

Metrology Lab Devices – Hands-on Training



Mitutoyo Crysta-Apex S 544

- Measures pieces or parts, to verify that they are machined within specifications, by using a probe to measure variances in micrometers.



Mitutoyo PH – 3500 Profile Projector

- Enables the operator to perform an extensive optical/ visual inspection. It has both contour and surface illumination with a halogen bulb. It is also suitable for thread pitch measurements, free from blurred or distorted images when the workpiece is angled.



Mitutoyo RA – 1600

- Uses a probe touching surface on a round part, and verifies that the roundness is within specification as it spins. The new ROUNDTEST® RA-1600 roundness/cylindricity measurement instrument from Mitutoyo America Corporation offers high-end precision.



Mitutoyo HR – 300

- This Rockwell hardness testing machine from Mitutoyo America Corporation, offers enhanced performance with improved frames, better ergonomics and many other productivity boosting features. It verifies properties of a desired metal alloy, i.e. compression, strength, etc.



Mitutoyo LH – 600 E

- Precise measurement of the height/length of a part. Excellent accuracy of $(1.1+0.6L/600)\mu\text{m}$ with $0.1\mu\text{m}/0.5\mu\text{m}$ resolution/repeatability.
- Perpendicularity (frontal) of $5\mu\text{m}$ and straightness of $4\mu\text{m}$ are guaranteed. The Pneumatic full/semi-floating system allows adjustment of air-cushion height.



Mitutoyo SJ – 410

- Measures how rough or smooth a surface is. Both skidded and skidless measurement are possible with this series. It is Equipped with 46 roughness parameters that conform to the latest ISO, DIN, ANSI, and JIS standards.