



SP 15000 C5

with compact straightness measurement

Product information

Laser interferometer for high-precision simultaneous measurement and calibration of length, pitch angle, yaw angle and straightness on positioning axes

Laser interferometer measurement system

SP 15000 C5 WITH COMPACT STRAIGHTNESS MEASUREMENT

Taking high-precision, dynamic measurements of guide characteristics during the adjustment and alignment of machine axes, as well as the calibration of the axes in accordance with standards, is very time-consuming.

The SP 15000 C5 calibration laser interferometer was specially developed to meet the requirements of manufacturers of coordinate measuring machines and high-precision machine tools. It enables synchronous, continuous and, in conjunction with an optional roll angle sensor, 6-DOF measurements. All of the length, pitch angle, yaw angle and straightness variables are measured with high-precision laser interferometry, whereby the same highly stable laser frequency is used in all three length measurement channels. With the compact straightness option, the straightness mirror is mounted directly on the sensor head. This means that there are only two components that need to be assembled and aligned with each other. The measurement system can now be installed quickly and reliably, especially in tooling machines, and even where space is restricted. The fibre optic

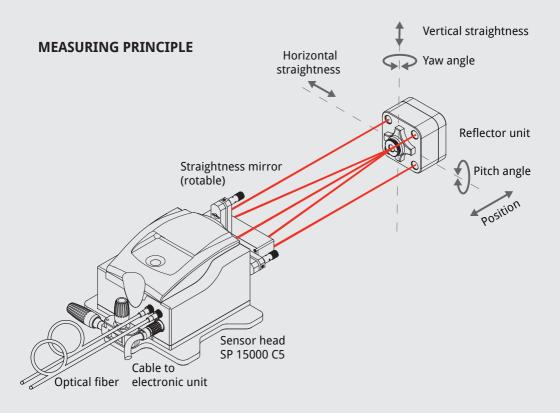
system ensures easy handling and adjustment.

For large measurement ranges or calibration tasks, the use of wireless temperature sensors or the LCS climate station is recommended.

coupling of the sensor head together with the integrated beam direction detection

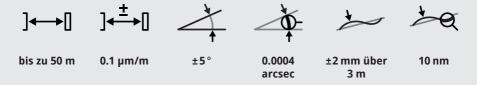
Ideal for

- Calibration
- Quality assurance
- Volumetric compensation
- Developement



Useful accessories expand the range of possible applications

- Roll angle sensors optionally available
- Beam deflection with an optional adjustable deflection mirror
- Extensive accessories for fixing and adjustment
- InfasMTCAL calibration software for calibration, error analysis and error compensation
- Support for all commonly used CNC controls
- InfasAXIS calibration software for calibration in accordance with VDI/DGQ 3441, DIN ISO 230 or VDI 2617
- InfasALIGN calibration software for aligning and adjusting guides





We develop and manufacture laser interferometric measurement technology and precision measuring instruments for calibration and nano metrology.



Length Measurement Systems



Length and Angle Measurement Systems



Calibration Systems



Vibration Measurement Systems



Gauging Probe



Nanopositioning



Measurement and Calibration systems



Stabilized HeNe Lasers



Climate Measuring Station



Measurement Software



For customer-specific versions, OEM applications or integration in special measurement stations, please contact us.

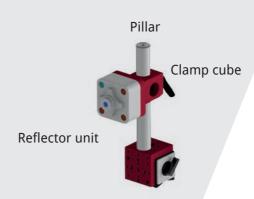
We will be happy to personally assist you in finding solutions for your measuring tasks.

SIOS Meßtechnik GmbH Am Vogelherd 46 98693 Ilmenau / Germany

phone +49 (0) 3677 64 47-0 e-mail contact@sios.de



Accessories



Magnetic base

Sensorhead with adjustable mount



Straightness reflector with angle adjustment unit

Adjustment table



Roll angle sensor RAS 175 W



Deflection mirror



