3DTOOL

3DTool – comprehensive supplier of measuring fixtures and accessories

3DTEAM METROLOGY SOLUTIONS

Experts in 3D measuring services and reverse engineering.

Official distributor of the 3D Systems.

LENSO PRECYZJA Z PASJĄ

Experts in industrial 3D scanning systems.

Exclusive distributor of the GOM GmbH.

3DTOOL MEASURING FIXTURES

Experts in development and modification of fixturing systems.

Official distributor of the Carl Zeiss Fixture Systems GmbH.

partners: gom a ZEISS company ZEISS

3DTool is a group of experienced design and quality engineers, providing technical solutions in the area of Quality Control.

Scope of activities:

- development and modifications of universal and dedicated measuring fixtures and gauges, quick control test instruments – GO/NOGO and other measuring accessories,
- customized products – test stands, automated measuring stations, turnkey solutions according to customer requirements,
- retooling projects of measuring fixtures and gauges,
- comprehensive maintenance services,
- distribution of Carl Zeiss Fixture Systems GmbH (CARFIT) commercial products.

Automotive

Healthcare

Plastics processing

Metal casting

Metal stamping

Aerospace

Office

- headquarter: Poznan, Madalinskiego Street no. 3,
- assembly hall and QC laboratory 350 m^2,
- office area 220 m^2,
- software: CATIA V5-6R 2016, CATIA V5-6R 2018, Solidworks 2018, ATOS Professional 2019, GOM Inspect Professional 2019, Geomagic Design X, Geomagic Wrap.

