

### About this organisation

#### Machine translation

This organisation has been machine-translated based on data provided in German.

BIMAQ is an engineering research institute at the Faculty of Production Engineering at the University of Bremen. BIMAQ's core competence is measurement technology, which is a key discipline for solving technical and social challenges. BIMAQ conducts research into innovative model-based, dynamic measurement systems for the investigation and optimisation of manufacturing and flow processes.

The metrological approaches can be used to characterise and validate innovative design guidelines for lightweight construction concepts in terms of their geometric properties. The laboratory infrastructure makes it possible to test components up to 2 metres in diameter.

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Germany  
[www.bimaq.de/](http://www.bimaq.de/)



Bremer Institut für  
Messtechnik, Automatisierung  
und Qualitätswissenschaft

#### Organisation type

University or higher education institution

#### Sectors

No specific sector

#### Employees

10 up to 49

#### Turnover

n/a

#### Funding

#### Main areas covered

Measurement technology, Automation, Quality science

#### Infrastructure

Large coordinate measuring machine, Shaft test bench, Air-conditioned measuring laboratories, Thermography systems, Roughness measuring systems

#### Certifications

#### Keywords

Validation of lightweight construction concepts

#### Memberships

### Overview of lightweighting expertise

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|                                                                                                                                                                                                               | Research | Development | Manufacturing<br>& Supply |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|---------------------------|
| <b>Offer</b>                                                                                                                                                                                                  |          |             |                           |
| <i>Products</i>                                                                                                                                                                                               |          |             |                           |
| <b>Services &amp; consulting</b>                                                                                                                                                                              |          |             |                           |
| Validation                                                                                                                                                                                                    | ✓        | ✓           |                           |
| <b>Field of technology</b>                                                                                                                                                                                    |          |             |                           |
| <i>Design &amp; layout</i>                                                                                                                                                                                    |          |             |                           |
| <i>Functional integration</i>                                                                                                                                                                                 |          |             |                           |
| <b>Measuring and testing technology</b>                                                                                                                                                                       |          |             |                           |
| Component and part analysis, System analysis, Non-destructive analysis, Others (Thermography, Edge zone analysis, Geometry and roughness measurement technology, gear metrology, flow measurement technology) | ✓        |             |                           |
| <i>Modelling and simulation</i>                                                                                                                                                                               |          |             |                           |
| <i>Plant construction &amp; automation</i>                                                                                                                                                                    |          |             |                           |
| <i>Recycling technologies</i>                                                                                                                                                                                 |          |             |                           |

### Overview of lightweighting expertise

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Research   Development   **Manufacturing  
& Supply**

#### Manufacturing process

*Additive manufacturing*

*Coating (surface engineering)*

*Fibre composite technology*

*Forming*

*Joining*

*Material property alteration*

*Primary forming*

*Processing and separating*

*Textile technology*

#### Material

*Biogenic materials*

*Cellular materials (foam materials)*

*Composites*

*Fibres*

*Functional materials*

*Metals*

*Plastics*

*Structural ceramics*

*(Technical) textiles*

### Contacts

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