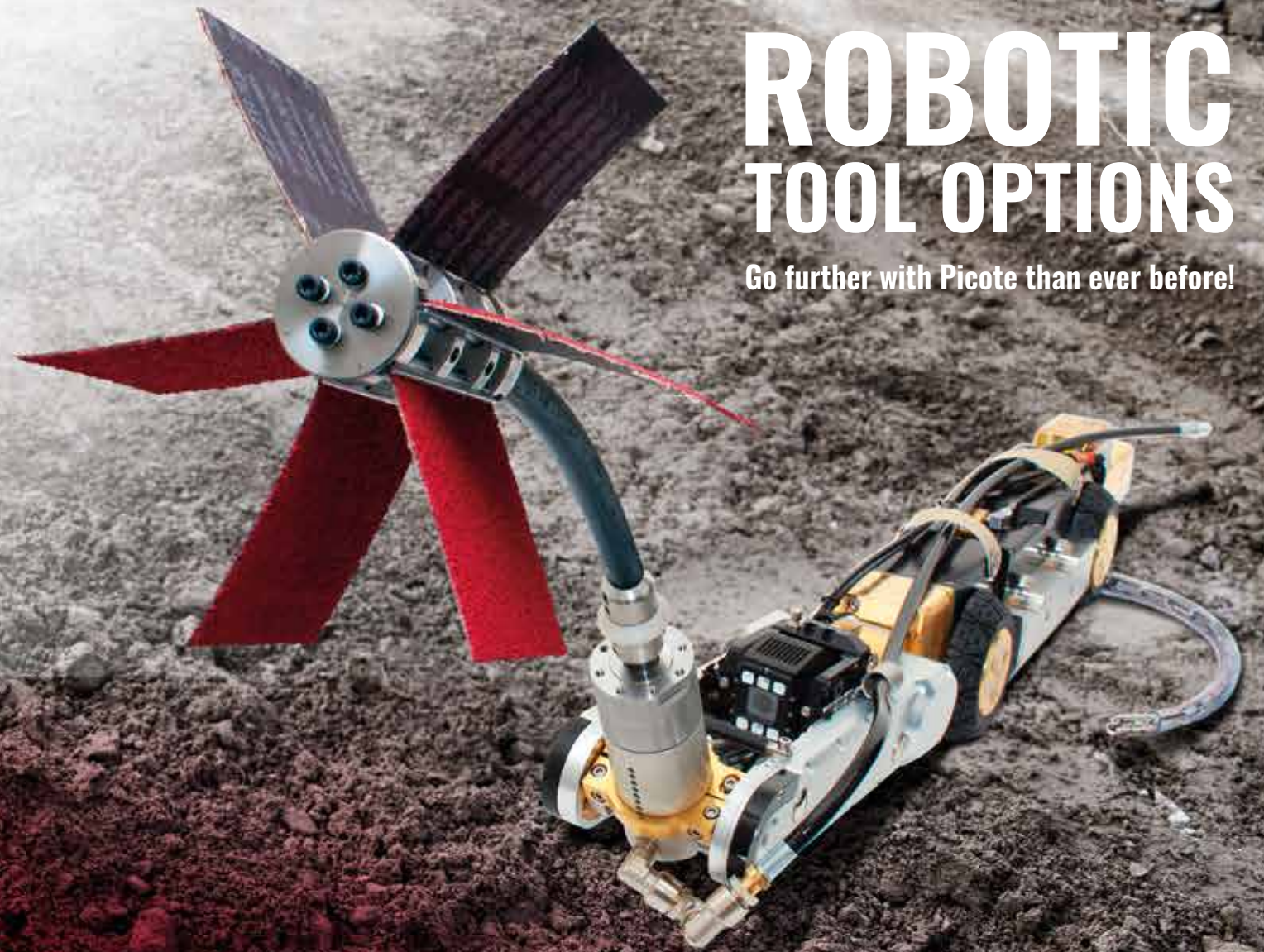
Many municipalities are responsible for cast iron and ductile iron pipes serving residential, commercial and industrial customers. When these lines become heavily scaled, Picote Millers and grinding chains can make quick work of removing buildup and restore optimal flow.

CLEANING AND DESCALING OF PROBLEM PIPES



ROBOTIC TOOL OPTIONS

Go further with Picote than ever before!



Larger pipes require bigger tools and a longer reach. When this is the case, Picote has a robotic tool range that is designed to be fitted to the world renowned Schwalm Robotic Talpa series cutter. Together with Schwalm's engineering team, Picote has created tools that can perform challenging tasks such as grinding, cutting and cleaning. It is also possible to grab lost items or remove obstructions with the Grabber pincher jaws mounted on board with a HD camera for precision work.



BRUSHING AND CLEAN UP OF UNDERCUT LATERAL TAPS

Large CIPP projects in mainlines can often times mean a fast paced installation process and a much faster process of returning lateral connections to service so as to avoid backups. In this fast paced process, connections are often left only 75 to 90 percent open, so there is potential for debris to catch on jagged edges left by the robotic reinstatement cutters. Picote's Smart Cutter™ coupled with one of our high speed milling machines can be a fast answer for municipalities to address these undercut connections and avoid responsibility for property damage caused by backups.





CASE STUDIES

Nuclear Plant | Washington, USA (2017)

Coated 140' of 4" cast iron waste line in a nuclear facility to seal waste piping to ensure no waste was leeching into the ground causing contamination of surrounding soil. Lead joints in the pipe had failed over time and were starting to leak and cause problems.

Benefit:

Sealed off exfiltration from the line and filled in failed joints.

Water Treatment Plant | Indonesia (March 2018)

Coating pipes with a Mini Coating Pump at a water treatment plant in Indonesia. Repaired several cooling pipes for power plant turbines. There were 4 turbines in total. Pipe sizes ranged from 2-4". Coating was executed one turbine at a time.

Benefit:

Brush coating proved to be much faster than other trenchless options allowing a better setup for working with bends in small diameter pipes and a seamless solution for piping with a large number of junctions.

Large Dam | Yankton, South Dakota, USA (October 2017)

Coating 144' of 4" pipes in utility building with the Maxi Coating Pump. Traditional replacement was not a choice because of the existing infrastructure. Pipe was located in utility area of the dam and was used to supply potable water. CIPP would have been difficult because of several closely spaced bends.

Benefit:

Pipes were descaled and restored to work properly with two layers of epoxy coating.

NASA | Florida, USA (March 2019)

Installation of 5 coats of Picote's Dual Color 100% Solids Epoxy in an 8" potable water supply line that was installed in the 1960's. The Maxi Coating Pump was used.

Benefit:

Due to the location of the pipe, excavation would have been extremely costly and difficult. The Picote Brush Coating™ System provided a fast and easy renovation while the facility maintained access to the road above.



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INFORMATION & SUPPORT EMAIL
support@picotesolutions.com

TECHNICAL SUPPORT

USA
+1 864 940 0088

For Technical Training info:
training@picotesolutions.com
+1 (864) 940 0088