

KRAUTKRÄMER PAXYS



Portable Phased Array Scanner for Corrosion Mapping in the Oil and Gas Industry

- X/Y dual-axis encoded scanning increases inspection throughput and reduces asset downtime
- Minimizes operator dependence to deliver reliable thickness data and clear C-scan visualizations
- Ultra-portable design (<1 kg) for efficient single-person operation in challenging oil & gas environments



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RETHINK YOUR CORROSION MAPPING WORKFLOW

For asset owners and inspection service providers in the oil and gas industry, corrosion thickness mapping with conventional UT has traditionally been a slow and labor-intensive process. Relying on manual gridding often leads to inconsistent, operator-dependent datasets and makes degradation trends harder to communicate.

The continuous push to minimize operational downtime drives the need for faster, more predictable inspections. But moving to complex Phased Array UT (PAUT) systems typically requires significant investments in training and equipment.

Krautkrämer PAXYS offers a highly practical alternative as it seamlessly transitions teams to an efficient, scanner-based workflow. Inspection personnel can now easily capture repeatable thickness data and clear C-scan visualizations without the setup and training complexities of high-end PAUT platforms.



Miniaturized technology, maximum performance

The patented technology of comPact compresses the functionality of PA electronics into a thumb-sized chip. This miniaturization reduces the volume and weight of the PA electronics by 100 times and decreases power consumption by 20 times compared to traditional PA instruments, allowing the scanner to be easily powered via a standard USB connection.

Minimal size and light weight offer maximum flexibility, resulting in a high-performance

device weighing less than 1 kg. With comPact, Krautkrämer PAXYS paves the way for lighter, simpler, and more accessible portable phased array inspections for a whole new community of field professionals.

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Inspect with greater speed and reliability

Encoded scanning significantly reduces the inspection time per area, directly supporting tighter maintenance schedules. By minimizing the operator's influence on probe placement and coupling, Krautkrämer PAXYS leads to more consistent thickness datasets and fewer re-scans. The resulting C-scan corrosion maps vastly improve the visibility of wall-loss patterns, ensuring better communication with integrity engineers and asset stakeholders

Empowering teams with unmatched portability

Krautkrämer PAXYS is designed to simplify deployment and drastically reduce operational complexity in the most challenging industrial environments. The entire system – including the scanner, pressure bottle, and a lightweight Windows tablet – fits into a single backpack.

This level of portability makes it the ideal tool for rope access work, confined spaces, or pipe inspections in trenches. Tasks that previously required at least two people can now be

managed efficiently and safely by a single inspector, optimizing workforce deployment and boosting overall productivity.

Superior stability on any surface

- The four-wheel design with integrated magnetic wear shoes ensures excellent load distribution and surface stability. The magnets in the wear shoes provide superior coupling to the surface, firmly holding the device in position on vertical or inverted structures – allowing operators to move freely without interrupting the scanning process.
- X/Y dual-axis encoding guarantees pinpoint accurate defect location by flawlessly tracking movement along both axes for highly defensible, repeatable data.
- The adaptable wear shoes feature integrated couplant channels. They are available in various radii to adapt perfectly to both flat and curved surfaces.
- Built for demanding conditions, since the robust scanner is designed to meet IP65 standards and operates reliably across a wide temperature range of -20 °C to +50 °C (-4 °F to 122 °F).



With Krautkrämer PAXYS, inspectors can easily capture repeatable thickness data and clear C-scan visualizations.

Connectivity and future-ready versatility

Krautkrämer PAXYS is a scalable platform purpose-built to expand across industries. Its modular architecture features interchangeable probe modules that transform the device into a multi-purpose tool across various ultrasonic inspection scenarios. With forward compatibility built in from day one, customers can address different challenges

by simply swapping a module rather than investing in separate instruments.

Seamlessly compatible with any standard Windows 11 tablet, laptop, or desktop, the system requires no proprietary hardware. Wi-Fi or cellular connectivity enables integration with customer networks for efficient data collection, storage, and analysis, while paired commercial tablets allow users to capture on-site photos directly for the final report.



Key Applications

- Corrosion thickness mapping and reporting for oil and gas assets
- Routine maintenance and outage inspections
- Rope access and confined space inspections



TECHNICAL SPECIFICATIONS

Krautkrämer PAXYS

Dimensions (L x W x H)	127 x 127 x 101.6 mm (5 x 5 x 4 inches)
Total Weight	< 1 kg (sub-1kg design)
Probe Module	• Dual Array, 5 MHz • 32 elements, 1.5 mm pitch
Probe Width	48 mm (1.89 inches)
Power Supply	5 V, 2.5 W Standard USB connection
Encoding	X/Y dual-axis encoding
IP Rating	Designed to IP65
Operating Temperature	-20 °C to +50 °C (-4 °F to 122 °F)
Wear Shoe Radii	101.6, 152.4, 203.2, 254, 304.8 mm (4", 6", 8", 10", 12") with integrated couplant channels
Standard Compliance	ISO 18563

Minimum System Requirements

Operating System	Windows 11
Software Platform	Acquire Software
Data Connection	USB port

Standard Package Contents

1. Krautkrämer PAXYS Scanner Platform
2. DA-5M-32-1.5p Array Probe Module
3. Acquire Software Platform
4. Five wear shoes (sizes as listed above)
5. Pressure bottle for water feed





CONTACT US!

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