

SMARTTECH3D COBOTSCAN

Collaborative 3D Scanning System for
Automated Inspection

The SMARTTECH3D CobotScan is an automated solution for capturing precise 3D documentation and performing quality inspection by comparing scanned parts to reference CAD models. It combines advanced optics with SMARTTECH's LED technology and the ease of cobot programming to deliver a smooth, efficient measurement process. The compact, lightweight design provides stability, safety, and mobility for professional use in industrial environments.

COBOTSCAN FEATURES

- Fully automated measuring process
- High measuring speed (5 million points per second)
- Dense probing for detailed surface data
- Simple creation of measurement plans
- Quick setup and implementation
- Certified measurement accuracy
- Deviation map projection on scanned parts
- Automatic quality control reporting (PDF)

APPLICATIONS



Industrial
quality control



Creating a virtual
warehouse



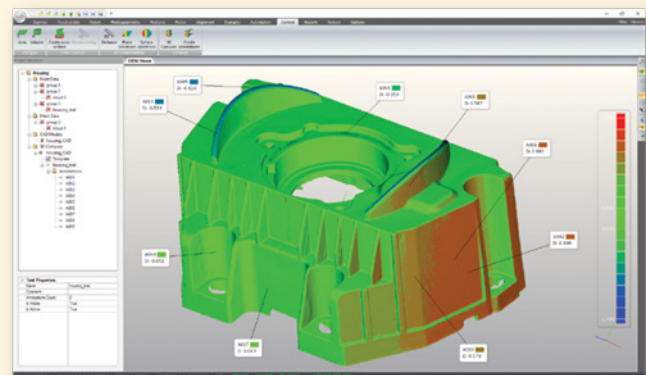
3D printing
quality control



Control reports
in PDF



3D SCANNER COMPATIBLE WITH A COBOT



INTEGRATION WITH A COBOT AND ROTARY STAGE

The SMARTTECH3D CobotScan is designed for seamless integration with collaborative robots and rotary stage modules. Its stereoscopic camera system and lightweight design provide comfort, mobility, and precise mapping of complex geometries.

The use of a cobot enables automated measurements without the need for markers, improving efficiency even for small production runs. The software generates control reports, documentation, and color deviation maps directly on the scanned object, ensuring consistent and repeatable results.



Small size of 3D scanner - 175x230x60 mm

SMARTTECH3DMEASURE SOFTWARE

The SMARTTECH3Dmeasure software manages the entire scanning process, from system setup to data capture and report generation. It enables users to create high-resolution 3D models, generate automated quality control reports, and perform advanced data processing.

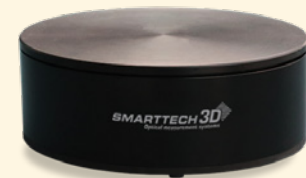


With an intuitive interface, users can easily design measurement plans and edit results to fit specific requirements. The software supports both reverse engineering and quality inspection, reducing the need for multiple tools or additional systems.

SMARTTECH3D COBOTSCAN TECHNICAL SPECIFICATIONS

Model	5-5 MP		
Scanning Technology	GREEN LED		
Detector resolution	5MP	5MP	5MP
Measuring field* [mm2]	140x90	150x120	200x150
Measuring depth* [mm]	50	50	100
Sampling* [pts/mm ²]	330	280	165
Accuracy[μm]	18	21	25

* +/- 10% value



Automatic Rotary Stage:

- max load 15kg, diameter 200mm
- max load 80kg, diameter 500mm
- max load 300kg, diameter 500mm