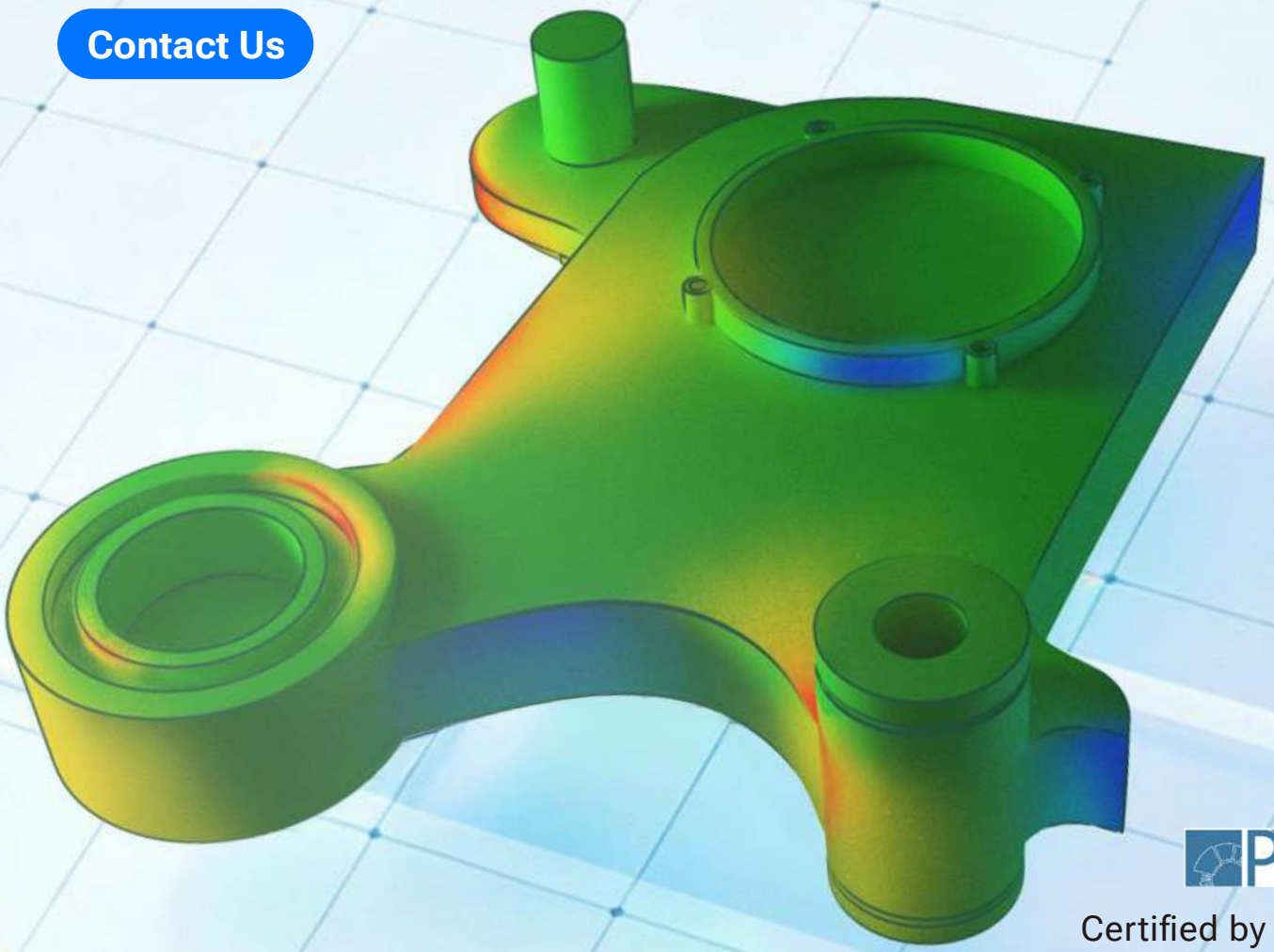
SHINING 3D METROLOGY

SHINING3D Inspect

A streamlined, modular 3D inspection software

Contact Us



PTB

Certified by PTB

INSPECT

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

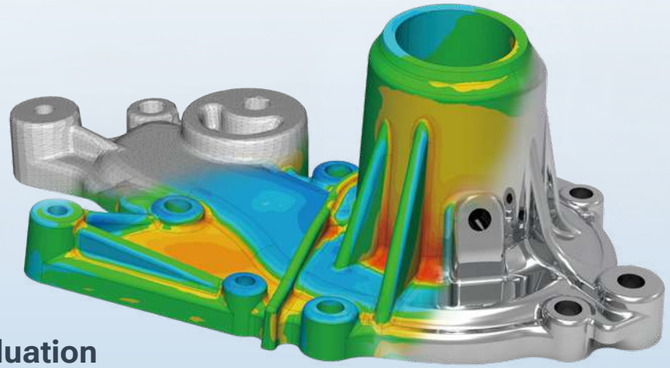
- Best fit alignment
- 3-2-1 alignment
- Datum alignment
- RPS alignment
- Align to coordinate system

