

XPipe™

FUTURE PIPELINE TECHNOLOGY TODAY

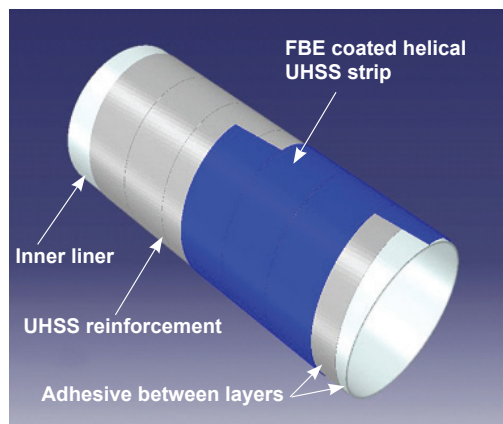
XPipe™ is a high-performance metallic composite pipe suitable for onshore oil and gas pipelines in a wide variety of sizes and design requirements. Unlike conventional line pipe that is manufactured in a pipe mill and then transported to the construction site, XPipe can be produced at the job site using a portable manufacturing line, greatly reducing the logistics burden.

The products that are able to be transported using XPipe are virtually limitless, due to the use of a Corrosion Resistant Alloy (CRA) liner and Ultra-High Strength Steel (UHSS) reinforcing strips.

New pipeline manufacturing technology



Application of UHSS reinforcement



XPipe structure

Benefits

Benefits

HSE

- Reduced risk of fatalities and injuries due to dramatically less vehicle movement, fewer loadings and lighter materials
- Reduced transportation requirements and subsequent lower vehicle emissions

Quality

- Allows greater throughput than a conventional pipe of the same outside diameter due to thinner pipe wall and low friction factor
- Customized inspection technologies provide complete quality control over the full length of pipe

Cost

- Substantial capex savings versus conventional pipeline construction
- Significantly reduced welding and logistical costs
- Field construction rates comparable with currently achieved pipeline construction projects, but with significantly less lead-time for material procurement

XPipe Logistics Advantage

Conventional Pipeline

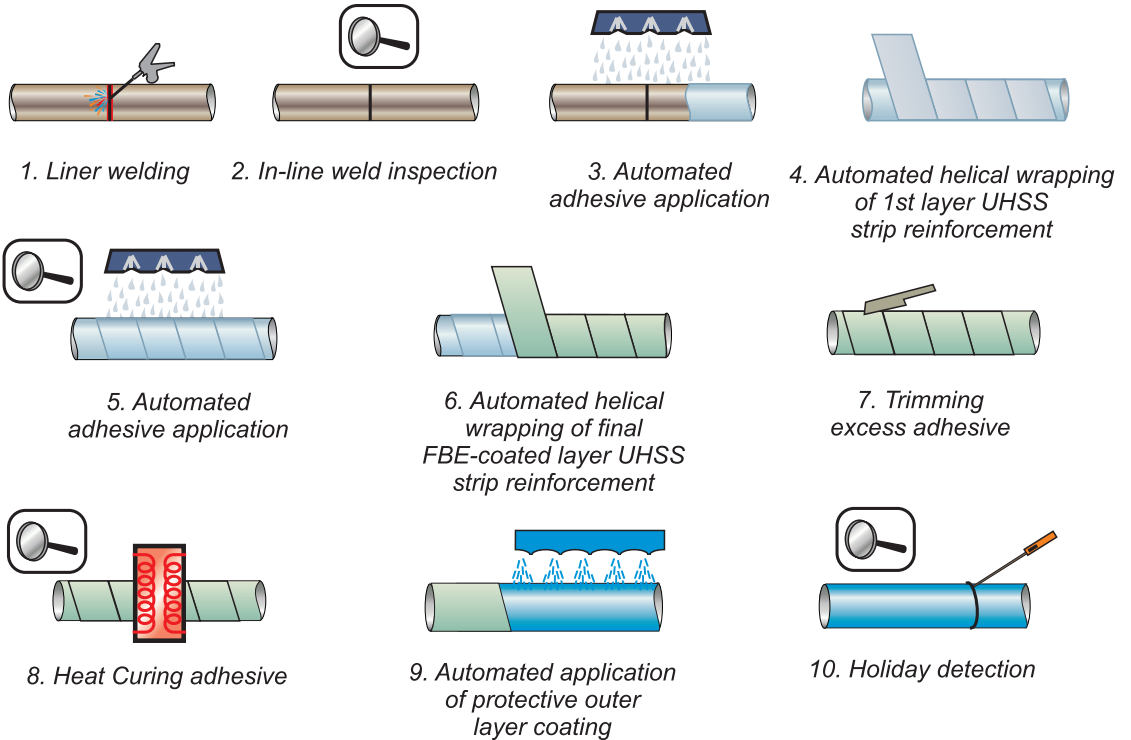


Pipestream XPipe



XPipe™ - Future Pipeline Technology Today

Process Flow



Highlights of testing performed (6" XPipe)

Pressure testing (cyclic) <i>(including elevated temperature cycles)</i>	30,000 cycles to MOP
Pressure testing (burst)	270 bar (3,900 psi)
Axial compression testing	600 bar (8,700 psi)
Full scale pipe shoe bending <i>(including pressure testing of bent samples)</i>	6.6° per m (2.0° per ft.)
Hydrogen embrittlement testing	Negligible embrittlement
Various coating system tests <i>(including cathodic disbondment)</i>	Meets requirements of CAN/ CSA Z145

Applications



Onshore



Oil and Gas



Biofuels



Other corrosive fluids

Note: Extensive design qualification based on best practices from ASME B31.4 and B31.8



XPipe field trial in 2008

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