



Eddy Current Testing (EC) utilises principles of electromagnetic induction to inspect metallic parts. An Eddy Current probe (pictured right) generates a magnetic field that induces currents that flow in a test piece which affect the magnetic field and ultimately the magnitude and phase of the voltage in the coil. Applications include the detection of surface or near surface defects, alloy sorting, conductivity thickness measurements, the inspection of bolt holes and other cylindrical areas.

Other uses include:

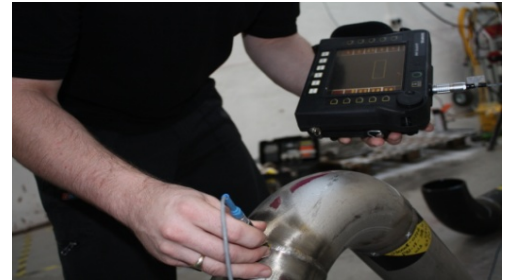
- Crack detection
- Material Thickness Measurements
- Coating Thickness Measurements
- Conductivity Measurements for: Material Identification, Heat Damage Detection, Case Depth Determination, Heat Treatment Monitoring

Advantages

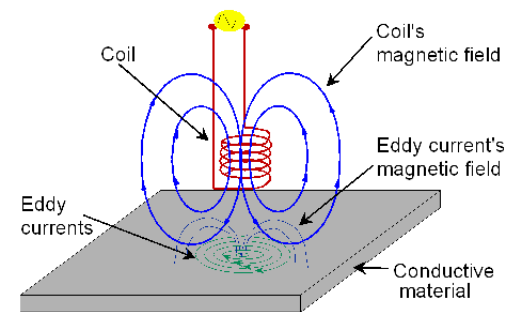
- Sensitive to small cracks and other defects
- Detects surface and near surface defects
- Inspection gives immediate results
- Equipment is very portable
- Method can be used for much more than flaw detection
- Minimum part preparation is required
- Test probe does not need to contact the part

Services available from ITCL

- Approved procedures for control checks
- Approved procedures to specific industry standard
- Inspectors fully qualified to PCN, EN 473, SNT-TC 1A
- Comprehensive 24hr in house & onsite service



An ITCL technician using the probe



Above: Eddy Current probe



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