

3D inspection
made easy

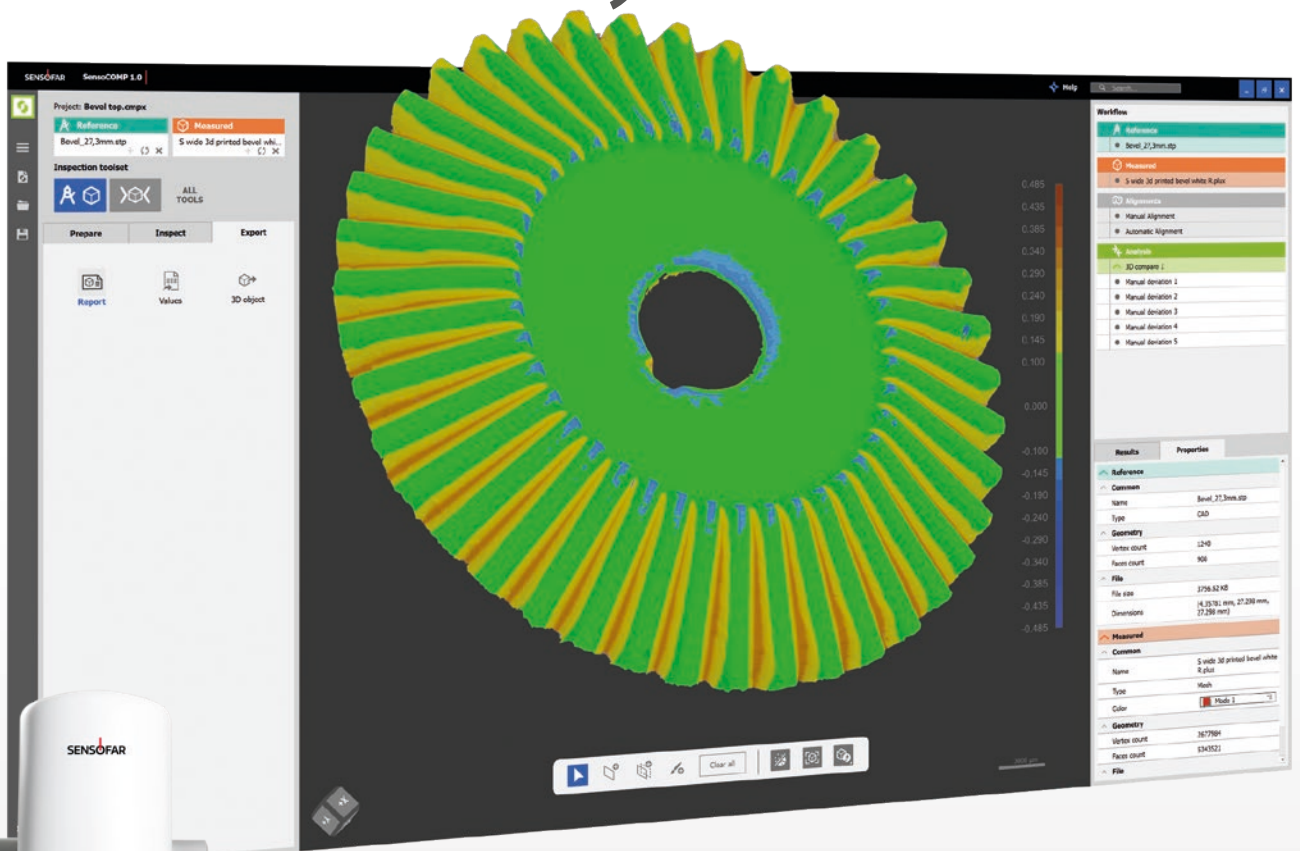


SensoCOMP

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3D inspection made easy

SensoCOMP is Sensofar's 3D inspection software for dimensional analysis and CAD-based comparison. It allows users to validate and compare 3D measurements using intuitive tools, cross-section analysis, and tolerance-based evaluations.



Built for optical profilometry

Made for Sensofar systems,
optimized for your data

SensoCOMP is natively compatible with the full Sensofar table-top portfolio. It interprets data exactly as your profiler generates it, ensuring consistent analysis across measurement types, including complex 360° scans and rotational part geometries.

