

ZEISS INSPECT Optical 3D

The standard for your 3D surface inspection



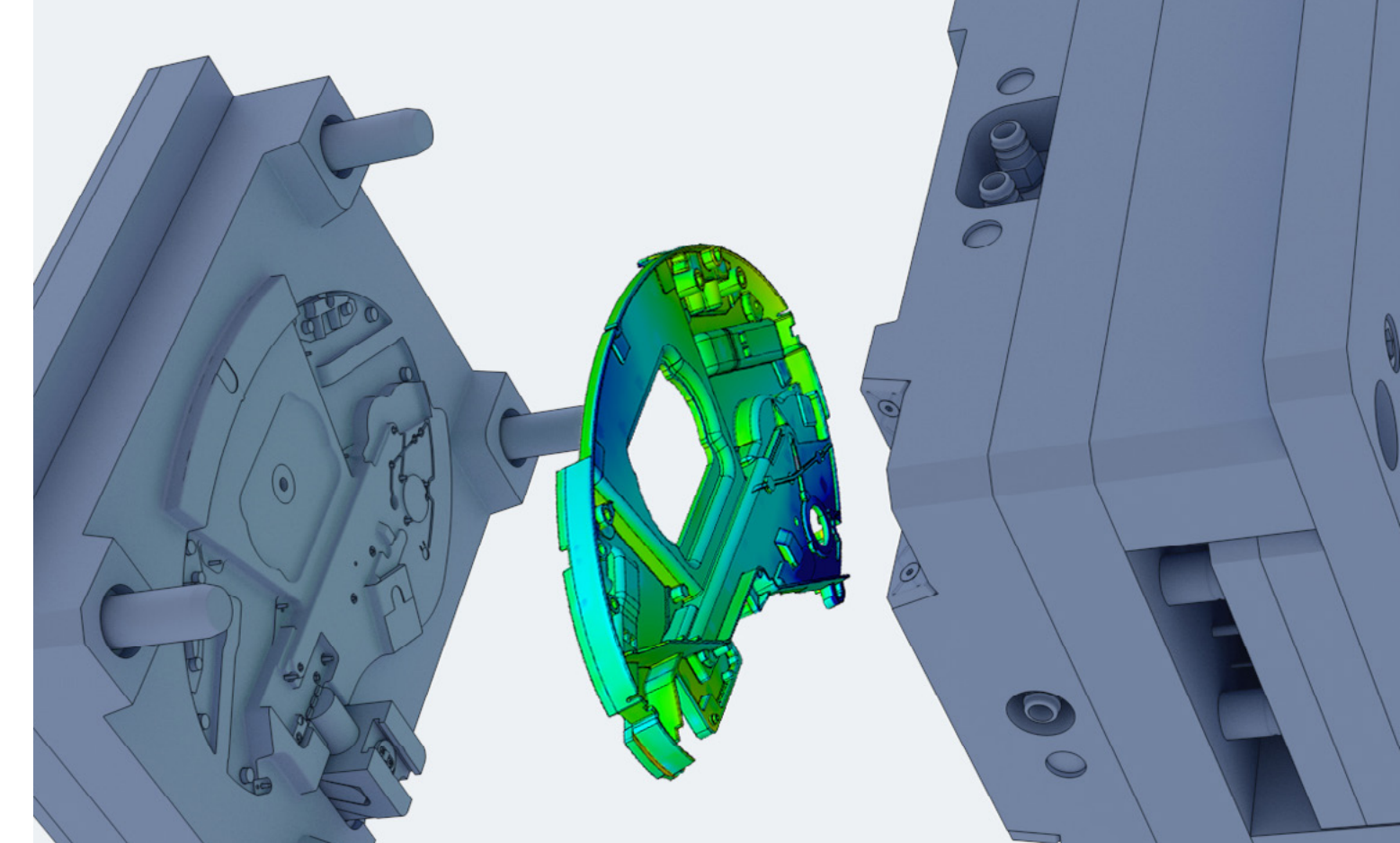
Seeing beyond

Making quality visible

Take your 3D inspection tasks to the next level. ZEISS INSPECT Optical 3D supports you with a continuous workflow and a user-centric operation. Easily create digital twins for a comprehensive and detailed analysis to ensure fast and precise results.

