

Allan Edwards: Company Overview & Product Presentation



Our Story

- **Founding**
 - 1947
- **Founder**
 - Allan Edwards, Sr.
- **Story**
 - Originally a contractors' rep company
 - Sold refinery products & different pipeline products
 - Founded on creativity & innovation



What Changed?

- Post-WWII steel shortage
- Allan Sr. saw opportunity to invent concrete bolt-on weight in 1948
- Patented design, routinely sent off designs for manufacturing
- Moved bolt-on manufacturing in-house
- Grew up to 30 engineers, 4 different offices
- Began selling steel repair sleeves in 1950



Products

- **New Construction / Buoyancy Products**

- ECOBAG Geotextile Pipeline Weights
- Concrete Set-on / Bolt-on Weights
- Concrete Coating
- SOFT-SET™ Pipe Supports

- **Integrity & Repair Products**

- Steel Repair Sleeves
- Pipe Jacks
- Safety Clam™ Pipe Protection Tool
- OmegaWrap™ Composite Repair System
- ThetaWrap™ Compression Sleeve

THETA  WRAP™

OMEGA  WRAP™



SAFETY
CLAM 



REPAIR
SLEEVES



ECO  BAG
PIPE WEIGHTS

SOFT  SET
PIPE SUPPORTS

Integrity & Repair

Steel Repair Sleeves

- Half sole repair sleeves (normally 180-degree halves, come with backing strip)
- Offered milled or non-milled
- Girth weld sleeve (Style 3)
- Weld sleeve extension
- Bridging sleeve
- Offset sleeve
- Low profile sleeve



Sleeve Testing & Studies

- Dent Study: Study to Evaluate Sleeve Performance
- JIP Study: Testing Program for Allan Edwards Sleeves
- Burst Test of a 24-inch Leaking Pipe Repaired with a Type B Sleeve
- Certificate of Quality



New Products

New Construction / Buoyancy

SOFT-SET™ Pipe Supports

- Supports & cushions pipeline against damaging surrounding rocky terrain in ditch
- Protects pipelines against dents, scratching, gouging
- No hard edges or stress points
- No specialized equipment or personnel needed in the ditch
- Minimum 4x safety factor





Integrity & Repair

Safety Clam™ Pipe Protection Tool

- Steel shell with interior polyurethane lining
- Provides temporary line strike prevention & damage protection during excavation
- Provides multiple & foreign line crossing protection in same ditch
- Short Video!



Integrity & Repair

OmegaWrap™ Composite Repair System

- Made up of fabrics (stitched e-glass or carbon fiber)
- Epoxy resin saturant
- Epoxy putty/filler to fill any voids or anomalies on the pipeline exterior
- Uses a computer-based calculator to determine the number of wraps per repair area
- Allowed to cure enough to be able to backfill the exposed pipeline
- Short video!



OmegaWrap Product Review

- Both systems are PCC-2 qualified
- OmegaWrap Ally system
 - E-glass reinforcing fabric
 - Epoxy saturating resin and load transfer material
 - Ultimate strength approx. 100 ksi stronger than most pipeline steel
 - Half as stiff as Carbon
- OmegaWrap Elite system
 - Carbon reinforcing fabric
 - Epoxy saturating resin and load transfer material
 - Ultimate strength approx. 100 ksi stronger than most pipeline steel
 - Twice as stiff as E-glass