People

8 Experienced Design Engineers
(mechanical and electrical specialists)

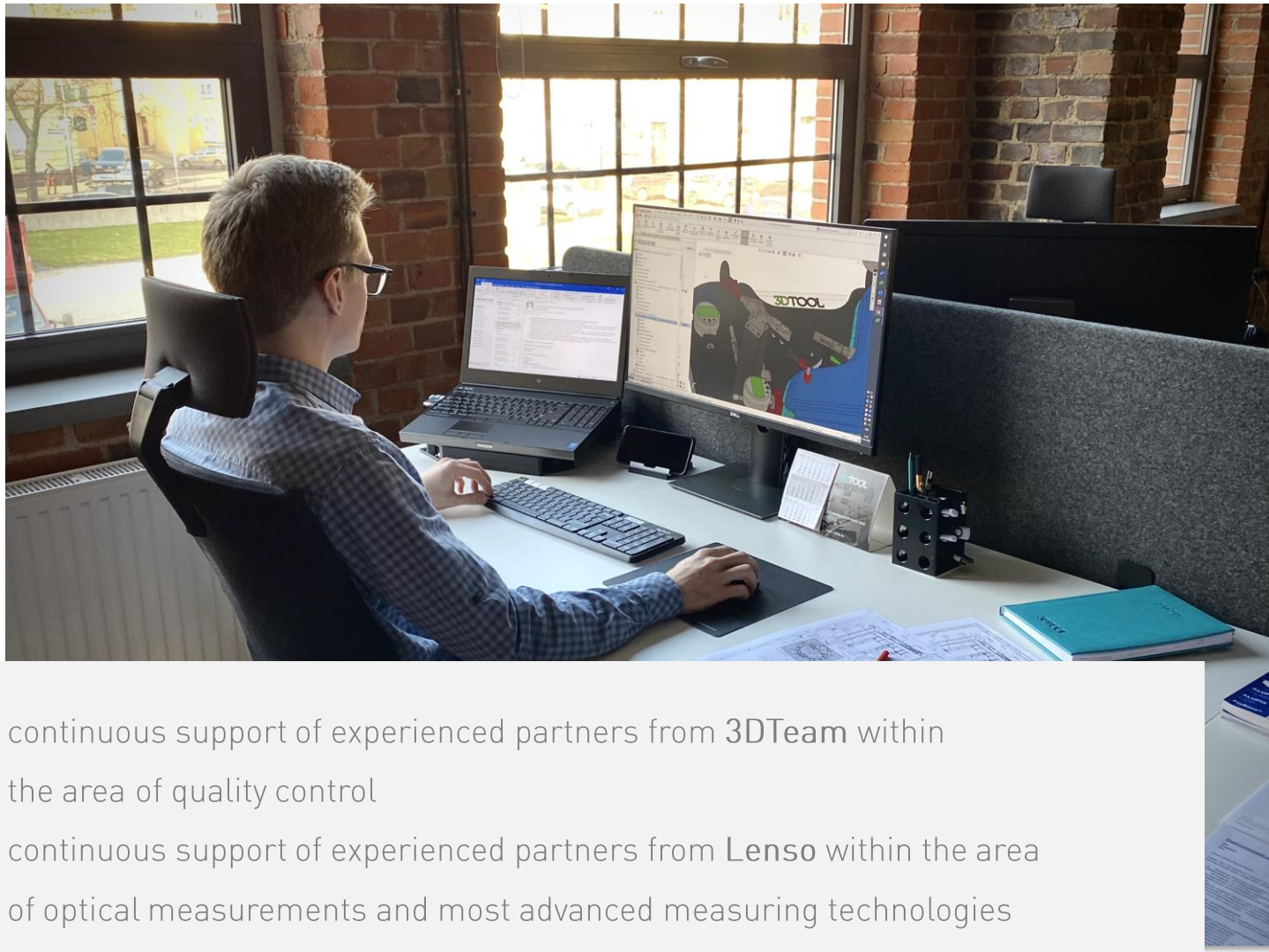
2 Project Managers

1 Product Manager

2 Administration Specialist

1 Quality Control Specialist

2 Assemblers



- continuous support of experienced partners from **3DTeam** within the area of quality control
- continuous support of experienced partners from **Lenso** within the area of optical measurements and most advanced measuring technologies

Toolshop

CNC Machining Centre
DMC 635V

3 axis conventional
milling machine

Cutting band saw

Welding machine
MIG/MAG/TIG

Electrical forklift truck

+ fully equipped assembly department with necessary manual and electromechanical tools for machining, assembly and control processes