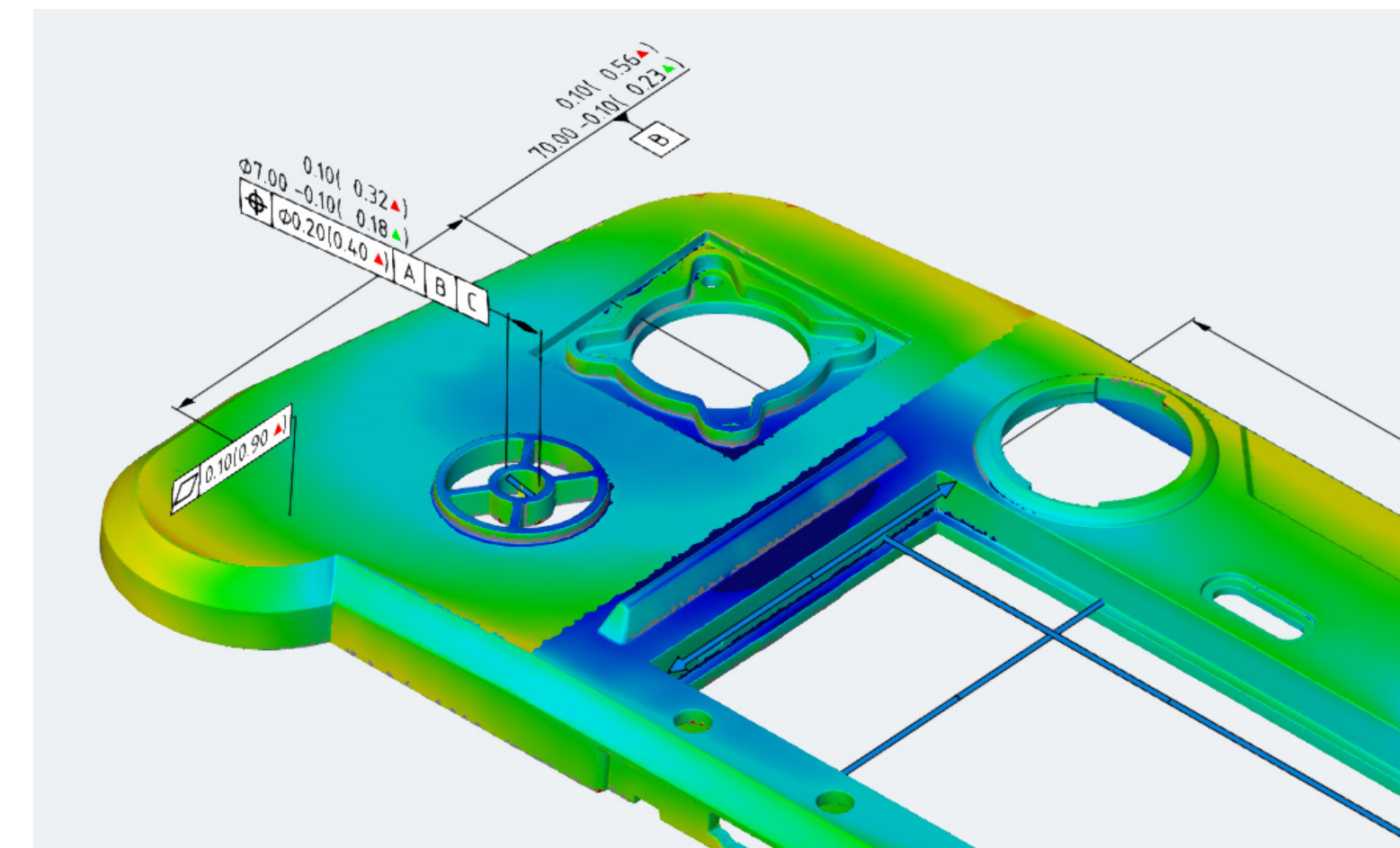
Digital assembly

Assemble your parts digitally – regardless of where they were manufactured. This helps you save time and efficiently reduce scrap.



