



ZEISS ScanBox Series 5

Fast. Precise. Reliable.



The new ZEISS ScanBox Series 5 system is your all-in solution for automated quality control in the manufacturing process.

Your Advantages

Accelerated measuring times

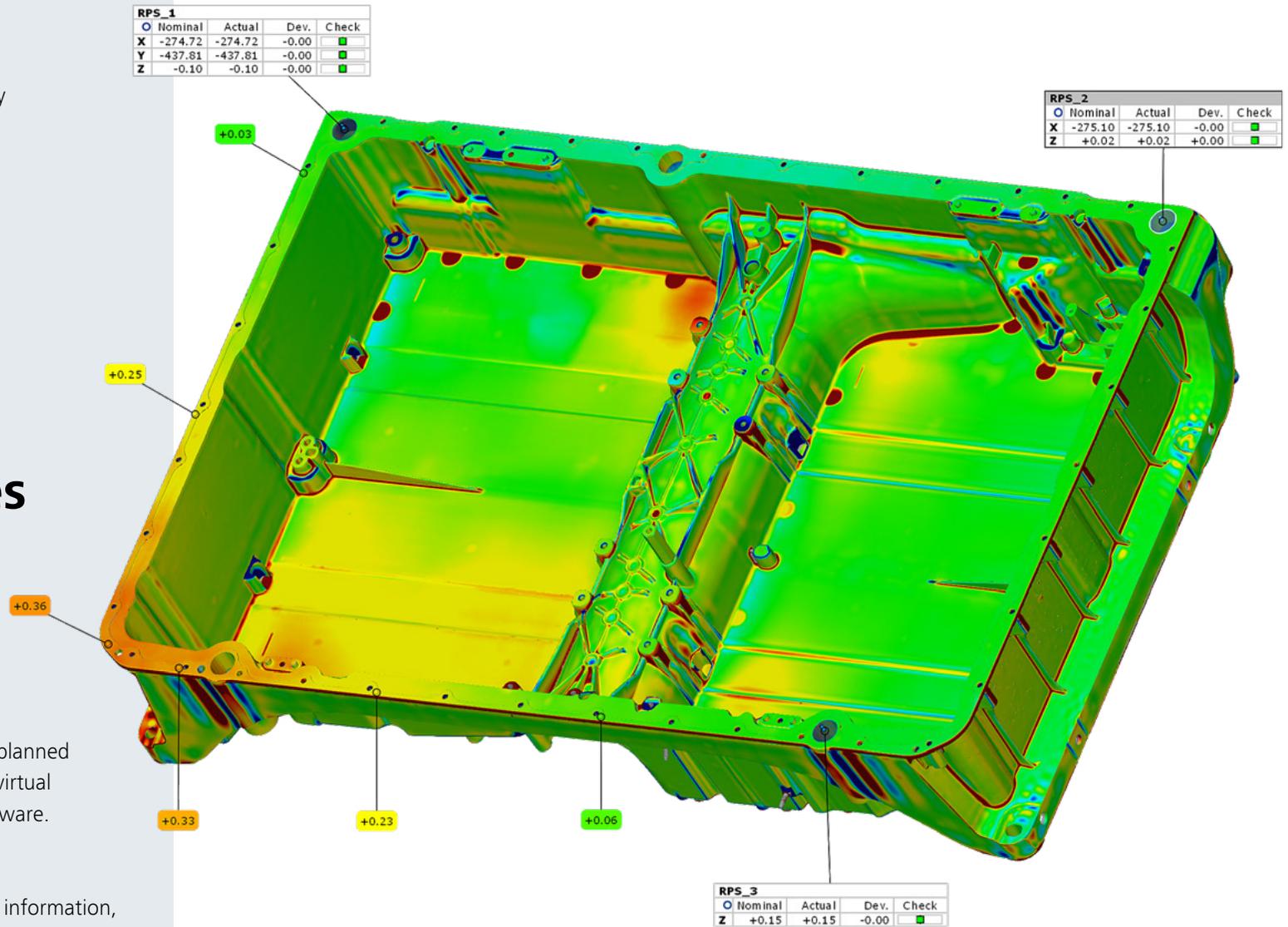
Complex geometries, features and surfaces are measured at high speed.

Simple operation

Automated measuring procedures can be planned with just a few clicks and executed in the virtual measuring room of the ZEISS INSPECT software.

Effective tool for analysis

ZEISS INSPECT automatically derives GD&T information, trimming, hole positions and full-field deviations against the CAD model.





Concept

The new ZEISS ScanBox Series 5, system consisting of three models, offers many options for your individual requirements – that's what we call the new modularity.

Design

Functional design for efficient workflows and best ergonomics.

Components

Standardized modules of the latest generation offer uncomplicated upgrade options.

Versatility

The optical measuring machine allows for fast series monitoring as well as meaningful analysis measurements.

