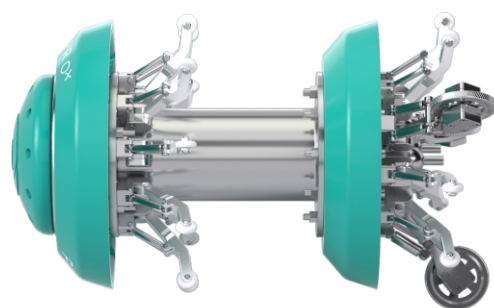




Single-section structure

Passes 1.5D bends, 10% restrictions, and 25% OD dents

Full-circumference, blind-zone-free geometry inspection



BETTER PIGPROX BETTER SOLUTION

Deyuan Technology Co., Ltd.

Website: www.pigprox.com

Email: info@pigprox.com

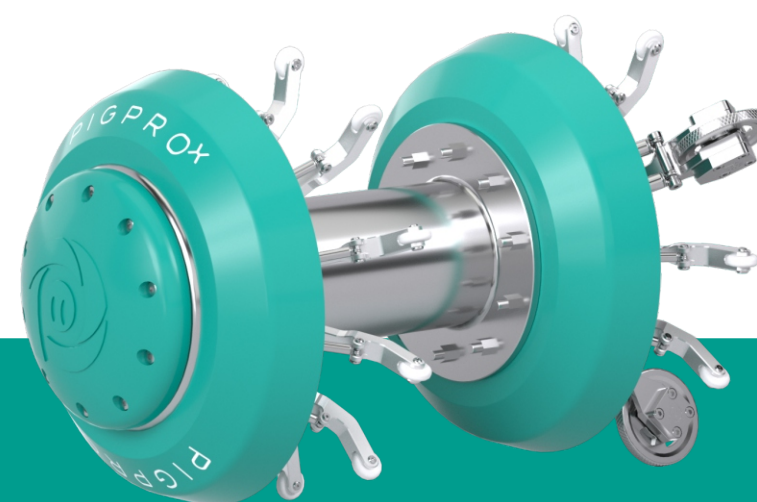
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PIGPROX

FlexiGauge Intelligent Pig

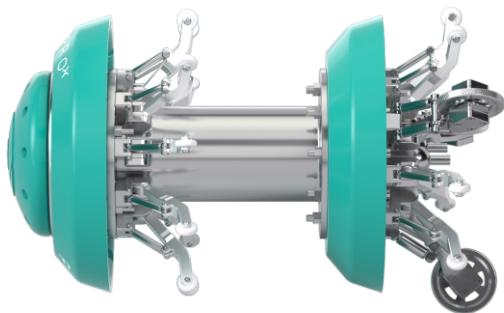
Measuring ID, ovality, dents, wrinkles, and other geometric anomalies



Deyuan Technology Co., Ltd.

FlexiGauge Overview

PIGPROX FlexiGauge Intelligent Pig, is a geometry ILI tool designed to measure bore profile, ovality, dents, wrinkles, bore restrictions, and other geometric anomalies. With a compact single-section structure, it provides high passability and low differential pressure, helping operators identify deformation risks and obtain reliable geometry data for integrity management, risk assessment, and safe operation.



PIGPRO[×] FlexiGauge Intelligent Pig

Features & Benefits

- 01

Compact single-section design

Shorter and lighter structure, passing 1.5D bends, 10% bore restrictions, and 25% OD single-dent deformation with low stuck risk.
- 02

Ultra-low startup differential pressure

Lightweight design with startup differential pressure as low as 0.1 MPa (14.5 psi), suitable for low-pressure and low-flow pipelines.
- 03

Blind-zone-free geometry inspection

With a dual-ring crossed caliper arm configuration, FlexiGauge achieves dense and uniform full-circumference coverage, enabling reliable detection and accurate locating of minor deformations.
- 04

Long-distance stable acquisition

Low-power hardware and wear-resistant cups support long-duration continuous inspection and stable full-line geometry data.
- 05

Adaptable to challenging pipelines

Modular design supports branch lines, aging pipelines, urban networks, dense-bend routes, and various standard or non-standard launching facilities.

Applications

- 01

New pipelines:

Pre-commissioning inspection
- 02

Periodic inspection:

Baseline & trend comparison
- 03

Post-event inspection:

After deformation, damage or disasters

Technical Specifications & Sizing Accuracy

Item	PIGPROX FlexiGauge Intelligent Pig
Applicable Diameter	Φ 159 mm – Φ 1422 mm
Applicable Medium	Gas and liquid pipelines
Compatible PIG Trap	Standard PIG trap , PIG valve, short spool, temporary launcher & receiver
Bend Passability	≥1.5D
Deformation Passability	≤25% OD single-dent deformation
Startup Differential Pressure	≥0.1 MPa (≥ 14.5 psi)
Operating Speed	0.1 – 5.0 m/s (0.33 – 16.4 ft/s)
Operating Temperature	–20 to 80 (–4 to 176); Customization available for higher temperature ranges
Operating Pressure	≤10 MPa (≤ 1,450psi); Customization available for pressures above 10 Mpa
Battery Life	Standard: 100 h; longer battery life available upon request
Geometric Anomaly Detection Capability	Dents, wrinkles and ovality deformation

Geometric Sizing Accuracy				
Feature Type	Detection Threshold at POD = 90%	Accuracy at 90% Certainty		
		Od ≤ 406mm	406mm < OD < 1016mm	Od ≥ 1016mm
Wall Thickness Variation	1.5mm	± 1mm		
Ovality	1%	± 1%		
Dent	1%OD	± 2mm	± 3.5mm	± 5mm

Sizing Accuracy at 90% Certainty	
Axial Location Accuracy (from adjacent girth weld)	± 0.1 m
Circumferential Location Accuracy	± 15°