



**CONTROLE
MESURE
SYSTEMES**

High speed inspection by rotating UT technology



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

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

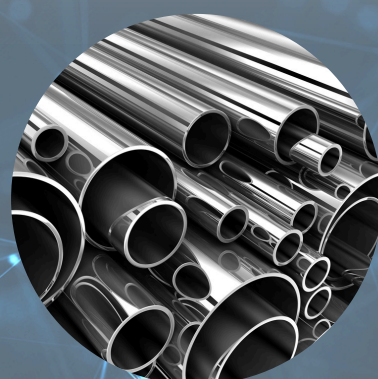


Internal and external flaws detection:

Longitudinal, transverse, oblic, FBH & SDH

Dimensional measurement:

Wall thickness, OD, ID, ovality & eccentricity



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This kind of NDT Ultrasonic system operates with high frequency sound waves and reflects them with a specific angulation. These waves are focused inside the products for an in-depth inspection.



MAIN FEATURES:

- Detection of surface flaws, such as cracks, notches, and internal flaws, such as voids or inclusions of foreign material
- Measure of wall thickness, OD, ID, ovality, eccentricity of tubes and also OD of bars
- Various inspection systems for covering a wide range of diameter from 4 to 250 mm in accordance with main quality standard such as DIN, API, ASTM, AMS and others
- Very strong and reliable system over its lifetime (signal transmission contactless and conventional transducers, the range of RotoUTscan guarantees a very high reproducibility of UT signal (1 dB)
- High productivity thanks 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 accuracy: 2 μ m for thickness and 4 μ m for diameter, internal reference for temperature compensation
- Easy access to the probe holders and transducers for adjustment of water path, angle beam incidence and squint angle correction in 2 directions
- Two methods of UT are used for flaw detection/dimensional measurement: shear waves and longitudinal waves
- Entire turnkey NDT systems, a sole manufacturer for all the requirements: ET, UT, testing bench, centering device, supervision, automation, dedicated software...

CMS offers a wide variety of highly advanced UT testing solutions to meet your quality control needs.



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