

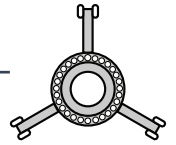
RELINE
AMERICA



Strong American Trenchless Solutions
for Strong American Infrastructure

downstreamservices.com
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PART OF THE
RELINE UV
G R O U P

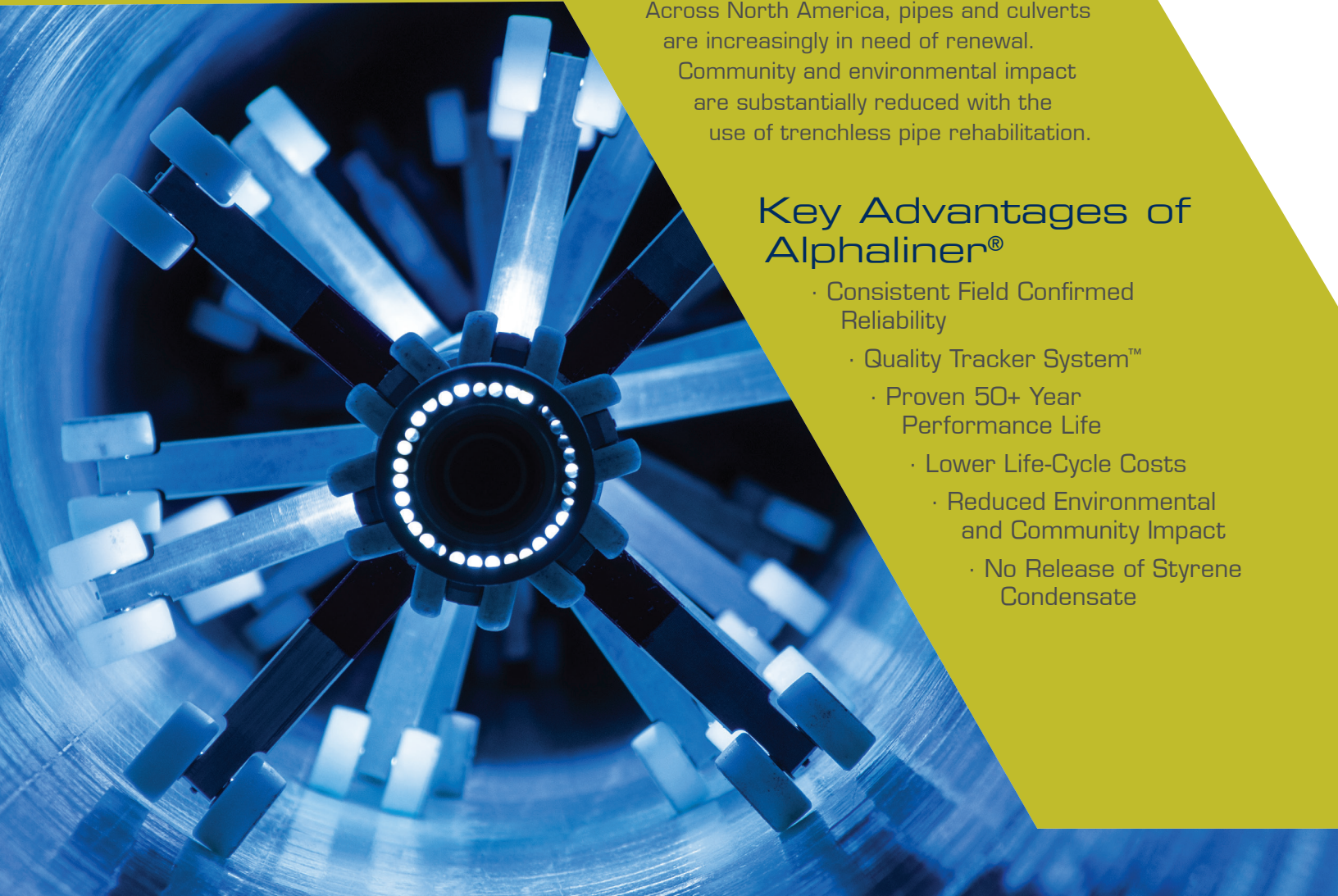


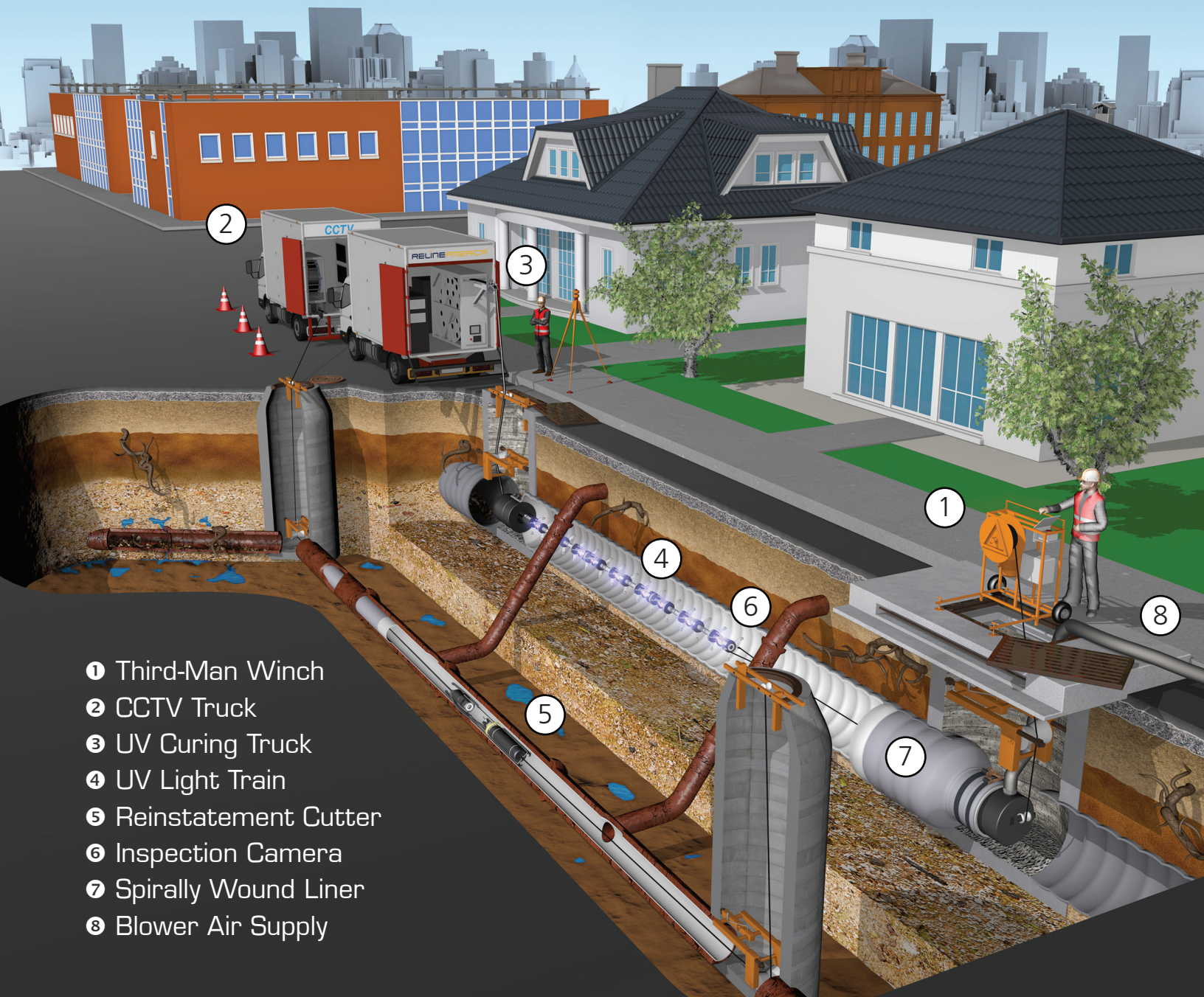
Why UV Glass Reinforced Pipe (UV GRP) and Alphaliner® by Reline™

Across North America, pipes and culverts are increasingly in need of renewal. Community and environmental impact are substantially reduced with the use of trenchless pipe rehabilitation.

Key Advantages of Alphaliner®

- Consistent Field Confirmed Reliability
- Quality Tracker System™
- Proven 50+ Year Performance Life
- Lower Life-Cycle Costs
- Reduced Environmental and Community Impact
- No Release of Styrene Condensate





- ❶ Third-Man Winch
- ❷ CCTV Truck
- ❸ UV Curing Truck
- ❹ UV Light Train
- ❺ Reinstatement Cutter
- ❻ Inspection Camera
- ❼ Spirally Wound Liner
- ❽ Blower Air Supply

Did You Know...

Per the 2017 California Department of Transportation Report* on Water Quality of Flow through Cured-In-Place Pipe:

Control Infiltration

Eliminate Root Intrusion

Avoid Structural Failure

Enhanced Corrosion Resistance

Achieve System Sustainability

“...The most protective CIPP curing method was UV, where the concentrations of volatile organic compounds in all samples analyzed were below all known environmental thresholds.

What We Do

Reline America® Inc. is the manufacturer of ALPHALINER® full composite, UV GRP and state-of-the-art installation equipment. All of our liners and equipment are produced in the USA, including our award-winning tamper resistant Quality-Tracker System™ that monitors and records all critical aspects of the installation process.

We serve the infrastructure protection and rehabilitation needs of municipalities, DOTs, railways, airports and other entities that can benefit from the advantages of ALPHALINER®.



