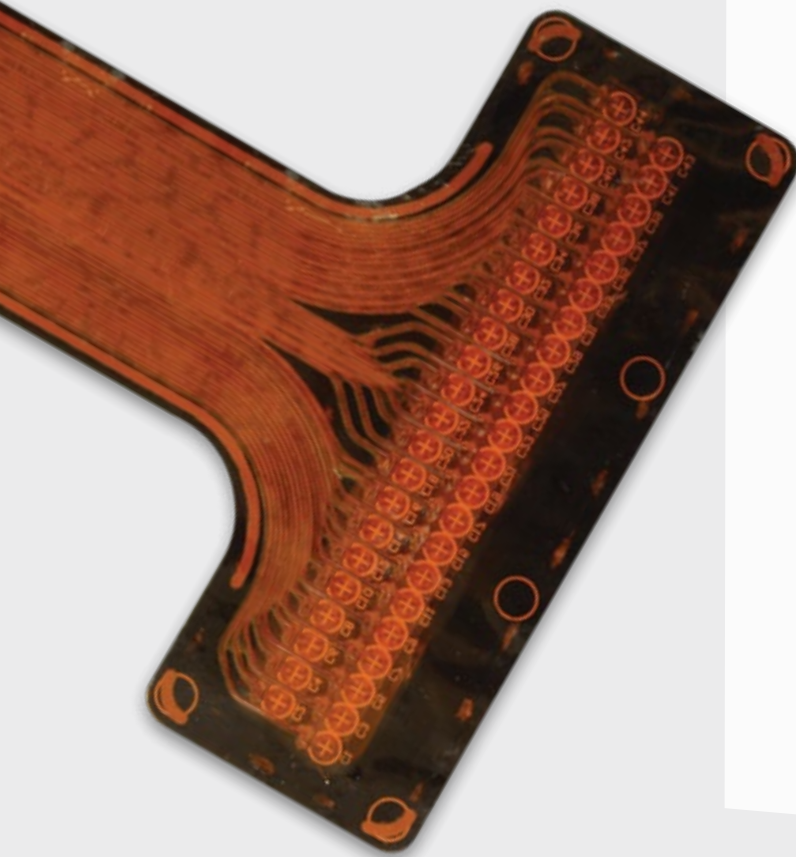


Flexible Eddy Current Array Probe for Smooth and Curved Surface Inspections



KEY FEATURES & BENEFITS

- Fast and easy inspection of curved surfaces
- Flexible design to fit convex and concave surfaces, and to reduce lift-off
- High-resolution detection of defects in all orientations
- Detection of cracks and pittings
- Measurement of coating thickness
- Optional encoder for accurate sizing and positioning of indications
- Computer-based data records and reports for audit trails
- Compatible with EctaneTM, MS5800TM, and TC7700TM

For NDT on smooth, convex, or concave surfaces, Eddyfi's flexible eddy current array (ECA) probes allow you to reduce inspection time and improve flaw detection, all the while providing you with a full record of inspection.

Eddyfi's array probes offer many advantages when used in lieu of magnetic particles, liquid-penetrant, or conventional single element eddy current (ECT) probes. They offer simple "one-pass" inspections on pipes, nozzles, turbine blades, wheels, or any other smooth surface.

Their proprietary flexible design allows them to conform to arbitrary convex and concave surfaces where they can detect pitting, surface cracks, and discontinuities in any orientation.

ECA probes transmit their data to an acquisition system where they are analyzed and stored. Eddyfi offers EctaneTM surface array and multi-technology tube inspection instruments as well as MagnifiTM data acquisition and analysis software.

For more information, please visit our website at www.eddyfi.com.

Specifications

EXAMPLES OF AVAILABLE PROBE MODELS¹

	EFI-PRB-SAT-FLEX-PCB-22EL	EFI-PRB-FLEX-PCB-44EL
Surface coverage	100 mm	70 mm
Frequency	30 – 140 kHz	100 – 600 kHz
Material ²	Ferromagnetic	Non-ferromagnetic
Partial Saturation	Yes	No
Minimum detectable axial crack (L × W × D) (in mm)	NA	1.5 × 0.25 × 0.25
Minimum detectable transverse crack (L × W × D) (in mm)	5.0 × 0.25 × 0.5	1.5 × 0.25 × 0.25
Minimum detectable pit (φ × D) (in mm)	3.0 × 0.5	1.5 × 0.25
Coil array technology	Transmit/Receive (transverse only)	Transmit/Receive (transverse + axial)
Coil diameter	6 mm	3 mm
Coil type	Pancake	
Instrument compatibility	Ectane™, MS5800™, or TC7700™	

¹ Custom probes available upon request

² Probe can be used with other non-ferromagnetic metals, but performance will vary.



Eddyfi's flexible probes adapt as easily to inside as to outside diameters.



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Eddyfi is the newest company in the field of non-destructive testing (NDT) equipment. It was created following the organizational realignment of Zetec Canada's eddy current (ECT) activities. Today, Eddyfi works with key eddy current experts formerly from Zetec and R/D Tech. It focuses on providing complete high-end solutions for the surface inspection of critical components in several major industries such as nuclear and power generation. Eddyfi develops the industry's best performing and most reliable testers, scanners, probes, and acquisition and analysis software. Its products are designed specifically for inspections that require permanent data recording and offline analysis. Eddyfi has the expertise, engineering, and manufacturing flexibility to supply the integrated and specially-made solutions that make customers safer, more efficient and more profitable.

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