ElectroMagnetic Acoustic Transducer (EMAT)

High temperature thickness testing

Piezoelectric Ultrasonic Testing (UT) uses a crystal to generate ultrasound whilst ElectroMagnetic Acoustic transducers generate the sound directly in the part inspected.

FEATURES

- Proving vent lines and pressure relief streams clear
- Accurate positioning capability
- Commissioning and post shutdown applications
ElectroMagnetic Acoustic Transducer (EMAT)
High temperature thickness testing

Used for taking thickness measurements on Ferromagnetic and Non-Ferromagnetic metals at high temperatures.

Features

- Dry, non-contact inspection permits inspection of very hot (up to 650°C) and very cold materials
- Lack of couplant provides extremely reliable and repeatable inspections
- Less sensitive to surface condition than conventional UT, thus minimizing the amount of surface preparation required
- Digital thickness readout and both A-scan and B-scan thickness displays
- The EMAT system has a built in thermocouple that can accurately take a temperature reading of the line to be inspected. The system can then use this information to automatically compensate for the change in sound velocity with temperature during inspection to give accurate thickness readings instantly.