



NDT Pie Gauge

Magnetic Flux Indicator Gauge

The Pie Gauge is a tool for quickly verifying the direction of magnetic flux on a surface. It is made from eight ferrous segments, braised into a single piece, providing a star pattern of non-ferrous discontinuities. Typically used with dry powders for yoke inspection, the Pie Gauge can be held at any angle and will generate indications perpendicular to the direction of the magnetic flux. A similar test gauge, the Berthold Penetrator, uses four instead of eight ferrous sections and is commonly used in Europe.

FEATURES

Eight linear discontinuities to provide indications in all directions

Non-ferrous handle with pivot.

INSTRUCTIONS

Place the pie gauge as flat as possible on the test surface with the visible pie sections facing down. Magnetize the surface and apply magnetic particles. Indications will form along lines crossing the direction of the magnetic flux. Indications perpendicular to the magnetic flux will be stronger and more well defined than indications at an angle. No indications will form parallel to (in line with) the magnetic flux.

Note: the pie gauge does not indicate magnetic field strength.



SPECIFICATION COMPLIANCE

- MIL-STD-271
- ASTM E709

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