

Echomac[®] VM Automated Test System

Velocity Measurement to Assess Nodularity in
Ductile Iron Cast Automotive Components



Echomac[®] VM Test Tank

The Magnetic Analysis Echomac[®] Velocity test tank and instrument is designed to provide high speed ultrasonic velocity testing for verifying the percentage of nodularity in ductile automotive safety parts. The system operates by manually loading the parts into the test fixture, the part is tested, stamped if good and automatically ejected into the appropriate area.

The Echomac[®] VM Test tank is constructed as an industrial hardened package for years of trouble free use in the demanding environment that foundries offer. The system is supplied with the Echomac[®] VM . computer based ultrasonic velocity instrument. The system consists of a heavy duty steel immersion tank, removable part fixture, automatic part ejection mechanism, air stamper for marking good parts and full PLC control for managing the system and ensuring operator safety.

Features:

- Manual load with Sorted Automatic Ejection of the test parts
- Automated air stamping of all passed parts
- Fully contained water system allows filtered recirculation during testing, couplant can be transferred to lower storage tank for fixture changes and maintenance
- Heavy Duty industrial design with hardened steel outfeed chute
- Highly accurate part placement fixtures constructed from hardened steel for long life
- Part testing speed typically 3-5 seconds (800-1200 parts per hour)
- Multiple tests per part for verifying Velocity, Thickness or Flaw detection
- Operates on 110 volts 50 or 60 Hertz
- Air and Electrical supply with quick disconnect

Safety:

- Integral light curtain or dual hand palm switches ensure operator safety
- Sorting gate is defaulted to the failed part location to ensure only good parts are accepted

Dimensions:

48" x 36" x 72" (121.9 cm x 91.4 cm x 182.9 cm)
600 Lbs (272.15 kg), Forklift transportable

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 over 90 years.

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