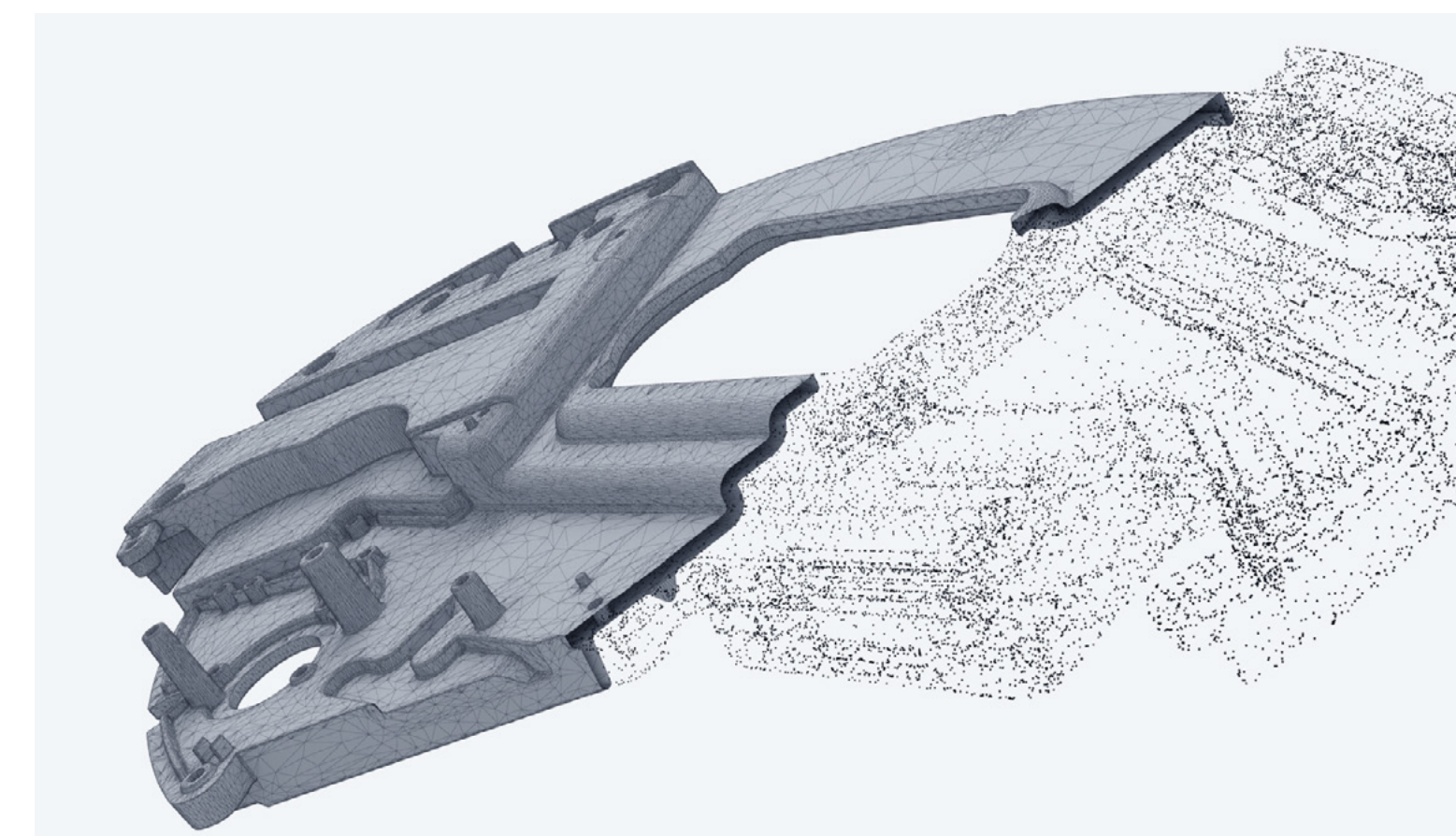
Dimensional metrology

Inspect geometric elements and visualize tolerance labels and color deviations. ZEISS INSPECT detects quality issues automatically and categorizes them, revealing even smallest defects quickly.



Mesh editing

From a 3D point cloud to a polygon mesh. The software also helps with smoothing and filling holes.



Highlights

that inspire



Identify deviations quickly and easily

This is how GD&T inspection works in a simple way! The software takes care of technical details in the background and incorporates the international standards.

Leverage productivity with automated measuring cells

The Virtual Measuring Room (VMR) represents the real environment in a virtual simulation. Optimize your measurement planning and automate robot programming and reporting processes.

Customize your software

