



Flexible 3D scanning system for robotic quality control

SMARTTECH3D PRO is an industrial 3D scanning system based on structured blue light technology, designed for automated quality control, reverse engineering and part digitization. Thanks to interchangeable optics, the system enables quick measurement volume changes and allows the scanner to be adapted to different objects - from small, precise components to larger industrial parts.

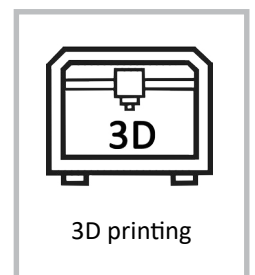
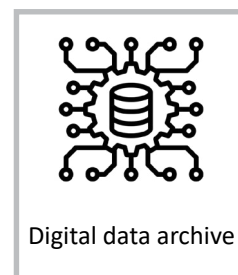
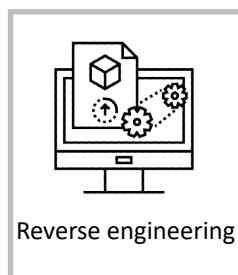
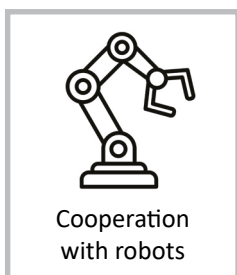
The possibility of mounting the system on industrial robots and cobots allows SMARTTECH3D PRO to be implemented both in measurement laboratories and in automated production quality control stations.



Possibility of easily changing
the measurement field

-  **Variable measurement volume**
Quick optics replacement allows the system to be adapted to different dimensions and geometries of parts.
-  **Integration with robots and cobots**
The system can operate as part of robotic quality control stations.
-  **High-resolution 3D data**
12 MP or 20 MP cameras ensure detailed reproduction of the object geometry.
-  **CAD / PDF / pass-fail reporting**
SMARTTECH3Dmeasure software supports deviation analysis, comparison with the CAD model and automatic report generation.

APPLICATIONS



SMARTTECH3D PRO

ONE MEASUREMENT SYSTEM FOR MULTIPLE INDUSTRIAL APPLICATIONS



SMARTTECH3D PRO can be implemented in various configurations — from manual measurements, through semi-automatic stations with a rotary table, to robotic measurement cells. This allows the system to grow together with the needs of the production facility: from individual inspections to repeatable quality control in the production process.

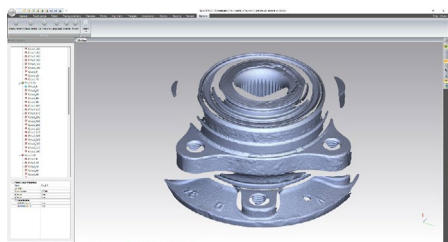
Manual / semi-automatic measurement

Operation on a column stand with a rotary table. A solution for measuring single parts, small batches, reverse engineering, comparative inspection and tasks requiring flexible scanner positioning.

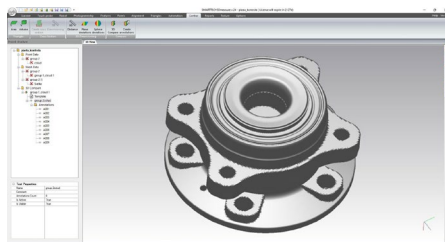
Robotic measurement

Mounting on an industrial robot or cobot is a solution for repeatable measurement sequences, reducing operator involvement and increasing process stability.

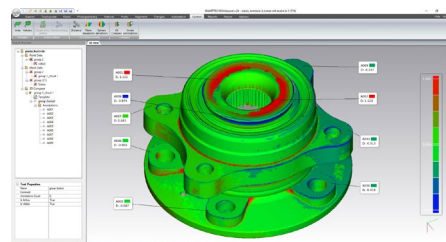
SMARTTECH3Dmeasure software manages the measurement process - from 3D data acquisition, through point cloud and mesh model processing, to comparison with a CAD or reference model. The system enables the generation of deviation maps, measurement annotations, PDF reports and pass/fail results.



Cloud of points (.txt, .ply)



Triangle mesh (.stl, .obj)



Color map of deviation

TECHNICAL SPECIFICATION

Model	12-12 MP		
Scanning technology	BLUE LED		
Resolution	12MP	12MP	12MP
Measurement field* [mm ²]	110x70	300x200	400x260
Measurement depth* [mm]	30	180	240
Sampling* [pts/mm ²]	1300	180	100

Model	20-20 MP		
Scanning technology	BLUE LED		
Resolution	20MP	20MP	20MP
Measurement field* [mm ²]	110x70	300x200	400x260
Measurement depth* [mm]	30	180	240
Sampling* [pts/mm ²]	2400	330	180

*±10% of the value



Automatic rotary table:

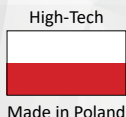
- max. load capacity 15 kg, diameter 200 mm
- max. load capacity 80 kg, diameter 500 mm
- max. load capacity 300 kg, diameter 500 mm

Some of our
customers:



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