Optical Measuring Systems

for quality control and adjustment of fixtures

ATOS Core

ATOS Compact Scan 2M

ATOS Compact Scan 12M

ATOS Triple Scan

ATOS Capsule

ATOS 5

ATOS Q

TRITOP

Touch Probe

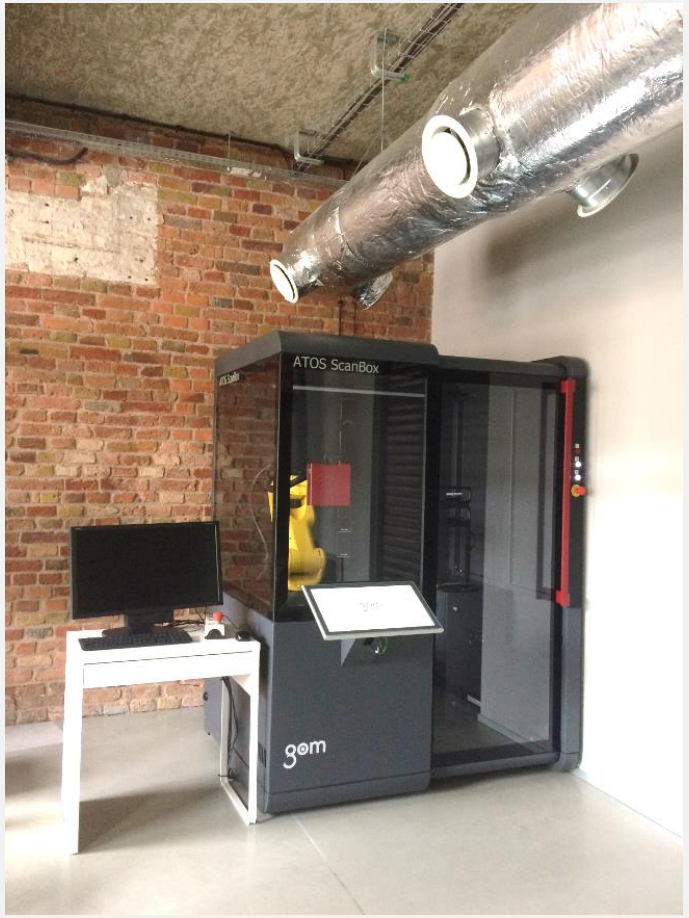
Optical Measuring Systems

for quality control and adjustment of fixtures

ATOS ScanBox 6130
ATOS Plus

ATOS ScanBox 4105

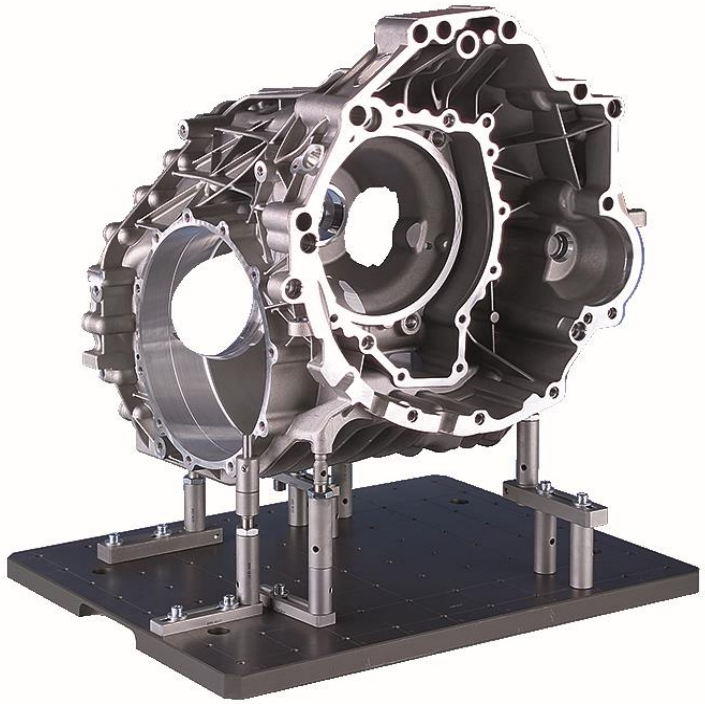
Dedicated measuring room with controlled environment – temperature and humidity.

