

breuckmann
3D Scanner

HIGHEST PRECISION IN 3D METROLOGY
stereoSCAN

MEASURE THE ADVANTAGE

a company of AICON 3D Systems

stereoSCAN

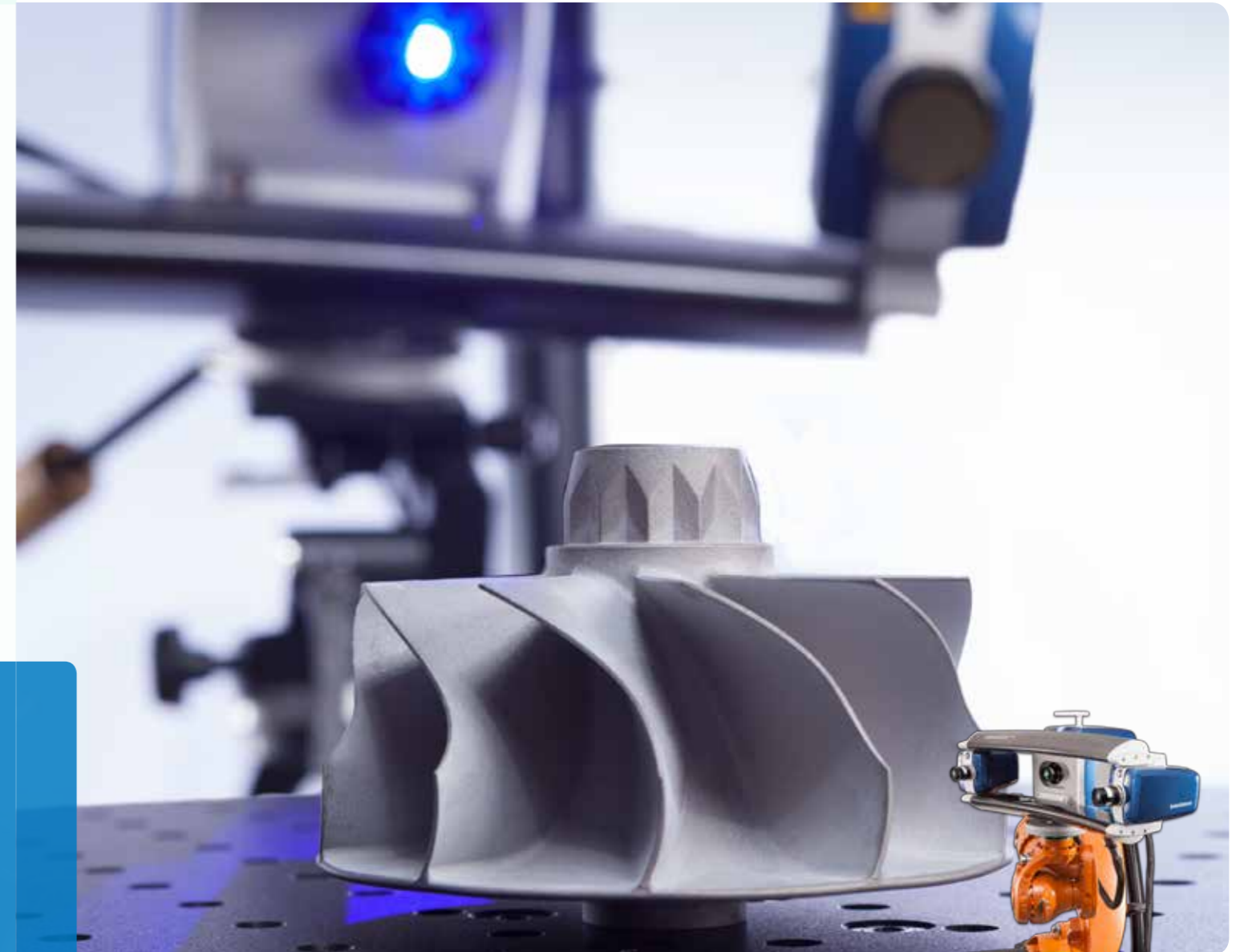
Especially in the context of demanding measuring tasks, the asymmetrical camera arrangement of the stereoSCAN provides optimum flexibility and reliability; even object areas which are difficult to access are captured fully and conclusively. The sturdy CFRP double structure of the sensor base allows for variable scanning positions — depending on your measuring task, the stereoSCAN even works standing on its head! Thanks to the system's exceptional sturdiness, it delivers high-precision, true-to-detail 3D data for further processing not only in the protected laboratory environment but also under the harsh and challenging conditions of an actual industrial production setting.

RANGE OF USE

Prime standard precision for innovative 3D projects:

- Inspection and quality control
- Process automation
- Digitization of design models
- CAD comparison to reference object
- Production optimization
- Automotive industry and suppliers
- Aviation and aerospace industries
- Electronics industry
- Casting industry
- Tooling and mold making industries
- Plastics industry

HIGHEST PRECISION IN 3D METROLOGY



3D inspection of a turbine wheel using patented miniaturized projection technique (MPT)

Application areas

- Inspection and measurement of free-form areas
- Faster prototyping processes
- Automated measurement processes
- Optimization of throughput times
- Surface area measurement with short takt times

