



PartInspect M

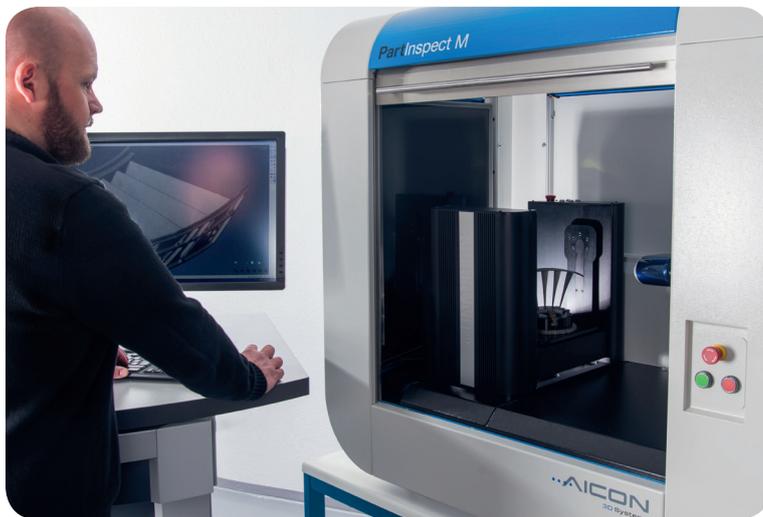
The enclosed system for automated scanning processes

The task:

In the production, in the laboratory or at the designer's workplace — for precise 3D scanning, the environmental conditions are often beyond optimal circumstances due to vibrations, dust, unfavourable lightning conditions or constricted room. At the same time, the user prefers applying fully automatic, highly precise scanning of most different materials and surfaces mainly where the 3D data are directly used for further processing.



→ PartInspect M scans the measuring objects in an enclosed system housing



→ Fully automated digitization with integrated turn-tilt unit

The solution:

For fast digitization this system comes with the own measuring chamber: The 3D scanner captures the measuring objects inside an enclosed housing. Therefore, the PartInspect M can be used at any user-defined location, in the production, in the laboratory or directly at the designer's workplace. The integrated turn-tilt unit provides fully automated digitization without any user's intervention. The white light scanner digitizes even complex surfaces completely and precise to detail. Irrespective of material (plastic, metal, composite material, etc.) or surface property, the system delivers high-precision 3D data. The contact-free scanning process even captures fragile or deformable objects (e.g. made of modelling clay or ceramic) quickly and at the required level of accuracy.

The advantages for the user:

- Precise scanning irrespective of the environmental conditions
- Individual system configuration for any measuring requirement
- Feature accuracy up to 0.008 mm
- Suitable for test objects measuring a maximum of 300 x 400 mm and a weight of up to 15 kg

Inspection of small batch series, random sample checks, reverse engineering or component measurements are typical application areas of the PartInspect M.

Thanks to a patented technology, the enclosed scanning system is particularly well suited for the inspection of edges, such as the leading and trailing edges of turbine blades. Irrespective of the surface characteristics of the measuring object, even radii in the tenth of a millimeter range are measured at true to detail accuracy. The operation of the system is supported by an easy, workshop fit user interface. The scan data can be automatically compared with the CAD draft, providing comprehensive evaluations for each captured component part.