

Echomac[®] VM

Velocity Measurement to Assess Nodularity in Ductile Iron Cast Automotive Components



As the use of nodular graphite iron material has expanded in recent years for automotive safety parts, ultrasonic velocity measurement provides an industry accepted, reliable means of verifying the material integrity of the part. Unacceptable degrees or variations in Nodularity, a type of graphite structure that can develop during the production process, can attenuate the velocity of sound waves passing through the material. The Echomac[®] VM measures the sound velocity and, using known limits, reports whether the part is acceptable.

Simple, Effective Instrument to Test Velocity

Echomac[®] VM Features

- ❑ Operates with either full immersion or bubbler couplant technology.
- ❑ Test two parts simultaneously in separate test stations using one instrument.
- ❑ Evaluate Velocity, Thickness or Flaw detection.
- ❑ Standard configuration has 2 Velocity channels and 2 Flaw channels with an option for 4 additional Flaw channels.
- ❑ Industrial hardened I/O connections are protected from the environment.
- ❑ Enclosure includes a closed loop heat exchanger to ensure proper operating temperature and protection from the outside environment.
- ❑ Dual Screen view displays test results for two parts.
- ❑ Easy to read Velocity Application screen.
- ❑ Trend Chart display and built in Data Logger.
- ❑ Automatic or manual testing.
- ❑ Less than 2 second evaluation time.



Live A-scan during test

The new Echomac[®] VM Velocity Measurer is designed and manufactured by Magnetic Analysis Corp., a US based leader in supplying NDT instruments, systems and service for more than 85 years.

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