



**CONTROLE
MESURE
SYSTEMES**

Tubes and Bars Inspection by Rotating UT Technology

Ultrasonic Testing



French innovation
Since 1988 !

High-speed UT rotary heads allow for surface inspection, internal defects detection, and highly accurate dimensional measurements.

Example of a combined on-line testing bench with Ultrasonic rotating head RotoUTscan and Eddy Current testers for steel tubes inspection.

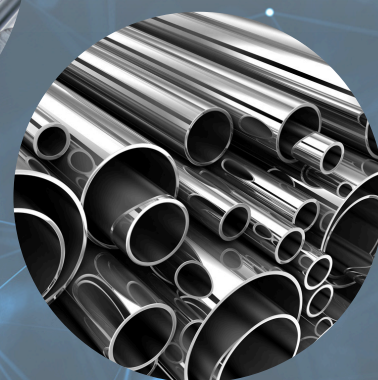
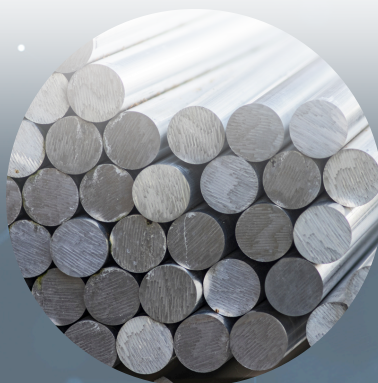


Internal and external flaws detection:

Longitudinal, transverse, oblique, FBH & SDH

Dimensional measurement:

Wall thickness, OD, ID, ovality & eccentricity



Comply with
ASTM, EN, AMS,
SAE standards

High Speed Inspection

by rotating UT technology

An Ultrasonic testing system generates high-frequency sound waves within the material. Various frequencies, incidence angles, and focal points are used. The time-of-flight is analyzed in real-time to provide accurate inspection results.



MAIN FEATURES :

- Detection of surface flaws such as cracks, notches
- Detection of internal flaws such as voids or inclusions of foreign material (equivalent to FBH and SDH)
- Measurement of wall thickness, OD, ID, ovality, eccentricity
- Outside diameter range from OD 4mm to 250mm (0.15" to 10")
- Signal transmission using capacitive coupling for a contactless, clean and non-amplified signal ensuring the highest repeatability (+/- 1dB)
- Increased productivity due to a higher PRF (20kHz), greater rotating speed (8000RPM), and up to 24 UT channels
- Very accurate dimensional measurements: up to +/- 2µm (78µin) for WT and +/- 4µm (157µin) for diameters (tubes)
- Faster changeover time due to easy access to the probe holder and transducer settings. On some of our heads, a synchronized water path setting allows for simultaneous adjustment of all probe holders' positions
- Conventional UT transducers using shear and longitudinal waves
- Complete turnkey NDT system provided by a single manufacturer: Eddy Current (ET) and Ultrasonic Testing (UT), inspection bench with triple pinch guides, supervision, automation, and dedicated software

**Your products deserve top-tier inspection.
Elevate your performance with CMS systems.**



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