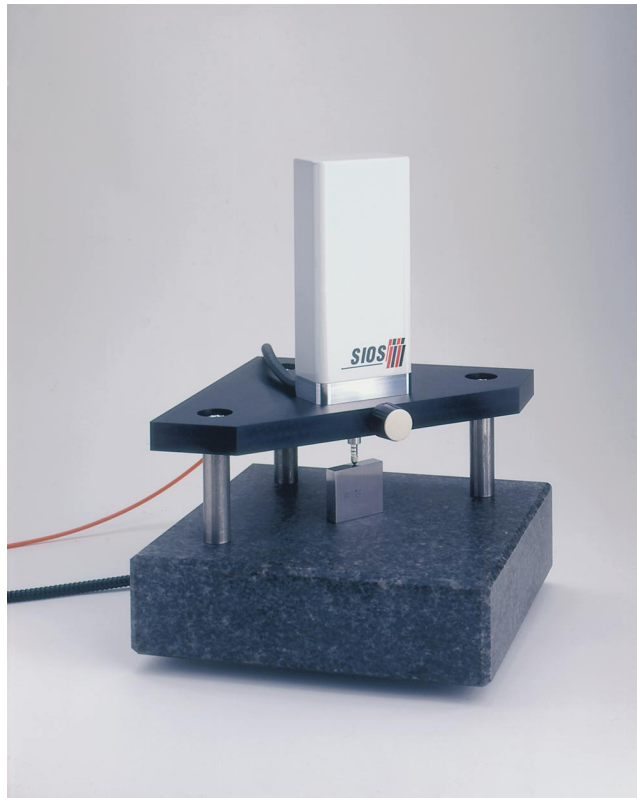


LM series laser-interferometric gauging probes



The LM series laser-interferometric gauging probes are precision length-measurement instruments allowing the contact measurement over ranges of 0 – 20mm or 0 – 50mm with nanometer precision.

The compact gauging head and 8h6-mm diameter probes allow their use with conventional length measurement systems.

The integral miniature interferometer converts displacements in the motor-driven probe shaft into optical-interference signals that are transmitted via a fibre optic link to an optoelectronic signal-processing/power-supply unit for processing and output.

The frequency-stabilised HeNe laser, which serves as a light source for the miniature interferometer, is corrected for wavelength shift due to environmental factors and allows very high metric precision.

The operation of the system and display of the results is via either a separate keypad/display or a PC running the supplied software package.

Applications:

- Precision length measurements
- Final dimensional checks
- Calibrating gauge blocks/pins/plugs, rules, dial gauges and other measuring devices
- Measuring thickness of, e.g., plastic films
- Measuring depth of indentations produced by hardness testers
- Contact surface profiling
- Measuring deformations
- Gauging tasks in R&D work at near-reference-standard precision

