

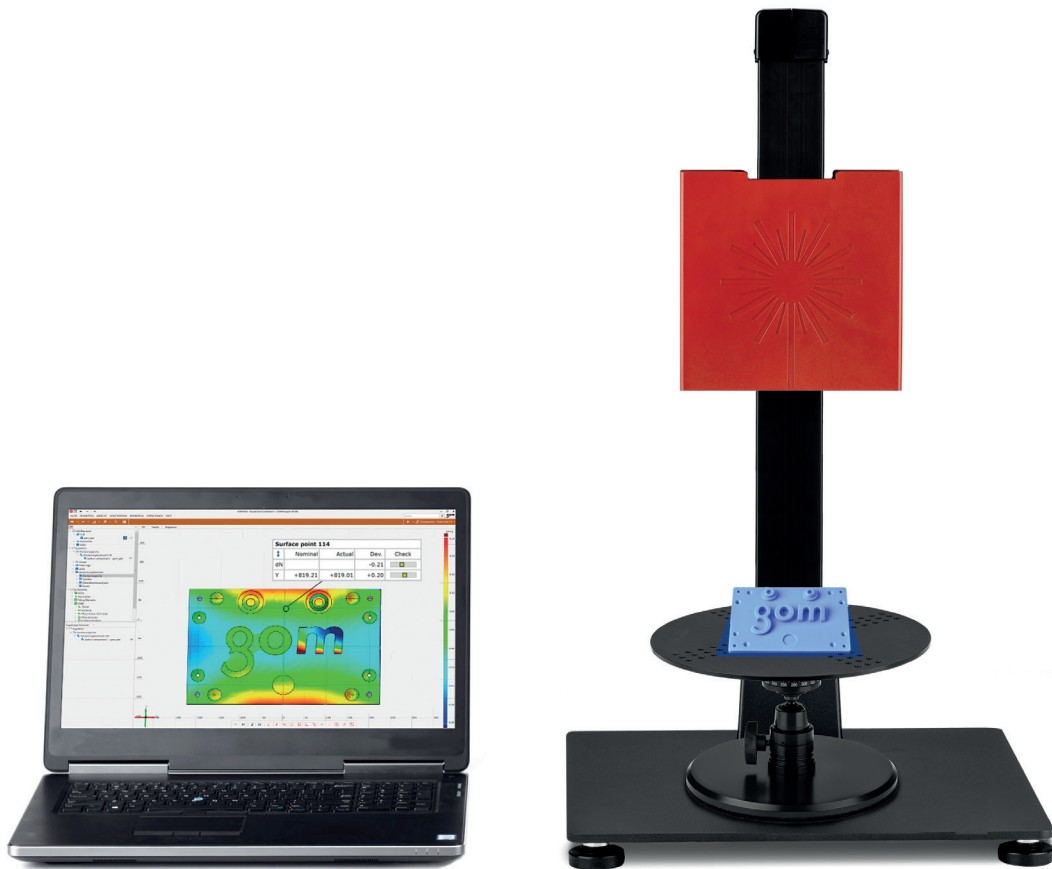
ATOS for Education

3D Scanning and Inspection Package for Teaching and Training

Industrial hardware and software
 Lab experiments and lecture material
 Video tutorials as learning aid

3D Scanning and Inspection

For Quality Control and Reverse Engineering



Full-field 3D scanning has become firmly established as an industrial standard in reverse engineering and quality assurance.

The ATOS 3D scanner from GOM is an industrial, high-resolution optical coordinate measuring system. It delivers accurate 3D measuring data at high speed, thereby improving the entire production chain – from planning through to production and subsequent maintenance.

- Cuts development times by reducing iteration loops
- Optimizes product quality and accelerates production processes
- Improves quality assurance across the entire product life cycle
- Guarantees universal quality standards and reliable, traceable results

ATOS for Education

“ATOS for Education” is a complete package for theoretical and practical teaching at schools, higher education institutes and universities. The education package from GOM contains industrial hardware and software for 3D scanning and inspection as well as ready-to-use laboratory experiments and lecture material with detailed background information. In addition, GOM offers a powerful inspection software for students, practical training for instructors and expert support from experienced engineers.

Industrial hardware – Industry-proven ATOS Core 3D scanner with desktop stand, image processing computer and GOM Scan software.

Inspection software – GOM Inspect is an inspection software for complete mesh processing, 3D inspection and reporting.

