

NON-DESTRUCTIVE TESTING

Guaranteed reliability for your materials and composite parts

Non-destructive testing (NDT) is a set of processes and techniques for locating, measuring, sizing and characterising defects in a material and ensuring its integrity and conformity without having to destroy or alter it.

The use of NDT is a major factor in product quality control and improving industrial performance, and meets the reliability challenges expected by your customers. For in-process inspection, incoming inspection or in-service inspection to monitor the development of parts, NDT is the method that will guarantee the conformity of your product and ensure its safety and that of your employees.

OUR OFFER

As experts in the research and development of composite materials, we naturally turned our attention to NDT of this type of material, particularly through ultrasonic testing of parts.

This method is based on the emission of ultrasound through a material and the detection of its reflection from the acoustic interfaces encountered. The advantages of ultrasound lie in its speed of inspection, its ability to detect internal defects with great reliability and accuracy, and its ability to measure thickness.

Our services



Ultrasonic NDT services :

- ✓ Defect detection :
*Delaminations, Inclusions,
Porosities, Dry areas,
Bonding defects*
- ✓ Thickness measurements
- ✓ Determination of the material's orthotropic elastic constants



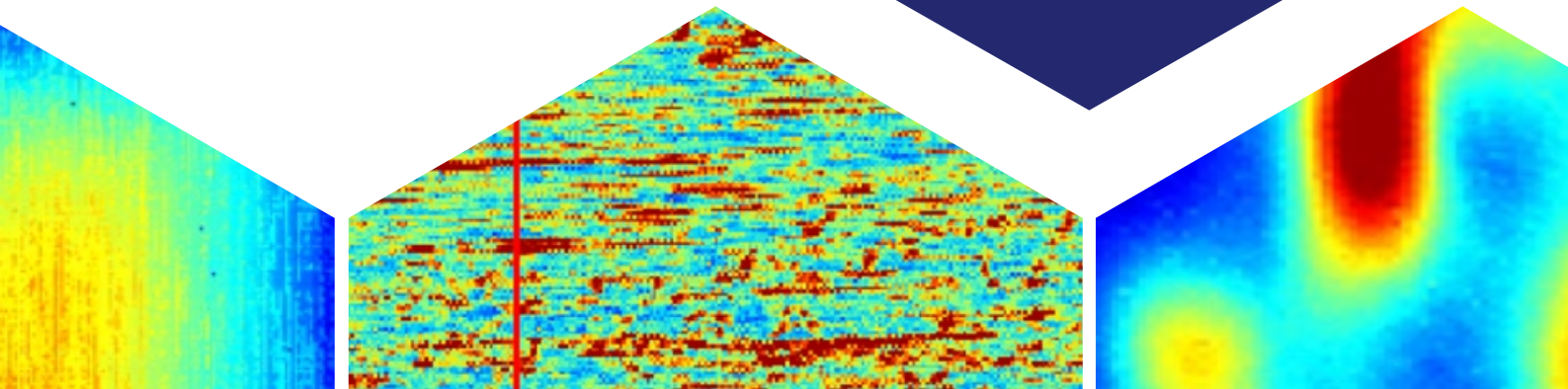
Contact or immersion, single and multi-element control methods



Drafting control procedures



Feasibility studies by trials



OUR FACILITIES



Multi-element control systems

*Wheelprobe : 5MHz portable phased array system
64-element multi-sensor for contact/immersion
5MHz
Glider : 2-axis system for manual C-scan
800x800cm²
Omniscan MX2*

Contact control

*Wide range of probes (0.5 to 10MHz)
Epoch 600
Reflection or transmission*

Tank for immersion inspection

*Inspection of sheets up to 1200 x 900mm²
Depth 700mm
Tube inspection
Probes from 0.5 to 10 MHz: wide range of
inspection finesse and depth*

OUR COMMITMENTS

- Give you the benefit of the experience of our UT2 FrANDTB-qualified team in all techniques, with excellent knowledge of codes and processes.
- Support you throughout your project, analysing and defining your requirements and formulating test procedures.
- Adapt to your needs and constraints.

THE SECTORS CONCERNED

All areas of application are covered, in particular the Aerospace, Defence, Automotive, Rail, Naval, Wind, Hydrogen Reservoir, Battery Pack, Medical Device, Construction and Additive Manufacturing industries.

Approved for the Research Tax Credit and the Innovation Tax Credit



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