

# Product information

## Precision length measuring machine Precimar CIM 1000 CNC

### Product features

The Precimar CiM 1000 CNC precision length measuring machine is an Abbe-compliant comparator with horizontal base bed (highly homogeneous, rigid granite)

### Package contains

Standard software 828 WIN "Free measuring", PC evaluation unit (without monitor), 2 parallel gage blocks 60/20, 2 plug-in heads Ø 5mm, 2 quick clamps, Pair of measuring brackets 90/60 Ci/a, USB stick, Accessories package

Item no.: **5350701**



### Application

Calibration of:

- Plain plug gages and gage rings
- Setting gage rings
- Snap gages
- Spherical gage blocks, internal micrometers
- Gage blocks
- Thread gages
- Taper thread gages
- Gear gages
- Dial indicators
- Dial comparators
- 2-point bore gages
- Outside micrometers
- 2-point inside micrometers
- Precision length measurement
- Measurement of thin-walled and deformed workpieces

### Technical data

<b>Measuring range for outer measurement [mm]</b>	0 to 1000
<b>Table surface (A x B) mm</b>	150 x 350
<b>Measuring range for inner measurement [mm]</b>	0.5 to 845
<b>Direct measuring range [mm]</b>	300
<b>Position deviation / error limit (L in mm) [µm] *</b>	$\leq (0.04 + L/2000)$
<b>Measuring uncertainty <math>MPE_{E_1}</math> (L in mm) [µm]</b>	$\leq (0.055 + L/1500)$
<b>Measuring forces [N]</b>	0 to 13.9
<b>Repeatability [µm]</b>	$\leq 0,03$
<b>Contacting speed with joystick (max)</b>	8
<b>Device length [mm]</b>	2500
<b>Mass [kg]</b>	840