

Technical Specifications

PECA PROBE

Pulsed Eddy Current Power. Array Productivity.

The standard pulsed eddy current array (PECA) probe is specifically engineered to maximize productivity for the detection of corrosion under insulation (CUI) and corrosion under fireproofing (CUF) in pipes, vessels, sphere legs, and more.

NEVER BEEN THIS FAST

Specifically designed for CUI and CUF inspections, the new 6-element PECA probe is capable of a single-pass coverage of 457mm (18in) in grid or high-resolution, dynamic mode. The wide coverage not only makes inspections faster than ever, but also minimizes inspection preparation with Grid-As-U-Go™. The coverage and accessory reduce gridding times dramatically compared to typical, single-element PEC. Displaying C-scans has never been this fast, improving overall inspection productivity up to 10 times.

NEVER BEEN THIS GOOD

With an inspection productivity faster than ever before, PECA technology now outperforms other CUI inspection techniques currently available on the market in most circumstances. PECA enables you to perform in-service inspections with no need to remove insulation, through a wide variety of coatings and weather jackets. PECA can penetrate the entire material thickness to detect internal and external corrosion, and provide relative wall thickness measurements. Finally, the system is safe, as the technique emits no radiation.

Eddyfi Technologies has revolutionized Pulsed Eddy Current Array (PECA™) testing with a probe specifically engineered to maximize productivity for the detection of Corrosion Under Insulation (CUI) and Corrosion Under Fireproofing (CUF) in pipes, vessels, sphere legs, and so much more.



PECA PROBE FEATURES

- 457mm (18in) single-pass coverage
- Grid-As-U-Go™ for quick and easy gridding
- Smooth acquisition over buckles and uneven surfaces
- Integrated locking mechanism to adjust to ODs from 152mm (6in) up to flat surface
- Two acquisition modes: grid and high-res dynamic
- Compatible with SmartPULSE™
- Compatible with the unique compensated wall thickness (CWT) tool

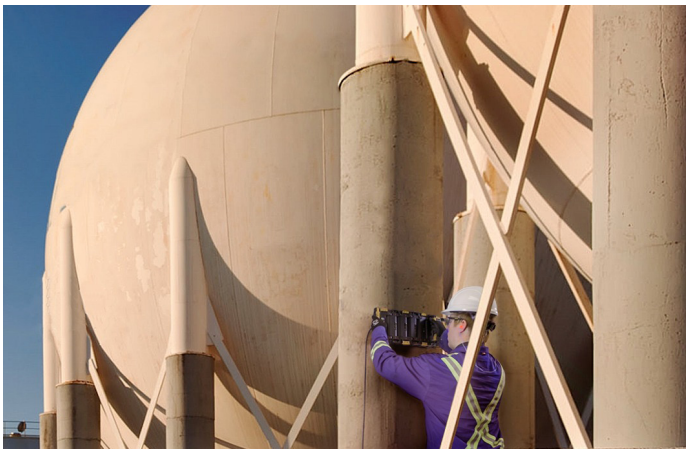


Figure 1: Sphere legs inspection with PECA.

BENEFITS OF USING PECA FOR CUI

- Inspects 100% of the wall thickness
- Provides relative wall thickness measurements
- Scans through a wide variety of coatings and weather jackets
- Unaffected by surface preparation
- Enables in-service inspections
- Safe for the operators, no radiation



Figure 3: Inspect pipe outer diameters from 152mm (6 in) up to flat surfaces.

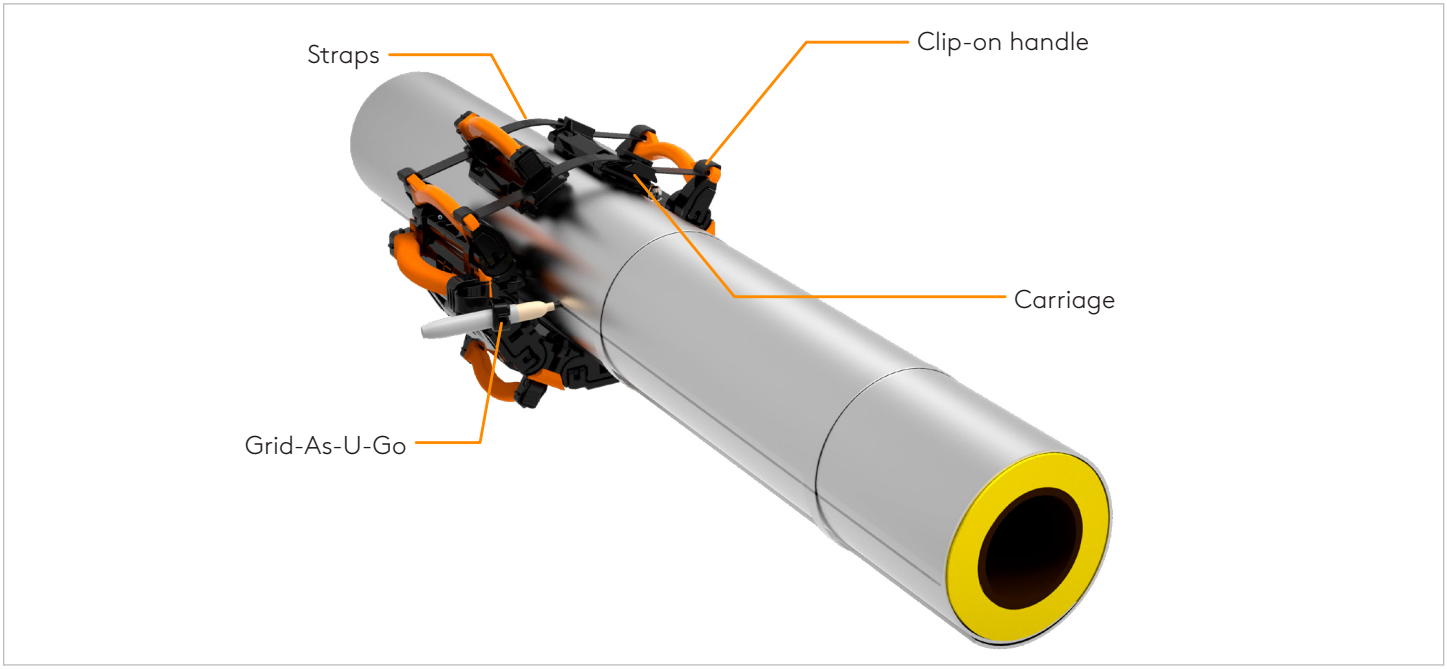


Figure 2: Annotated breakdown of the PECA probe.

SPECIFICATIONS

GENERAL	
Dimensions (W×H×D)	229×672×68mm (9.0×26.5×2.7in)
Weight	6.8kg (15lb)
Casing	Medium
Number of channels	6
Total coverage	457mm (18in)
Wall thickness	6–25mm (0.25–1.00 in)
Insulation/Coating thickness (liftoff)	0–102mm (0–4in)
Weather jacket thickness	Aluminum: 1mm (0.04in) Stainless steel: 1.5mm (0.06in)
Outer diameter range	152mm (6in) to flat surfaces w/ insulation/fireproofing and weather jacket
Encoder	16.04counts/mm (407.44counts/in)
Cable	5m (16.4ft)

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Eddyfi Technologies
Beyond current