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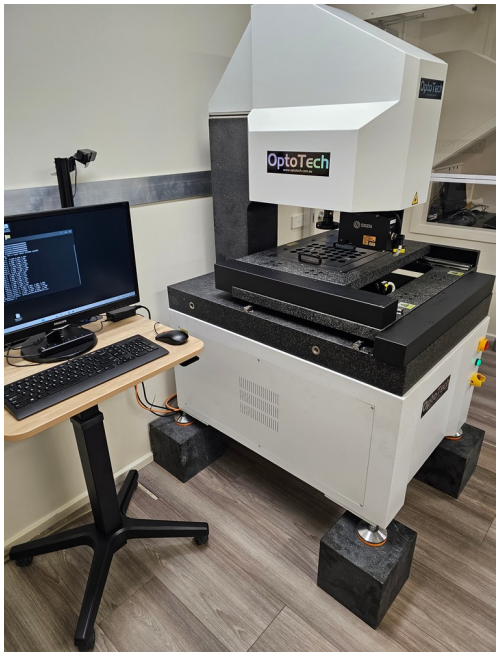
Laser Scanner Based CMM



Technology:

- Laser scanning in X and Y
- Top and bottom part scanning without touching the part
- Measurements are referenced to the part datum
- The part datum is generated through laser scanning for each part on the measuring jig

Applications:

- Measure dimensional compliance of mechanical parts in XYZ, top and bottom without touching the part
- Measure multiple parts in a single set-up

System Specifications	- The system uses laser line scanning technology	• Scanner line length – 27mm +/-2mm • Scanner resolution – 5µm • Laser wavelength 405nm • Laser power adjustable up to 10mW • Laser scanning frequency adjustable up to 1,500 Hz • Laser scanning depth of field 14mm
	- The system uses x2 identical scanners	• Top scanning • Bottom scanning
	- The system has x3 linear actuators, XYZ, with a scale resolution of 0.5µm	• The top scanner is mounted on the Z linear actuator • Travel: 200mm • The X and Y linear actuators move the part in the XY plane
	- The system has x2 rotation stages with a resolution of 1’ of arc	• The top and the bottom scanners are each installed on a rotation stage
	- System Chassis and the XY linear stages	• Manufactured from granite • Travel: 350mm x 250mm
	- System control	• Commercial computer • Proprietary firmware • Customisable GUI
	- Inspection firmware	• Customised to the specifics of the part to be measured
	- Reporting	• XYZ absolute dimensions • Customisable to the specific part and requirements

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Utility and Requirements	Operating Voltage	• 110V – 240V, AC
	Operating Temperature	• 15C to 30C
	Operating environment	• Preferably clean room
	Laser Safety Class	• 3b
	Safety	• Emergency Stop
	Dimensions (L x W x H) (mm)	• 1227 x 1101 x 1860