

NEW PRODUCT INFORMATION

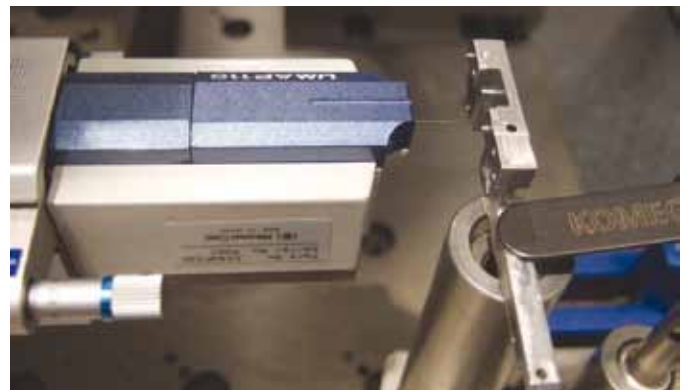
UMAP-CMM

The micro measuring head for highly accurate, detailed 3-D coordinate measurement.



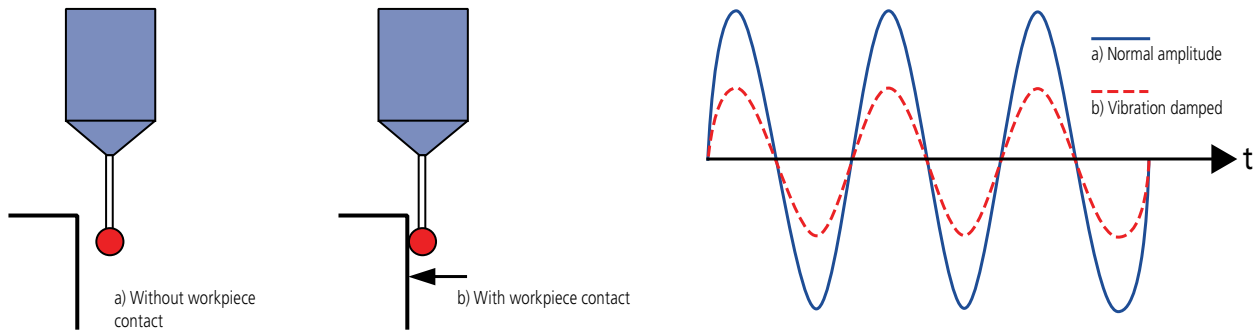
F eatures

- › Extremely large length: diameter ratio
- › Very low contact forces
- › Can be used in all directions on a PH10M

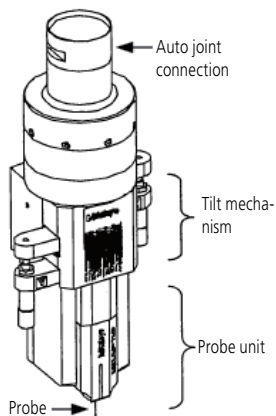
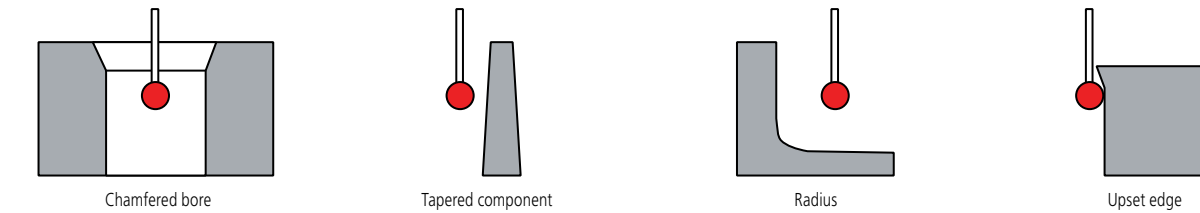


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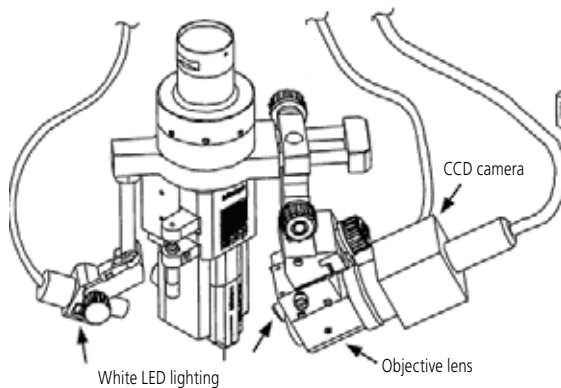
UMAP: Ultrasonic Micro and Accurate Probe



The UMAP measuring head offers the following advantages compared with image processing measuring systems for the following examples of measuring tasks:



Version 1:
Standard



Version 2:
Incl. observation system with on-board camera system with LED lighting (factory option)

- Coordinate Measuring Machines
- Vision Measuring Systems
- Form Measurement
- Optical Measuring
- Sensor Systems
- Test Equipment and Seismometers
- Digital Scale and DRO Systems
- Small Tool Instruments and Data Management

	UMAP 110	UMAP 130
Diameter	100 μm	300 μm
Shaft diameter	80 μm	200 μm
Effective length	10 mm	16 mm
Measuring speed	1 - 50 $\mu\text{m/s}$	
Contact force	1 μN	10 μN
Ambient temperature	20°C +/-1°; gradient < 1K/8h	
Humidity	55% +/-5%; gradient < 2%/8h	

Note: All information about our products in this printed material, particularly the illustrations, drawings, measurement and performance specifications, as well as other technical specifications are to be interpreted as approximate average values. In this respect, changes in construction, technical specification, measures and weights remain reserved. Our specified standards, similar technical regulations as well as the technical specifications, descriptions and illustrations of products are accurate on the date of printing. Furthermore, our general terms of business in the currently applicable revision are binding. Only the offers we make are definitive.

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