

DIGITIZING ENGINEERING INSPECTION



QFP

QUALITY FOR PASSION

3D Contactless Measuring Systems and Services, Engineering, Consulting

QFP Srl is an ISO 9001:2015 certified company that develops and provides since 2002 services and solutions for Engineering, 3D Contactless Measurement Systems, automated 3D measuring cells and customized solutions for all industrial fields.

The continuous research, the knowledge, the competence and the effort of the staff are always directed to generate the highest service quality and customer satisfaction.

The complete range of 3D Contactless measurement devices allows to handle any measurement task, providing measurement, inspection and reverse engineering services worldwide.

Thanks to the technology and professional know-how of its digitizing and automation engineers, QFP develops high end customized Automated 3D Contactless Systems that significantly reduce the inspection time and costs while increasing the product quality, accuracy and efficiency of the process control.

In the field of Engineering consulting QFP has a long experience in the Aerospace and Defense Industry, especially in the Cargo Door and Passenger Door design.

Top Customers

AEROSPACE INDUSTRY

LEONARDO (EX: ALENIA, AGUSTA WESTLAND), KOREAN AIR LINES, AIRBUS HELICOPTERS

MANUFACTURING INDUSTRY

FCA GROUP, CNH, FERRARI, AUTOMOBILI LAMBORGHINI, DALLARA, DUCATI CORSE, HONDA ITALIA, ROECHLING, AUTOTEST, SPAL, PEDROLLO, SAG GROUP, CONTINENTAL, ITALDESIGN-GIUGIARO, GE OIL&GAS, SAECO-PHILIPS, TECHNOGYM, PERSHING, PERSICO MARINE, MAHLE, PZL, FERRETTI GROUP, AGCO, VALEO

RESEARCH INSTITUTES

UNIVERSITÀ POLITECNICA DELLE MARCHE, POLITECNICO DI MILANO, UNIVERSITÀ DEGLI STUDI DI PADOVA, UNIVERSITÀ DI PALERMO, UNIVERSITÀ DEL SALENTO, UNIVERSITÀ DI FIRENZE, CASPUR, INAF

Automated 3D Contactless Measuring Systems

The Automated 3D contactless Measuring Systems with optical/laser technology, are advanced systems with a completely automatic measurement and inspection processes. QFP design and develop both standard cells, the "QBOX family" (www.myqbox.it) and completely "Customized" solutions based on customer requirements.

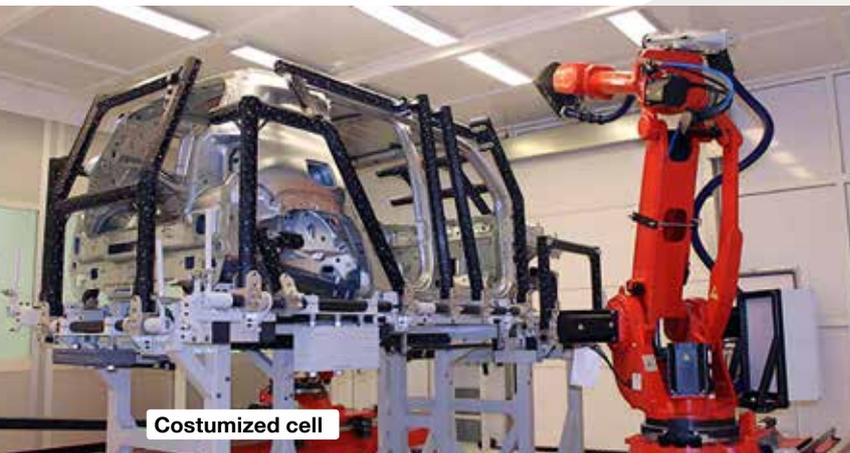
All the automated processes are managed by software in a virtual environment that faithfully reproduces the reality. The operator does not need to know the program language of the robot because a virtual environment allows to create the program by a graphic interface only with some mouse clicking.

The Automated 3D contactless Measuring Systems provides important advantages compared to traditional measurement methods thanks to: the large amount of information resulting from 3D digitizing devices; the time saving for the inspection process; the global cost reduction for dimensional controls.

For these reasons, the Automated 3D Digitizing Systems are increasingly used by Aerospace, Automotive and Energy companies.

Engineering

Starting from the customer's technical request, QFP develops design, stress and certification activities for aerospace structures and mechanisms with CAD/CAE 3D software. Every project is strictly monitored to guarantee the high visibility of the program and the respect of the delivery time. The long and successful experiences in international projects make QFP the ideal partner for the most important aerospace projects. References: Boeing B737, B747 and Airbus A320 A330 A380 A350.