The software has been built to interpret surface measurements the way Sensofar systems generate them. That means smarter defaults, cleaner alignments, optimized filtering, and inspection tools that make sense for topographic and 3D data alike.

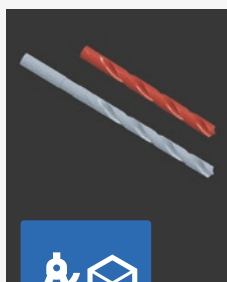




Guided design

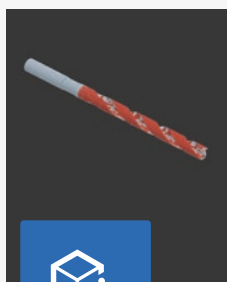
Step-by-step inspection workflow, built for metrology

SensoCOMP has been developed to lead users through the inspection process with clarity and control. Whether you are a metrology expert or inspecting for the first time, the software follows a clean four-step workflow.



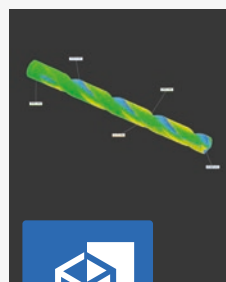
Import your data

Load CAD models, point clouds, or mesh data, including native Sensofar's .plux files.



Prepare your setup

Align CAD and measurement data manually or automatically, apply filters, and define ROIs.



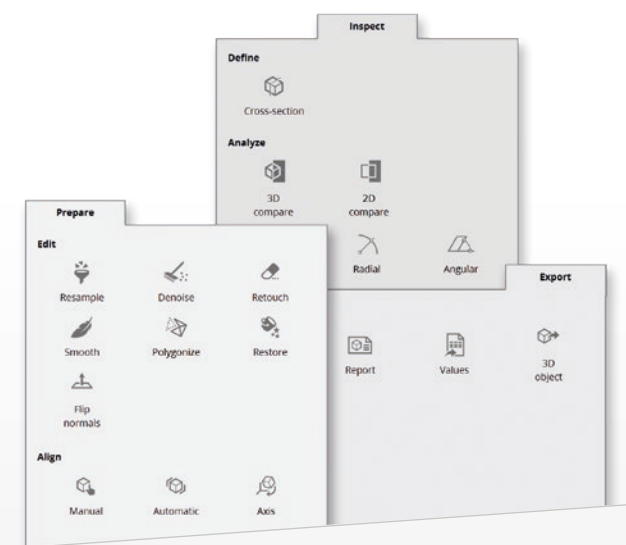
Inspect your part

Compare complex geometries, extract cross-sections, apply dimensional evaluations, and visualize deviations.



Export your results

Generate reports, and deviation maps — ready for documentation or traceability.



Simplified experience

Just the tools you need

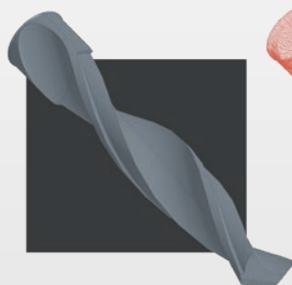
SensoCOMP focuses on what matters most: helping you inspect your parts quickly, accurately, and with confidence. Instead of overwhelming users with dozens of features, the software provides a streamlined set of tools tailored specifically for dimensional inspection tasks. Every function is purposeful, intuitive, and designed to match real workflows, from cutting tool evaluation to implant contour analysis or turned part validation.

This focused approach ensures a fast learning curve, reduced operator error, and greater consistency across teams.

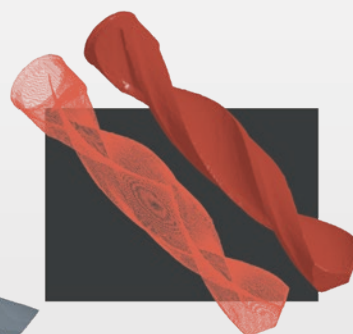
Adaptability

From design files to measurement data

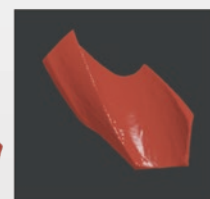
Whether you are working with CAD models, scanned surfaces, or complex reconstructed topographies, SensoCOMP supports a wide range of 3D data formats — including STEP, IGES, STL, PLY, and native PLUX files from the S neox Five Axis system. The software adapts to your workflow, giving you full flexibility to inspect what matters most.



