



# Automotive supplier uses Laser ScanArm

*POLYTEC, developer and manufacturer of plastic components for the automotive industry, uses FaroArms and a Laser Line Probe for initial sampling, measurement and reverse engineering. Their measurement results are now available in 'real time'.*

POLYTEC came into contact with FARO in 2002 in the course of the planned upgrading of existing CMMs. The goal was to find

a measuring system that would make 3D measurements possible based on CAD. In addition, the company was looking to move away from fixed 3D coordinate measuring machines that only allowed measurements via the counter function against the drawing. The FARO measuring arm rapidly impressed POLYTEC, which opted for an 8-foot FaroArm Gold, which was introduced and ready for use within a week. Quality assurance requirements also increased parallel to the company's development over the years, so that the

department also upgraded in 2006, acquiring a 10-foot FaroArm Platinum with a Laser Line Probe – otherwise known as a FARO Laser ScanArm.

The FARO Laser Line Probe is the first laser scanner that can be fully integrated into a portable measuring arm system with 7 axes. Compared to other scan systems, this system allows points to be recorded using both contact and non-contact measuring techniques in one software application, without interrupting the scanning process or having to make additional >>

4 GOOD REASONS

*The measuring arm can be mounted and operated very easily, regardless of the surface being worked on.*

**1** Mobility: Large and heavy components must no longer be transported to the measuring machine. Quality control can be completed on-site with the measuring arm. A patented temperature compensator assures reliable measurement results.



**2** Flexibility: Thanks to the use of multiple rotary axes, the measuring probe can be positioned at the point to be measured, even if it is difficult to reach.

**3** Counterbalance: The internal weight counterbalance in the FaroArm enables measurements to be completed beneath its clamping frame and allows unencumbered work.

**4** Universal mounting: The measuring arm can be mounted and operated very easily, regardless of the surface being worked on.

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-  INSPECTION
-  REVERSE ENGINEERING

>> settings with regard to the hardware and software. When recording the point cloud, as many as 19,200 points per second are recorded from the surface to be scanned. The FARO Laser Line Probe adapts automatically to the surfaces to be scanned. This makes it possible to scan a vast range of different surfaces rapidly.

The FARO ScanArm is used today at POLYTEC in a range of areas. It is used for initial sample inspection, for measuring tools and equipment and in scanning components for reverse engineering.

In reverse engineering, the attachment situations on a vehicle are analysed. A positive

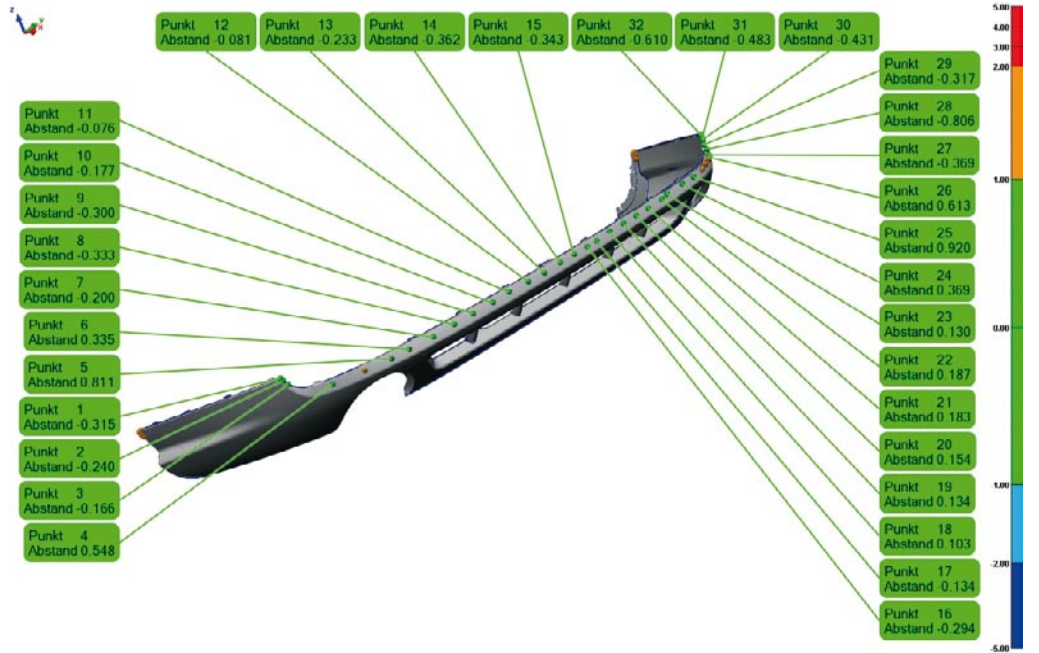
attachment of the part to the vehicle is not sufficient for release of the component by the customer. In this early stage of production, vehicles do not yet possess a high dimensional quality. Costs for modification and adjustment are now borne by the customer. Measurement of the vehicle has become a customer requirement – without which there is no component release.

Mr. Grünberger from Polytec explains why his company has opted for FARO systems: "The FaroArm provides us with a perfect solution, as it is both highly versatile and portable. It permits measurements on and inside vehicles, and also won us

over due to its ease of use. Furthermore, the FaroArm offers outstanding value for money compared with conventional CMMs. Additional reasons for us deciding again in favour of a measuring system from FARO were the positive experiences we had with the customer service department during the FaroArm Gold period."

What has changed at POLYTEC since the arrival of the new FARO ScanArm?

All measurement results are now available in 'real time' and provide the production department with instant feedback. The scan results provide a 100% statement about the component and the manufacturing process!



ABOUT FARO

FARO develops and markets computer-aided measuring equipment and software for creating digital 3D models. The equipment enables highly precise 3D measurements, 3D comparisons of small and large parts and components directly in production, factory planning, and as-built documentation - like specialised applications in mechanical engineering. Today, approximately 8,600 customers worldwide with more than 18,000 installations have put their trust in the company's measurement systems.

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ABOUT POLYTEC

The POLYTEC GROUP is an internationally respected developer and manufacturer of plastic components for the automotive industry. Founded in Grieskirchen (Austria) in 1986, the company has developed during the last ten years from a manufacturer of industrial plastic components into a system supplier capable of covering the entire process chain. Over the years, the POLY-

TEC GROUP has established itself as a reliable partner to the automotive industry thanks to its outstanding commitment in the area of research and development. Today, the focus is on the production of interior, exterior and engine compartment components, as well as the manufacture of functional parts and accessories.

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