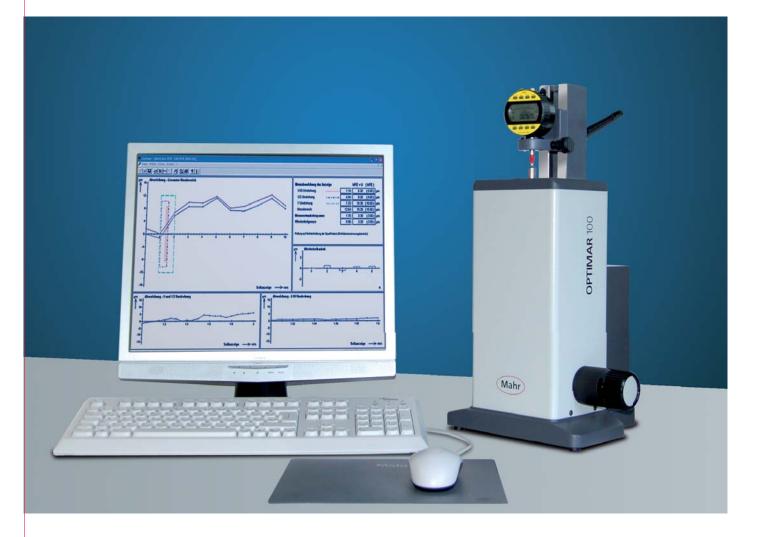
Precimar



Optimar 100 Universal Dial Indicator Testing Machine

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Mahr Mahr

Optimar 100

Universal dial indicator testing machine

Description

The cost-effective testing station for semi- or fully automated testing of dial indicators, dial comparators, lever-type test indicators, 2-point inside measuring devices, and inductive and incremental probes.

Designed as a table-top unit, the OPTIMAR 100 is user-friendly and ensures fast test runs. It features a motorized drive and is equipped with a high-resolution measuring system. The test run is software-controlled.

Features

- For dial indicators, dial comparators, lever-type test indicators, 2-point inside measuring devices, digital dial indicators and inductive and incremental probes
- Automation of sub-processes (automated pre-positioning) using motorized measuring spindle drive
- Fully automated measuring run for digital devices
- OPTIMAR 100 may be used horizontally (e.g. for measuring 2-point inside measuring devices)
- Testpiece mounting via vertical guide. Height can be adjusted quickly (adaptation of testpieces to different measuring ranges)
- · Box-shaped and thus rigid machine casing
- For testpieces with a shaft diameter of 8 mm, 28 mm or 3/8"
- Electronic handwheel for manual control of the measuring spindle's movement. Self-adjusting sensitivity of the electronic handwheel for adaptation to the specific test specimen. • Ergonomic design of all control elements
- · Compliance with the Abbe comparator principle for maximum
- measuring accuracy • LIF 101 measuring system with computer-aided error compensation. Testing of 2-point inside measuring devices without loss of accuracy
- Length measuring deviation in vertical and horizontal directions: MPE = $(0.2 + L/250) \mu m^*$, L in mm at T = 20 °C ±0.5 °C,
- permissible temperature gradient 0.1 K/h Mahr software "Optimar" or QMSOFT[®] / QM-DIAL 32

* For serial nos. 2041/11 and higher

Testing according to standards

• Optimar 100 enables fast and easy testing of dial indicators, dial comparators as per DIN 879 and DIN EN ISO 463 respectively, and lever-type test indicators as per DIN 2270, as well as for selected testing devices also per BS, NF, JIS and ASME standards.



Accessories

- Mount for lever-type test indicators
- · Large selection of adapters for digital dial indicators and inductive and incremental probes
- Please ask for customized adapters if required
- Probe can be connected to Optimar via probe box
- Holder and software for testing 2-point inside measuring devic es with a movable measuring bolt (testing as per VDI/VDE/DGQ 2618, sheet 13.2., 2005)
- Device for force sensor on request
- OPTIMAR recalibrated on site by Mahr Service Center (DAkkS / DKD accreditation as per 17025)
- Calibration set for calibration by the operator

Technical Data

Optimar 100

Positioning

Order No. 5320005 100 mm, 4 in (101.6 mm) Range of measuring spindle Measuring system LIF 101 with correction of measured values Digital increment 0.02 µm (0.8 µin) Length measuring deviation (MPE) $(0.2 + L/250) \mu m^*$, (L in mm) Positioning speed Max. 2 mm/s (0.08 in/s) Pre-positioning: Automatic

Fine positioning: Electronic knob Supply voltage Via plug-in power supply unit 110/230 V/9 V AC, 18 VA Dimensions $(L \times W \times H)$ 235 mm x 216 mm x 480 mm (9.3 in x 8.5 in x 18.9 in) * For serial nos. 2041/11 and higher

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We reserve the right to perform modifications to our products, particularly technical improvements and further developments. Illustrations and numerical data are therefore not binidng.

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