

Reflection-type probes for eddy current flaw detection in steel.

Brunel University - Eddy Current Probes



Description: -

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Straight surface pencil probe (Reflection type)

A method of non-destructive testing a surface, substantially as described herein with reference to Figures 5 to 8 of the accompanying drawings. Olympus also offers custom probe designs to meet specific inspection requirements.

The Advantages of Flexible NDT Probes for Eddy Current and Ultrasonic Testing

Most probe types pencil, spot, ring, bolt hole, etc.

The Advantages of Flexible NDT Probes for Eddy Current and Ultrasonic Testing

This means that they will give a wider frequency range. As long as the driver produces eddy currents, the pickup will detect them and some signal will be displayed. Using empirical or theoretical techniques, skilled practitioners have been able to determine appropriate inspection frequencies for a given inspection type with a given coil design, depending on the material properties and the instrument characteristics.

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It makes more sense to qualify the description according to the displayed signal, since this is what really matters and not many people are concerned as to how the coils are connected internally. The apparatus includes an oscillator to drive the winding 3 and an amplifier to process a signal from the sensing winding 2. Another object of this invention is the provision of a reflection-type eddy current probe which is completely compatible with conventional eddy-current instruments.

Eddy Current Probe Selection Information

This section features many of the standard design probes that are available in a wide range of diameters, frequencies, and connector styles. BRIEF DESCRIPTION OF THE DRAWINGS The invention, together with objects and advantages thereof, will be better understood from the description when considered in conjunction with the drawings. The instrumentation is conventional, although in this example it is possible to

connect the input positive connection to earth and to use only a 3-core cable to communicate with the probe.

Eddy current probe and method for flaw detection in metals

Flexible NDT probes are an ideal solution that can help technicians conduct a continual inspection to provide complete coverage. Reference now is made to FIGS.

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The source winding 10 and detector winding 12 function as transformer primary and secondary windings, respectively, and FIG. In Figure 2, instead of a drive coil 3 there is a dummy, i.

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Single port probes are shown, for example, in U.

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