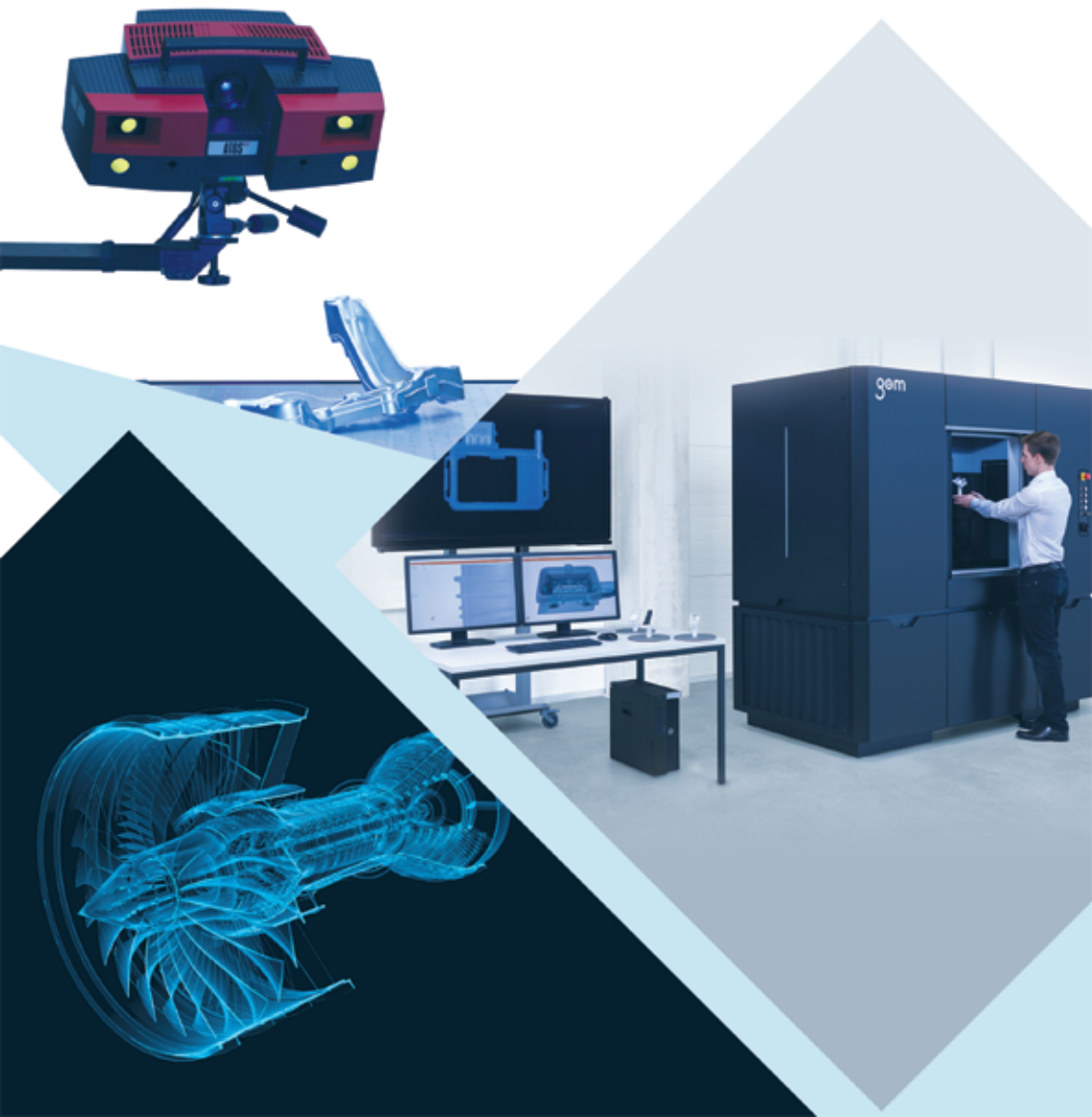


CREATEC offers comprehensive 3D scanning and industrial computed tomography services aimed at quality assessment or reverse engineering services for parts manufactured using casting, plastic processing, 3D printing and injection moulding technologies. These methods make it possible to identify the shape and dimensions of castings, forgings, drawpieces and moulded pieces and compare them to the pattern as well as to detect internal defects such as cracks, porosities or inclusions.



CREATEC engineers have completed dozens of projects using optical methods, including 3D scanning and industrial computed tomography techniques.

Thanks to the knowledge of metrology, the experience gained when providing services for Clients from many very demanding branches of industry and the competence built when performing own production and research activities, we are perfectly prepared to solve complex metrological problems. We have state-of-the-art measuring equipment - optical devices and industrial computed tomography systems.

1. 3D scanning and optical methods

- creating technical documentation based on an existing physical object (reverse engineering),
- assessing the quality of semi-finished products and products by comparing them to CAD models,
- supporting the assembly processes through virtually controlling the degree of matching particular elements together,
- controlling the quality and wear of tools,
- analysing the rigidity of presses and hammers,
- determining the deformation and displacement fields for steel plates and strips.

2. 3D tomography

- performing metrological tasks with special consideration given to the measurements of shape and dimensions,
- identifying cracks, discontinuities, inclusions, porosities, delaminations and other material defects,
- detecting the assembly defects, in particular in the production of mechanical and electronic devices,
- performing dedicated analyses such as the wall thickness distribution measurement for glass objects (bulbs),
- collecting the data on existing products and components as well as the data for building 3D models used in numerical simulations.

3. Reverse engineering

- Support in the process of selecting equipment and software depending on specific characteristics of a measuring system application:
- the provision of advice on the selection of 3D scanners,
 - the provision of advice on the selection of industrial nanotomographs, microtomographs and tomographs.

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