

LOTOS



Shape and position testing

- Straightness
- Circularity
- Cylindricity
- Perpendicularity
- Parallelism
- Coaxiality
- Circular run-out
- Total run-out
- Profile shape/surface shape
- Deviation from nominal contours/surfaces
- Fit (minimum circumscribed, maximum inscribed) of all measured contours

Shape and position tolerances in accordance with ISO 1101 for the entire test object, freely definable sections or individual areas can be measured:

Identification of imperfections

Geometrical measurements

- Volume
- Diameter
- Radius
- Circumference
- Length
- Angle



KoCoS Optical Measurement GmbH
 Döbereinerstr. 22
 99427 Weimar
 Germany
 Tel +49 3643 906 38-0
 info@optics.kocos.com
 www.kocos.com

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LOTOS LT

Optical 2D / 3D measuring system

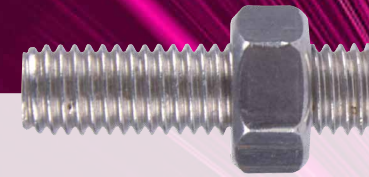
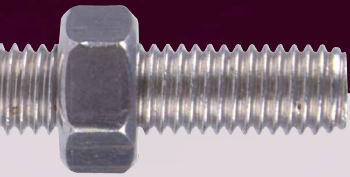
The automatic measuring system LOTOS LT is used for the precise measurement of geometries of any measuring objects, irrespective of their shape. The measurement is carried out by moving a single-point optical sensor along the outer contours of the measuring objects. Due to the extremely high sampling rate, both two- and three-dimensional measurements, including the evaluation of the results, are possible in the shortest time. The IIoT (Industrial Internet of Things) capability enables easy integration into state-of-the-art data and control environments and meets all the requirements for Industry 4.0. The powerful software offers a wide range of possibilities for quality assurance, production monitoring and control as well as for the technological preparation of new manufacturing processes.



[ENG]

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- Fast and precise inspection of geometries
- Optimal cost/benefit ratio
- Flexible fields of application
- High operational reliability and availability
- All requirements for Industry 4.0 / IIoT

Check geometry quickly and precisely

The test object is rotated on a rotary table for scanning, while a single-point sensor is moved along the test object by means of a vertical precision measuring axis. The geometry can then be checked fully automatically for predefined properties. Because of the wide range of possible uses, applications for in-process testing and for quality testing exist in almost all industries.

Cost-efficient due to wide range of possible applications

Thanks to flexible part fixtures and the large measuring range, the system enables the measurement of small parts up to heavy machine components. Whether required for tasks connected with development and optimization, or for in-process testing and process control, a wide variety of measuring tasks can be carried out flexibly and efficiently with just one LOTOS measuring system.

High operational reliability and availability

Whether used in the measuring room or in harsh manufacturing environments, the robust design of LOTOS measuring systems guarantees a long service life, while maintenance-free components from leading manufacturers ensure high reliability. All mechanical parts and sensors are dust-protected and designed to compensate for environmental influences. In addition, self-monitoring functions provide high operational reliability and accuracy even under fluctuating environmental conditions.

Equipped to meet all Industry 4.0 requirements

The comprehensive software package makes these measuring and test systems suitable for use in the areas of development and application, as well as for 100% in-line testing. All LOTOS models are future-proof and feature interfaces for stand-alone use, or for partially or fully automatic operation within the production environment. As a result, the measuring systems are well equipped to meet upcoming Industry 4.0 requirements.



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