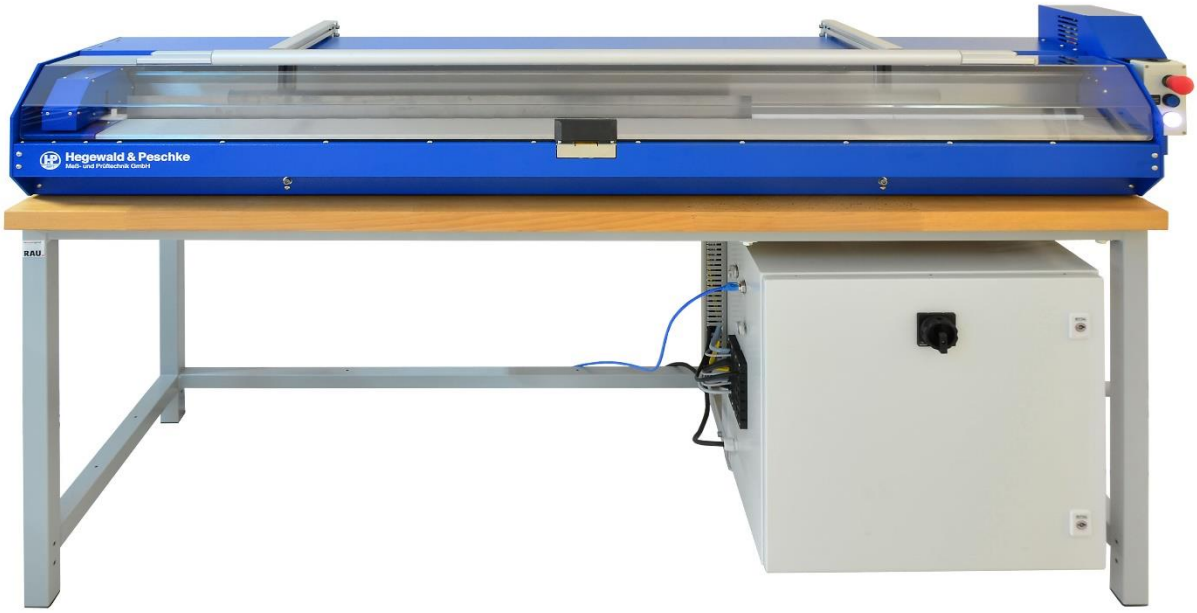
Hegewald & Peschke
Meß- und Prüftechnik GmbH

Product information

Measuring device for determination of sheet thickness on sheet metal strips



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Application:

The measuring machine is suitable for the semi-automatic measurement of the thickness of sheet metal strips at any position along the total length in a fixed measuring plane. It has an electric motor-driven measuring carriage on which a measuring bridge with two pneumatically driven measuring probes arranged opposite each other is mounted. These measure the thickness of the specimen using the addition method (see Fig. 2).

A workpiece fixture enables the specimens to be inserted and fixed manually with simple and accurate positioning. To avoid collisions, the basic position of the measuring bridge is outside the measuring range. Furthermore, the (retracted) initial position of the measuring probes is monitored by sensors, thus avoiding travel movements with extended probes. All drive, sensor and safety functions are handled by a central, factory-parameterised control unit.
Operation is performed via the LabMaster testing software. This allows a wide variety of measuring sequences to be conveniently parameterised via the block programme and specimen-specific information to be added. All data is also securely stored in an SQL database and can be evaluated, statistically analysed and logged at any time. The distinctive search function makes it possible to analyse test results bundled and over a certain period.
The machine is supplied as a unit consisting of a table-top unit and workbench with a built-in control cabinet.

Specimen specifications:

Thickness	0.35 - 10 mm
Height	70 - 110 mm
Length	120 - 1800 mm
Flatness	< 2 mm

Technical data:

Measuring range	0 - 10 mm
Measuring accuracy	±1 µm (at 20°C)
Measuring level	65 mm above specimen support
Compressed air connection	6 bar (coupling plug NW7.2)
Electrical connection	230 VAC, 1 kVA, 50 Hz
Dimensions	2200 x 1420 x 740 (incl. workbench)
WxHxD [mm]	approx. 250 kg

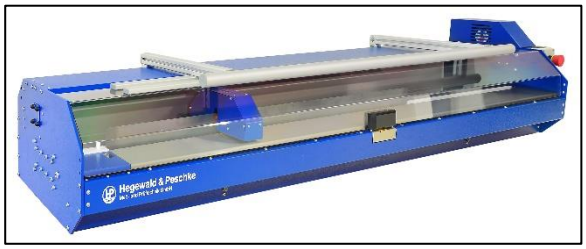

Fig. 1: Measuring device during measurement

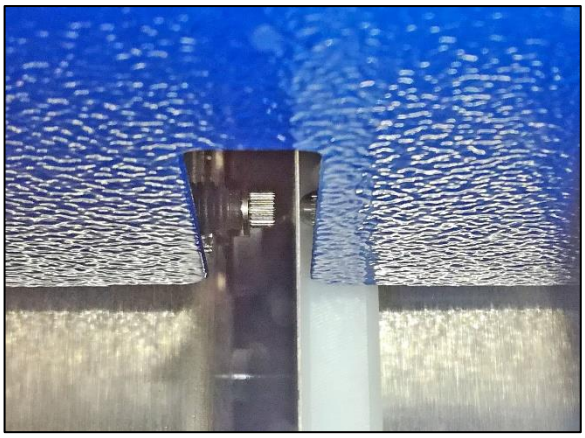

Fig. 2: Measurement by two opposing pneumatic measuring probes