



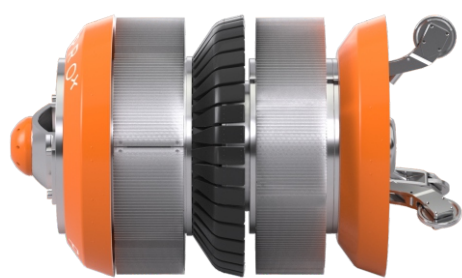
PIGPROX

SMFL Intelligent Pig

Single-Section Design

Pass 1.5D Bends With Excellent Passability and Low Stuck Risk

Startup Differential Pressure As Low As 29psi (24" as example)



Single-Section Design / Low Differential Pressure / Excellent Passability



BETTER PIGPROX BETTER SOLUTION

Comply With API 1163 & POF 100 Standard

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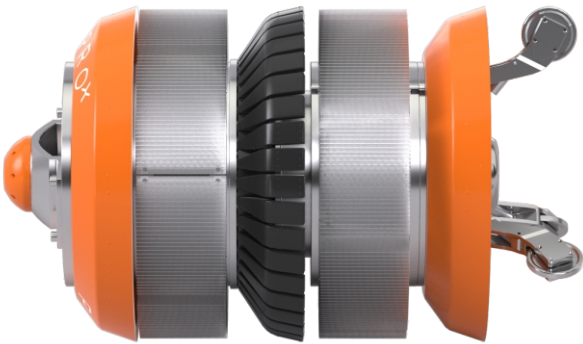
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Deyuan Technology Co., Ltd.

SMFL Overview

PIGPROX SMFL, Single- Section MFL intelligent PIG, is patented and independently developed by Deyuan Technology Co., Ltd. (DYT). With its one-section structure, the PIG features short length and compact layout, providing excellent passability and low startup differential pressure. Comply with API 1163 and POF100 standards, it offers reliable performance for challenging pipeline.



PIGPROX SMFL Intelligent Pig

Features & Benefits

01 Better passability with compact single-section design

Shorter and lighter PIG, capable of passing 1.5D bends and 15% OD single-dent deformation with reduced stuck risk.

02 Ultra-low differential pressure

Startup differential pressure as low as 0.2 MPa (29 psi) (24" as example), suitable for low-pressure and low-flow pipelines.

03 Fast modular customization

Tool dimensions and inspection configurations can be quickly adjusted for pipe size, site conditions, and launching space.

04 Lower failure rate

No inter-section joints, hinges, or connecting cables, reducing mechanical failure risks during long-distance inspection.

05 Easy launching and receiving

Compact size and simple handling improve field efficiency and reduce operation costs.

Technical Specifications & Sizing Accuracy

Item	PIGPROX SMFL Intelligent Pig
Applicable Diameter	20" to 56"
Applicable Medium	Gas and liquid pipelines
Applicable Materials	Ferromagnetic steel pipelines
Compatible PIG Trap	Standard PIG trap, PIG valve, short spool, temporary launcher&receiver
Bend Passability	≥ 1.5D
Deformation Passability	≤ 15% OD single-dent deformation
Startup Differential Pressure	≥ 0.2 Mpa (≥ 29 psi)
Minimum Operating Pressure	≥ 0.5 MPa (≥ 72.5 psi)
Operating Speed	0.5 – 5 m/s (1.64 – 16.40 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
Wall Thickness Range	6 – 15 mm carbon steel
Battery Life	Standard: 100 h; longer battery life available upon request
Feature Identification Capability	Girth welds, tees, bends, valves, flanges, insulating joints, taps, etc.
Defect Detection Capability	Internal and external metal loss, dents, wrinkles, and weld anomalies

Item	General Metal Loss	Pitting	Axial Grooving	Circumferential Grooving
Detection Threshold at POD=90%	10%t	10%t	20%t	10%t
Depth Sizing Accuracy at 90% Certainty	± 10%t	± 10%t	± 15%t	± 15%t
Width Sizing Accuracy at 90% Certainty	± 15mm	± 15mm	± 15mm	± 15mm
Length Sizing Accuracy at 90% Certainty	± 10mm	± 10mm	± 10mm	± 10mm
Axial Positioning (with adjacent girth weld) Accuracy at 90% Certainty	± 0.1m			
Circumferential Positioning Accuracy at 90% Certainty	± 5°			