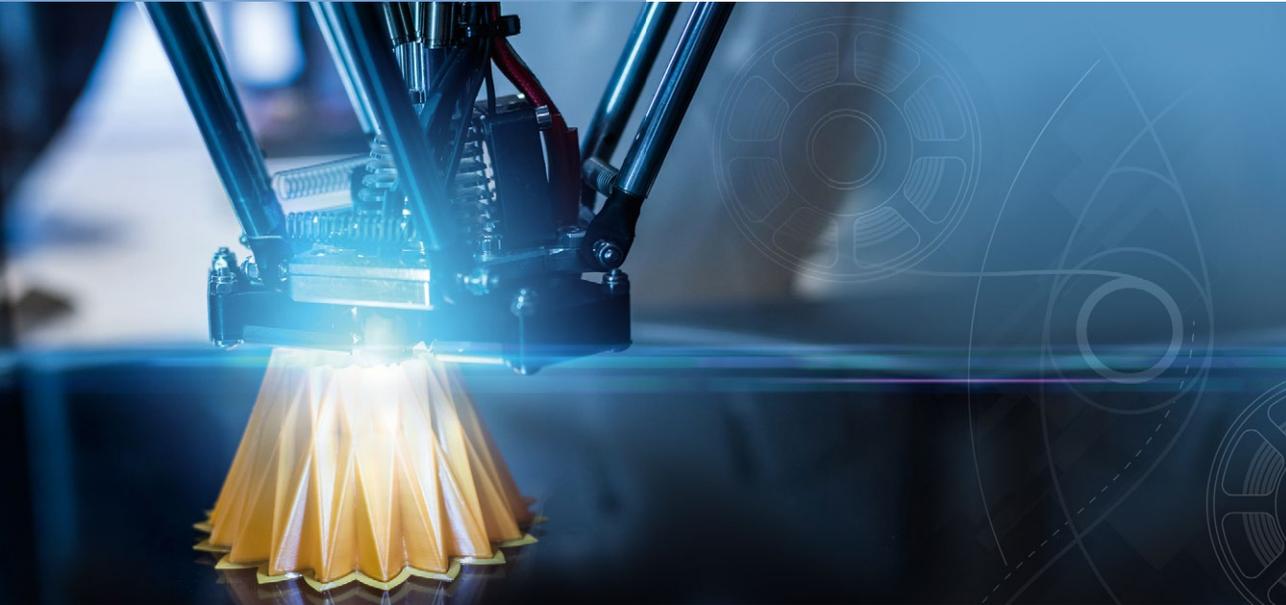


Intelligent Testing



Additive Manufacturing

Single-source Verification
and Quality Assurance

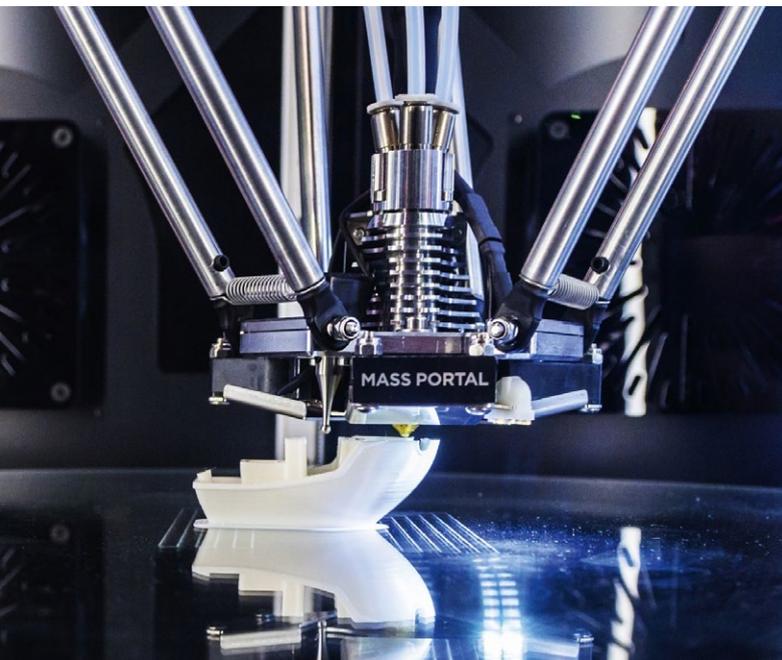
iABG

Additive Manufacturing

Material analyses, strength testing, verification and tests, quality assurance

Additive manufacturing has potential in all sorts of sectors including aeronautics and aerospace, automotive and medical technology. Validation of the complete process chain of additive manufacturing is decisive in maintaining consistently high quality of structures and components that are subject to multiple complex static and dynamic loads once mounted and installed.

