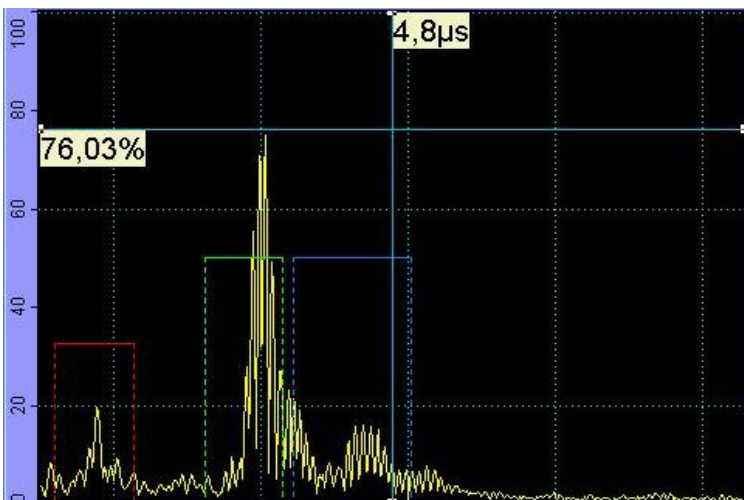
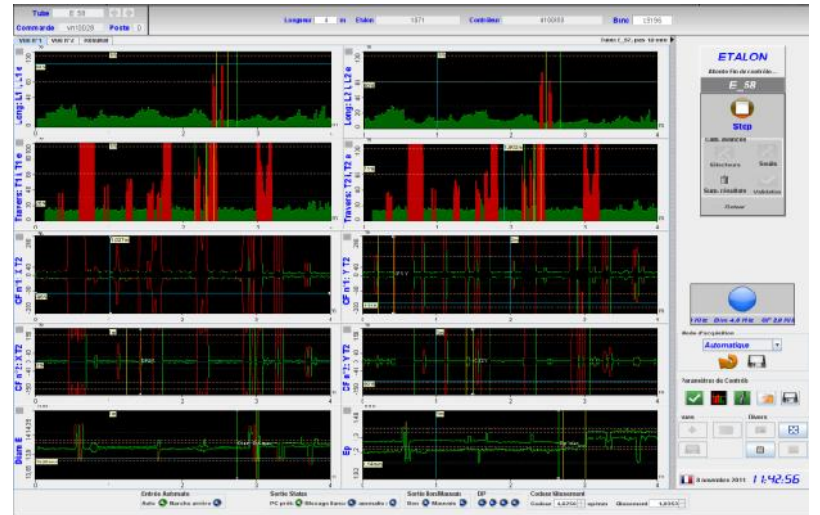
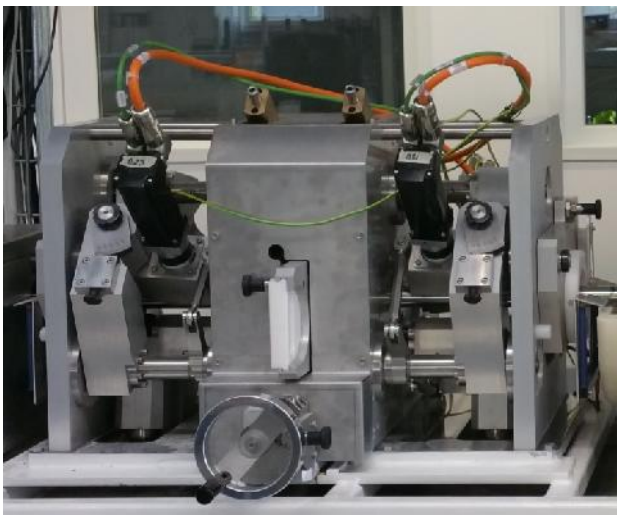


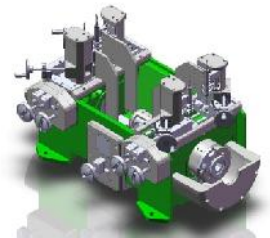
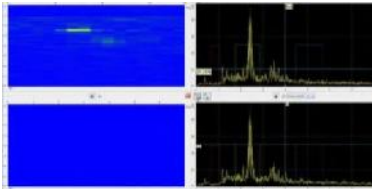
TUBE INSPECTION SYSTEM FBUT-RT-PA 10 to 55mm



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TECHNICAL DATA SHEET



PRODUCT	Energy, Aerospace and Water treatment tubes
RANGE	From 10mm to 55mm (possible extension from 6mm)
DETECTION	Longitudinal Transversal Wall Thickness Diameter and eccentricity
DATA PRESENTATION	Strip Chart (Stored in real time) Alarm (Stored in real time) A-Scan, B-Scan
LINEAR SPEED	Up to 50m/min
NUMBER OF PROBES	1 to 3 PA probes and conventional probes depending the configuration

Main advantages of the FBUT – PA system:

- Full parallel firing electronic Multi X ++ 32 up to 256 which allow:
 - High productivity :
 - ✓ Emission : Insonification in 1 shot of an area corresponding to the full length of the PA probe (all element firing)
 - ✓ Reception : multiple reconstruction of focal laws (several sums in parallel)
 - Good repeatability : focal laws and overlapping adapted to the length of the defects
 - Capability to manage the PA focal laws for optimizing the detection and reducing the untested length
 - Wall thickness algorithms allowing a resolution of 1 μm (accuracy +/- 5 μm)
- Supervisor software LINEVIEW:
 - Management of the UT and EC with the same software and interface.
 - UT management, storage, connected to the production management.
 - Management of the bench.
 - Management of the painting marker.
 - Recording, traceability, re ready of the data; reporting and network connectivity of the plant.
 - Capability to manage the inspection of 2 tubes individually with a reduced distance. There is a minimum distance of 50mm between tubes if using standard DP (loading and conveyor must be designed in order to have a reduced distance between 2 tubes).
- Strong mechanic especially adapted to the small tube market.
 - UT tank designed to have good repeatability and reproducibility of the mechanical UT settings (angle and water path)
 - Using triple motorized rollers for good centering and an accurate helicoidal pitch
 - High possible value for the helical pitch: 39 mm with an overlap of minimum 20%
 - Inspection of tubes in the range 10 to 55mm, with appropriate adjustment on the roller setup thanks to the concept developed by Tecnatom Metalscan
 - Compact UT PA immersion tank with direct access to the PA probes.
 - Simple conveyor with brush designed for the energy and aerospace tubes.
 - Low maintenance of the system.
 - Integration of the EC technology

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