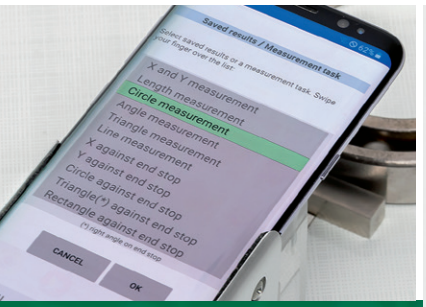
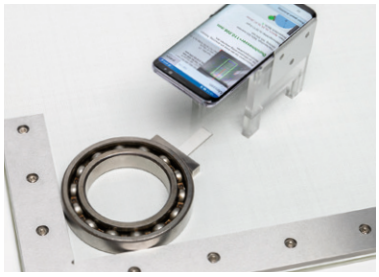
2D Measuring System
MICRO CONTROL

High-precision determination of dimensions and geometrical accuracy of thin and flat objects (parallelism, angle, diameter, length, linearity)

Polygraphische innovative Technik Leipzig



Scan here for product video.



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Working Principle

The measuring system is based on a reference surface that is designed as a coded coordinate system, the PointArea. Measurement tools are used for mechanically contacting the object to be measured. These measurement tools also feature a separate coordinate system. A smartphone captures an image of the measurement tool and the PointArea. Through internal calculations in the smartphone, the position of the measurement tool and consequently the edge of the measured object can be precisely identified. The operator is guided intuitively through a user-friendly smartphone app. Measurement results are immediately displayed and visually depicted.

Scan here for product video.

PITSID develops, produces and sells measuring systems, supported by the Sächsisches Institut für die Druckindustrie. The measuring systems are used for quality control and to increase efficiency during adjustment and maintenance operations.

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Innovative System for Precisely Measuring Two-dimensional Objects

The 2D Measuring System MICRO CONTROL is an innovative system for precisely measuring primarily (thin) flat objects. The dimensions and geometry of objects of various sizes can be determined with a resolution in the µm range with very simple user operation. Even extremely thin objects, such as paper or cardboard, can be measured with the system. The system is particularly effective at measuring linear dimensions, determining angles and measuring lengths. The coordinate system can have a maximum dimension of 8x8 m. The ambient temperature is taken into account and is compensated for. All measurement data is displayed and saved. The saved data can be exported to a PC for protocol generation.

End-user Industries

Printing and packaging industry, metal and plastic manufacturing, optics industry, fabrication industry

Technical Data

Dimension determination
Parallelism, straightness, angle, diameter, length, width

Measurement area
Up to 8 m x 8 m

Response time/Measurement duration
< 1 s

Accuracy up to
± 10 µm for linear measurements
± 0.01° for angle measurements
± 20 µm for length measurements

Operating temperature
15 ... 30° C

Measuring device weight
< 800 g

Scope of delivery
Mobile measuring device (smartphone), incl. holder, coordinate system in customer-specific dimensions (PointArea), measurement tools