Customized cell

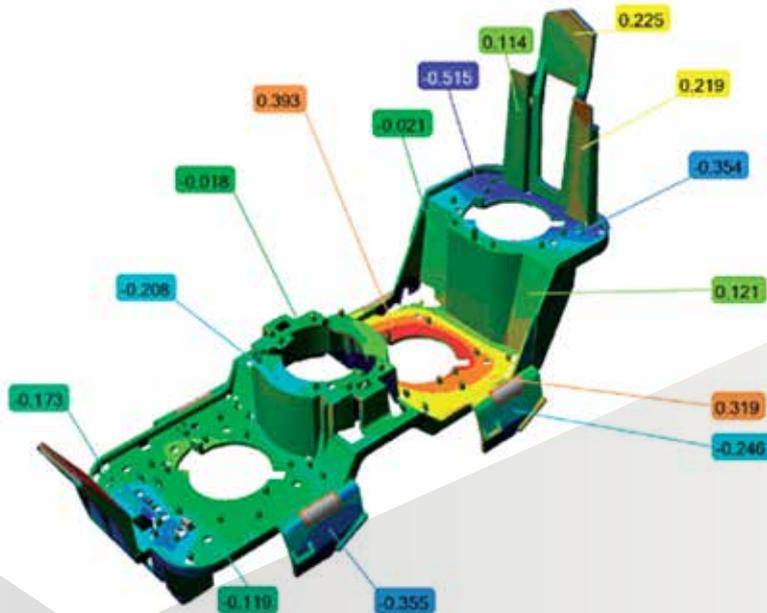
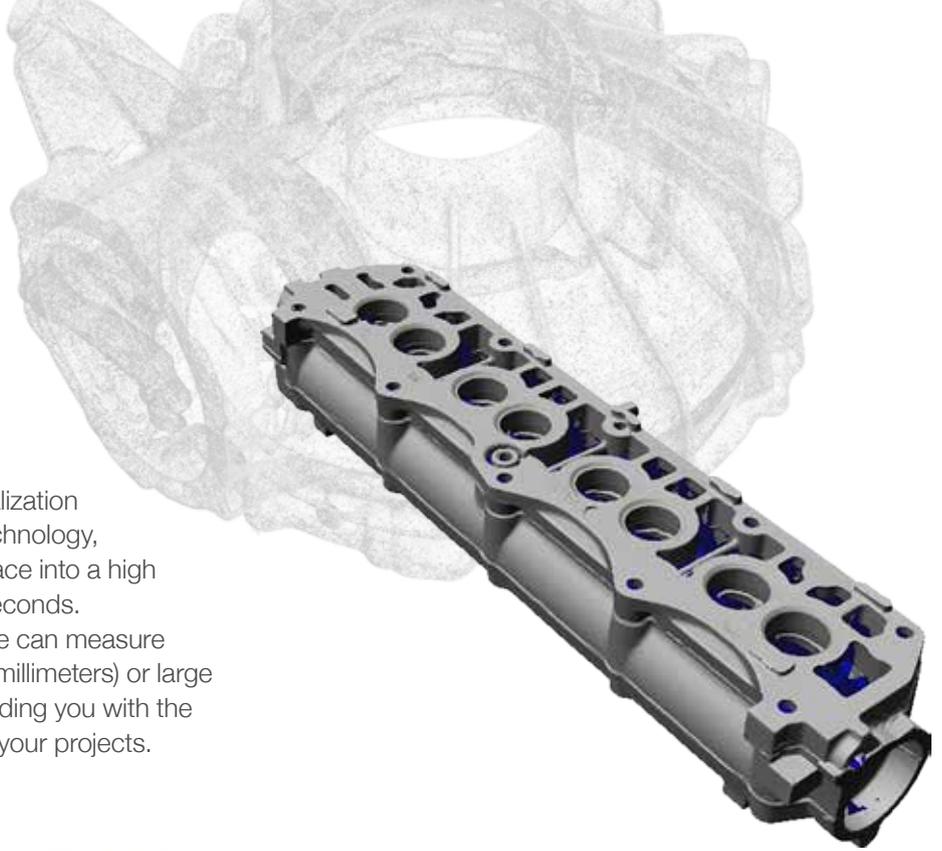


QBOX - Standard cell

Services

3D contactless measurement

With the highly accurate 3D digitalization systems with optical and laser technology, we can transform 100% of a surface into a high definition 3D point cloud within seconds. Thanks to the system flexibility, we can measure small complex components (few millimeters) or large components (many meters), providing you with the highest quality data you need for your projects.

