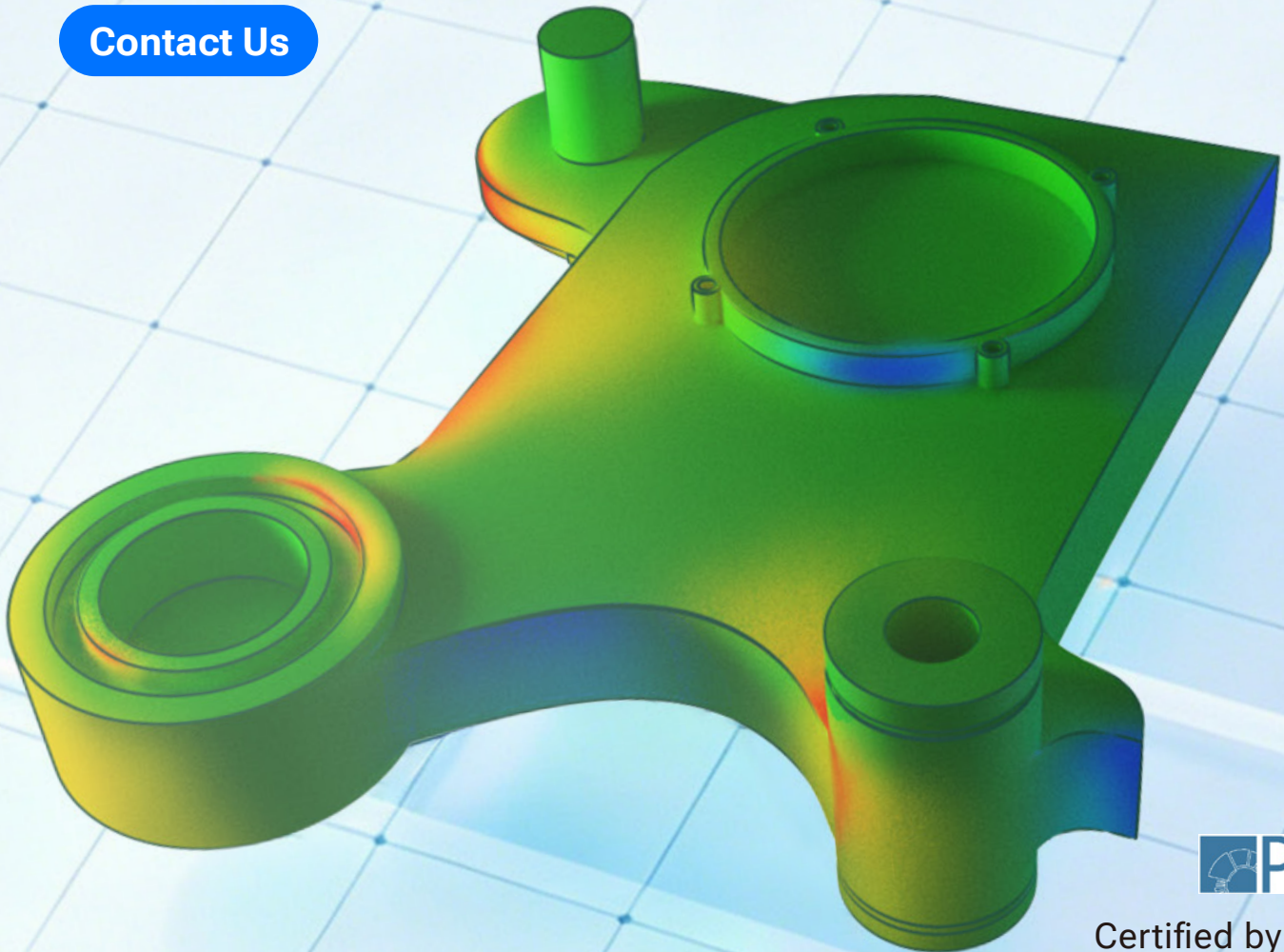


SHINING 3D
METROLOGY

SHINING3D Inspect

A streamlined, modular 3D inspection software

Contact Us



Certified by PTB



SHINING3D Inspect delivers a **streamlined, modular,** and **customizable** approach to 3D inspection, simplifying workflows from data acquisition to reporting. The software is suitable for dimensional inspection and quality control of components across industries such as automotive, civil aviation, and precision manufacturing.

