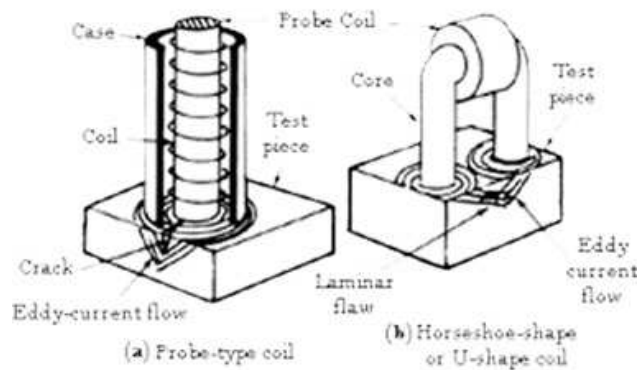


Eddy-Current Inspection

Eddy-current testing is an electromagnetic technique and can only be used on conductive materials. It's applications range from crack detection, to the rapid sorting of small components for flaws, size variations or material variation. The method is most commonly used in the aerospace industry, but also in automotive, marine and manufacturing.

When an energised coil is brought near to the surface of a metal component, eddy currents are induced into the specimen. These currents set up a magnetic field that tends to oppose the original magnetic field. The impedance of the coil in close proximity to the specimen is effected by the presence of the induced eddy-currents in the specimen.

When the eddy-currents in the specimen are distorted by the presence of the flaws or material variations, the impedance in the coil is altered. This change is measured and displayed in a manner that indicates the type of flaw or material condition.



Axess is a leading provider of inspection & integrity management, and engineering & construction services.

The business within Axess comprises the offshore, maritime and energy industries.



Oscar Hanssensveg 5,
6415 Molde, Norway

PO Box 2197,
6402 Molde, Norway

Duty phone: +47 982 43 600

E-mail: post@axess.no

Internet: www.axess.no