

SURF-XTM

Flexible Eddy Current Array Probes

ULTIMATE FLEXIBILTY



Ultimate Probe Flexibility

Introducing the Surf-X family of flexible Eddy Current array probes. Featuring unique multiple coil sets and proprietary X-PROBE™ technology, Surf-X array probes can quickly and accurately test a wide range of materials and geometries.

With interchangeable electronics module, cable, detachable encoder and coil sets, Surf-X array probes provide flexibility and cost efficiencies like never before.

FEATURES & BENEFITS

Save Time and Money

- ▶ Electronics module, cable and detachable encoder can be used interchangeably and re-used with any subsequent Surf-X array probe coil sets
- Field interchangeable coil sets easily adapt to different materials and surface geometries at the inspection site
- ▶ Detachable handles to accommodate different applications and complex geometries
- Preset test configurations
- ▶ Ability to revise filters to optimize results

Fast Inspection, No Chemicals

▶ Chemical Testing Replacement:

Surface array probes are a cost-effective, chemical free replacement for Liquid Penetrant Testing (PT) and Magnetic Particle Testing (MT)

▶ Single Sensor Probe Replacement:

The surface array option can reduce inspection time by up to 95% versus traditional pencil probes

Accurate, High Quality Results

- ▶ Better coverage vs. traditional handheld probes
- ▶ Rotatable Encoder is standard, providing easy identification of flaw locations and dimensions
- ▶ Position indicators on the probe help with alignment and ensure the entire area of interest is inspected
- ▶ Patented and proven X-PROBE technology-based coil set delivers added dependability and accuracy
- Operates in absolute and multiple modes of driver pickup

For a lower total cost, excellent data quality and reduced inspection time compared to other methods, consider Surf-X array probes from Zetec.

Smart Options

Interchangeable Surf-X Coil Sets

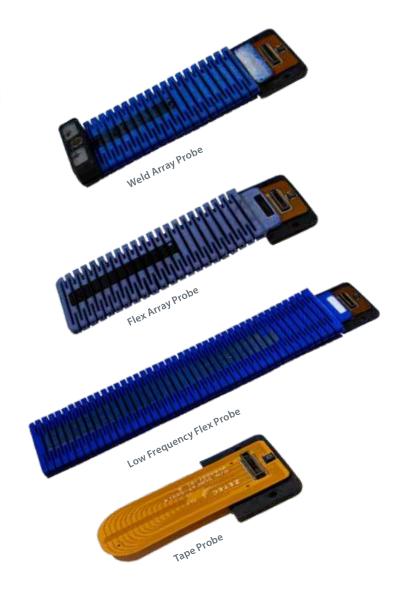
A key advantage of the Surf-X array probe family is the highly flexible design featuring interchangeable multiple coil sets. With Surf-X array probes, users in the field can change a coil set in less than a minute enabling the probe to easily adapt to different materials and surface geometries at the inspection site.

Surf-X Weld Array Probe: Innovative and patent pending mix of array and +point™ coils. The +point coils find indications in the hard to inspect weld toes while the array coils quickly inspect the remaining weld and heat affected zones. Handles have been designed to make inspecting butt and t-welds a breeze.

Surf-X Flex Array Probe: Flexible probe allowing detailed inspection on all materials and many geometries. Ideal for testing rows of flush rivets, replacing handheld probes. Replace your die penetrant testing on helicopter spars, train wheels or mining drums.

Surf-X Low Frequency Flex Probe: Ideal for testing thicker plates to find both near and far side indications. Can be used with a bend radius of 2 inches or larger.

Surf-X Tape Probe: Ideal for testing smooth surfaces and complex geometries such as turbine dovetails. Capable of finding very tiny surface flaws.



Inspect Complex Geometries with Ease







New Levels of Probe Versatility

Versatile Electronics Module and Cable

The Surf-X array probe's electronics module and cable design offers breakthrough inspection efficiencies. These components can be used interchangeably across probe coil sets delivering material cost savings after initial purchase.

With subsequent Surf-X array probe purchases, the module and cable can be re-used saving time and money.



Detachable Encoder

Surf-X array probes come with a highly versatile, detachable encoder that can connect in multiple locations on both the handle and electronics module providing maximum versatility when it comes to dealing with multiple positions as you probe.

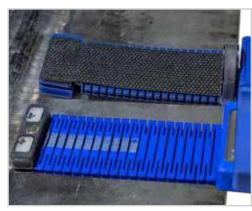
For cost efficiency, the encoder can be used and re-used interchangeably with all Surf-X array probe coil sets.



