



www.westechinspection.com

Advanced Tube Inspection ET, RFET, IRIS, MFL

Westech Inspection, Inc. provides a complete tube inspection service with our MultiScan MS5800. This advanced tube inspection system has bundled four inspection technologies into a single unit. Eddy current, Remote Field ET, IRIS, and MFL.

The ET & RFT is a high-speed, multi-channel, multi-frequency scanning system with advanced reporting and tube sheet mapping software.

The IRIS system is a single channel ultrasonic scanning system with the ability to inspect tubes in a wide range of diameters.

MultiScan MS5800 for Tube Inspection



Two Major Advantages

1. We always have the right system for the job.
2. We can use a second tube inspection technology to back up anything found during the primary inspection.

Eddy Current (ECT)

- Eddy Current is a cost effective and reliable way to inspect tubing.
- Inspect non-ferromagnetic tube and materials.
- Condensers, feed water heaters, air conditioners, chillers, and other heat exchangers
- Detection and sizing of metal discontinuities such as corrosion, erosion, tube-to-tube wear, pitting, fretting, cracks, etc.
- Multi-frequency inspection with mixing and filtering capabilities.
- Data is recorded and archived which will allow you to track the corrosion rate for each tube.

Corporate Office:

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Remote Field Testing (RFT)

- Full wall inspection of ferromagnetic tubes
- Used for the detection and sizing of wall thinning caused by corrosion, erosion, wear, pitting and baffle cuts.
- Used to inspect boilers, feed water heaters, air coolers, and carbon steel heat exchangers.

Magnetic Flux Leakage (MFL)

- Inspection technique suitable for wall-loss detection and measurement of sharp defects, such as pitting, grooving, and circumferential cracks.
- Applicable to ferromagnetic tubing
- Effective for testing aluminum-finned carbon steel tubes because the magnetic field is mostly unaffected by the fins.
- A good Back-up inspection to Remote Field Testing.

Internal Rotating Inspection System (IRIS)

IRIS is an ultrasonic technique used for the inspection of a wide range of materials, including both non-ferromagnetic and ferromagnetic tubing.

- Allows for the detection and sizing of wall loss as a result of corrosion, erosion, tube-to-tube wear, pitting, fretting, cracking and baffle cuts.
- Focused ultrasonic probe and a rotating mirror to produce a helical scan.
- Ultrasound is reflected from the tube ID and OD and the time difference is used to calculate the thickness.
- IRIS is a great backup and verification tool for the other tube inspection techniques
- IRIS data to be presented as a B, C, or D-scan image.

Westech technicians are qualified and certified in accordance with the SNT-TC-1A guidelines and can provide on-site or in-house data interpretation. After data acquisition and analysis are complete, a comprehensive report with a color coded tube sheet map will be issued.

Call Us! We Can Help With Any Inspection Needs You May Have.

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