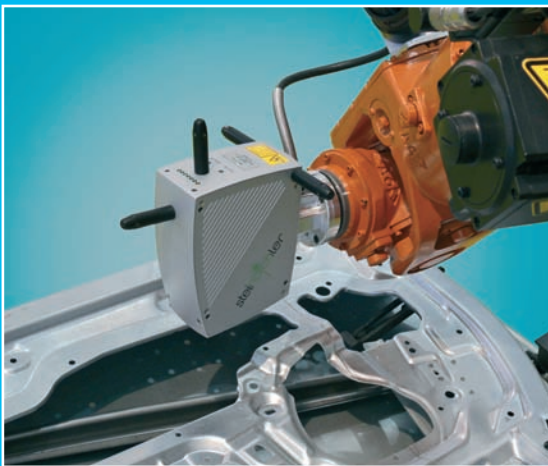


T-SCAN

Automated 3D Digitizing

The handheld laserscanner T-SCAN offers outstanding benefits for mobile use and deliver fast and highly precise results for challenging measurement tasks such as production-related quality control. This opens new perspectives for a wide application range. Through the adaptation of the T-SCAN laserscanner to an industry robot, fast and precise automated measurement procedures for quality control are enabled. Thus, the serial and uncomplicated inspection of the dimensional accuracy (e.g., at production start) of large-sized test parts can be carried out very effectively. The measurement data can be used for evaluation in any common inspection software tool for comparison of actual and nominal data of a reference object (CAD data, released sample part).



- fully automatic, efficient 3D digitization of large objects
- high accuracy
- large measuring area
- macro-controlled program run
- no object preparation necessary; measurement on objects with varying surface properties
- automatic evaluation with common inspection software tools (e.g., Polyworks Inspector)

T-SCAN - Technical Data

Measuring Depth	75 mm
Scan Width	90 mm
Mean Measuring Distance	83 mm
Scan Frequency	10 - 140 Hz
Sampling Rate of Distance Measurement	10 kHz
Resolution of Distance Measurement	1 μ m
Point Density in Scan Direction	0.14 - 1.96 mm

Measuring Area depending on Robot Model	max. Measuring Depth 4.5 m
Sensor Weight	< 1500 g
Sensor Dimensions	185 x 100 x 145 mm
Standard Cable Length Scanner-PC	9 m
Lateral Resolution	0.1 mm
Laser Type	Diode
Wavelength	670 nm
Laser Class	2