System configuration

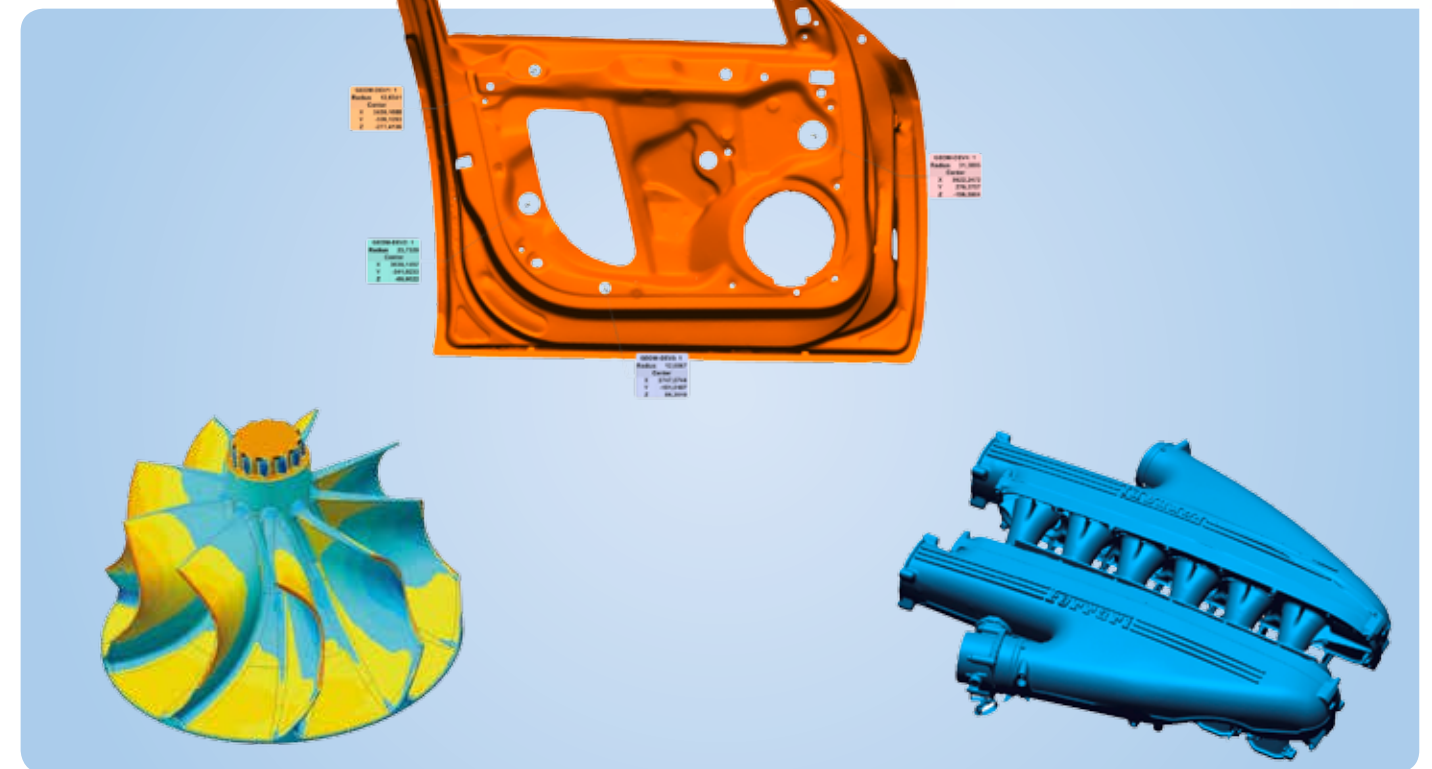
- Wide selection of measuring fields for maximum feature accuracy
- High-resolution color or black-and-white cameras
- High-power LED in blue or white; optionally in green or red
- Measurement and evaluation software OPTOCAT
- Certified in accordance with VDI/VDE 2634
- Comprehensive range of accessories: Calibration plates, measurement tripod, robot, work stations, and many more

Versatile 3D metrology
at the highest precision



Ultimate precision
and versatility

High-precision and at the same time flexible scanning – these are the signature features of the stereoSCAN: By swiftly changing the camera lenses or repositioning the camera modules, the system is easily adapted to any kind of task or requirement. The resulting scans are generated in standard formats, e.g. STL, PLY, VRML. In combination with a tactile sensor, it provides the ideal scanning setup for complex, large-size measuring projects with minimal effort. For automated scanning the scanner can, furthermore, be equipped with a robot and a turn/tilt unit.



Contact-free, high-resolution 3D scanning for any type of object size, surface and material.



*Three-dimensional metrology at the highest level accomplished by using a two-camera-system, which thanks to its excellent mechanical and thermal stability is universally usable: Whenever it comes to measuring the finest structures or minutest deviations, the **stereoSCAN** is the system of choice.*

ADVANTAGES

- ✓ Sophisticated 3D metrology at the highest precision
- ✓ Automated measurement in rough production environments
- ✓ Variable scanning positions thanks to CFRP double-base structure
- ✓ Can be combined with a tactile probing sensor or a CMM
- ✓ High luminosity projector with LED in blue or white
- ✓ Fast and easily changeable measuring fields
- ✓ Three triangulation angles (10°, 20°, 30°)

Our Philosophy

Efficient and high-precision production monitoring, quality control, inspection and reliable reverse engineering are absolutely essential to be competitive in a global market.

In the field of industrial metrology and beyond, optical and portable non-contact 3D measuring systems become more and more important. We offer optimized solutions around your inspection and digitization tasks to keep the quality of your products always at the maximum level.



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