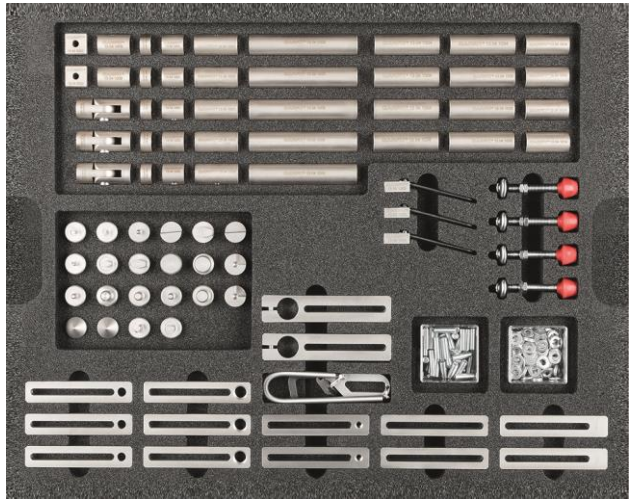


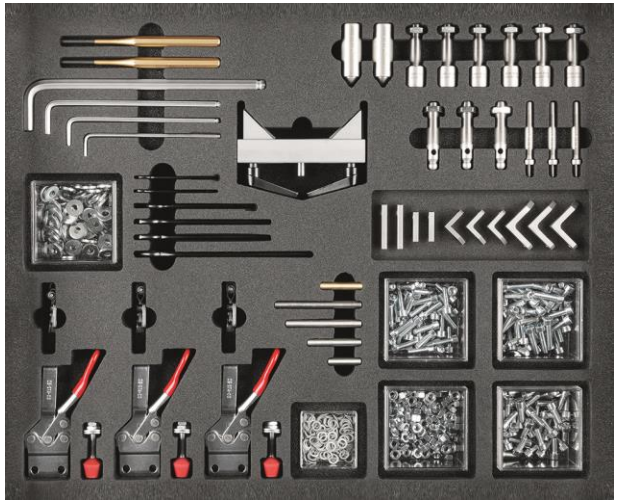
Sets of modular components

for measuring fixtures assembly and prototyping

Witte Basic Set 4, Witte Custom Set,
ZEISS CARFIT CMB Set B and own 3DTool technical solutions







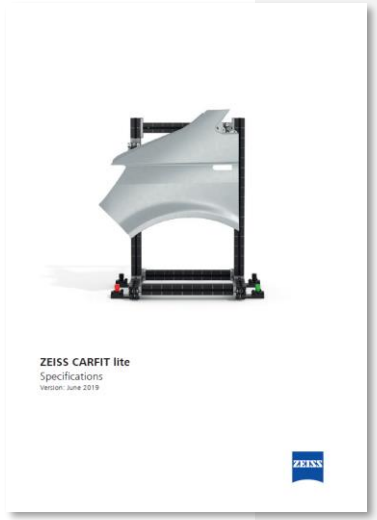
Our goal as an business partner of Carl Zeiss Fixture Systems GmbH is not only to sell the product!

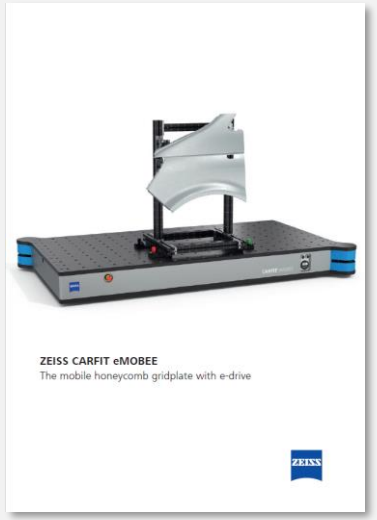
We offer our customers comprehensive technical support which helps to make a proper choice.

3DTOOL ZEISS Business Partner

- Carl Zeiss Fixture Systems GmbH is one of the most popular supplier of modular components that are commonly used for measuring fixtures.

- ZEISS CARFIT – modular components system commonly used in design of measuring fixtures and gauges. ZEISS CARFIT ensure excellent stability, high degree of precision (+/- 0.05 mm) and fast part change-out.





CARFIT modular components system from ZEISS | 3DTool

Business Partner

ZEISS CARFIT – modular components system used in design of measuring fixtures

- high accuracy and wear resistance,
- extraordinary variety of standardized components makes it easy to produce all kinds of inspection and fixturing devices: from measuring very small components to large-volume car body assemblies,
- wide range of solutions for every measurement task,
- system prepared for building of fixtures dedicated to optical and tactile measuring machines,
- modular design that helps to easily modify fixtures based on ZEISS CARFIT.

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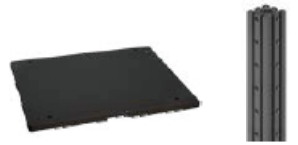
Modular plates, brackets and profiles.

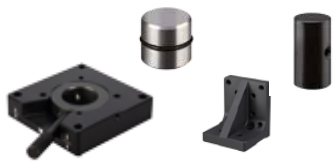


Setting elements: centers, ball points, v-pieces, contour blocks.

Adjustable elements: slides, jacks, rotary plates.

Clamping elements: hold – down springs, clamps, jaw chucks, vises, magnets.

Connection elements: couplings, quick and screw connectors.



CARFIT modular components system from ZEISS | 3DTool

ZEISS Business Partner

ZEISS CARFIT OmniFix Kits – sets of components used to build your own measuring fixtures

- sets grouped in 9 different configurations depending on the size and weight load of the component,
- designed for fixing small, medium and large parts,
- assembly instructions is enclosed with each set,
- it is possible to configure an individual set of components based on technical documentation with the help of 3DTool.