Still missing a particular function? Turn all actions in the software into editable Python scripts. Include new functions via the Python libraries or develop them internally.

Your results impressively visualized

Present your results exactly how you need it. Create individual reports with images, tables, diagrams, texts and graphics easily.

Extend your software with apps

The basic functions of ZEISS INSPECT are not enough?
Extend and adapt the software to your needs.

Airfoil Inspection

Visualize and evaluate turbines and blade wheels thanks to specific analysis functions and useful 2D and 3D evaluation features.

Autosurfacing

Easily convert your scan data into a highly precise CAD model and export the CAD as a STEP file.

Virtual clamping

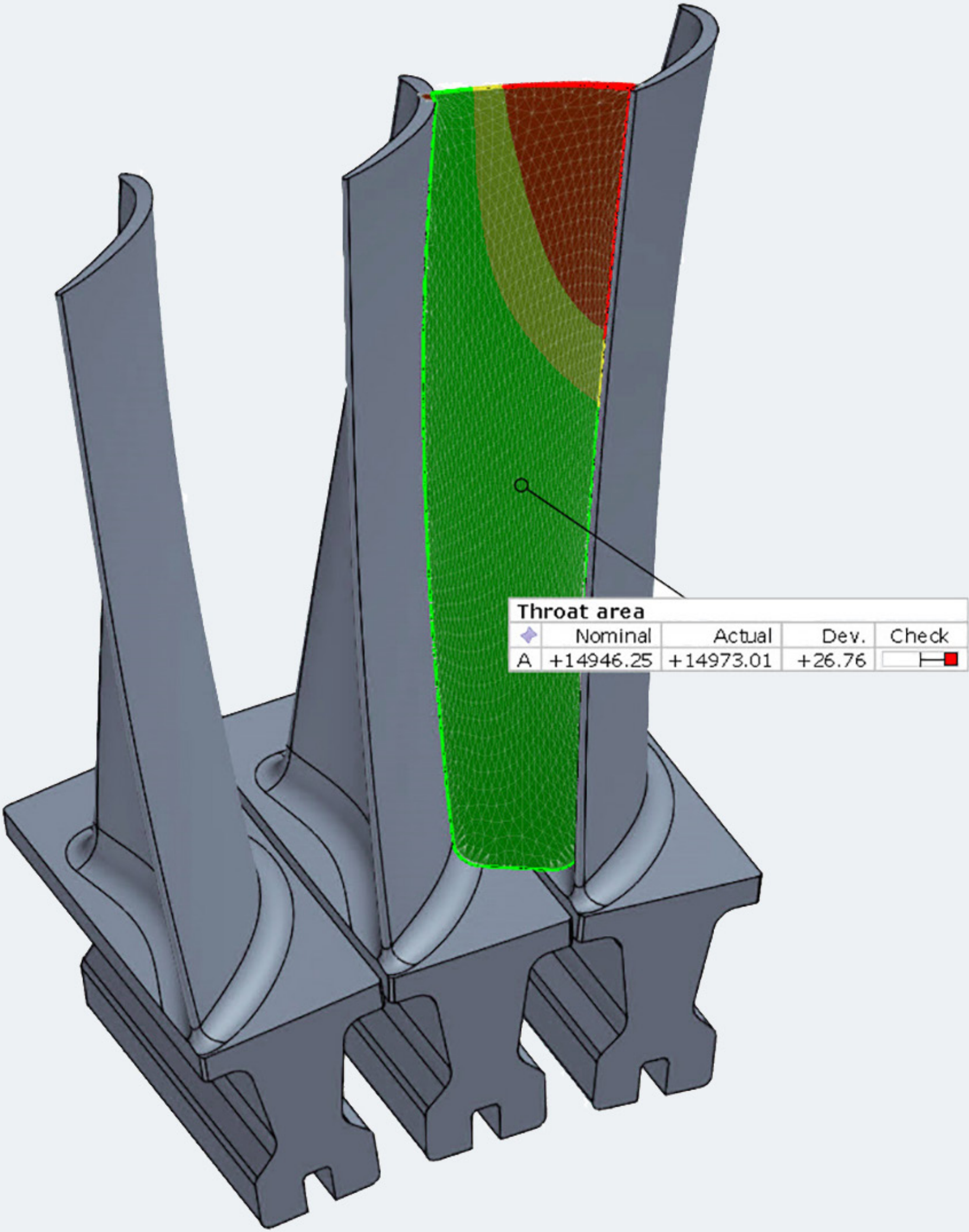
Measure clamped states without any fixture, making your work more efficient and saving costs.

