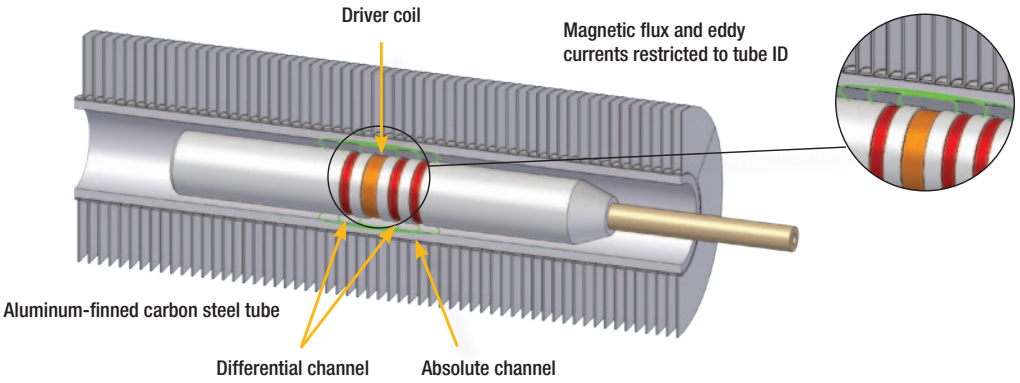
OLYMPUS®

Your Vision, Our Future

TRD Series Probes

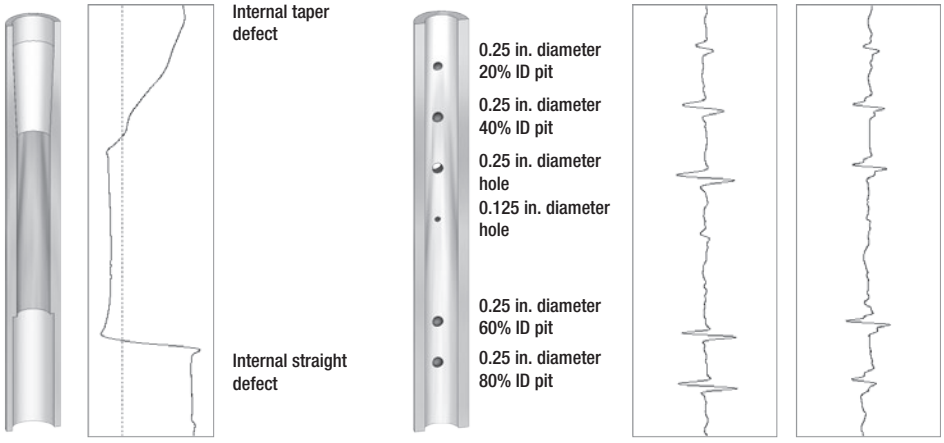


Absolute Driver-Pickup configuration

The Absolute channel easily detects internal volumetric defects such as corrosion, erosion, and wall thinning. The damage severity can be evaluated by analyzing the signals' amplitude only.

Differential Driver-Pickup configuration

While pit clusters can be detected with the Absolute channel, the Differential channel better detects more localized defects, such as individual pits, with a much greater signal clarity than with competitor probes.



Features

- Ideal for carbon steel fin-fan tubes
- Excellent alternative to MFL probes
- No need for a reference probe or extension
- Excellent detection of internal thinning and pitting based on sensitivity of eddy current to lift-off (or fill-factor)
- 2 channels: absolute (ABSL) and differential (DIFF)
- High-quality, amplitude-based signals for very fast and simple data analysis
- Thick probe casing for increased durability
- Compatible with the MultiScan MS 5800R
- Compatible with competitor equipment with help of Reverse Probe Adaptors instrument
- Improved signal clarity on pitting—market leader

NOTE: These probes are not designed to detect OD defects.

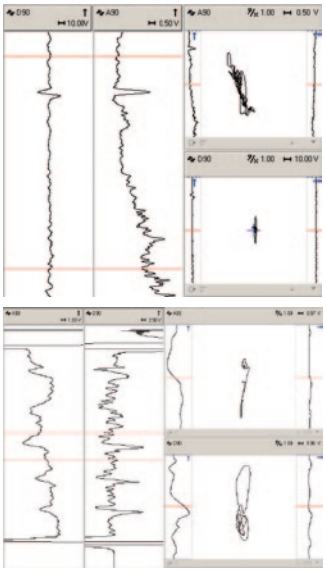
Near Field Eddy Current Probes for Tube Inspection

The new near field testing (NFT) eddy current technology is a rapid and inexpensive inspection solution designed specifically for ID defect detection in carbon steel fin-fan tubes. NFT probes cut cost and improve ease of use because they do not require expensive and cumbersome, externally referenced coils.

Near field probes are an excellent alternative to magnetic flux leakage (MFL) probes. This new technology, which is based on a simple eddy current driver/pickup design, produces signals that are very easy to analyze. Because NFT probes operate within the same frequency range as remote field testing (RFT) probes, NFT probes are manufactured to be used with the standard MultiScan MS 5800™ RFT connector. In addition, there is no magnet, making probe pushing and pulling a lot easier.

Field Proven

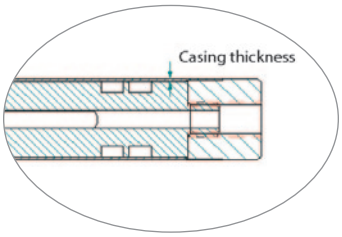
The Olympus Near Field TRD Series is being used by several customers to successfully detect internal damage. Its quick signal analysis makes it the ideal detection tool for finned carbon-steel tubing.



Corroded tubes pulled from service.

Mechanical resistance

The very thick probe casing and the sturdy probe cable make the TRD Series NFT probe capable of enduring the hard field conditions during inspection.



Its flat tip ensures that the probe does not easily get stuck when being pushed into dirty tubing.

Reverse Probe Adaptors

Even though the Olympus TRD Series near field probes are designed and optimized for use with the MultiScan MS 5800 acquisition unit, they can now be used on competitor equipment with the help of the Reverse Probe Adaptors. The models available permit the connection of NFT probes to the Zetec MIZ-28, and the CoreStar OMNI-100 and OMNI-200 equipment.

Part Number	Equipment Compatibility
TR-REVADP-001	CoreStar OMNI-100
TR-REVADP-003	CoreStar OMNI-200
TR-REVADP-005	Zetec MIZ-28

Probe Part Number Example

Near field probe model (TRD), 17.0 mm diameter (170), 300 Hz center frequency (300), nylon standard cable (N), 30 m cable length (30)

TRD-170-300-N30

Probe diameter (17 mm)

Cable length: 30 m
Also available: 20 m

Probe Outside Diameter

Standard probe diameters are available from 11.0 mm (0.43 in.) to 31.0 mm (1.22 in.). The part number shows the diameter in tenths of a mm (1/10 mm) so 17.0 mm = “170.” The probe diameter can be estimated by multiplying the tube internal diameter by 85%, rounded to the nearest whole mm.

Probe Center Frequency

The only available central frequency is 300 (300 Hz), and it ranges from 100 Hz to 1 kHz.

Probe Cable

Probe cable material is manufactured in nylon (N) only. Cable lengths are in meters: 30 m (100 ft) is the most common. Also available in 20 m (65 ft) length.

OLYMPUS NDT INC. is ISO 9001 and 14001 certified.

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