Technical
Specifications

PECA™ HIGH RESOLUTION

The most reliable option for the inspection
of critical structures with scab corrosion

Eddyfi
Technologies

ENHANCED DETECTION

The Eddyfi Lyft® scab kit is a complete solution dedicated to providing the best estimate of remaining wall thickness under scale, surface-forming scabs and corrosion blisters.

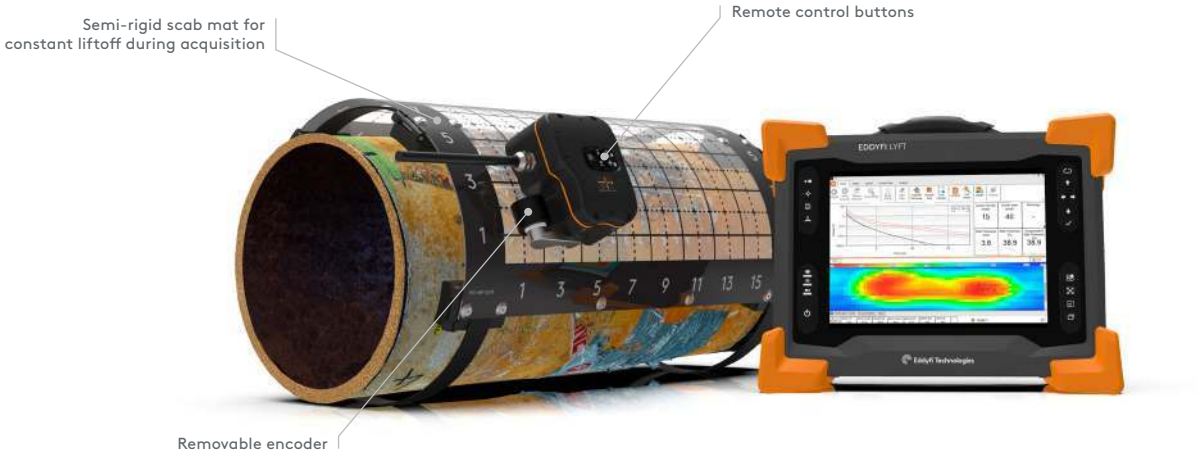
Acquisition of top-quality data at unrivalled speed

The patent-pending Pulsed Eddy Current Array (PECA) probe enables detection of the smallest possible defects with PEC technology within an adequate range of wall thickness and liftoff for scab assessment. The probe uses an array of dual sensors capable of spatial triangulation and can detect indications up to two times smaller than conventional PEC solutions.

With 75 mm (3 in) of coverage and an encoded, dynamic-scanning mode, typical scabs can be inspected in less than a minute! The array design generates clean, compelling C-scans and improved signal-to-noise ratio. The probe, combined with advanced real-time processing, a dedicated scab mode and a new scab mat, provides top-quality data at unrivalled speed.

THE SCAB KIT FEATURES

- Patent pending high-resolution PECA probe engineered with an array of dual sensors capable of spatial triangulation;
  - Dual sensor coil design
  - 75 mm (3 in) coverage in a single pass
  - Grid and encoded, dynamic scanning modes
  - Grid-As-U-Go™ tool
- Software with advanced real-time processing and a dedicated scab mode;
- Semi-rigid scab mat for constant liftoff during acquisition

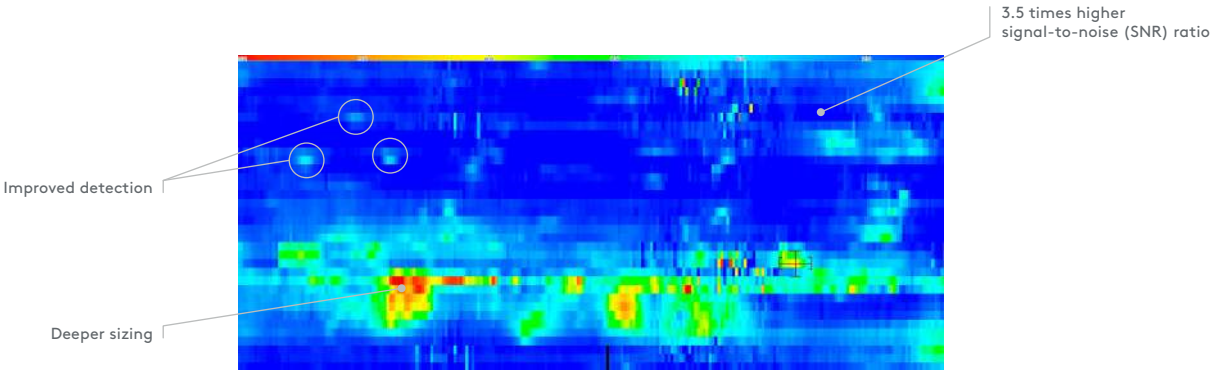


HIGH-PERFORMANCE PECA SOLUTION

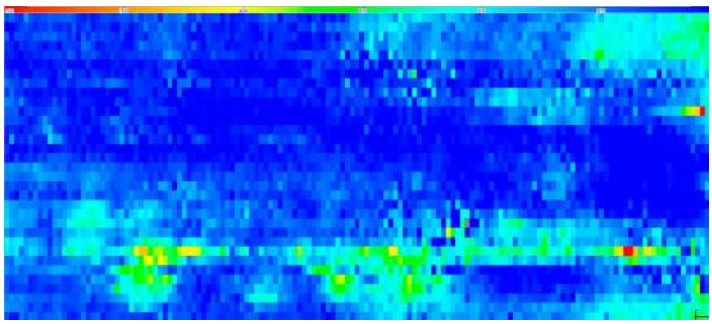
Since PEC technology does not require surface preparation,
the assessment of the remaining ligament can be performed while the asset is in service.
Moreover, the technique does not use radiation, providing a safe work environment.

Eddyfi Lyft Scab Kit Enables the Following

- Best estimation of the remaining ligament under scale corrosion, surface-forming scabs and blisters
- Detection of the smallest possible defects with PEC technology within an adequate range of wall thickness and liftoff
- Top-quality data acquisition at high-productivity rates: typical scabs can be inspected in less than a minute
- Safe assessment of the remaining wall thickness over scabs while the asset is in-service. No need for surface preparation, no radiation.



Patent pending high-resolution PECA probe



Conventional solution

Benefits of using PECA for scab assessment

- Unaffected by surface preparation
- Enables in-service inspections
- Safe work environment, no radiation
- Full coverage of the surface under test

SPECIFICATIONS

PERFORMANCE

Dimensions (W × H × D)	112 × 66 × 87 mm (4.4 × 2.6 × 3.4 in)
Weight	0.9 kg (2 lb)
Casing	Small array
Number of channels	6 channels, 3 patent pending dual sensors
Total coverage	75 mm (3 in)
Wall Thickness	3–19 mm (0.12–0.75 in)
Liftoff	0–50 mm (0–2 in)
Weather jacket	Not supported
Outer diameter range	152 mm (6 in) to flat surfaces
Encoder	16.04 counts/mm (407.44 counts/in)
Cable	5 m (16.4 ft)

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Eddyfi Technologies