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

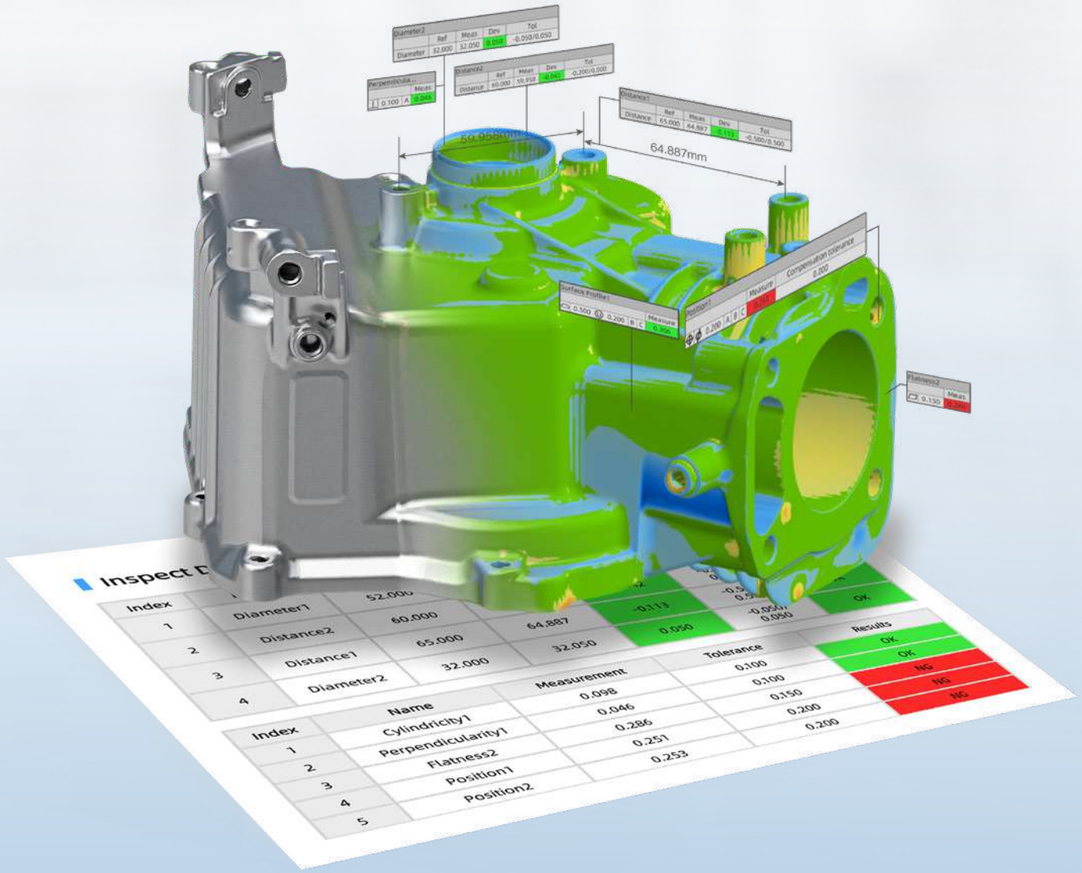


Standard-Compliant GD&T Evaluation

- 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 deviations
- Visualize deviations and measurement results intuitively
- Support quality documentation with full traceability



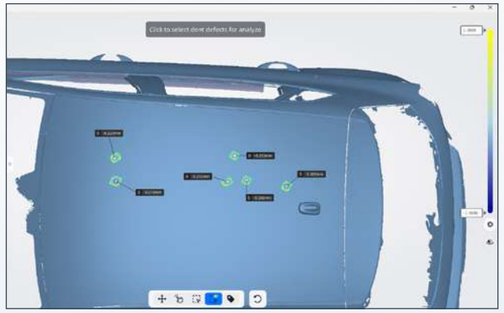
Certified Reliability

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

Application-Oriented Inspection Modules

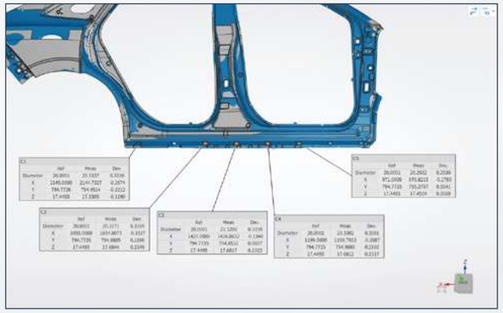
Dent Inspection

Identify dents and surface deviations efficiently.



