

Fraunhofer Institute for Physical Measurement Techniques IPM

Production Control Department

About this organisation

Machine translation

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

The Fraunhofer Institute for Physical Measurement Techniques IPM develops customised measurement technology and systems for industry. Many years of experience with optical technologies form the basis for high-tech solutions in production control, object and mould detection, gas and process technology as well as in the field of thermal energy converters.

For production control, Fraunhofer IPM develops optical systems and imaging processes that can be used to analyse surfaces and 3D structures in production and control processes. For lightweight construction, the fluorescence measurement technology developed here is a particularly promising candidate for quality monitoring - whether for detecting impurities or for testing specifically applied coatings. Work is currently underway on the development of a fluorescence measuring head for the needs-based application of release agents. The results should make the application of release agent quantifiable and automatable. Studies are also being carried out on residues of process auxiliaries on workpieces and correlated with the results after coating.

Georges-Köhler-Allee 301
79110 Freiburg
Baden-Württemberg
Germany
www.ipm.fraunhofer.de/

Main areas covered Optical measurement technology, Testing the application of release agent, Testing for release agent residues

Infrastructure

Certifications

Keywords

Memberships



Organisation type

Non-university research institution

Sectors



Employees

250 up to 499

Turnover

n/a aufgrund der öffentlichen Förderung

Funding

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
<i>Products</i>			
Services & consulting Consulting, Testing and trials, Validation, Technology transfer, Maintenance and repair	✓	✓	✓
Field of technology			
<i>Design & layout</i>			
<i>Functional integration</i>			
Measuring and testing technology Destructive analysis, Non-destructive analysis	✓	✓	✓
<i>Modelling and simulation</i>			
<i>Plant construction & automation</i>			
<i>Recycling technologies</i>			
Manufacturing process			
<i>Additive manufacturing</i>			
<i>Coating (surface engineering)</i>			
<i>Fibre composite technology</i>			
<i>Forming</i>			
<i>Joining</i>			
<i>Material property alteration</i>			
<i>Primary forming</i>			
<i>Processing and separating</i>			
<i>Textile technology</i>			

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Overview of lightweighting expertise

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Research Development **Manufacturing & Supply**

Material

Biogenic materials

Cellular materials (foam materials)

Composites

Fibres

Functional materials

Metals

Plastics

Structural ceramics

(Technical) textiles

Contacts

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Ms Vivien Behrendt

Project manager

vivien.behrendt@ipm.fraunhofer.de

Mr Dr. Alexander Blättermann

Group leader

alexander.blaettermann@ipm.fraunhofer.de