Wear Surface Options

All Surf-X interchangeable coil sets come with three wear surface options:

- **UHMW** for inspecting small indications on smoother materials.
- Cloth wear surface for protecting the array coils on smooth or polished surfaces. Ideal for airplane skins or smooth curved surfaces.
- **SuperFabric** for protecting array coils on rough surfaces like Butt and T-Welds.



SuperFabric

Probe Options to Meet Your Specific Needs

	Surf-X Weld Array	Surf-X Flex Array	Surf-X Low Frequency Flex	Surf-X Tape
Model (MIZ®-21C/200)	XPSWC/XPSW	XPSFC/XPSF	XPSFC/XPSF	XPSFTC/XPSFT
Applications	High crown t & butt welds	Rows of airplane rivets. Mining equipment, train wheels	Multi-layer airplane skins and thick wall pipes	Surface cracks on smooth surfaces. Turbine roots
Materials	Ferrous, non-ferrous	Ferrous, non-ferrous	Ferrous, non-ferrous	Ferrous, non-ferrous
Subsurface	Non-ferrous	Non-ferrous	Non-ferrous	Non-ferrous
Surface	Ferrous, non-ferrous	Ferrous, non-ferrous	Ferrous, non-ferrous	Ferrous, non-ferrous
Min. Crack Length	0.026in (0.67mm)	0.026in (0.67mm)	0.082in (2.00mm)	0.021in (0.53mm)
Freq Range Driver Pickup	50 - 2800kHz	50 - 2800kHz	1 - 85kHz	1 - 4 MHz
Penetration	0.16in (4mm)	0.16in (4mm)	0.25in (6.35mm)	Surface
Coverage 32 coil 2x16	1.7in (43mm)	1.7in (43mm)	4.0in (101.6mm)	1 and 2in
Coil diameter	0.079in (2mm) 2+points	0.079in (2mm)	0.25in (6.35mm)	0.063in (1.60mm) 0.126in (3.20mm)
Bend radius	0.5in (12.7mm)	0.5in (12.7mm)	2.0in (50.8mm)	0.05in (1.3mm)

General Surf-X Probe Specifications

Shipping Dimensions: 10in x 8in x 6in (25.4cm x 20.3cm x 15.2cm)

Shipping Weight: < 2 lbs (0.9kg)

Operating Temperature: -10°C to 50°C (14°F to 122°F) Storage Temperature: -20°C to 70°C (-4°F to 158°F)

Complete Eddy Current Array Solutions



Ordering Information

Complete Probe Electronics Module, Encoder & Coil Set

Generate your part number from the individual tables below



Instrument MIZ-21C/MIZ-200	Model Description	Electronics Module Coil Count	PN Suffix
XPSWC/XPSW	Weld Array	32	Sxx
XPSFC/XPSF	Flexible	64	Mxx
XPSTC/XPST	Tape	128	Lxx
		_	

Not all options are available for every model. Please contact your Z	etec
representative for details.	

Wear Surface	PN Suffix/ Tape
None	x0 0 /x000 0
Cloth	x01/x0001
SuperFabric	x0 2 /x000 2
UHMW	x0 3/ x000 3

Cable Length ft	PN Suffix
6	06
13	13
33	33

Electronics Module

Cable Length	MIZ-21C	MIZ-200
6ft (2m)	SURFXCEM-S00-06	SURFXEM-S00-06
13ft (4m)	SURFXCEM-S00-13	SURFXEM-S00-13
33ft (10m)	SURFXCEM-S00-33	SURFXEM-S00-33

Detachable Encoder

Component	PN	Description
Detachable Encoder	SURFXEN-001	Detachable Encoder with 18" USBM Cord

Interchangeable Coil Sets (32 Coil)

Wear Surface	Weld Array	Flex Array	Low Frequency Flex	Tape (3.2mm coil)	Tape (1.6mm coil)
None	NA	NA	NA	SURFXT-S0020	SURFXT-S0010
Cloth	SURFXW-S01	SURFX-S01	SURFX-SA1	N/A	N/A
SuperFabric	SURFXW-S02	SURFX-S02	SURFX-SA2	N/A	N/A
UHMW	SURFXW-S03	SURFX-S03	SURFX-SA3	SURFXT-S0023	SURFXT-S0013

Zetec: A Leading Supplier of Probes Worldwide

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





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