

Precimar. LINEAR 100 with MarCheck

Description

Internal and external measurements on workpieces < 100 mm

LINEAR 100 is a universal, user-friendly length measuring instrument for rapid, precise internal and external measurements up to 100 mm (4 in), directly in the manufacturing environment. The unit's simple design makes it possible to carry out measurements in no time at all and adapt quickly to new measurement tasks.

LINEAR 100 measuring station consisting of:

Linear 100 universal measuring instrument including height adjustable 70 x 70 mm object table with electronic display (MarCheck) and connection cable. (Display switches between English and German; with RS 232 interface.)

- Measuring anvils for internal measurements from 15 mm to 100 mm and external measurements from 0 mm to 100 mm (Measuring anvils for external measurements: planar diameter of 6.5 mm)
- Cardboard packaging

Features

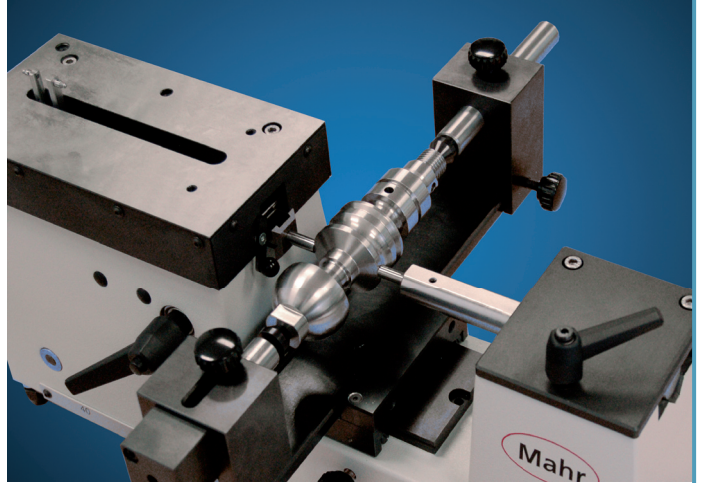
Key features at a glance:

- Damped measuring spindle with 2 pre-selectable measuring forces
- Measuring force remains virtually constant over the entire measuring range
- Direct measuring range of 50 mm
- Integrated measuring system based on the Abbe principle
- Infinitely adjustable measuring tables for precise measuring position adjustment
- Combined internal/external measurement possible without recalibration
- Easily exchangeable anvils which can be tailored to suit the specific measurement task
- Solid cast body to avoid stresses and twisting errors from the outset
- "MarCheck" measuring and evaluation unit (with optional stand)
- The "MarCheck" with 3 channels, with USB connection for printer or stick, with USB connection to PC RS 232 interface, making it easy to transfer measured values to PCs
- MarCom software (optional) allows measured values to be transferred to all Windows programs (e.g. Microsoft Excel)
- Various sets and accessories are available on request

Accessories / Options

- Set for outside measurements
- Set for inside measurements
- Set for center support
- Support plate for cylindrical workpieces
- Footswitch, data cable, stand
- Outside and inside probe with bore M2.5 for gear measuring balls

Universal single-axis length measuring instrument



LINEAR 100. Technical Data

Length measuring deviation MPE (0.7+L/1000) μm (L in mm)	
Direct measuring range	50 mm (2 in)
Application range	
for external measurements:	0 mm to 100 mm (0 in to 4 in)
for internal measurements:	15 mm to 100 mm, (optional 6 mm to 100 mm)
Support tables	Height adjustable for internal and external measurements
Measuring force	Can be set to 1 N or 3 N
Order No.	5357300/01 Linear 100 measuring station

Display electronics MarCheck

Dimensions	L 260mm / W 180mm / H 50mm
Weight	Electronics with plug-in power supply: 2 kg (without unit base)
Display	LCD monochrome, 240 x 160 pixels with background illumination Digit size measuring axes ca. 13 mm
Resolution per measuring channel can be independently set	0.0001mm; 0.001mm; 0.01mm 0.00001inch; 0.0001inch; 0.001inch 0.001° decimal; ° min, sec
Incremental inputs	T1; T2; T3 sin/cos 1Vss 15 pol. sub D
Data interfaces	1x RS 232, 1x USB slave connection to PC for data exchange and software installation, 1 x USB master 16FAT max. 3GB USB stick; connection to USB printer, preferably Mahr no. 4429015 Only the print record HP PCL5 is supported
Unit of measure	mm / inch can be set in the MENU

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