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MIZ-21C Eddy Current Instrument - Friction Stir Weld Inspection Demo

Webinar: Optimizing Weld Inspection With eddy current - GE

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The uniform eddy current probe Type 2 is applied to inspection of the weld zone inducing the eddy current parallel to the weld line as shown in Figure 3 (b). Two detector coils are connected for the differential, thus the probe has very little noise from weld zone.

[Investigation of Eddy Current Testing of Weld Zone by ...](#)

Eddy-Current Inspection is a Non-Destructive Testing method which can be used to detect and quantify surface breaking and near surface defects in materials, components and structures. We can provide tube inspection of non-ferrous tubes and weld & general surface inspection.

[Electromagnetic and eddy current NDT in weld inspection: A ...](#)

Eddy-current testing (also commonly seen as eddy current testing and ECT) is one of many

electromagnetic testing methods used in nondestructive testing (NDT) making use of electromagnetic induction to detect and characterize surface and sub-surface flaws in conductive materials.

[Eddy-current testing - Wikipedia](#)

Eddy Current Weld Inspection The importance of weld inspection is becoming increasingly important as customer expectations rise. Products and components are expected to be of a high quality and not to fail unexpectedly.

Welds testing - OKondt

The operating principle of ET detectors is based on the eddy current method, which consists in the distortion of eddy currents in the local test zone, followed by recording the changes in the electromagnetic field of the eddy currents that are caused by the defect and the electrophysical properties of the test object. This method is characterized by small test depths, as it is used to detect cracks and discontinuities in the material at a depth up to 2 mm.

[Eddy Current Testing - A Definitive Guide - TWI](#)

Inspecting laser welds with Eddy Current Testing (ECT) pencil probes is very operator dependant, therefore rather slow and Inspecting Laser Welds in Component Manufacturing of varying quality.

[Eddy Current testing and documentation, plant and ...](#)

Eddy Current Testing (ECT) Eddy current techniques are commonly used for the non-destructive (NDT) examination to detect surface and near surface defects of a large variety of metallic structures, including heat exchanger tubes, aircraft fuselage, and aircraft structural components.

[Eddy Current Testing - Electromagnetic NDT Inspection - TWI](#)

An advanced ECT technique for weld inspection, eddy current array (ECA) for weld inspection makes it possible to detect small cracks, inclusions, and other flaws that are unlikely to be detected in other ways. This allows for a greater level of assurance in the quality and reliability of the welds that quite literally hold the world together.

The Eddy Current Testing (ECT) Weld Probe Inspection Procedure requires a certain workflow of scanning in accordance to the standard BS EN 1711 now superseded by ISO 17643 (Non-destructive examination of welds - Eddy current examination of welds by complex plane analysis). More information on this standard can be found at the BSi Website.