Backed by PTB-certified capability, it ensures traceability in every measurement. Independently developed by SHINING 3D, the 3D inspection software represents strong in-house expertise and continuous innovation.

[Get your free trial](#)





Multiple Alignment Methods



Best fit alignment



3-2-1 alignment



Datum alignment



RPS alignment



Align to coordinate system



Comprehensive Feature Extraction



Circle



Rectangle



Plane



Sphere



Cone



Surface



Regular polygon



Slot



Line



Point



Cylinder



Slab

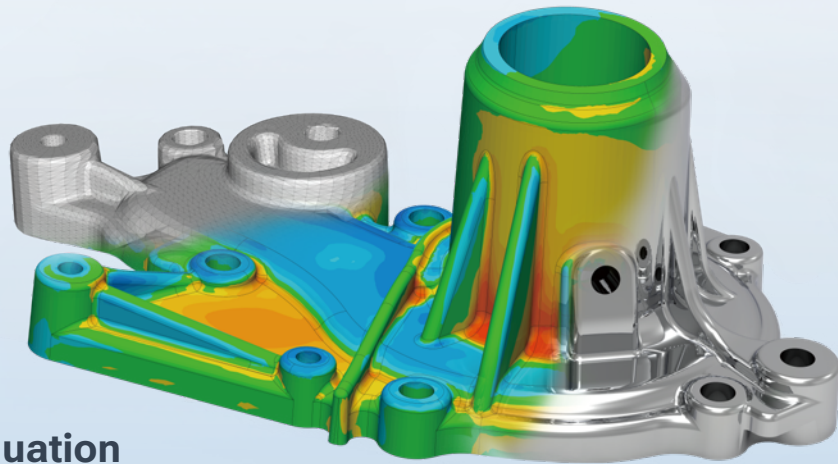


Polyline



Full-Field Deviation Analysis

- Perform full-field comparison between scan data and CAD
- Visualize deviations using 3D color maps
- Analyze cross-sectional deviations in 2D
- Customize color scales for clearer and more flexible interpretation



Standard-Compliant GD&T Evaluation

- Switch between ISO and ASME
- Evaluate critical dimensions based on GD&T standards
- Support tolerance verification for functional features