Quality Assurance

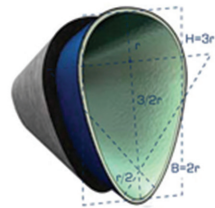
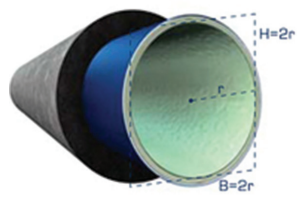
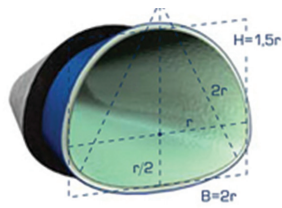
Our in-house laboratory tests raw materials and liners throughout the manufacturing process.



Factory Training

ALPHALINER® installers are required to undergo an extensive training and certification program at our state-of-the-art training facility.





Ideal for circular, ovoid, arch, rectangular and special cross-sections.

ALPHALINER® 500 and 1800 are glass reinforced, spirally wound UV GRP liners, custom-made to your specifications using the finest materials available worldwide.

Our ISO 9001:2015 certified facility in Saltville, Virginia produces durable, dependable products that offer a user-friendly, efficient installation process that is backed by a comprehensive installer training program.

Lining equipment rigs, support vehicles and equipment are designed and built to suit each customer's specific requirements and budget.

ALPHALINER® is available in diameters of 6"- 72" (15.24cm - 182.88cm) and can accommodate any pipe shape with lengths up to 2,000' (609 m)



Rentals

Rental equipment, accessories and tools are available for certified ALPHALINER® Installers.



CONTRACTORS AND MUNICIPALITIES... COME GROW WITH US



Through our network of certified installers, Reline™ is providing asset owners a safe, environmentally friendly, cost-effective method for protecting and renewing their aging underground pipelines.

Technical

If you need assistance with your liner installation, one of our field service managers can be on hand to assist you with the liner install and complete cure at the job site.

In the event you are working on a large diameter project or a project that may have extenuating circumstances, we are here for you.

Marketing & Sales

Our marketing specialists are available to assist you with every part of your project.

We offer a broad range of marketing essentials including engineering guides and specifications.

Our ultimate goal is to see you succeed in securing bid opportunities. We welcome the opportunity to work with you one-on-one to meet this goal.

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ADVANTAGES OF ALPHALINER® vs FELT CIPP

		Felt CIPP Cured Using Steam or Water	Alphaliner®
INSTALLATION PROPERTIES	Controllable Installation (able to start and stop)	No stopping once exothermal begins	Yes
	Shrinkage	Moderate (depending on resin quality)	Minimal (lowest resin shrinkage of all installation methods)
	Curing Documentation	Temperature recorded at accessible sections only	Infrared sensors record entire process
	Resin Migration/Loss/Washout	Yes	No
	Host Pipe Required for Liner Integrity	Yes	No
ENVIRONMENTAL	Energy Usage	Medium	Low
	Airborne Odor	Moderate to Heavy	Minimal
	Installation Noise	Medium to High	Low
	Post Curing Discharge	Styrene filled water or condensate	None
	Environmental Footprint	Large	Minimal (less equipment required)
STRUCTURAL	Initial Flexural Modulus*	250,000 - 450,000 psi	1,660,000 psi Alphaliner® 500 3,000,000 psi Alphaliner® 1800H
	Adjusted Long Term Flexural Modulus* (50 Year Life Results)	125,000 - 225,000 psi	1,210,000 psi Alphaliner® 500 2,550,000 psi Alphaliner® 1800H
	Initial Flexural Strength*	4,500 - 5,000 psi	50,000 psi Alphaliner® 500 68,000 psi Alphaliner® 1800H
	Liner Reinforcement	None	ECR Fiberglass
	Porosity of Cured Liner Pipe Wall	Not tight	Tight
LINER & GENERAL INFORMATION	Pre-Liner	Not routinely used	Yes - fully encapsulated
	Manufacturing	By contractor at facility or in the field	ISO Certified 9001:2015 facility
	Outer Film	Inversion installations, not typically provided	Yes
	Tube Material	Felt/Polyester	Fiberglass
	8" Pipe Typical Liner Thickness	6 mm	3.5 mm
	Diameter Ranges	4" to 124"	6" to 72"
	ASTM Installation Standard	F1216, F1743	F2019
	Installer Qualifications	Varies with installer	Installer certification required
	Installation	Inverted or Pull in	Pull in
	Liner Inflation	Water or Air	Air
	Effect of Cold Spots in Soil	Additional cure time required	None
	Liner Inspection BEFORE Curing	None	CCTV Inspected

*Initial E modulus tests using curved specimens requires a pass value that is 85% or higher to compensate for the variance caused by lab testing devices (ASTM F2019-20). Reline America uses an additional 5% safety factor by lowering third-party test reports 5% prior to applying design criteria.

You're Invited...

to visit Reline America® Inc. for an informative and educational experience.

Your tour will include the equipment and electrical shops, liner production areas along with our research and development laboratory.

You will have an opportunity to meet the people who are an integral part of your Reline™ experience.

CONTACT



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