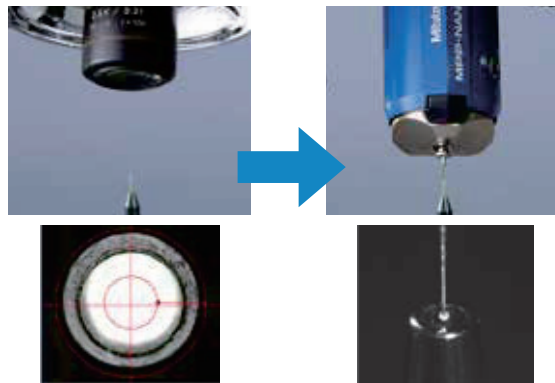




An inspection certificate is supplied as standard. Refer to page U-11 for details.

## Vision Measuring Machine with Micro-Form Scanning Probe MiSCAN Vision System

- Hybrid measuring machine with vision head and scanning probe (**MPP-NANO**, **SP25M**).
- Newly developed **MPP-NANO** probe on which styli as small as 125 μm diameter can be mounted achieves autonomous 3D scanning of fine detail. The highly proven **SP25M** scanning probe is also supported.
- Using the observation camera, the approach to the workpiece for **MPP-NANO** stylus where visual confirmation is difficult can be easily performed while also checking for dirt and scratches on the workpiece.
- Using the same vision head as the **Quick Vision** series, the best-selling vision measuring system, high level performance can be provided in vision measurement.



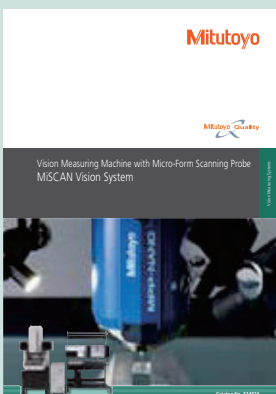
Precise positioning by monitoring the image

Measurement using **MPP-NANO** stylus

### SPECIFICATIONS

Model No.		Hyper MVS 302	Hyper MVS 404	MVS Apex 404
Measuring range (X×Y×Z)	Vision measuring area	300×200×200 mm	400×400×250 mm	
	<b>MPP-NANO / SP25M</b>	175×200×200 mm	275×400×250 mm	
Imaging device		B&W CCD camera		
Observation unit		Power turret (1X-2X-6X)		
Illumination unit		Co-axial light, Transmitted light, PRL (programmable ring light)		
Contact type probe		<b>MPP-NANO / SP25M</b>	<b>SP25M</b> only	
	Measuring accuracy	Image*	E <sub>1X</sub> , E <sub>1Y</sub>	(0.8+2L/1000) μm
E <sub>1Z</sub>			(1.5+2L/1000) μm	(1.5+4L/1000) μm
E <sub>2XY</sub>			(1.4+3L/1000) μm	(2.0+4L/1000) μm
<b>MPP-NANO</b>		E <sub>OMPE</sub>	(1.9+4L/1000) μm	—
<b>SP25M</b>		E <sub>OMPE</sub>	(1.9+4L/1000) μm	(2.5+6L/1000) μm
Scanning accuracy	<b>MPP-NANO</b>	0.6 μm	—	
	<b>SP25M</b>	MPE <sub>THP</sub>	2.5 μm	2.7 μm
Probing accuracy	<b>MPP-NANO</b>	0.6 μm	—	
	<b>SP25M</b>	P <sub>FTU, MPE</sub>	1.9 μm	2.2 μm
Repeatability (σ)	<b>MPP-NANO</b>	0.05 μm	—	
Accuracy guaranteed temperature	Ambient temperature	18 to 23 °C		
	Temperature variation	0.5 °C / 1H and 1 °C / 24H		

\* Image accuracy using a **QV-HR 2.5X** objective and 2X tube lens.



Refer to the **MiSCAN Vision System** Brochure (No.E14024) for more details.