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Example of design

using the ZEISS CARFIT system

Horizontal eMobee plate with E-Drive

Design used for optical measurements.

Precise vertical plate with a grid of holes.

Project of a measuring fixtures construct of grid profiles.

Development & Modifications

measuring fixtures gauges, test stands and special tools

Advantages of the 3DTool:

- **proven supplier** of automotive industry,
- one supplier of **full package solution** including design, production, assembly, measurements, adjustments and implementation,
- documentation package: **CAD 3D data, measuring reports, operation manuals, measuring programs on GOM systems,**
- VMR (virtual measuring room) **analysis** for each project related to optical measurements,
- **technical support** and training during validation processes,
- **leader of retooling projects** within the measuring fixtures for automotive industry,
- professional **maintenance services** during whole life cycle of the product.

3DTEAM

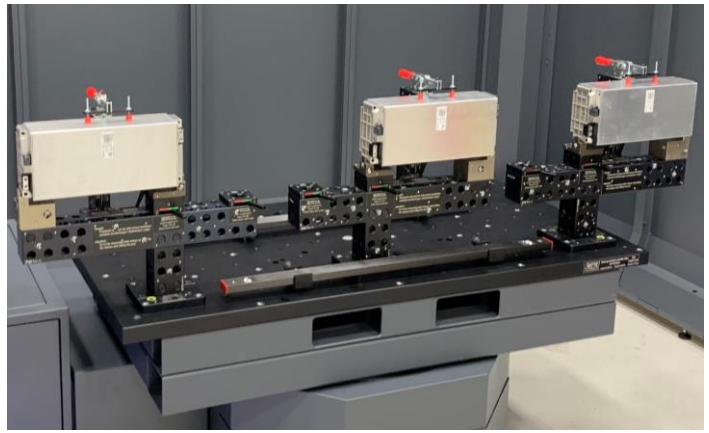
3D SYSTEMS

LENSO PRECYZJA Z PASJĄ

gom a ZEISS company

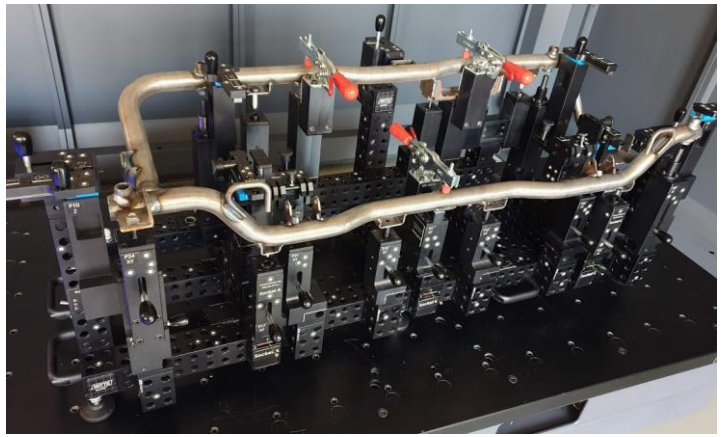
3DTOOL

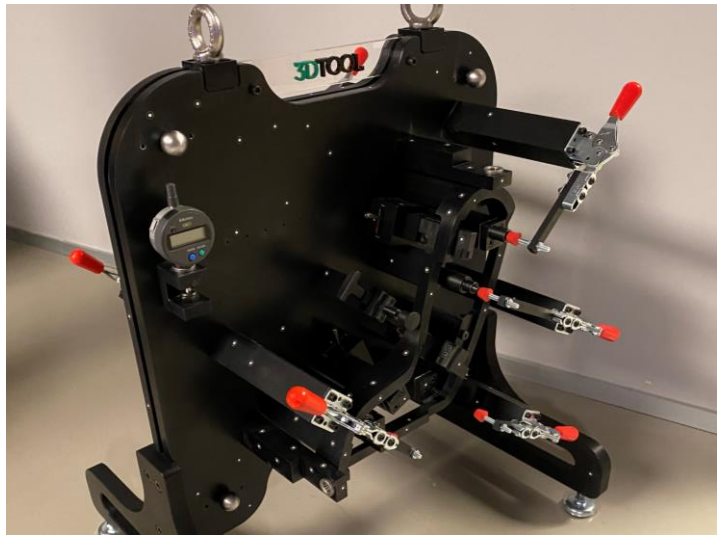
ZEISS Business Partner



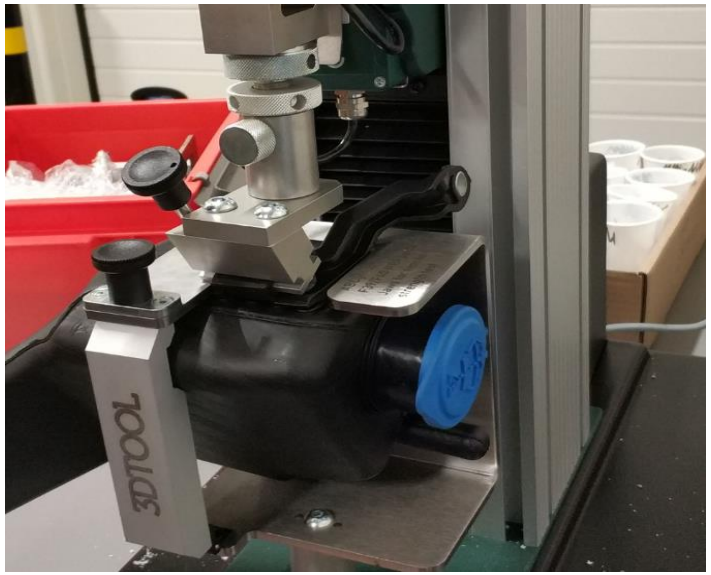
