

3D-SCANNER

NEW WAYS IN HARDWARE TESTING



YOUR GLOBAL MOBILITY ENGINEERING EXPERTS

In practice, it often happens that geometries or distances are difficult, inaccurate or even impossible to measure and document with conventional measuring equipment. This is why we at EDAG use a mobile 3D scanning process in some areas of hardware testing.

How does the 3D scanning process work?

With the help of the hand-held 3D scanner, any object can be scanned and thus digitized in a few minutes. This type of object detection offers various benefits and also new possibilities compared to conventional measuring systems. For example, sectional views can be created and distances or dimensions can be made in places that are inaccessible in practice with conventional measuring equipment. Furthermore, the scanned objects can be implemented in existing CAD assemblies. In this way, various examinations can be carried out digitally from the workplace.

Example from child safety – testing pieces „Gabarit“



Depending on the geometry and size of the object to be scanned, different versions of the scanner are used for the near and far range. These allow both an accuracy of up to 0.1 mm at close range and the scanning of large objects or entire areas. Therefore, the 3D scanning process can be used flexibly in the most diverse areas.

Application examples from the field of vehicle safety are:

Child safety:

Installation tests of test objects in the vehicle interior

Overall vehicle testing:

Euro NCAP – Analysis of the MPDB barrier

Occupant protection:

Scanning of dummies in the vehicle
(seating position, Out-of Position)

Accident Research:

Scanning of the vehicles / the accident area

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