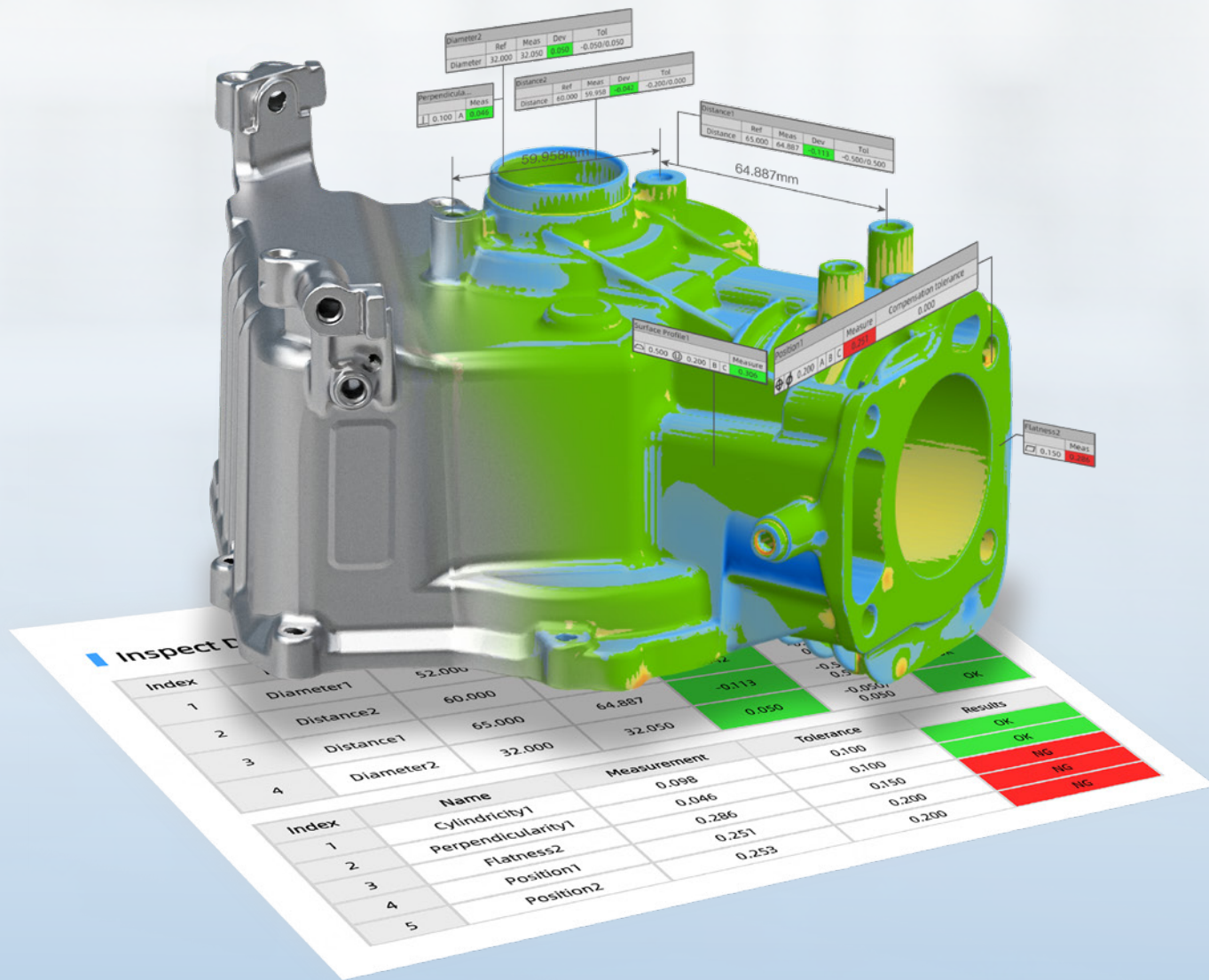
Automated and Customizable Reporting

- Turn inspection results into clear, structured deliverables
- Visualize deviations and measurement results intuitively
- Support quality documentation with full traceability



Certified Reliability

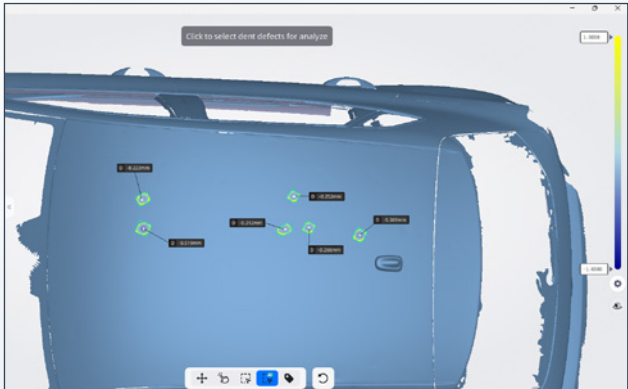
- PTB-certified inspection capability
- Ensures trusted and traceable measurement results



Application-Oriented Inspection Modules

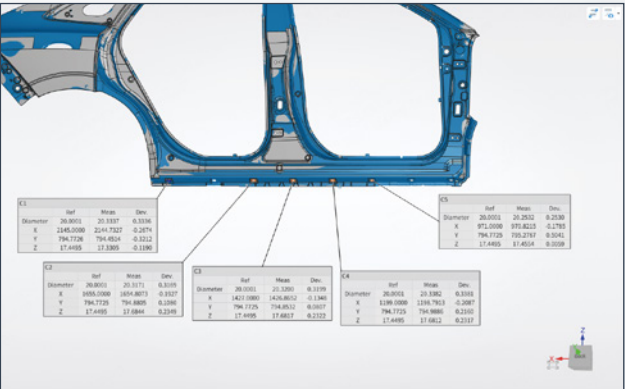
Dent Inspection

Identify dents and surface deviations efficiently.



Sheet Metal Inspection

Analyze deformation, springback, and profile deviations.



