



MRPC – Probes and Motor Units

Solutions for Special Interest Tests and Small Flaw Characterizations

For detailed evaluation of tube morphology and flaw sizing, Zetec MRPC probes are the optimal choice. Featuring coils that rotate across the surface of the tubing, these products deliver significant inspection advantages. Zetec’s leadership in this technology has resulted in a complete set of probe heads and motor units that enable detection for a wide range of tubing concerns.

FEATURES & BENEFITS

- ▶ **Coils configured for specific tests**
Frequency optimized Pancake and +Point coils
- ▶ **Proprietary long life wear material**
Coils protected with ZM1 to provide extended life
- ▶ **Detect all flaw types**
Circumferential, axial, pits, wear
- ▶ **Tubes with Permeability Variance**
Magnetically biased coils available
- ▶ **Accurately measure tube profilometry**
Specialized designs for accurate tube inside diameter measurements
- ▶ **Designs for various tube geometries**
Expansions, dents, sleeves, bends, plugs
- ▶ **Motor units for most applications**
Multiple diameters and rotation speeds
- ▶ **Meet varying regulatory requirements**
Detrimental material requirements for multiple markets industry qualified designs

See the Zetec Catalog for more details
(Eddy Current Probes – MRPC)



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Standard Configurations

DIAMETERS		PUSH POLY LENGTH	PUSH POLY TYPE	RPM	FREQUENCY RANGE	CONNECTORS
Probe Heads 0.340in (9mm) to 0.720in (18mm) in 0.010" increments	Motor Units 0.390in (10mm) to 0.720in (18mm) in 0.010" increments	Motor Units 50ft (15m) 83ft (25m)	Motor Units 3/8T (Thin wall)	Motor Units 300RPM to 2400RPM (Varying torques designs)	Probe Heads Numerous coil configurations, plus point and pancake coil size and frequency options	Motor Units 10 Pin Amp/5 Pin Amp 36 Pin Amphenol Probe Heads Matches Motor

Custom options are available for all items

Extension Shafts for Tube Bends

BEAD DIAMETERS	EXTENSION LENGTH	CONNECTORS
0.520in (13mm)	18in (0.46m)	5/2 to 5/2 Pin
0.560in (14mm)	24in (0.61m)	
0.580in (15mm)	36in (0.91m)	
0.680in (17mm)	48in (1.22m)	
	60in (1.52m)	
	72in (1.83m) 90in (2.29m)	

Custom options are available for all items



General Specifications

GENERAL SPECIFICATIONS	MOTOR UNITS	PROBE HEADS AND EXTENSION SHAFTS
Shipping Dimensions (typical)	20.5" x 21" x 2.2" (52.1 mm x 53.3 mm x 5.6 mm)	Most ship in small tubes. Varies based on length.
Shipping Weight	< 6 lbs. (2.7 kg)	< 1 lbs. (0.5 kg)
Operational Temperature	40°F to 113°F (4°C to 45°C)	40°F to 113°F (4°C to 45°C)
Recommended Storage Temperature	55°F to 75°F (13°C to 24°C)	55°F to 75°F (13°C to 24°C)

Recommended Instruments and Software

- ▶ MIZ®-80/81/85 Eddy Current Instrument and EddyNet/AQ Software
- ▶ MIZ-200 Eddy Current Instrument and Velocity Software

Zetec: The Largest Supplier of Steam Generator 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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