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Member of
Measurement
Valley

Linear 100

Linear 100 with UNITRON 2 CHA

Universal single-axis length measuring instrument with 2-channel display

Data
Order No
5357001
5357010

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, 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.

The **LINEAR 100** is very flexible when it comes to external measurements, with a direct measuring range of up to 50 mm (2 in) and an application range of up to 100 mm (4 in).
For internal measurements, the application range is 15 mm to 100 mm (0.59 in to 4 in), with the additional option of 6 mm to 100 mm (0.24 in to 4 in). It is possible to switch from internal to external measurements at any time without having to recalibrate.
The instrument can be used to measure lengths and diameters. This allows multifaceted measuring tasks to be solved, for example on the dimension over two balls on outer gears.

LINEAR 100 measuring station consisting of:

Linear 100 universal measuring instrument including height adjustable 70 x 70 mm object table with electronic display (Unitron) and connection cable. Display software swtiches 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
- 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
- UNITRON 2CHA 2-channel display (with optional stand)
- The UNITRON display has an RS 232 interface, making it easy to transfer measured values to PCs.
- Optoface software (optional) allows measured values to be transferred to

all Windows programs (e.g. Microsoft Excel)
. Various accessories are availalbe on request

LINEAR 100. Technical Data

. Length measuring deviation MPE (0,7+L/1009) µm [L in mm]
. Direct measuring range   50 mm
. Application range   For external measurements: 0 to 100 mm
                                   For internal measurements: 15 to 100 mm
                                   6 to 100 mm possible upon request
. Support tables   Height adjustable for internal and external
measurements
. Measuring force   Can be set to 1 N or 3 N, switchable externally
and internally
. **Order no.**   **5357001** Linear 100 measuring station

UNITRON 2 CHA. Technical Data

. Display   10-digit, 13 mm height, two columns
. Resolution (switchable)   0,0001/0,001/0,005 mm
. Interface   V24 (RS232)
. Dialog display   16-digit, with password protection
. Measuring functions
         REL: Adopts values as interim reference
         +/-: Reverses measuring direction
         CHA:Changes channels (1+2)
         MIN: Records the minimum measured value
         MAX:Records the maximum measured value
         DIF: Displays the difference between the minimum and maximum
values
            (radial run-out measurement)
         TOL: Displays analog tolerance (bar graph)
         PRE: Display preset value
         CLR: Reference point (sets zero point)

Accessory Sets			**Data**
			Order No
			5357260
			5357261
			5357262
Set External Measurements with measuring inserts	**Set Internal Measurements**	**Set Center support**	
Order no. 5357260 consisting of:	Order no. 5357261 consisting of:	Order no. 5357262 consisting of:	

- Pair of measuring inserts with plane Ø 2mm
- Pair of measuring inserts Ø 6.5 (also in standard scope)
- Pair of mounts for measuring inserts with thread M 2.5
- Pair of mounts for toothed measuring inserts with thread M Ø 3.5
- Packaging

- Floating table
- Internal probe pair > 5 mm, (also in standard scope)
- Prism 108° for roundness measurement
- Packaging

- Floating center support
- Pair of centering tips 60°, outside taper Ø16 mm
- Pair of centering tips Ø 10/25
- Hollow tip for centerless objects Ø 6-20
- Lifter
- Wooden case

Precimar Linear 100 - Flyer english

Filename	Precimar_LINEAR100--flyer--en.pdf	Date	2008-04-17
Description	Precimar Linear 100 Flyer, English	Size	90 KB
Platforms		Version	April 2008