Our customers benefit from our decades of cross-sector experience in verification in our accredited test laboratories (DIN/ISO 9001/9100; DIN/ISO 17025). We are constantly developing our range of services through innovative verification methods and new test procedures.



Our Customers

- OEMs and suppliers of all industrial sectors
- Development and Engineering partners

- Manufacturers of production systems
- Manufacturing companies

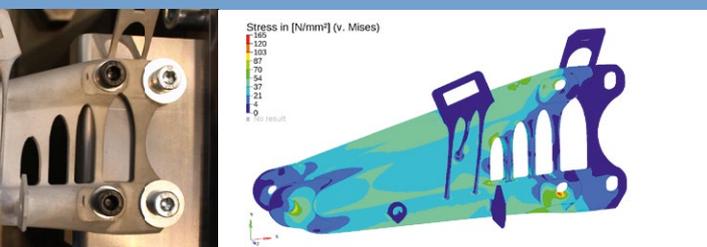
- OEMs and suppliers of all industrial sectors
- Manufacturing companies

SERVIC



SOLUTIONS FROM A SINGLE SOURCE

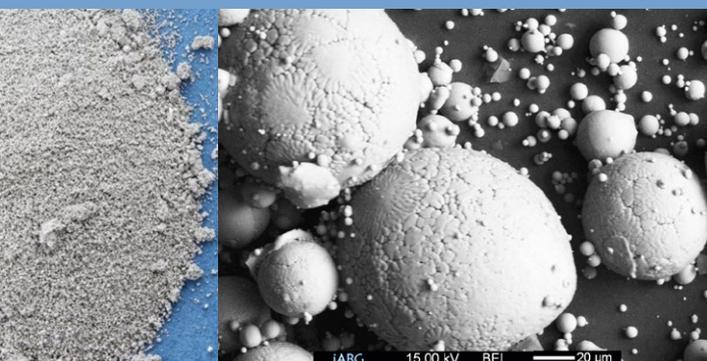
COMPONENT DEVELOPMENT



Our Services

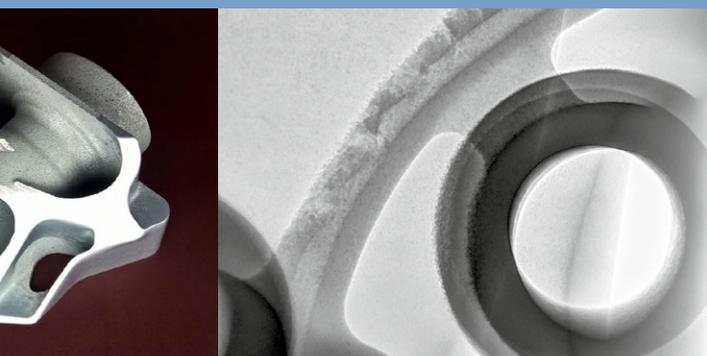
- Material properties – determination of parameters (static, cyclic)
- Topology and shape optimisation for component design
- Numerical fatigue strength tests (FEM)
- Coupled thermal simulations (FEM)
- Sector-specific certification concepts

MANUFACTURING

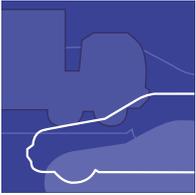


- Material and component testing
- Powder characterisation
- Simulations
- Customer tailored development of QA concepts

TESTING



- Non destructive testing
- Optimisation of process parameters
- Computed tomography inspections (μ CT)
- In-situ x-ray inspections to visualise functions (electrical, mechanical and thermal excitation)
- Component tests / subsystem and system tests
- Systematic failure analysis in compliance with VDI 3822
- Characterisation of microstructures
- Residual stress measurements



AUTOMOTIVE



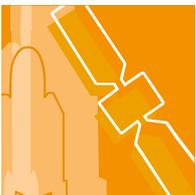
INFOCOM



MOBILITY, ENERGY & ENVIRONMENT



AERONAUTICS



SPACE



DEFENCE & SECURITY

About IABG

IABG offers integrated, ground-breaking solutions in the sectors Automotive • InfoCom • Mobility, Energy & Environment • Aeronautics • Space • Defence & Security. We provide independent and competent consulting. We implement with future viability and target orientation. We operate reliably and sustainably. Our success is based on an understanding of market trends and requirements, on our staff's technological excellence and a fair relationship with our customers and business partners.

As a development partner we provide quality control services and develop solutions in the areas of functional efficiency, quality, design, and materials. We offer a broad spectrum of products and services, ranging from numerical analysis to experimental testing to the realisation of turnkey, customised test systems that we operate for the customer.

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