

CALIBRATION TUBES FOR HEAT EXCHANGER TUBE INSPECTION

At UCOMAX we provide tubes for below mentioned tube testing techniques

- Magnetic Flux Leakage Calibration Tube
- Internal Rotary Inspection System Calibration Tube (IRIS)
- Remote Field Testing Calibration Tube (RFT)
- Eddy Current Testing Calibration Tube (ECT)
- Near Field Testing Calibration Tube (NFT)
- Eddy Current Calibration Tube Bundle Specimen

At Ucomax, we also specialize in manufacturing customized tubes to simulate realistic tube defects for training, and performance validation in non-destructive testing (NDT).



OUR CAPABILITIES

Ucomax has extensive expertise in machining a wide variety of precision defects, including:

- Tube-to-Wall Holes (TWHs)
- Flat-Bottom Holes (FBHs) – OD & ID
- OD and ID Grooves
- Milled Flats & Contoured Flats
- OD and ID Thinning Bands
- 120° / 180° Wear Scars
- Tapered Flaws
- Tube-to-Tube Wear Simulations

Each standard is crafted with high precision and repeatability, ensuring compatibility with eddy current, RFT, and other electromagnetic testing techniques.

Why Choose Ucomax?

- High-precision defect machining
- Fast turnaround times
- Application-specific solutions
- Support for all major industry standards

We Build to Your Specification

To ensure each standard meets your exact requirements, please provide the following information when submitting an inquiry.

- Tube Material Details
 - Alloy type
 - Outer Diameter (OD)
 - Wall Thickness
- Material Supply
 - Please confirm if the material will be customer-supplied or if Ucomax should provide the material.
- Defect Types and Sizes
 - Specify the required defects (e.g., OD/ID grooves, flat-bottom holes, thinning bands, etc.)
 - Include depth and dimensions, preferably in % of wall thickness.
- Applicable Standards
 - Indicate if the standard must comply with specific codes (e.g., ASME, ASTM, API, etc.)
- Drawings or Sketches
 - A simple drawing or hand sketch showing defect positions is highly recommended to ensure accuracy.



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