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MATVEL

UT NODULARITY CONTROL

The MatVel is an inspection UT system up to 8 channel state of the art digital ultrasonic **nodularity control system** for industrial applications in the cast iron industry; **uniquely offering dry coupled ultrasonic measurement capability**.

The system is suitable for manual or in-line spot testing of components of known thickness. This is achieved by using a customised transducer and delay line.

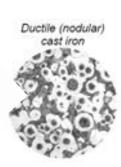
The MatVel combines all the functionality of an outstanding flaw detector together with specific addons customised for the application. The system can therefore meet the requirements for any set up, with live A-scan signal presentation and direct reading of acoustic velocity.

I/O signals allow integration into a variety of in-line systems for automatic control through choice of different communication technologies.

ADVANTAGES

- Dry-coupled transducer avoids couplant/oil contamination of part.
- Direct read out of velocity, thickness and defects
- User programmable thresholds for acceptance criteria
- Customizable software with database for production reports
- Easily integrated in production lines for automatic nodularity control

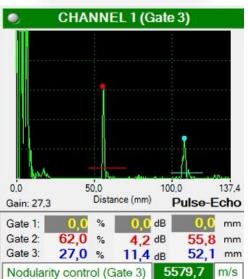
















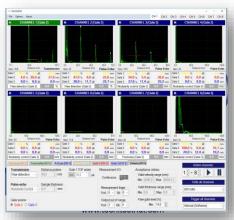






STANDARD KIT

- UT Box with up to 8 channels.
- Comunication Box for 24V I/O
- Set of 1-8 probes of different frequencies
- Dry coupling delay membranes kit of 10 units per probe.
- · Optional balls for small thickness.
- Software license, for automated control acquisition and reporting, integrated on a Industrial Fanless PC
- Options:
- Immersion kit with probes in transmisión.
- Full inline integration by Tecnitest

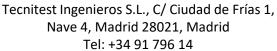


US Technical Characteristics	
Measurement Mode	Pulse Echo/Transmission
Channel Number	1 to 8
Channel mode	Sequential (Multiplexed)
PRF	20kHz divided by the number of active channels
Work Frecuency	1 MHz to 20 MHz
Gain	0dB to 80dB (0.1dB step)

Automation Technical Characteristics Standard		
Communication Type	5V/24V Inputs and Outputs	
Inputs	1 per channel for taking the measure	
Output	1 per channel for good or bad part 1 per channel for doubt part (Optional)	
Automatic charge calibration with PLC	Binary codification with numbers.	

Optional: Ethernet Automation Technical Characteristics		
Communication Type	Ethernet.	
PLC type	PLC Siemens, PLC with OPC-UA server, etc	
Inputs	1 per channel for taking the measure	
Outputs	1 per channel for good or bad part 1 per channel for doubt part (Optional)	
Automatic charge calibration with PLC	Unlimited. Charge name with PLC connection.	
Options	Different possibilities for customized automation.	





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