

NEW PRODUCT INFORMATION

CMM Surftest Probe CMM Surface Roughness Measuring

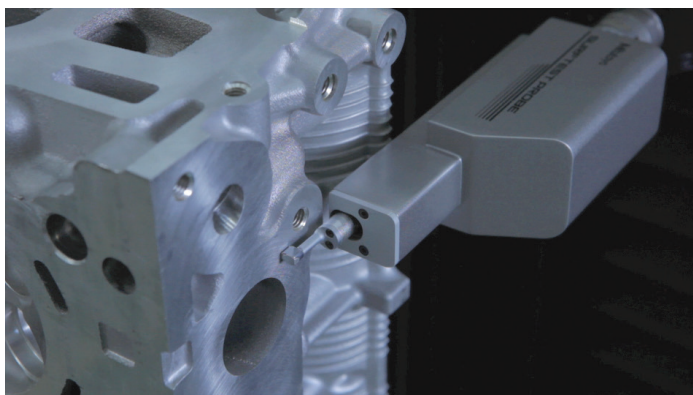
CNC CMM can be used to measure surface roughness, eliminating workpiece changeover to a second measurement device.

Mitutoyo has developed a wide range of surface roughness analysis product line-up from hand-held portable type up to CNC type Surftest with broader functions and higher accuracy. By utilizing the technologies developed over the years on surface roughness measuring machines, our Coordinate Measuring Machines can now execute surface roughness analysis by implementing a Surftest Probe and the dedicated software.

Features

- Can be attached to our CNC CMM (Retro-fitting is possible depending on the model)
- The auto joint-probe system allows probe changing automatically between scanning (SP25M) and the CMM Surftest surface analysis probe. The measurement and evaluation of size, shape and roughness, is completely automated with auto joint-probe changing.*
- PH10M(Q) allows surface roughness measurement for features requiring rotation
- The CMM Surftest Probe is derived from the successful Mitutoyo SJ-210/310 Series of Portable Surface Finish Units.

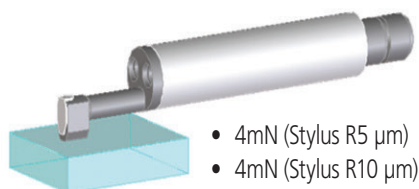
* Requires ACR3 change rack (OPTION)



Note: For new purchase of Crysta-AS700 and larger, retrofit of existing Crysta-AS CMM by request.

Detectors used for CMM Surftest Probe only

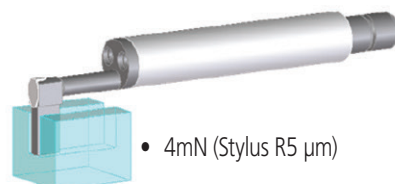
Standard-type detector



Small hole detector



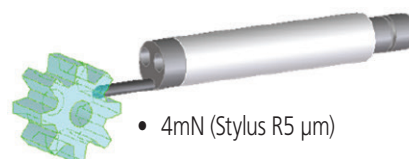
Deep groove detector



Extra small hole detector



Gear-tooth surface detector

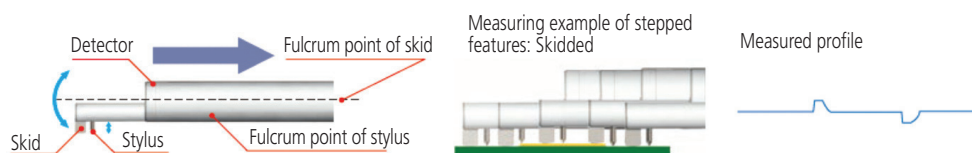


Skid Measurement Specifications

Item		Specifications
Probe (Detector specifications)	Measurement range	AUTO, 25, 100, 360 μm
	Driving range	17.5 mm
	Measurement speed	0.25, 0.5, 0.75 mm/s
	Stylus tip radius	2, 5, 10 μm *Standard-type detector only
	Measuring force	4mN (Std), 0.75mN (Opt.)
Evaluation software	Analysis software	SURFPAK-SP
	Control software	MCOSMOS
	Miscellaneous	Multi-wire autojoint probe head required (PH6M, PH10M, PH10MQ)

Skidded Measurement

In skidded measurements, surface features are measured with reference to a skid following close behind the stylus. This cannot measure waviness and stepped features exactly but the range of movement within which measurement can be made is greater because the skid tracks the workpiece surface contour.



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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

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