Tube Check

Determine the correction parameters of a complete tube fully automatically. Visualization of the deviation is interactive and adjustable.

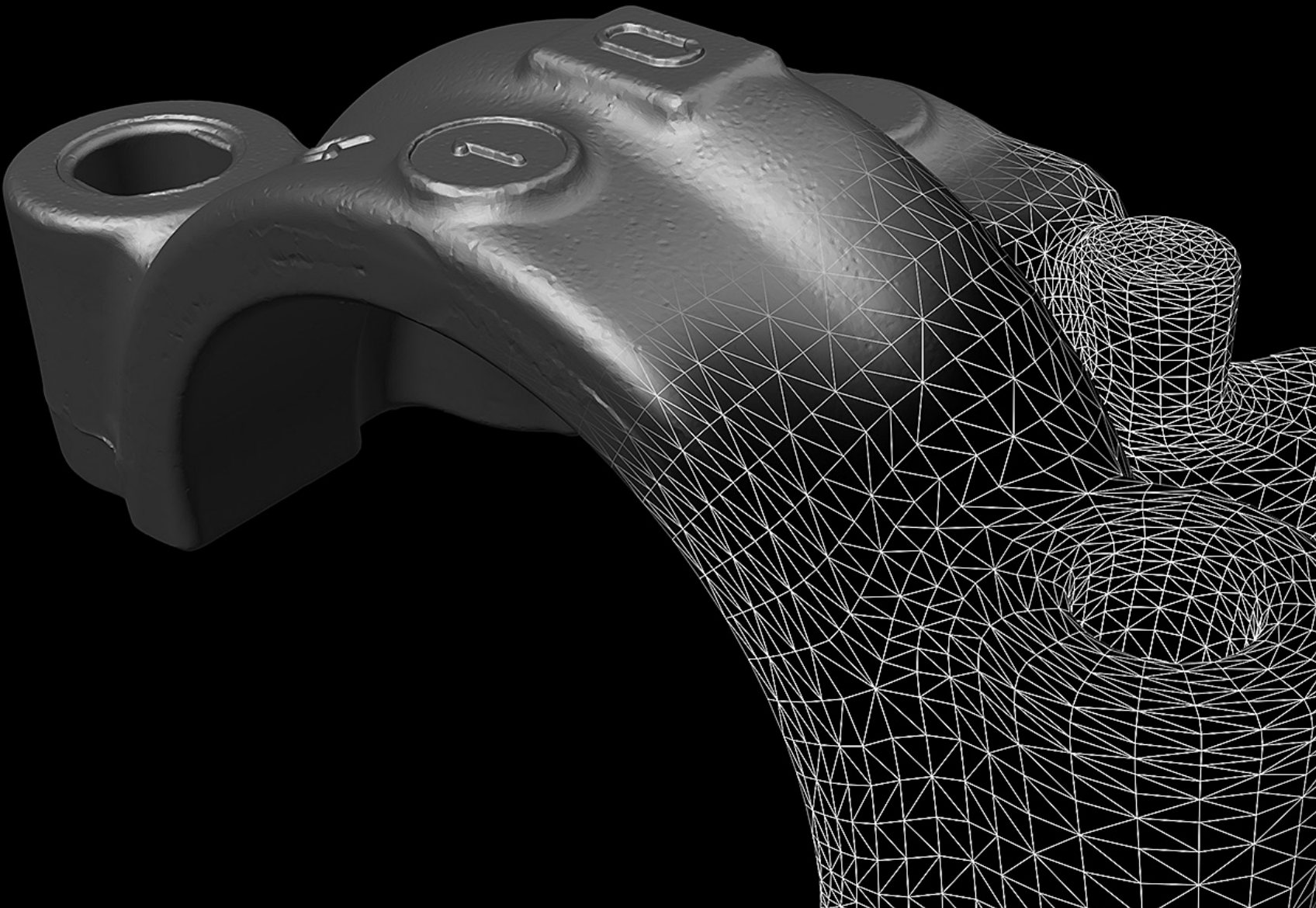
Discover all apps in the ZEISS Quality Software Store.

fee-based app



License overview

Choose the license that suits your inspection need.



	Free license	Pro license
Data import and export		
Import/export of measuring data (ASCII, STL, PSL, PLY)	✓	✓
CAD import of basic formats (IGES, VDA, STEP, JT Open, STL, PLY, ...)	✓	✓
CAD import of native formats (CATIA, NX/UG, Pro/E, Parasolid, SAT...)		✓
CAD import with semantic PMI/FTA/MBD data		✓
Data acquisition and editing		
Polygonization of measuring data	✓	✓
Mesh editing (closing of holes, smoothing, thinning, ...)	✓	✓
Software-based motion compensation during measurement		✓
Virtual clamping (App, perpetual order)		✓
Inspection		
Element construction (geometric elements, sections, curves, local coordinate systems, ...)	✓	✓
Basic inspection (alignments, nominal-actual comparisons, GD&T, curves, surface defect map)	✓	✓
GD&T expert filters	✓	✓
Parametric evaluations		✓
Digital assembly		✓
Photorealistic rendering		✓
Autosurfacing (App, perpetual order)		✓
Automation		
Usage of inspection templates for automated inspections		✓
Trend analyses and part-to-part comparison		✓
Virtual measuring room (App, perpetual order)		✓
Customization		
User-defined checks		✓
Individual programming through macro recorder and Python script engine		✓
Customized reporting templates		✓
Reporting		
Reports with snapshots, images, tables, charts, texts and graphs	✓	✓
Reports with videos		✓
Design your own report pages		✓
Edit created reports		✓

Do you need more information?

Find the perfect introduction to ZEISS INSPECT for optical 3D metrology. Whether just the free license, the purchase or a trial of the pro version – it's up to you.





Seeing beyond