

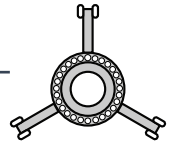
RELINE
AMERICA



Strong American Trenchless Solutions
for Strong American Infrastructure

relineamerica.com

PART OF THE
RELINE UV
GROUP

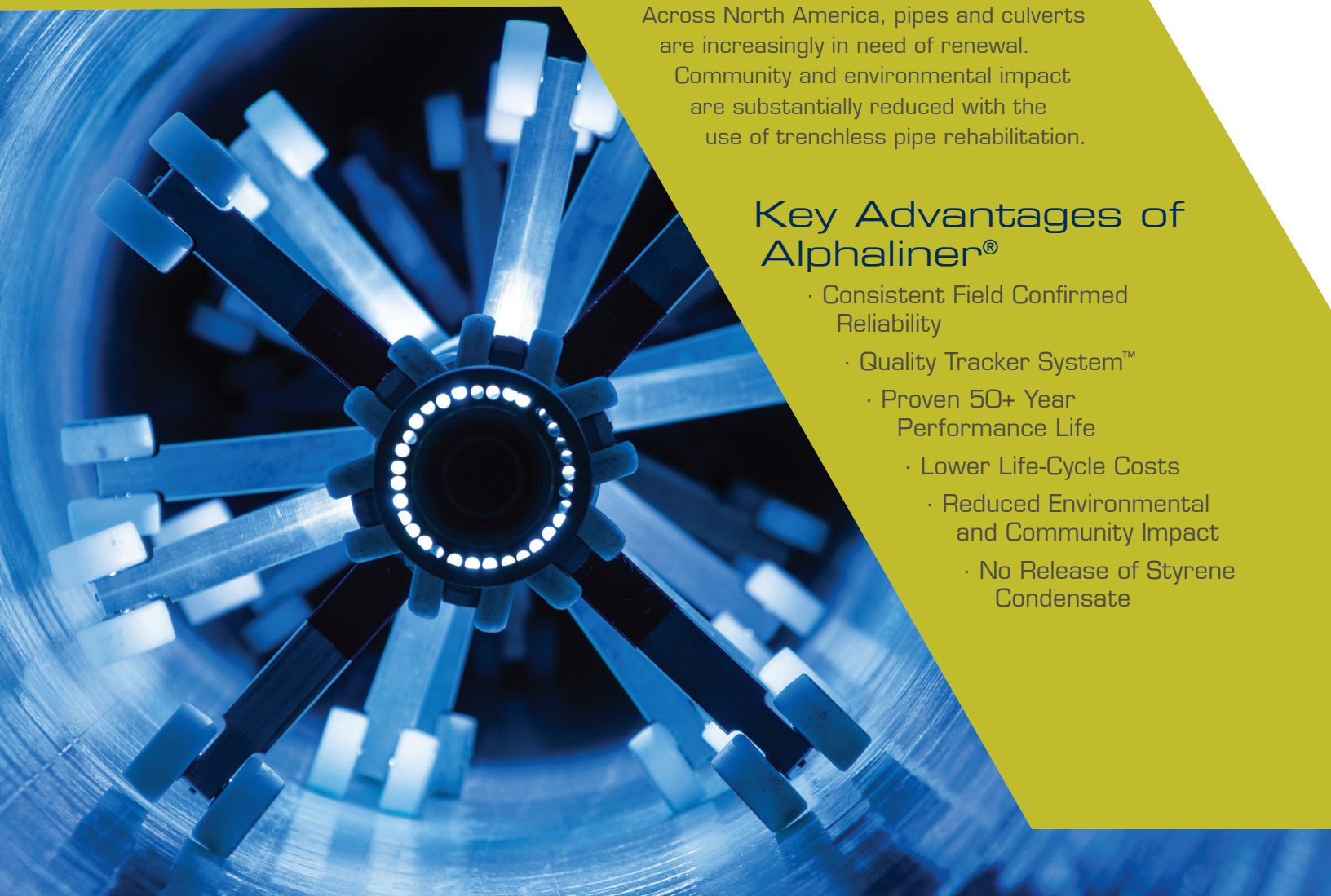


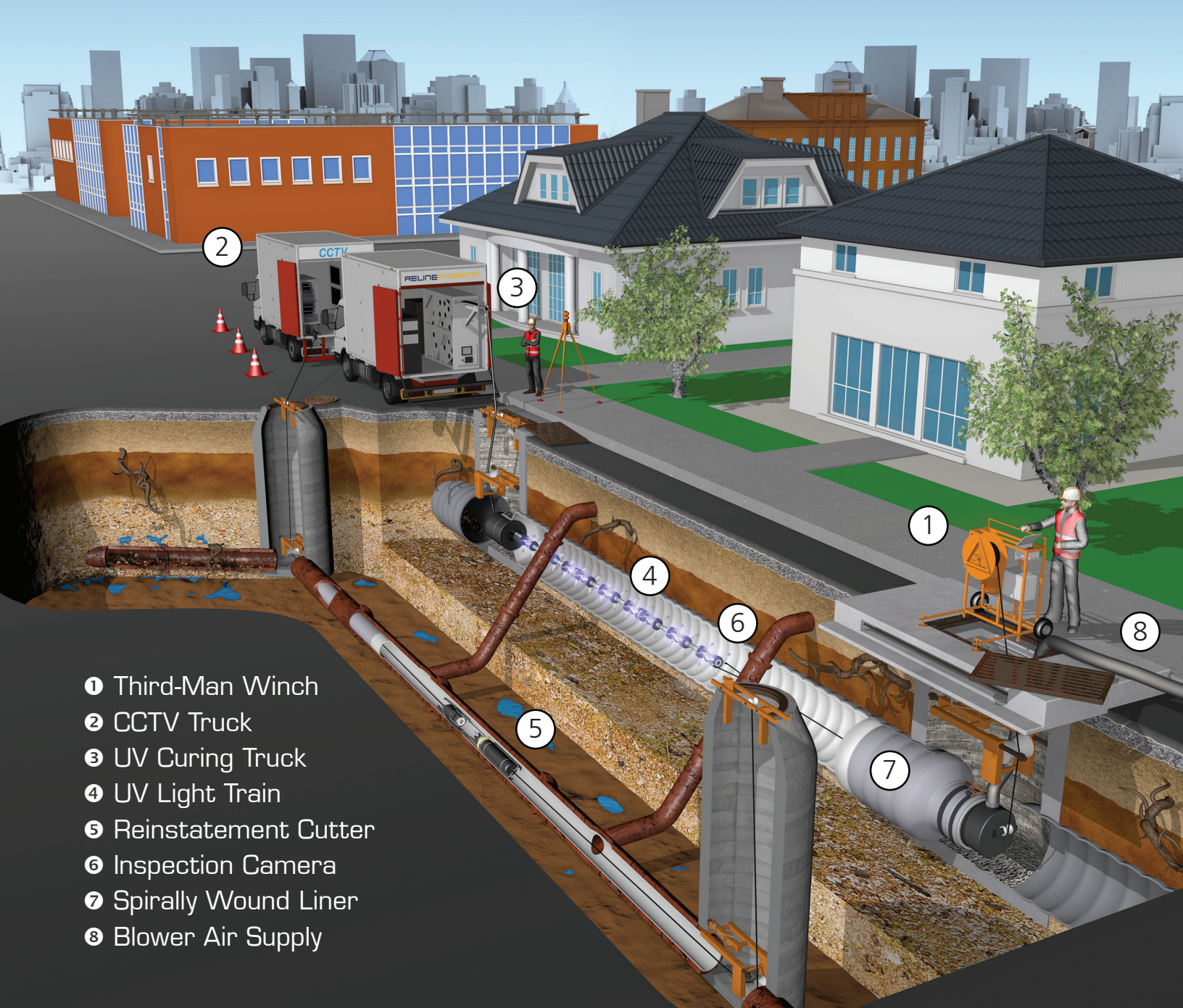
Why UV Glass Reinforced Pipe (UV GRP) and Alphaliner[®] by Reline[™]

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

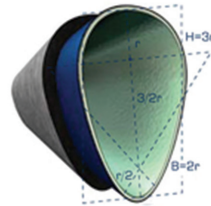
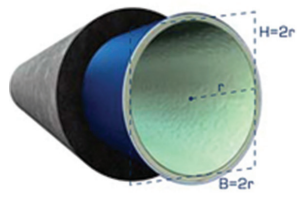
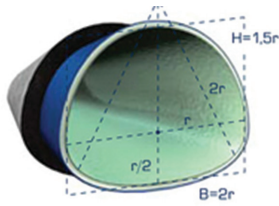
Our in-house laboratory tests raw materials and liners throughout the manufacturing process.



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 1500 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.

RELIN
AMERICA®

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 | 1,370,000 psi Alphaliner® 500 1,740,000 psi Alphaliner® 1500 2,550,000 psi Alphaliner® 1800H |
| | Adjusted Long Term Flexural Modulus (50 Year Life Results) | 125,000 - 225,000 psi | 856,000 psi Alphaliner® 500 1,300,000 psi Alphaliner® 1500 2,170,000 psi Alphaliner® 1800H |
| | Initial Flexural Strength | 4,500 - 5,000 psi | 26,000 psi Alphaliner® 500 40,000 psi Alphaliner® 1500 50,000 psi Alphaliner® 1800H |
| | Liner Reinforcement | None | ECR Fiberglass |
| | Porosity of Cured Liner Pipe Wall | Not tight | Tight |
| | Pre-Liner | Not routinely used | Yes - fully encapsulated |
| | Manufacturing | By contractor at facility or in the field | ISO Certified 9001:2015 facility |
| LINER & GENERAL INFORMATION | 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 |

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



116 Battleground Avenue
Saltville VA 24370 USA



866.998.0808 toll free
276.496.4000



info@relineamerica.com

RELINEAMERICA.COM

RELINE UV®
EUROPE

RELINE UV®
JAPAN

RELINE UV®
AMERICA

RELINE UV®
CHINA

RELINE UV®
MIDDLE EAST

RELINE UV®
ASEAN

RELINE
GROUP