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MESURE  
SYSTEMES**

## Tubes and Bars Inspection by Rotating UT Technology

**Ultrasonic Inspection**



**High-speed Ultrasonic Testing (UT) systems** enable a full volumetric inspection of products and are designed to detect surface, internal defects and make dimensional measurement.

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

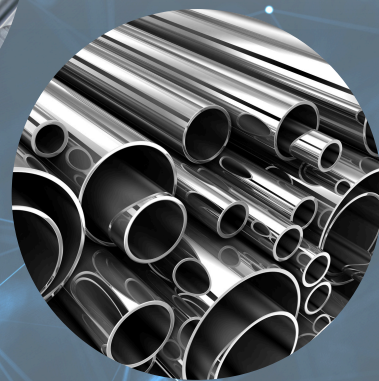
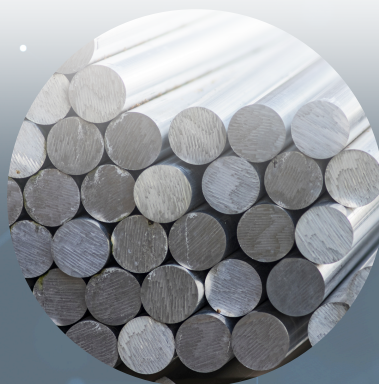


### **Internal and external flaws detection:**

Longitudinal, transverse, oblique, FBH & SDH

### **Dimensional measurement:**

Wall thickness, OD, ID, ovality & eccentricity



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# 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 and notches
- Detection of internal flaws such as voids or inclusions of foreign material
- Measurement of wall thickness, OD, ID, ovality, eccentricity
- Outside diameter range from OD 4 mm to 250 mm (0.15" to 10")
- Signal transmission using capacitive coupling allowing contactless transmission for highest repeatability of UT signal (1dB)
- High productivity due to a high PRF (up to 20 kHz), a high rotating speed (up to 8000 RPM) and a high number of channels (up to 24)
- Very high measurement accuracy: up to 2µm for WT and 4µm for diameters
- Faster changeover times due to easy access to the probe holders and transducers for adjustment to water path, incidence angle and squint angle corrections in 2 directions
- Conventional UT transducers using shear and longitudinal waves
- Complete turnkey NDT system from 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.**



**CONTROLE MESURE SYSTEMES Inc.**  
175 Pearl Street  
BROOKLYN, NY 11201 - USA

+1(347)684-9941  
[sales@cmsndt.com](mailto:sales@cmsndt.com)