

Product information

Calibration measuring instruments Precimar ULM 300-E

Product features

ULM-E universal length measuring comparator instruments are mounted on highly homogeneous rigid granite in a horizontal configuration

X-axis measuring system:

Heidenhain incremental, precision length measuring system, 100 mm long

Z-axis measuring system:

Renishaw incremental, precision length measuring system, 80 mm long



Package contains

Standard software 828 WIN "Free measuring", PC evaluation unit (without monitor), Magnetic holder for temperature probe, Pair of measuring brackets, immersion depth 14 mm, 2 parallel gage blocks 60/20, 2 quick clamps, 2 measuring heads with spherical zone, Setting gage 2, USB stick, Weights 0.25/0.5/1.0/2.0N, Hexagonal wrench, Screwdriver, Accessories package

Item no.: 5350258

Technical data

Device dimensions	1080 / 1500 / 2000 x 380 x 480 ULM 300-E: 685 x 280 x 480
Measuring range for outer measurement [mm]	0 to 305
Measuring range for inner measurement [mm]	0.5 to 150
Direct measuring range [mm]	100
Measuring uncertainty MPE_{E1} (L in mm) [μm]	$\leq (0.09+L/2000)$
Measuring forces [N]	0.2 ; 1.0 to 4.5 ; 11
Repeatability [μm]	≤ 0.05
Device length [mm]	685
Mass [kg]	110

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
- Taper gages
- Dial indicators
- Dial comparators
- 2-point bore gages
- Outside micrometers
- 2-point inside micrometers
- Length measurement on precision table