



Test body acc. to Prof. Berthold

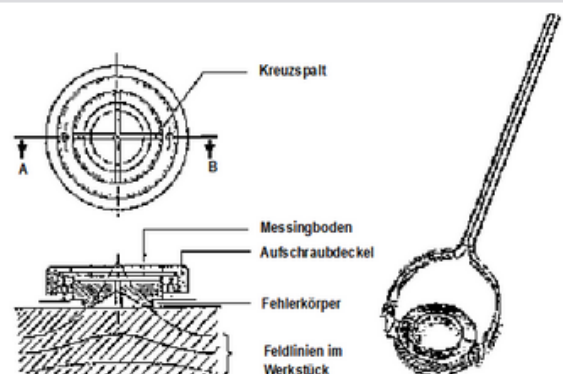


Product characteristics

- The control body is a simple test device for determining the display sensitivity in magnetic particle testing.
- The direction of the magnetic field can be determined
- Suitable for magnetic flux leakage testing

Dimensions and Weights

Diameter:	20 mm
Height:	5 mm
Length:	95 mm
Weight:	24 g



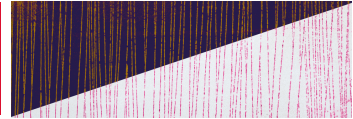
Structure

The test device consists of a flat, remanence-free shielding ring in which a soft iron cylinder is inserted, consisting of four sectors. These sectors are separated from each other by non-magnetisable slots and form two perpendicular air gaps. A capsule with a thin brass base is screwed onto the soft iron cylinder. The bottom of the capsule can be removed from the base to a greater or lesser extent by rotation.

Technical changes reserved!



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Working method

If the test fixture is placed on a magnetised workpiece, a part of the magnetic lines of force flows through the soft iron cylinder. When magnetic powder is sprinkled on or an oil suspension is poured on, one or the other gap of the cross slot is formed on the capsule, depending on the field direction.

The further the capsule can be turned upwards from the soft iron cylinder without the magnetic powder indication disappearing, the more sensitive the indication achievable with the test method in question, whether as a result of high current strength and/or the quality of the oil suspension used. To determine the direction of the magnetic field, slowly rotate the test piece around its axis until the image of the gap shows a clear maximum. In this position, the magnetic field is perpendicular to the imaged gap.

Item number: 611

****Technical changes reserved!****