

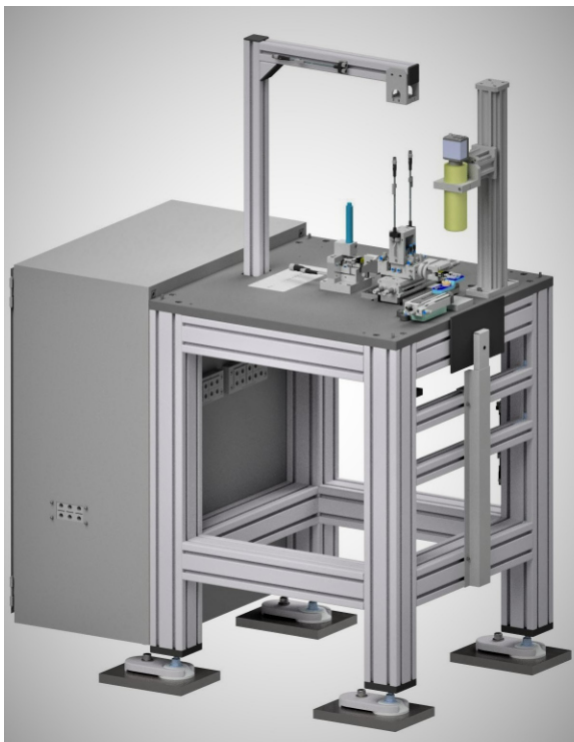


OpKoTest

Inspects and sorts optical components fully automatically



OpKoTest
Robot interlinked test system



OpKoTest
Automatic testing station - geometry testing

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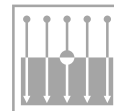
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OpKoTest

Robot interlinked test system

OpKoTest is a robot interlinked test system for non-contact measurement of geometry and shape features in medium and large series production of optical components with automatic infeed and outfeed.

The optical components are sorted by robots according to quality results.

Different optical components with different workpiece sizes can be inspected by means of a transport system and robot handling.

The permissible gripping positions are selected in such a way that there is no contact with optically effective surfaces.

Abrasion marks, surface changes and contamination on the test items are avoided during automatic handling.

OpKoTest realises an automation of the test process and provides measurement and organisational data for each production order.

Extremely small measurement uncertainties down to the nanometre range are maintained at room temperatures of 20°C to 25°C.

The highly sensitive measuring processes are protected from disturbance variables by vibration damping.

For safe handling, an optional camera system can be used to detect the position of the test specimens and thus avoid collisions.

Two automatic test stations for geometry testing and for form testing operate autonomously and, in addition to the measuring systems, contain 30 pneumatic assemblies, several pressure regulators, 20 mechanical precision stops, 35 sensors, 15 actuators and an extensive adjustment system.

The CE declaration of conformity according to the Machinery Directive for placing on the market is part of the service.

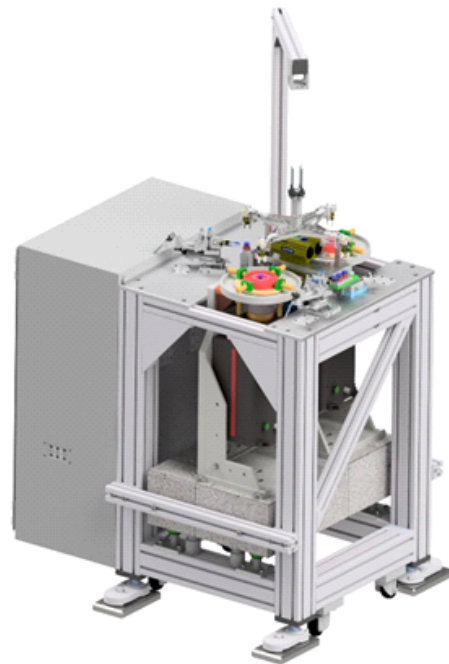
A trouble-free and functional operation of OpKoTest according to VDI guideline 3423 is achieved.

OpKoTest is designed for multi-shift automatic operation.

Low cycle times in the two-digit second range for robot-guided removal, testing and quality-assured sorted depositing of the test specimens enable maximum productivity.

The automatic and regular assurance of the measurement quality and monitoring of the measurement results is guaranteed by the measurement of master parts.

Metrological validation of the measurement results is also automatically realised by comparison with calibrated measurement standards.



OpKoTest
Automatic testing station - mould testing