

Robotic Pipe Inspection Systems

Our autonomous, tether-free robotics crawlers target internal inspection of small-diameter pipes and non-piggable pipelines. Our tools' competitive advantages include the ability to slow down, stop, and reverse direction to more thoroughly inspect portions of pipe with suspected damage, and the ability to negotiate severe bends including one-diameter 180-degree bends. They encompass the following features:

- Autonomous Locomotion (Forward and Reverse)
- Tether-Free Operation
- Ability to Negotiate Severe Bends Including One-Diameter 180-Degree Bends
- Wall Thickness Measurements
- Detection of Pipe Imperfections Including Inside and Outside Surface Corrosion, Pitting and Cracks
- Accommodation of Variations in Pipe Diameter
- Sustainable On-Board Energy Source
- Miniaturized on-Board Sensors
- Data Storage Capabilities
- Software for Automated Data Analysis