

# RoGeo XT Service

## Exceptionally Detailed Inspections Detecting ID Threats

Pipeline assets are at risk of reduced operational performance, damage and eventual failure because of geometrical deformation. High-resolution in-line inspection (ILI) and mapping of your pipelines can detect, categorize and locate deformation, enabling you to act before minor damage turns into a major shutdown.

You cannot predict geohazards, climate extremes or the actions of third parties that might damage your pipelines. However, you can design and implement a holistic and integrated geometric deformation risk management strategy. This reduces your risk and, as part of a wider integrity management framework, can identify multiple threats to further safeguard your pipeline assets.



Optimize  
pipeline uptime  
and performance



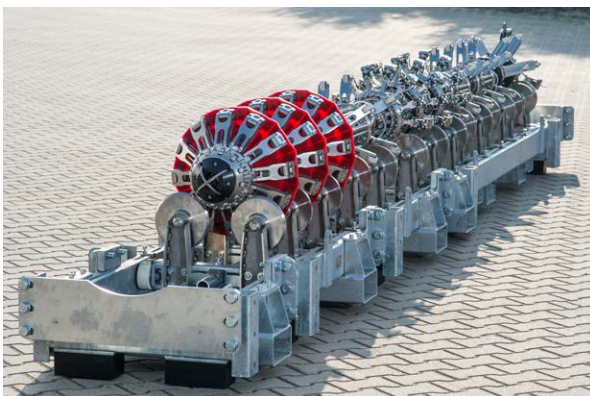
World's largest ILI tool  
fleet ensures high  
availability



Enables integrity  
assessments of buried  
and offshore pipelines

Featuring a unique dual sensor combination, our RoGeo XT in-line inspection solution maps the location and details of internal diameter (ID) anomalies to an exceptional level of detail. Mechanical calipers partnered with eddy current proximity sensors provide full circumferential and axial coverage. Inaccurate assessments are avoided as this sensor combination distinguishes between scale and wax deposits, lift-off and geometric anomalies.

- Precise stress and strain assessments highlight combined threats
- Enables the detection of coincident features
- Retains accuracy under debris or tough conditions



### RoGeo XT Detects Multiple Threats to Assure Your Pipeline Integrity

- Industry-leading accuracy and data quality through unique dual sensor technology
- Minimizes conservatism of integrity assessments based on exceptionally detailed anomaly profiles that uncover ovality, dents, buckles, bending and stress-induced features
- Quantitatively determines the level of scale, wax and debris to accurately inform or adapt your pipeline cleaning program
- Operates in liquid and gas pipelines both at high and low medium velocities - Thoroughly tested to be compliant with common codes, standards and regulations
- Accurate assessments of dents with metal loss in combination with our RoCorr Services
- Well-proven tools deliver consistent data quality with a first run success rate of 95%

# RoGeo XT Service

## Exceptionally Detailed Inspections

### Detecting ID Threats

### Technical Specifications

#### Standard Operating Specifications

<b>Tool sizes available</b>	6" - 56"
<b>Pipeline product</b>	Gas or liquids
<b>Product temperature range</b>	0 °C - 65 °C (32 °F - 149 °F)
<b>Maximum operating pressure</b>	15 MPa (2,175 psi) 25 MPa (3,625 psi) optional
<b>Operating speed range</b>	Up to 5.0 m/s (11.2 mph)
<b>Product flow range*</b>	Up to 12.0 m/s (26.9 mph)
<b>Minimum pipeline bend radius</b>	1.5D
<b>Maximum operating time</b>	400 hours
<b>Maximum inspection length</b>	1.000 km (620 miles)
<b>Minimum clearance/passage</b>	80 % of nominal diameter

\* Fitted with optional speed control system (gas lines only)  
Note: Please contact ROSEN for conditions outside of these specifications.

### Remarks and Features

- API 1163 compliant services
- CE and ATEX certification available
- Tailored solutions with different specifications upon request: multiple tool sizes or multi-diameter tools, higher pressure rating
- Contact ROSEN for more detailed information about the presented service
- Specifications are subject to change, depending on specific requirements or tool configurations

#### Performance Specifications

Feature	OD [inch]	Accuracy <sup>1</sup>	Detection Threshold	
<b>OD<sup>2</sup> Changes</b>		±0.8 mm (0.03")	0.8 mm (0.03")	
<b>Ovalities</b>	Ovality	±0.5 %	0.5 %	
	Length	±15 mm (0.59")		
	Orientation	±12°		
<b>Dents<sup>3</sup></b>	Depth	<10"	±0.5 %	1.0 %
		10" - 16"	±0.5 %	0.8 %
		18" - 28"	±0.3 %	0.5 %
		30" - 38"	±0.2 %	0.3 %
		40" - 56"	±0.15 %	0.2 %
	Length	±7.6 mm (0.30")		
Width	±25.4 mm (1.00")			
Orientation	±12°			

<sup>1</sup> Values are given for a certainty level of 80 % and a POD of 95 %

<sup>2</sup> Or ID, respectively

<sup>3</sup> Including wrinkles and buckles

<sup>4</sup> Dent definition:

