

Vision Measuring Systems

Vision measuring systems for multipurpose use

UMAP Vision System TYPE2 Micro Form Measuring System

MeasurLink® ENABLED
Data Management Software by Mitutoyo

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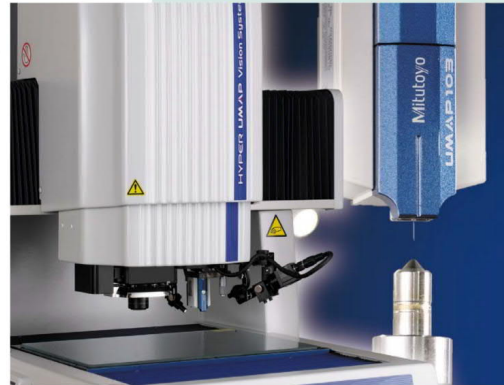
Products equipped with the measurement data output function can be connected to the measurement data network system MeasurLink® (refer to page A-25 for details).



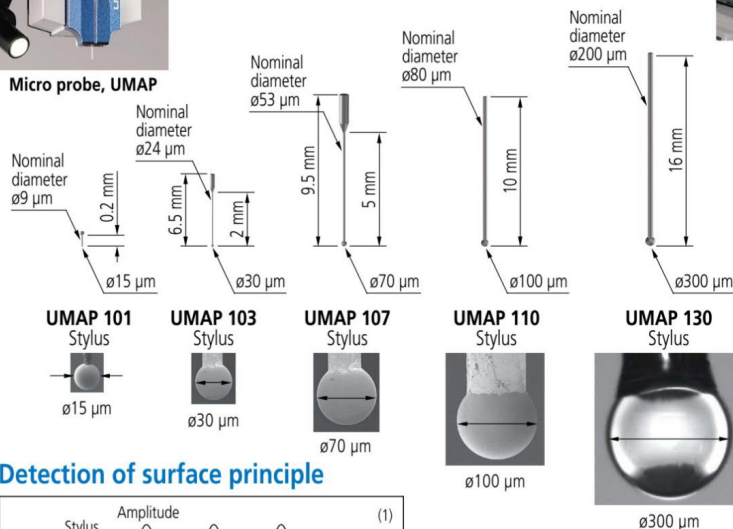
An inspection certificate is supplied as standard. Refer to page U-9 for details.

Ultrasonic Micro Probe UMAP

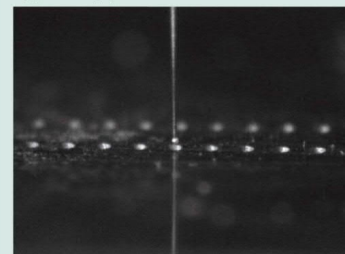
Contact measurement of a small hole's diameter and its section or contour is possible, which is difficult with a conventional Vision Measuring System or CMM. Capable of high accuracy, sophisticated, non-contact and contact measurement on one machine. With a minimum measuring force of 1 μN, it is not only less likely to mark workpiece surfaces, but also enables measurement of workpieces that are highly susceptible to deformation.



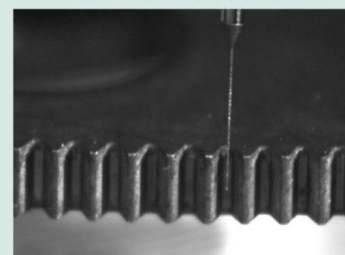
Micro probe, UMAP



Typical applications

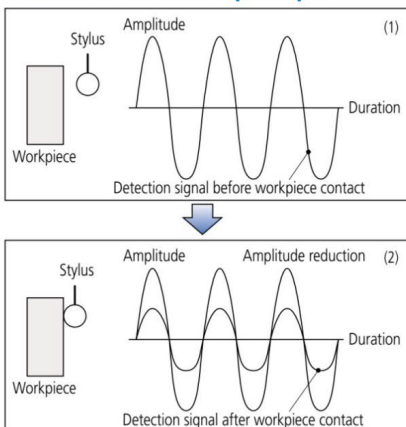


Contour measurement of a ø0.125 mm hole



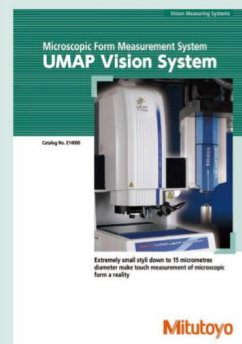
Measuring form of micro gear teeth

Detection of surface principle



SPECIFICATIONS

Items	Model No.	TYPE2	
		Hyper UMAP 302	ULTRA UMAP 404
Measuring range (common to vision and UMAP)	X axis×Y axis	185×200 mm	285×400 mm
	Z axis	UMAP 101/103	175 mm
		UMAP 107/110	180 mm
		UMAP 130	185 mm
Vision measuring accuracy	E _{1x} /E _{1y}	(0.8 + 2L/1000) μm	(0.25 + L/1000) μm
	E _{1z}	(1.5 + 2L/1000) μm	
Repeatability	UMAP 101/103/107	σ=0.1 μm	σ=0.08 μm
	UMAP 110/130	σ=0.15 μm	σ=0.12 μm



Refer to **UMAP Vision System Brochure (E14000)** for more details.