Key Features



Multi-Format Data Import and Management



Multi Alignment Toolset



2D Dimensions Inspection



2D & 3D Comparison



Measurement Toolset



Customized Reporting



Intelligent Feature Recognition



Cross-Section Analysis Toolset



GD&T Evaluation

Designed for Flexible Deployment

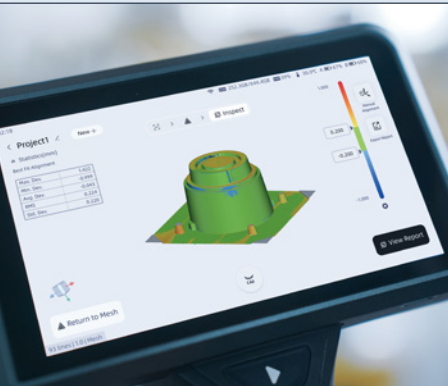
Desktop Inspection

Full-featured inspection in a standard workstation environment



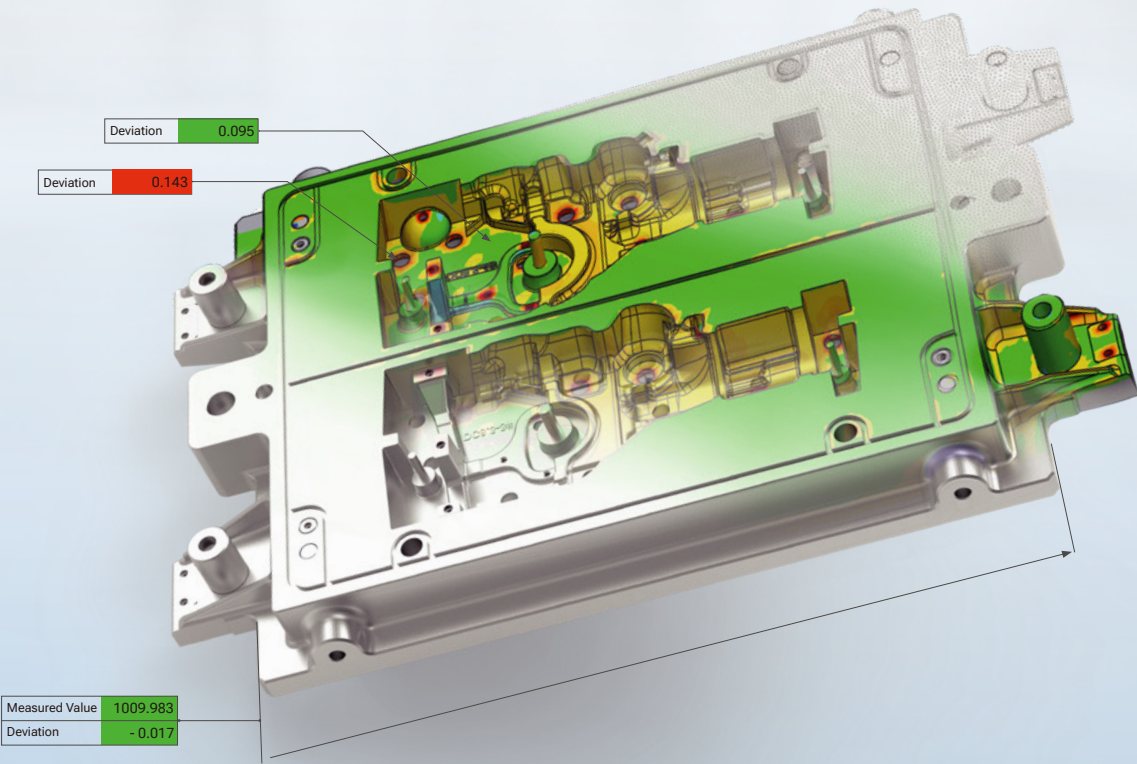
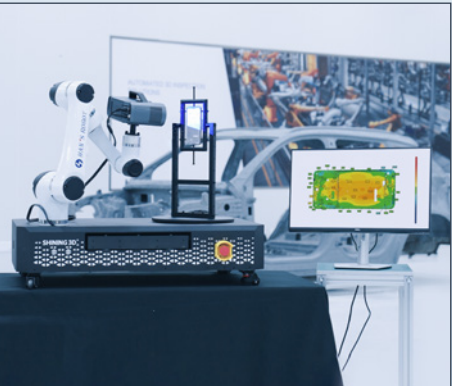
On-Device Inspection

Perform inspection directly on FreeScan Omni for faster decision-making



Automated Inspection

Integrate into automated systems for high-efficiency, repeatable workflows



*Supports light and dark UI themes for different working environments

Minimum Computer Requirements

Graphics	Dedicated GPU, 6 GB VRAM or above
Memory (RAM)	8 GB or above
Storage	512 GB or above
OS	Windows 10 / 11



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