Training

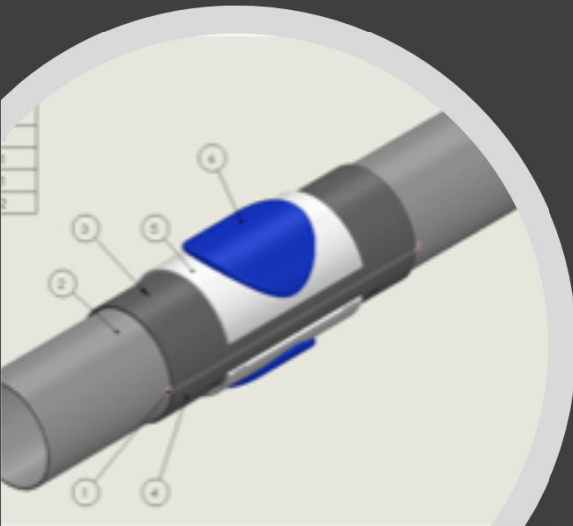
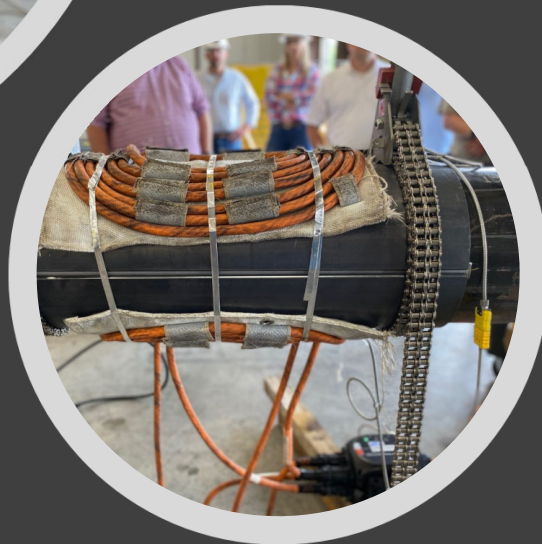
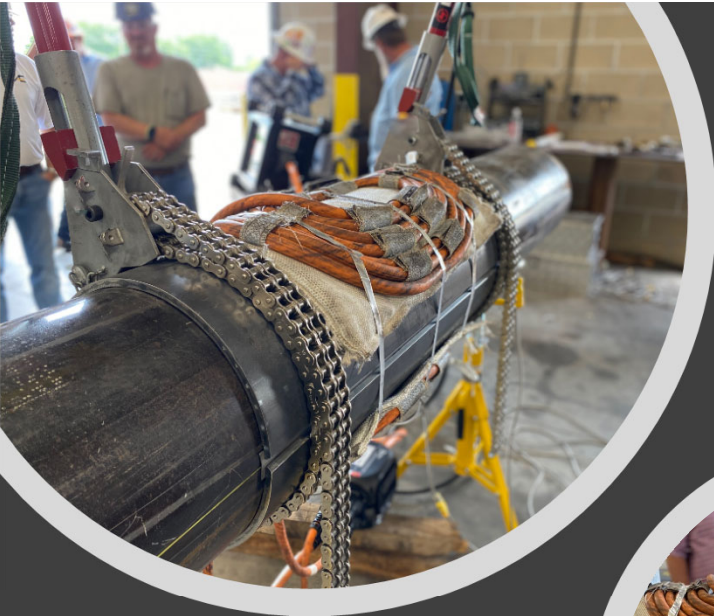
- Several types of trainings available:
 - Regularly scheduled local training
 - On-site training offered for customers
 - Annual re-certification



Integrity & Repair

ThetaWrap™ Compression Sleeve

- Thermal repair system
- Application: heat applied using induction system, causing sleeve to expand (stretch)
- When the sleeves cool, they place the pipeline in compression
- Suited for pipelines with crack-like features or laminations
- Compression inhibits crack growth caused by cyclic pressure

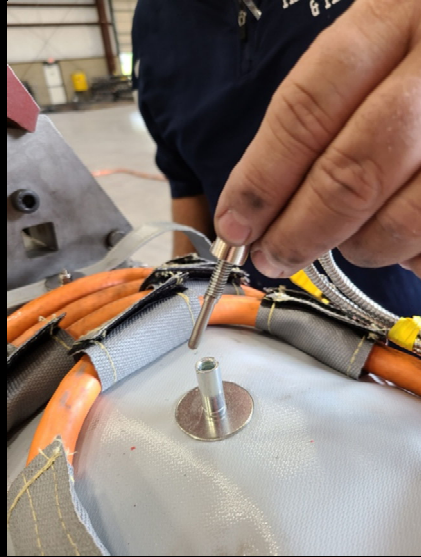


Understanding the ThetaWrap™ Compression Sleeve

- The ThetaWrap sleeve is an induction compression sleeve
- Categorized as a Type A repair
- Heat introduced to expand the two steel halves shells prior to welding
- Welding locks the sleeves together in the expanded state
- As the sleeve cools, it applies a compressive load to the carrier pipe and reduces stress in the pipe, which translates to extended fatigue life of defects



Early Concept



Current Developments



Training

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