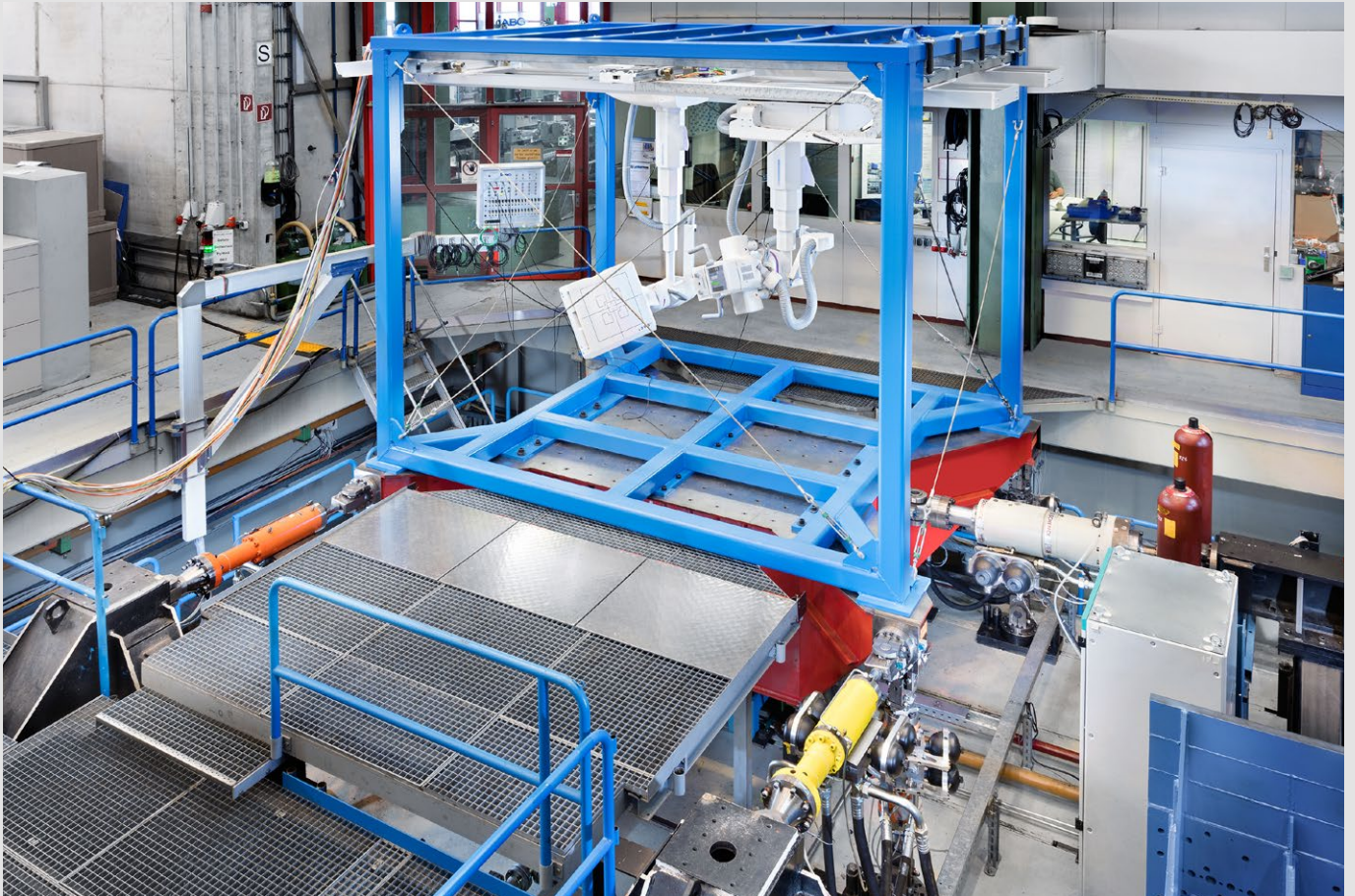


## Intelligent Testing



## Medical Technology

Reliable Products through  
Simulation, Tests and Analyses



## Medical Technology • Reliable Products through Simulation, Tests and Analyses

Accredited in compliance with DIN EN ISO 17025

### Calculation and simulation

- Optimisation and validation of the vibration behaviour through MBS and FEM
- Component and system optimisation
- Static and dynamic fatigue strength testing for metals, synthetic materials and adhesive bonds
- Method development for customer-specific tasks

### Certification of medical technology systems

- Vibration tests and function tests
- Performing x-rays for functional tests possible
- Single-source process performance in compliance with OSHPD\* requirements
  - Consulting and test plan drafting
  - Acceptance testing and preparation of application documents
  - Attainment of the *Special Seismic Certification Preapproval*



### Fatigue strength testing

- Determination of static material key data
- Determination of the fatigue strength on material samples and components in combination with environmental conditions
- Development of test concepts for customer-specific tasks

### Climate tests

- Function testing under extreme environmental conditions: high/low temperatures, high humidity, changes in air pressure, and combined conditions
- Corrosion and aging tests

### Material and failure analyses

- Systematic failure analysis in compliance with VDI guideline 3822
- Determination of damage mechanisms
- Deduction of damage causes
- Definition of remedial measures
- Consulting on failure prevention measures
- Microstructure analyses
- Material characterisation
- Non-destructive component testing

IABG is the only company in Europe listed by the OSHPD and is thus authorised to perform certification processes.



### \* OSHPD

California's Office of Statewide Health Planning and Development (OSHPD) is the leader in collecting data and disseminating information about California's healthcare infrastructure. OSHPD promotes an equitably distributed healthcare workforce, and publishes valuable information about healthcare outcomes. OSHPD also monitors the construction, renovation, and seismic safety of hospitals and skilled nursing facilities and provides loan insurance to assist the capital needs of California's not-for-profit healthcare facilities.



**AUTOMOTIVE**



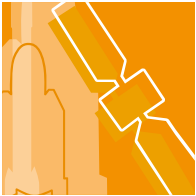
**INFOCOM**



**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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