TecniTest NDT

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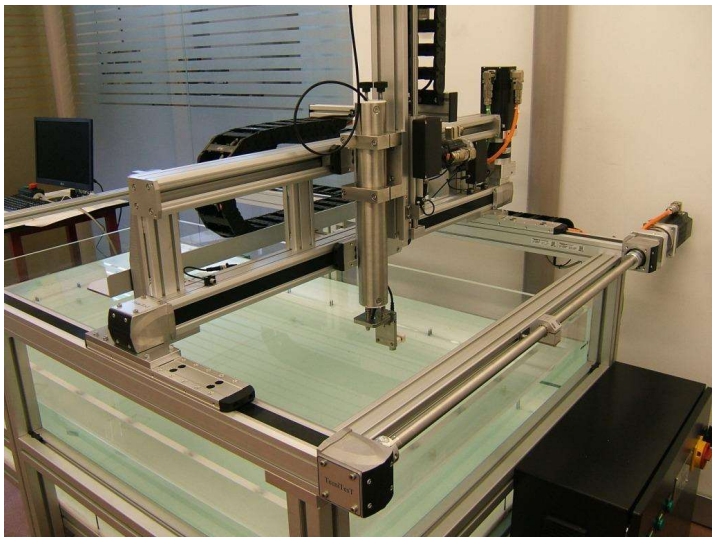
TRITON 1000P

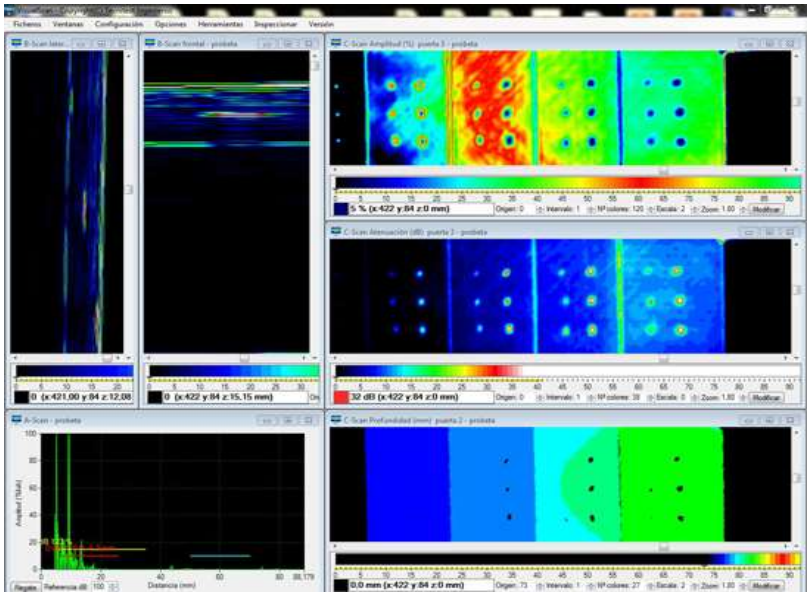
UT IMMERSION TANK EDUCATIONAL AND R&D KIT

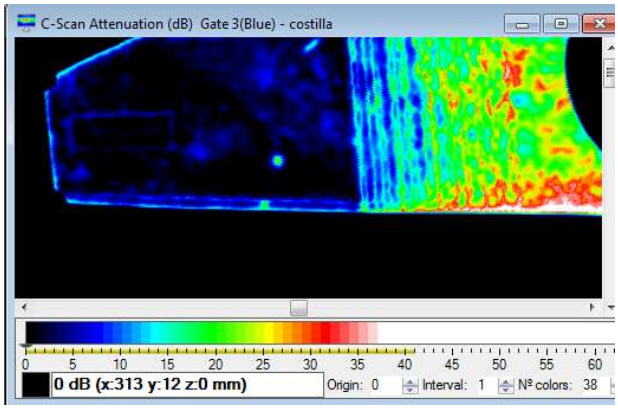
The Triton 1000P is an affordable inspection UT system up to 8 channel state of the art digital ultrasonic **flaw detection system** designed for educational, research projects and training.
The modular design allows upgrading, easily matching dimensional, kinematic and technique related specifications.
The software of the system, VISUALSCAN, allows for user test parameter set up, scan programming and result evaluation.



ADVANTAGES

- High accuracy movement to ±0.1mm with a minimum index of 0.1mm
- Control of movement made by commercial equipment to facilitate maintenance.
- Customizable and friendly interface easy to use software based on Windows.
- A-SCAN, B-SCAN and C-SCAN in real time on screen.
- Complete file of inspection data and Evaluation in real time by local network





STANDARD KIT

- Stiff extruded free standing aluminum frame with independent Perspex tank.
- Electronic controller-based commercial industrial PLC commanded by an independent PC.
- 3 motorized axis (X Y Z), expandable.
- Interchangeable probe holder, manually adjustable (0º-90º XZ or YZ) and additional fine adjustment of relative probe position.
- Control switches, safety system and emergency stop button.
- UT Box with up to 1 channel.
- Set of 1 probe of 5Mhz (Other frequencies availabe)
- VISUALSCAN License, acquisition and evaluation software, installed on the PC
- Options:
  - External axis (turn) attachment and support (Z or X direction).
  - External output for other UT devices.
  - Other ranges available.

UT Technical Characteristics	
Measurement Mode	Pulse Echo/Transmission
Channel Number	1
Channel mode	Sequential (Multiplexed)
Input Range	±275mV (±2.0V with Attenuator -20dB)
Work Frequency	0.5 MHz to 25 MHz
Input Amplifier Gain	-31dB to 65dB (0.5dB step)

Mechanical & Electronic Characteristics	
Useful range 1000x800x300 mm Position accuracy better than ±0.1 mm	Encoders in X and Y axes for acquisition synchronization
Bottom glass with adjustable supports for double through transmission tests	Control switches, safety system and emergency stop button.
Scanning speed up to 250 mm/s	Possibility of inspection in various planes.
High accuracy movement to ± 0.1mm with a minimum index of 0.1mm	Low noise electronics for ultrasonic acquisition

Software Characteristics	
Software of system based on Windows.	Programable Speed and Index
Friendly interface easy to use.	Creation of bitmap files.
Fast programmability for self-learning.	Complete file of inspection data
A-SCAN, B-SCAN and C-SCAN in real time on screen, different configurations.	Different measurement tools and easy reporting
Histogram adjusting and different colour palettes selectable	Evaluation in real time by local network

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