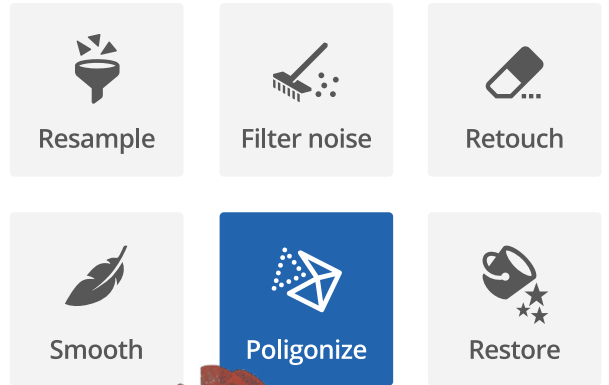
CAD models



Scanned surfaces



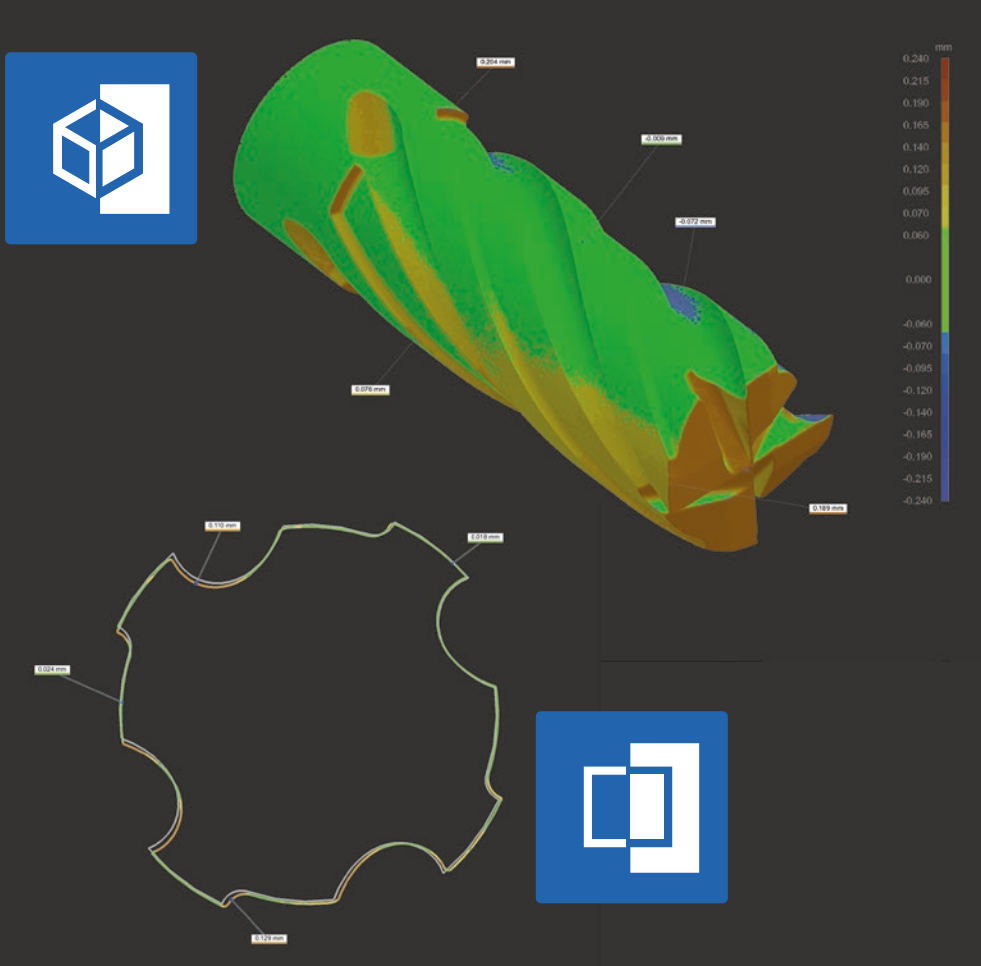
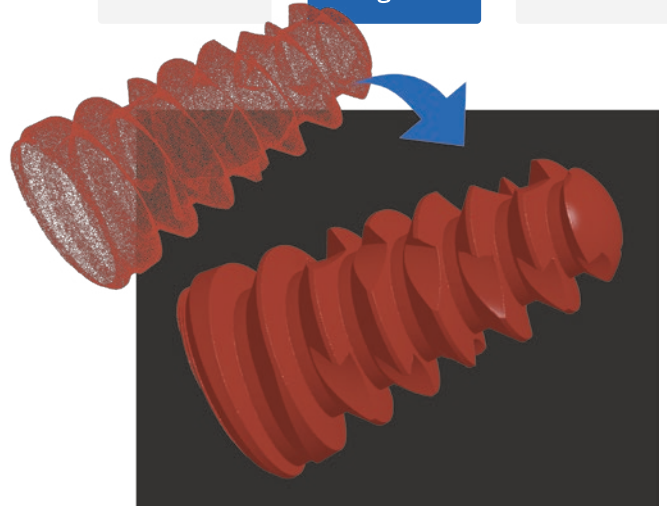
Complex reconstructed topographies