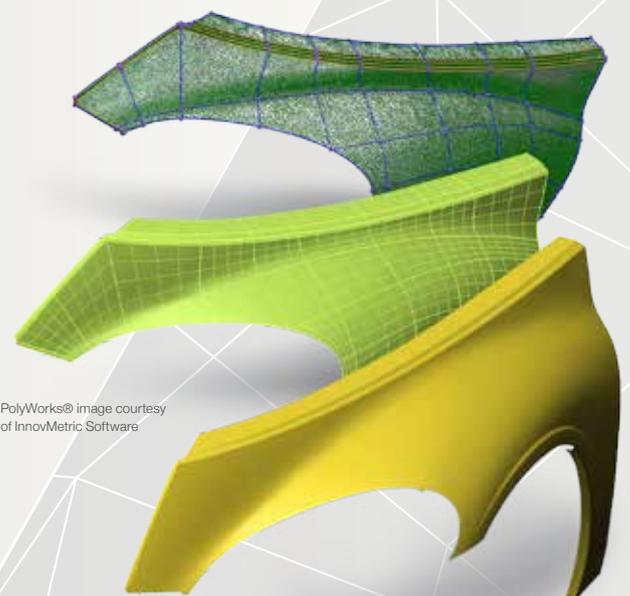


Dimensional controls

The certification of the 3D measurement contactless systems and their calibration tools guarantee the traceability of all the measurements. Using the analysis of the whole surface, detailed reports of dimensional control can be provided, reports that contain chromatic maps, control analysis of specific areas as requested by a client, examination of the tolerance of the shapes and the edges. The reports can also be provided in 3D files with free visualization. Our experiences team is at your disposal for any kind of inspection or reports you may need.

Reverse engineering

In case of complex objects, a detailed point cloud is the starting point of the process in order to create a mathematical model of the object. This can be achieved by using different stages of data elaboration with CAD and Reverse Engineering Software. The process ends with the Engineering, defining interfaces and structural features.



PolyWorks® image courtesy of InnovMetric Software

Products



Efficient quality assurance in tube manufacturing



TubelInspect Products. TubelInspect is specially designed for the measurement of formed tubes and wires – both in Reverse Engineering and in serial production. Beyond that, the system is able to calculate setup and correctional data for your bending machines within just a few seconds.

Your advantages:

- replaces mechanical gauges
- direct connection to bending machines possible



3D Contactless Measuring Systems with laser and fringe projection technology



T-Scan CS. Hand- held 3D digitizing system with laser/optical technology. The revolutionary and modular all-in-one concept, includes perfectly matched components (tracking camera, hand-held scanner and touchprobe), thereby

offering highest flexibility for a large variety of applications. It does not need any surface preparation on the object of measurement, even if the surface is black or shiny. It offers a solution for the acquisition of 3D data (up to 20mc) in just one output.



Comet 6, Comet L3D. 3D optical measurement system based on fringe projection and BLUE LED technology, which feature the performance of digitizing tasks in various application areas, thus ensuring an exceptional level

of accuracy and high-speed measurements.

The adaptive projection technology (3D ILC - Intelligent Light Control) locally adapts the light quantity projected onto the object surface; undesired effects such as glare are therefore minimized.



3D Contactless Handheld Measuring Systems with laser technology

GapGun. Contactless handheld measuring systems with laser technology, that can be used in various industries such as automotive, defense and aerospace.

The Gap Gun is a metrology product mainly for flush and gap measurement, which allows to measure even radius, joints and turbine blades.



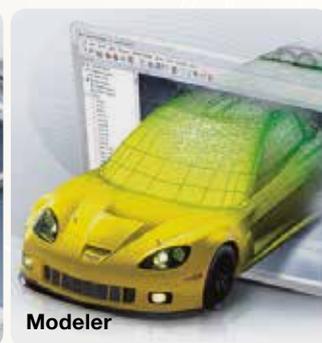
Software for Dimensional Control and Reverse Engineering for the manufacturing industry

PolyWorks/Inspector. Certified software for the dimensional analysis of high density point clouds in the manufacturing industry.

PolyWorks/Modeler. "Class A" Polygonal Modeler and quick rebuilder of surfaces.



Inspector



Modeler

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