ABBE

Universal Comparator with 100 mm probe



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Deuts	che Akkreditierungsstelle GmbH
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- For external length measurement
- · Easy to operate
- With buyer's choice of digital display, or direct PC link
- With special accessories and software modules for standard-conforming calibration of plain and thread plug gauges and measuring pins



General

ABBE

Examples of applications

Configuration:	
Measuring System:	
Drive:	

Salient features:

- Vertical comparator
 High-resolution probe 100 mm
 Motorized drive of the measuring slide, with external control unit
- Strict adherence to Abbe's comparator principle Various configurations:
 - Basic version:

Digital display by Heidenhain – optional PC link with V.24/RS232-C or USB

Extended version: Direct PC link via Heidenhain IK220 with powerful software for measurement and inspection tool management:

- Computer-aided correction of systematic instrument errors (CAA)
- Computer-aided correction of temperature influences
- Special software modules, e.g. for testing measuring pins, external threads and other objects

Measuring ranges

Direct measurement:0 ... 100 mmComparative measurement:0 ... 250 mm

Dimensions, weight

Overall	dime	nsions

length x depth x height: Weight of instrument: Max. permissible weight of testpiece:

25 kg t 15 kg

300 mm x 300 mm x 510 mm

Performance data Mechanical, with carbide-tipped precision-ground styli, hardened steel balls Probing: Threads for crew in contact tip M2.5; Diameter for push-on contact tip 6 mm Measuring pressure: 0.7 N **Basic version** Extended version Digital display by Heidenhain direct PC link via Heidenhain Configuration: PCI-card IK220 1 µm / 0.1 µm 1 µm / 0.1 µm / 0.01µm Resolution: Uncertainty of length (0.25 + L/1000) µm measurement: (0.5 + L/1000) µm

Power requirements

Line power: Frequency: 110 V, 127 V, 220 V, 240 V (+10%; -15%) 50 ... 60 Hz

Environmental requirements

Ambient temperature for operation:

+ 15°C ... + 25°C

Ambient temperature for ensuring the specified length measuring uncertainty: 20°C ± 1 K

Permissible temperature Fluctuation:

0.3 K/hour



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Testing a limit plug gauge

Testing a short measuring pin

(0.25 + L/1000) μm with computer-aided correction systematic instrument errors (CAA)