

GAUDLITZ – more than 70 years of competence in plastic



For more than 70 years the name **GAUDLITZ** has been synonymous with the economical production of high-precision plastic parts from thermoplastic and thermo set raw materials and the development and manufacture of high-quality molds.

GAUDLITZ has always been a competent and reliable partner for customers throughout the world in industries as diverse as the development and preparation of plastic solutions, series injection molding and assembly and logistic processes.

In April 2007 the company enlarged its portfolio by installing a Zeiss computer tomograph which enables us to generate measuring data from components in order to evaluate it for quality assurance.

Development | Precision Molds | Production



Headquarters and Production Facility Coburg
GAUDLITZ GmbH
Callenberger Straße 42 · 96450 Coburg – Germany
Tel. +49-95 61/6 48-0 · Fax +49-95 61/6 48-6 48
E-Mail: info@gaudlitz.de · Internet: www.gaudlitz.de

Production Facility Wuxi, China
Gaudlitz Precision Technology (Wuxi) Co., Ltd.
Xuedian Road (North) No. 9–1,
State High-Tech Industry Development Zone,
Block B, 214142 Wuxi, Jiangsu – P.R. China
Tel. +86-510/85 33 11 77 · Fax +86-510/85 33 11 66
E-Mail: info@gaudlitz.cn

Production Facility Dačice – Czech Republic
Gaudlitz Precision s.r.o.
Dělnická 532/V · CZ-380 01 Dačice – Czech Republic
Tel. +420-384/421 087 · Fax +420-384/421 089
E-Mail: sales@gaudlitz.cz · www.gaudlitz.cz

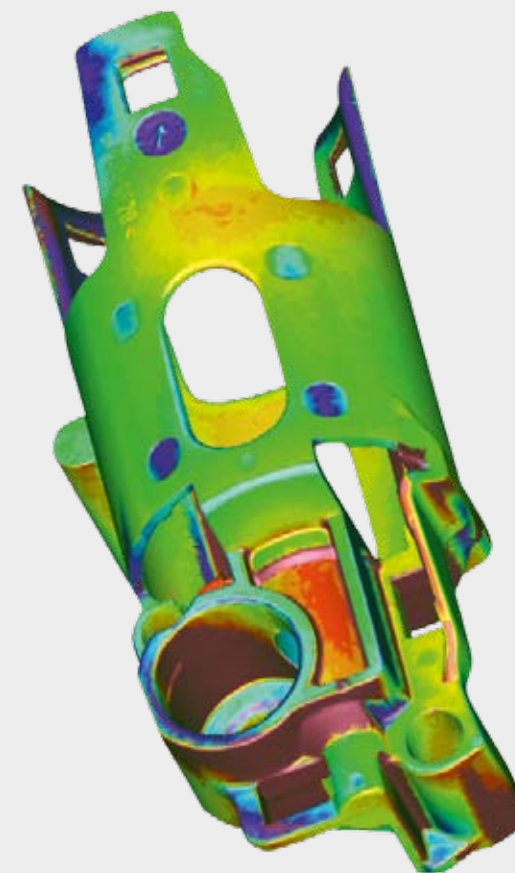
Sales and Development Offices
of GAUDLITZ and Intensa:

Intensa Technologies, LLC
40 W. Howard, Suite B-5 · Pontiac, MI 48342 – USA
Tel. +1-248/338 3319 · Fax +1-248/253 1797
E-Mail: info@intensa-inc.com · www.intensa-tech.com

**Intensa Technische Dienstleistungen
Gesellschaft m.b.H. & Co KG**
Schlossplatz 2 · A-3812 Gross-Siegharts – Austria
Tel. +43-2847/4688 0 · Fax +43-2847/4691
E-Mail: office@intensa.at · www.intensa.at

Computertomography

The ideal **measuring method** to generate
highly precise quality data fast and efficiently



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Metrology – Service in the third dimension



For industrial measurements and analysis via computertomograph (CT) GAUDLITZ provides the necessary equipment. In the computertomography procedure, the component is rotated 360° around its own axis, resulting in a 3D image of the entire volume of the workpiece.

Depending on the job definition and customer preference, the results of the analysis are provided in the form of protocols, deviation diagrams or pictures. Detailed 3D data can be made available in the form of three dimensional models or videos which show the interior of the components. For the comparison of existing CAD data with the real workpiece GAUDLITZ is offering a variance analysis. Additionally there are a lot more evaluation possibilities, which can be tailored to the needs of the customer on inquiry.

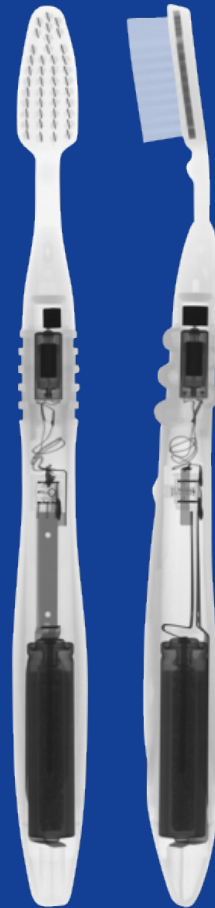
Field of application for **computer- tomography**

1. Non-destructive inspection

- Defect analysis
- Porosity analysis
- Assembly inspection
- Damage analysis
- Inspection of materials

2. Dimensional measuring

3. Geometry analogy



Advantages of the **metrology** at a glance

- Inspection analysis of complex parts
- Non-destructive inspection of previous unreachable internal geometries
- Reduction of product development cycles through fast and highly accurate analyses
- Efficient prototyping
- Automatic recognition of cavities
- Familiar evaluation environment
- Use of existing Calypso protocols

Inspectable materials

(Dependent on the amount of total material thicknesses and composition)

- Plastics up to 250 mm thick
- Light metal alloys up to 120 mm thick (Al, Mg)
- Model construction materials up to 200 mm thick (plaster, wood, bakelite, resin and sand cores)
- Ceramics and compound materials (depending on the density, porosity and composition)
- Steel (computertomography up to 10 mm, defect checks)

Ask for our service catalog
under tel. +49 95 61 / 6 48-7 48