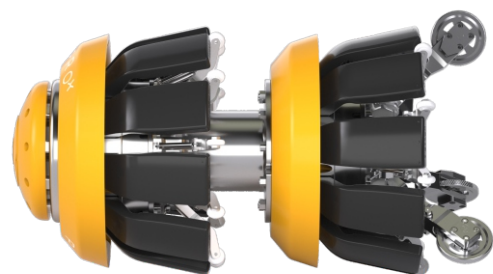




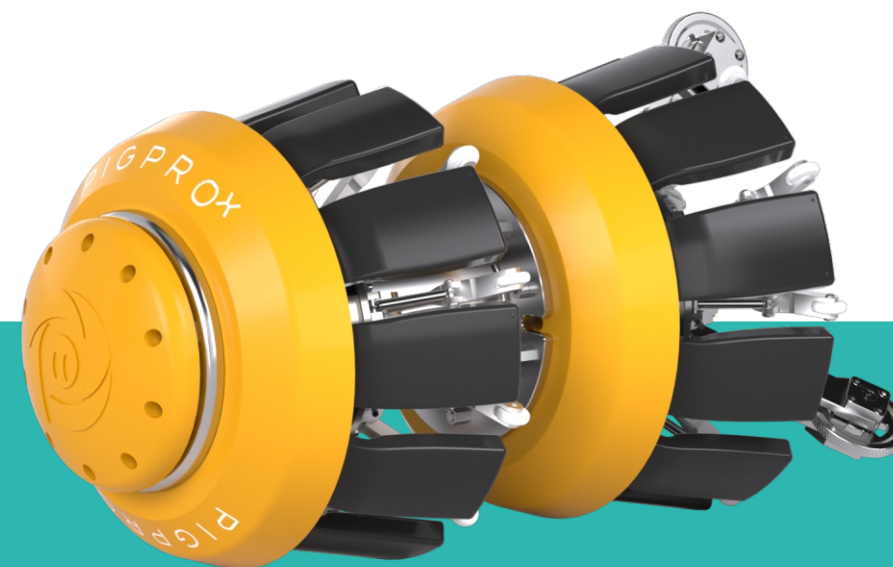
PIGPROX

BETTER PIGPROX BETTER SOLUTION



GeoPara Intelligent Pig

Integrated Electronic Geometry and Multi-Parameter ILI



Deyuan Technology Co., Ltd.

Website: www.pigprox.com

Email: info@pigprox.com

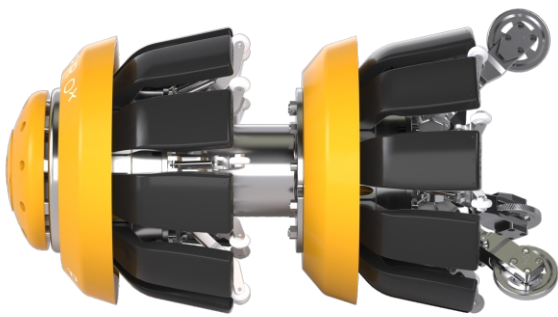
Tel: +86 28 8531 3153

Address: Rm 1801, Unit A, Zhonghang International Exchange Center,
777 North Yizhou Street, High-Tech Zone, Chengdu, China

Meter-by-meter real temperature, pressure, and flow velocity data

GeoPara Overview

FIGPROX GeoPara Intelligent Pig, is a multi-parameter geometry ILI tool that integrates high-accuracy electronic geometry measurement with temperature, pressure, and flow velocity acquisition. It detects geometric anomalies such as ovality, bore restrictions, deformation, and dents while mapping pipeline geometry and operating parameter profiles, providing multi-dimensional data support for integrity assessment, risk management and safe operation.



FIGPROX GeoPara Intelligent Pig

Features & Benefits

01 End-to-end pipeline surveillance

Continuously acquires temperature, pressure, flow velocity, and geometry data along the pipeline, filling monitoring gaps between stations and valve chambers. The integrated data helps distinguish process fluctuations from actual defects and supports risk management hidden-leakage identification and integrity management.

02 Smart dispatching and lower energy consumption

Accurately captures flow velocity and flow data at key sections to support optimized gas or oil source allocation, upstream/downstream operation matching, reduced pressure loss, and lower operating costs.

03 High passability and low blockage risk

Passes through 1.5D bends, 10% bore restrictions, and 20% OD single-dent deformation, enabling safe and reliable inspection in complex pipeline routes.

Technical Specification & Sizing Accuracy

Item	FIGPROX GeoPara Intelligent
Applicable Diameter	6" to 56"
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	≤ 20% OD single-dent deformation
Startup Differential Pressure	≥ 0.1 MPa (≥ 14.5 psi)
Operating Speed	0.1 – 5 m/s (0.33 – 16.4 ft/s)
Operating Temperature	–20°C to 80°C (–4°F to 176°F); customization available for higher temperature ranges
Operating Pressure	≤ 10 MPa (≤ 1,450 psi); customization available for pressures above 10 MPa
Battery Life	Standard: 20 h; longer battery life available upon request
Detection Scope	Geometric deformation, temperature, pressure and flow velocity
Feature Identification Capability	Girth welds, tees, bends, valves, flanges, branch connections, etc.
Defect Detection Capability	Dents, wrinkles, ovality deformation, and sediment thickness, including metallic and non-metallic deposits

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

Temperature and Pressure Measurement Accuracy	
Temperature Measurement	± 0.2° C (± 0.36° F)
Pressure Measurement	± 0.05 Mpa (± 7.25 psi)