Modular Concept

Control tower module

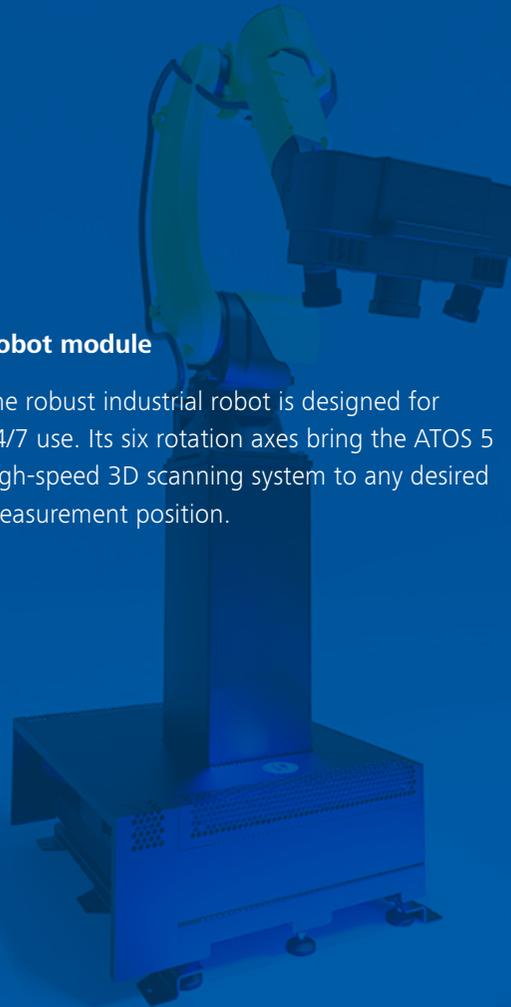
This module contains the entire control technology, including the computer unit and robot controller.

The user interface is located on a flexible swivel arm, which permits ergonomic working in both sitting and standing positions.



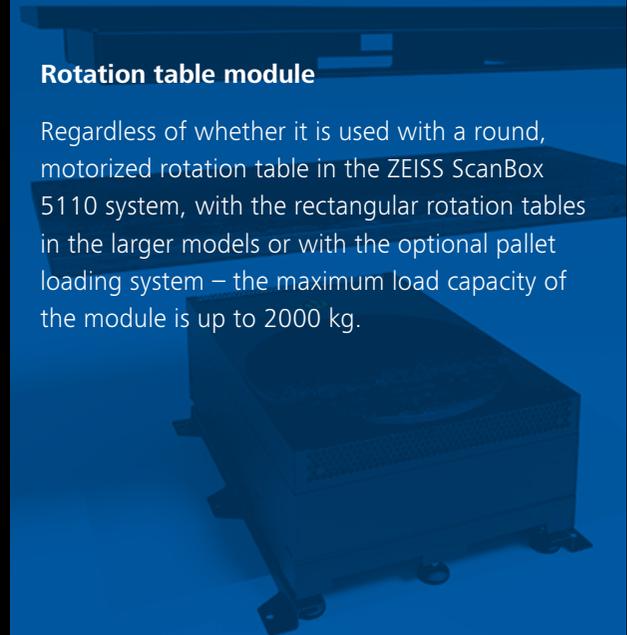
Robot module

The robust industrial robot is designed for 24/7 use. Its six rotation axes bring the ATOS 5 high-speed 3D scanning system to any desired measurement position.



Rotation table module

Regardless of whether it is used with a round, motorized rotation table in the ZEISS ScanBox 5110 system, with the rectangular rotation tables in the larger models or with the optional pallet loading system – the maximum load capacity of the module is up to 2000 kg.



Applications

Airfoils

Ranging from the smallest turbine blade to a complete blisk: The high-precision ATOS 5 for Airfoil sensor measures detailed quality information of new products or parts from maintenance or repair at a significantly reduced measuring time.

Automotive press shop and body shop

The optical ATOS 5 sensor captures the entire surface geometry of sheet metal parts and measures complete hemmed edges. Full-field data for comprehensive process and quality control is automatically provided.

Castings and tools

In casting processes, the system ensures quality all along the line: from simulation validation to acceleration of tool try-out and first article inspection to series control and CNC machining.

Plastic parts

Complex parts with demanding freeform contours are measured completely in the shortest possible time. The measuring results guarantee fast first article inspection and targeted tool correction, thereby reducing production lead times.

Technical Data



ZEISS ScanBox 5110 D/LC



ZEISS ScanBox 5120 D/LC



ZEISS ScanBox 5130 LC

| | | | |
|----------------------|---|---|-------------------------------|
| Dimensions | 2200 × 2850 × 3050 mm (D) 2200 × 3550 × 3050 mm (LC) | 3600 mm × 3550 mm × 3050 mm (D) 3600 mm × 4250 mm × 3050 mm (LC) | 4300 mm × 4250 mm × 3050 (LC) |
| Max. part size | Ø 1000 mm | Ø 2000 mm | Ø 3000 mm |
| Max. part weight | 2000 kg | 2000 kg | 2000 kg⁴ |
| Opening width | 950 mm (D) ¹ 1000 mm (LC) ² | 2100 mm (D) ¹ 2400 mm (LC) ² | 3100 mm (LC) ² |
| Sensor compatibility | ATOS 5 for Airfoil, ATOS 5 ³ | ATOS 5, ATOS 5 for Airfoil | ATOS 5 |

¹ D = Door

² LC = Light Curtain

³ Verification of set-up necessary

⁴ The permissible application weight may be limited by the selected rotation table unit



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