



Hegewald & Peschke

Meß- und Prüftechnik GmbH

Data sheet

1D-length measuring device

Robust design for heavy workpieces and harsh environments,
tabletop



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General Product description

Our very robust 1D measuring device is a digital length measuring device made of steel and is used for length measurement on rod-shaped workpieces, tubes, profiles, rods, blanks, etc. in production environments. For measuring tasks where accurate measurements are a challenge, we offer a cost-effective alternative with this product. With the 1D-measuring device we guarantee a safe and fast measurement with easy operation in a rough production environment.

Features

- safe and fast measurement with simple operation in harsh production environments
- very robust basic construction - allows a long service life with good operating characteristics
- magnet-incremental measuring system - works insensitive to dust, dirt, moisture and oil
- sheet metal cladding - protect guide, digital display and measuring system
- simple installation - no time-consuming adjustment work

Effective measuring lengths: 1250 mm, 1600 mm, 2200 mm (other on request)

Measuring accuracy standard: $\pm (0,05 \text{ mm} + 0,02 \text{ mm} \times L)$, L=measuring length in m

Measuring accuracy heightened: $\pm (0,02 \text{ mm} + 0,01 \text{ mm} \times L)$, L=measuring length in m

Workpiece support: Steel, bright and flat, approx. 95 mm wide (standard)
optional: movable workpiece supports with guide rail

Dimensions:
approx. 1550 x 500 x 500mm (measuring lengths 1250 mm)
approx. 1900 x 500 x 500mm (measuring lengths 1600 mm)
approx. 2500 x 500 x 500mm (measuring lengths 2200 mm)

Power supply: 100-230VAC; 50/60Hz; 35VA

Standard accessories/ Scope of supply: Measuring device basic device, incl. measuring trolley, measuring system with normal or heightened accuracy
(without measuring tools and table base)





Optional and necessary accessories

Display devices and software

LG20-1 display unit:

- Simple display without interfaces
- Magnescale® display unit with reset/preset function. One measuring channel can be connected.
- Display of one axis
- Bracket for table mounting, rotatable and tiltable



LG20-1 with table bracket and protective cover

Display unit M3:

- Display with RS232 and USB interface
- Digital display unit M3 (4.3-inch colour touchscreen, can be operated with gloves) incl. RS232 and USB interface
- Bracket for table mounting, rotatable and tiltable
- Includes connection adapter cable for Magnescale® measuring system
- Includes USB cable and power supply for display unit
- When the M3 display unit is connected to a computer's USB port, the operating system (Windows, Mac OS, etc.) recognises and installs it as a standard USB keyboard. When measured values are transferred (key press), the values appear on the PC at the position of the cursor. No additional drivers/software are required.



Display unit M3 with table base

Table base (also mobile), workplace accessories

(Exemplary presentation, further alternatives possible)



Workbench



Height adjustment



Roller set



Workbench with lowerable running gear



Roller shutter cabinet for CPU



Base frame drawer

Measuring accessories Standard

Measuring stops standard:

"Standard" means that the bare carrier surface serves directly as workpiece support and the contact surfaces are mounted just above the carrier surface. A continuous side stop bar (accessory) is used to align the workpieces. Workpiece supports are not required.

- Measuring stops for holding touch surfaces 33-016-02x
- Lateral stop bar over total length, hardened, ground

Measuring stops heightened:

"Heightened" means that additional workpiece supports can be attached to the carrier surface and therefore the contact surfaces are "heightened". A lateral stop bar is not required, as the workpieces are aligned by workpiece supports. The "protective strip" must be fitted in place of the missing lateral stop rail.

- heightened measuring stops, to accommodate measuring contact plates 33-016-02x
 - Protective strip over total length (replaces the lateral stop strip not required)
- **Workpiece supports for workpiece weights up to approx. 15 kg:**
A steel guide strip is screwed onto the carrier surface, on which the workpiece supports can be positioned.
- Guide strip for positioning the workpiece supports
 - Workpiece support 120° for guide rail, PA6
- **Workpiece supports for workpiece weights from approx. 15 kg:**
A steel ball rail guide is screwed onto the carrier surface, on which the workpiece supports can be positioned. Rail guide with two carriages to accommodate workpiece supports (2200mm)
- Workpiece support 120°, steel with interchangeable inserts, for carriage
 - Workpiece support 120°, PA6, for carriage

Measuring contact plates

Suitable for standard measuring stops and heightened measuring stops.

- Probes plane parallel H=120 mm for measuring stops 33-016-02x
- W=16 mm, contact surfaces plane parallel H=120 mm for measuring stops 33-016-02x
- W=100 mm, contact surfaces cylindrical R=8; H=120 mm for measuring stops 33-016-02x