Dedicated measuring fixtures

Universal measuring fixtures



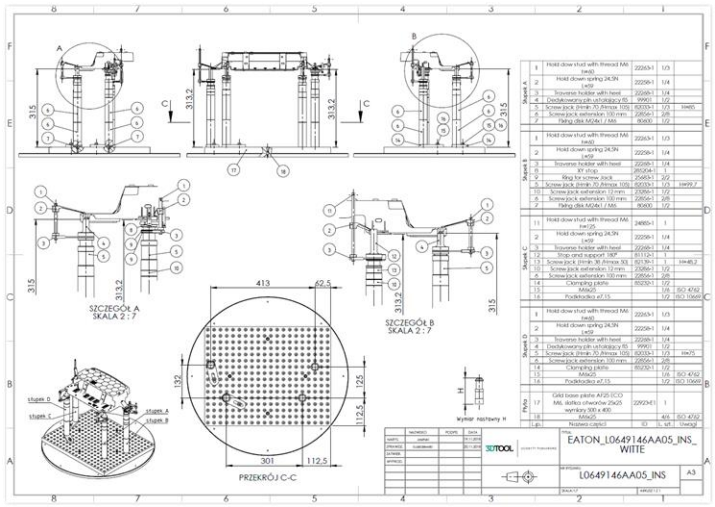


Gauges



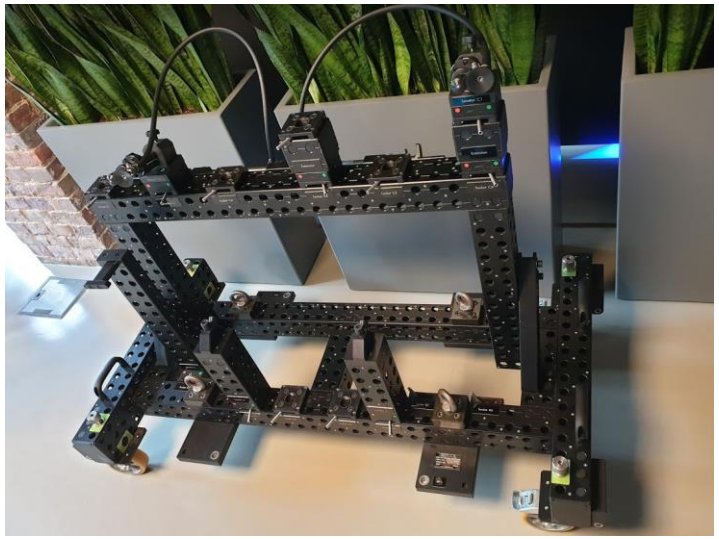
Measuring & assembly accessories

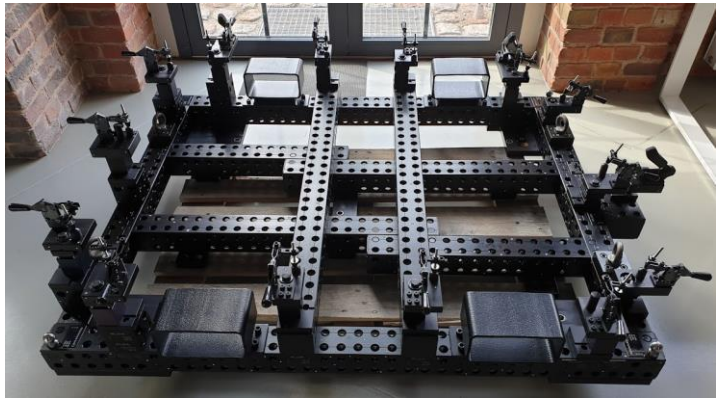
GO / NOGO control test instruments



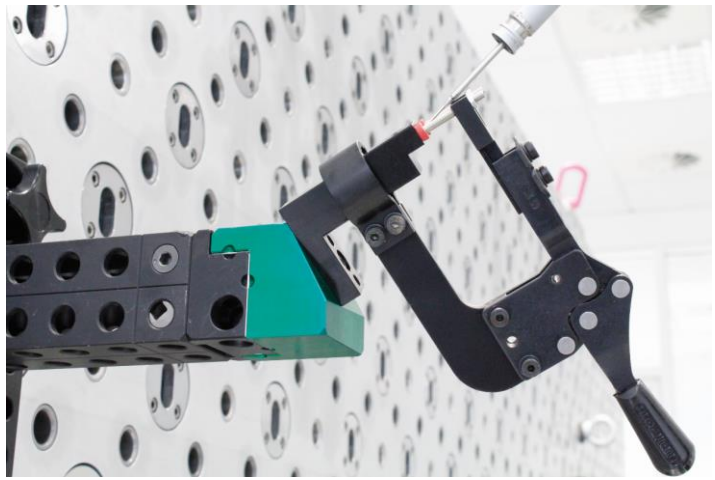
Dedicated sets of modular ZEISS CARFIT components & technical assembly drawings

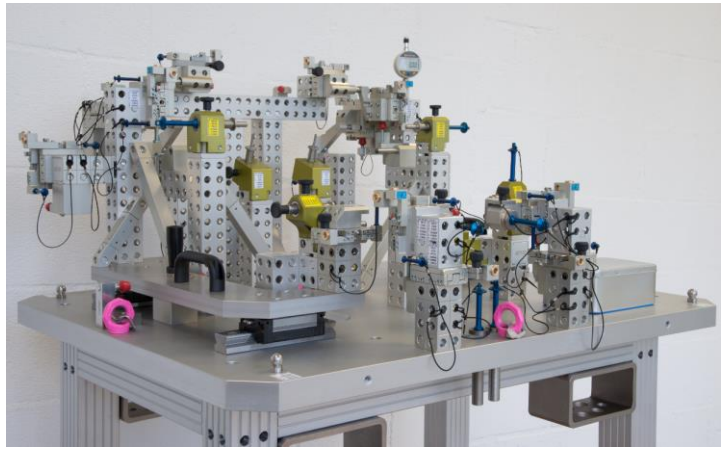
Automated tests stands
and measuring stations





Retooling





Fixtures maintenance services

If you have any further questions, please do not hesitate to contact me!

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