

Surface Array Flex Probe

Quick and Accurate One-Pass Surface Inspections

The Surface Array Flex Probe enables you to reduce inspection time and improve flaw detection while receiving a full record of inspection. The probe offers inspection coverage up to 2 inches in a single pass of the weld bead, transition zone, and heat-affected zone. The unique flexible surface design and proprietary X-Probe coil technology allow the probe to conform to the weld surface where it can detect pitting and surface cracks in any orientation.

FEATURES & BENEFITS

Quick and Accurate Inspections

- ▶ **Reduces inspection time by 95%** compared to a handheld pencil probe
- ▶ **Offers inspection coverage up to 2 inches in a single pass** of weld bead, transition zone, and heat affected zone
- ▶ Detects longitudinal, transverse, and off-axis cracks as short as 0.020 inches
- ▶ Detects sub-surface defects as deep as 0.039 inches
- ▶ Optional encoder for accurate sizing and positioning of defects

Conforms to Various Surface Applications

- ▶ Flexible pad wraps around **weld beads** up to 0.197 inches tall
- ▶ Detects surface and sub-surface defects in **irregular non-ferromagnetic** surfaces as well as surface defects in **smooth ferromagnetic** surfaces
- ▶ **Durable pad toughness tested on over 8,000 feet** of stainless steel smooth weld surface without failure
- ▶ Detects **corrosion under paint** without stripping and repainting
- ▶ **Surface preparation is not necessary** as compared to Penetrant inspection methods
- ▶ **No chemical usage or environmental concerns** as compared to Magnetic Particle or penetrant inspection methods

The Ultimate Surface Array Solution

- ▶ Delivers the highest performance, most dependable and fastest surface inspection solution in the market when combined with the **MIZ-200A** Eddy Current Instrument and Velocity Acquisition and Analysis Software



Surface Array Flex Probe

Standard Configurations

SURFACE COVERAGE	CABLE LENGTH	COIL DIAMETER	CENTER FREQUENCY	CONNECTOR
2.047 in. (52 mm)	13 ft. (4 m) 33 ft. (10 m)	0.079 in. (2 mm)	500 kHz	MIZ-200 Array Connector
Other options available upon request				

Specifications

- ▶ Maximum weld bead height: 0.197 in. (5 mm)
- ▶ Minimum detectable crack (L x W x D):
0.020 in. x 0.004 in. x 0.020 in. (0.5 mm x 0.1 mm x 0.5 mm)
- ▶ Maximum penetration depth: 0.039 in. (1 mm) (Stainless Steel)

Applications

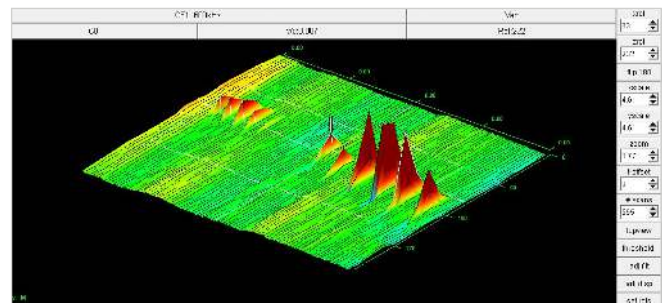
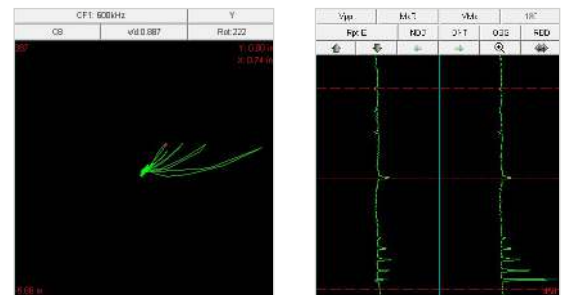
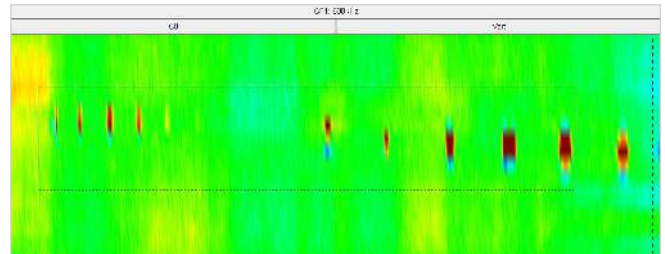
- ▶ Non-ferromagnetic surface and sub-surface inspection
- ▶ Ferromagnetic surface inspection zone
- ▶ Smooth weld inspection including crown, toe, and heat affected
- ▶ Power plant turbine rotor inspection
- ▶ Aircraft fuselage and wing crack and corrosion inspection
- ▶ Inspection for corrosion under paint

General Specifications

- ▶ Shipping Dimensions (typical): 20 in. x 15 in. x 5 in.
(51 cm x 38 cm x 13 cm)
- ▶ Shipping Weight: < 10 lbs. (4.5 kg)
- ▶ Operational Temperature: 40°F to 113°F (4°C to 45°C)
- ▶ Recommended Storage Temperature: 55°F to 75°F (13°C to 24°C)

Recommended Instruments and Software

- ▶ MIZ-200A Portable Eddy Current Instrument
- ▶ Velocity Acquisition and Analysis PC Software



Zetec: The Largest Supplier of Probes Worldwide

For nearly 50 years, Zetec has manufactured over 10,000 probe designs to meet the changing needs of the nondestructive testing (NDT) market. We are the leading supplier of probes worldwide covering most applications and techniques. With world-class manufacturing facilities, Zetec probes deliver the best results for our customers.



Zetec holds ISO 9001
and ISO/IEC 17025
certifications



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