Sheet Metal Inspection

Analyze deformation, springback, and profile deviations.



Designed for Flexible Deployment

Desktop Inspection

Full-featured inspection in a standard workstation environment

On-Device Inspection

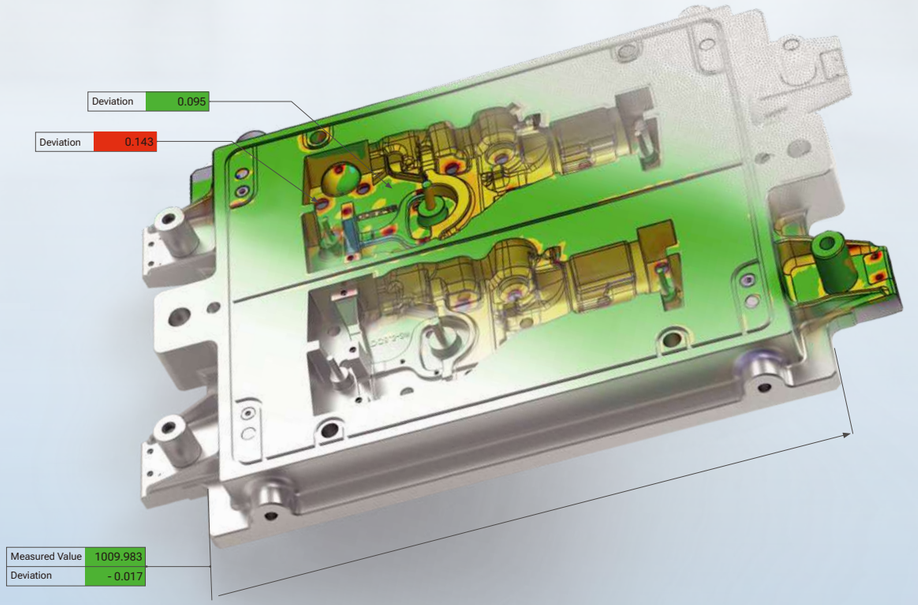
Perform inspection directly on FreeScan Omni for faster decision-making

Automated Inspection

Integrate into automated systems for high-efficiency, repeatable workflows

Key Features

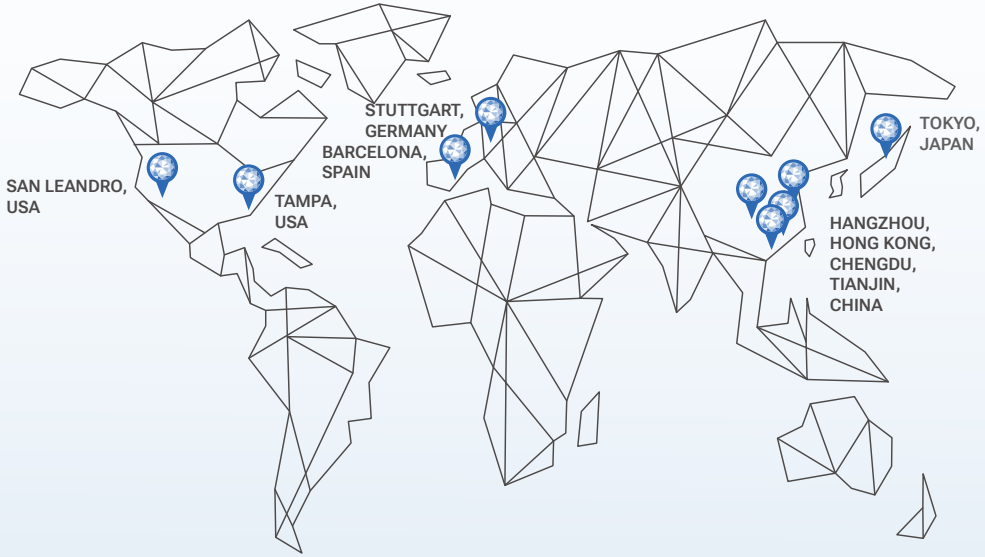
- Multi-Format Data Import and Management
- Multi Alignment Toolset
- 2D Dimensions Inspection
- 2D & 3D Comparison
- Measurement Toolset
- Customized Reporting
- Intelligent Feature Recognition
- Cross-Section Analysis Toolset
- GD&T Evaluation



*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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