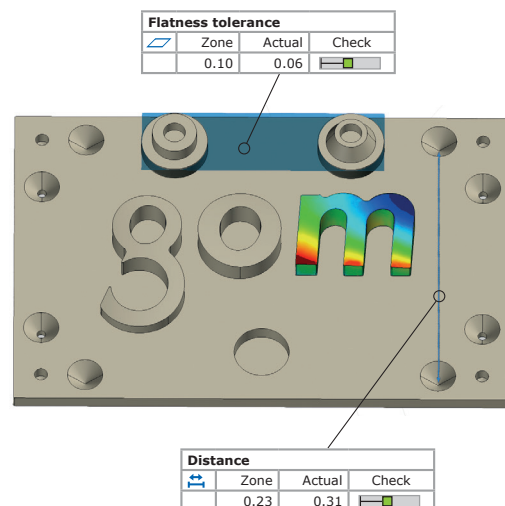
Ready-to-use lab experiments – Introduction to 3D scanning and 3D inspection with specially developed lab experiments for practical training, including measuring object.

Detailed tutorials – Video tutorials help learners understand how to use and test GOM’s hardware and software.

Lab Experiments and Lecture Material

The “ATOS for Education” package comes with ready-to-use laboratory experiments. The modules provide a step-by-step introduction to optical metrology, from preparation of a measuring project to complete inspection and reporting. In addition to lab experiments, the package contains supporting lecture material with background information, which is easily incorporated in existing curricula or used for building new learning modules.

3D scanning for 3D inspection – The entire inspection workflow is presented in the 3D inspection module, including alignment strategies, comparison with CAD, GD&T, inspection sections, measurement reports and exports.



3D scanning for reverse engineering and rapid prototyping – This module focuses on 3D scans with high-quality data, mesh processing and data export for applications that include reverse engineering and rapid prototyping.

Faculties and Disciplines

Users of GOM systems already include international companies from the automotive, aerospace and consumer goods industries and their suppliers all over the globe. To a growing extent, optical metrology and measuring systems from GOM are being integrated in curricula at universities and colleges of higher education. The "ATOS for Education" package is used in various faculties and disciplines, including:



- Mechanical engineering/mechatronics
- Engineering
- Industrial measurement technology
- Design and CAD/CAM

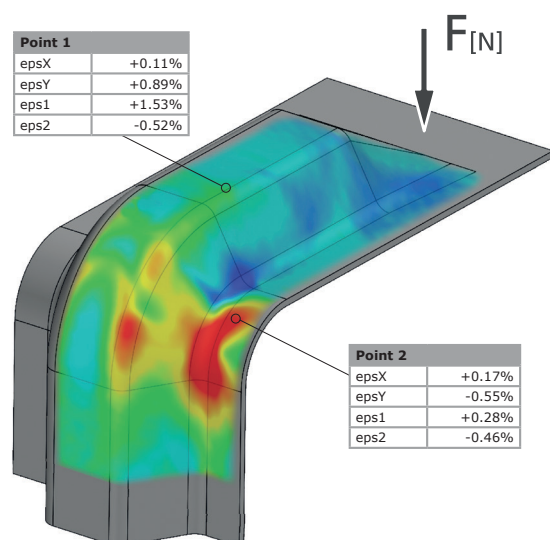
The ATOS 3D scanner is a reliable and efficient solution for various applications in these subject areas, including quality inspection, reverse engineering, rapid prototyping, milling, digital mock-ups.

ARAMIS for Education

The "ATOS for Education" package from GOM can be easily extended for applications in materials and components testing.

Using the same hardware, all it takes is an additional digital image acquisition and image correlation software and another training object to enable measuring tasks in the field of materials and components testing in addition to 3D scanning and inspection.

The "ARAMIS for Education" package also includes complete laboratory experiments and lecture material as well as detailed video tutorials to enhance learning.



GOM – Precise Industrial 3D Metrology

GOM develops, produces and distributes software, machines and systems for industrial and automated 3D coordinate measuring technology and 3D testing based on latest research results and innovative technologies.

With more than 60 sites and an employee network of more than 1,000 metrology specialists, GOM guarantees professional advice as well as support and service to operators on-site in their local languages. In addition, GOM shares knowledge on processes and measurement technology in training courses, conferences and application-based workshops.

GOM has been developing measuring technology in Braunschweig since 1990. In the respective research and development departments, more than 100 engineers, mathematicians and scientists shape the measuring technology of the present and the future.

Today, more than 17,000 system installations improve product quality and accelerate product development and manufacturing processes for international companies in the automotive, aerospace and consumer goods industries, their suppliers as well as many research institutes and universities.



GOM headquarters in Braunschweig, Germany