Optimized preparation

Tailored setup with comprehensive tools

Before inspection begins, SensoCOMP gives you the tools to prepare your data with precision. Use automatic or manual alignment methods, define regions of interest, and apply filtering operations. All optimized for high-resolution profiler data. Ideal for stabilizing measurements on challenging geometries.



CAD comparison

Visualize deviations, validate results

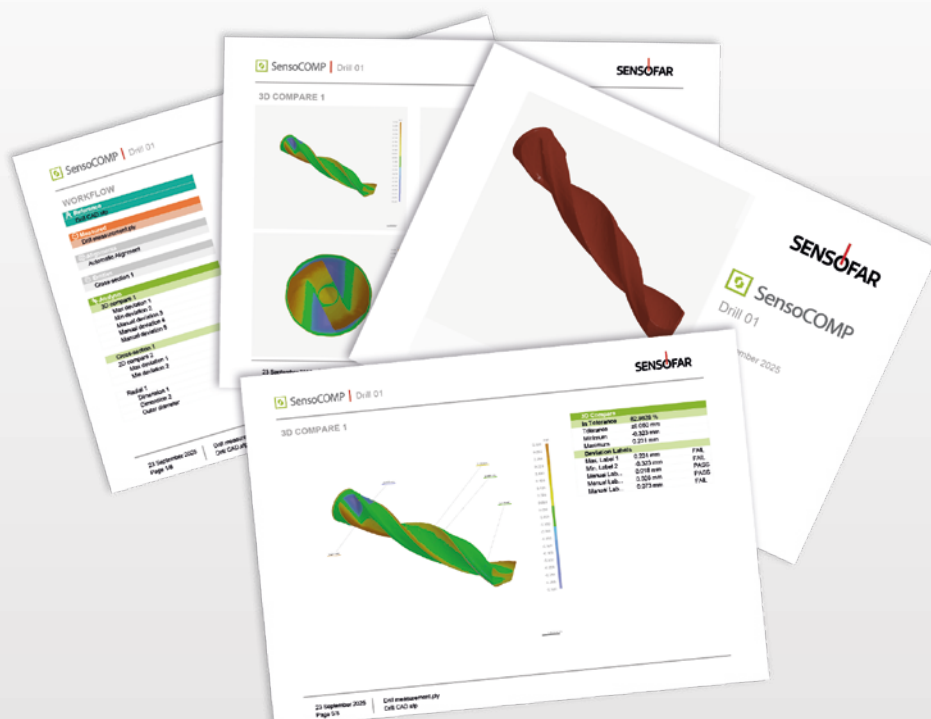
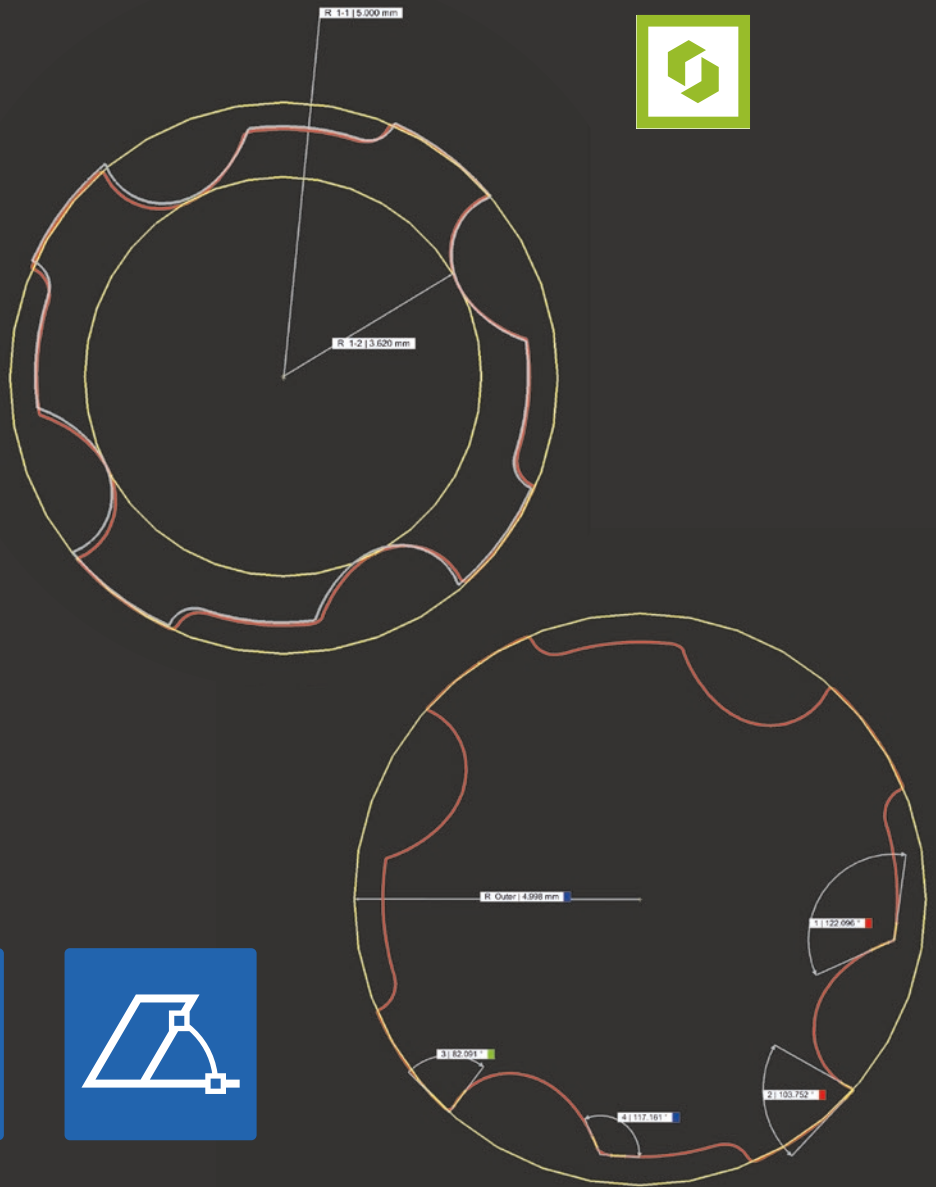
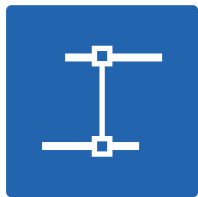
Align your 3D measurement to its nominal CAD geometry and generate accurate deviation maps in both 2D and 3D. Adjustable color scales, tolerance zones, and intuitive visuals help you quickly detect and interpret deviations. Especially critical in wear validation, surface conformity, or verification workflows.



Dimensional analysis

Measure what matters

Define cross-sections and extract key dimensions, including lengths, radii, angles, and distances. Apply tolerance limits to critical features and receive precise visual and numeric results. SensoCOMP makes it easy to validate tight-spec components.



Reporting that speaks clearly

Clear outputs for fast decisions

From a quick snapshot to a full inspection report, SensoCOMP makes it easy to document and communicate your results. Export images, profile plots, and pass/fail tables based on your defined tolerances. Reports are clean, traceable, and ready to support quality decisions — whether in prototyping, process validation, or production QC.



SENSOFAR is a leading-edge technology company that has the highest quality standards within the field of surface metrology

Sensofar provides high-accuracy optical profilers based on confocal, interferometry, and focus variation techniques, from standard setups for R&D and quality inspection laboratories to complete non-contact metrology solutions for in-line production processes. The Sensofar Group has its headquarters in Barcelona, a European technology and innovation hub. The Group is represented in over 30 countries through a global network of partners and has its own offices in Asia, Germany, and the United States.

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