

Fraunhofer Institute for Non-Destructive Testing (IZFP)

About this organisation

Machine translation

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

The Fraunhofer IZFP... - ...is an internationally renowned R&D centre in the field of non-destructive testing methods, - ...researches and develops technologies for non-destructive monitoring for material, component and product characterisation on a broad basis, from the basics to product maturity and marketability, and - ...develops application-orientated solutions up to prototype and series production capability.

Efficient lightweight construction can only be realised through the consistent application of non-destructive monitoring as an integral part of product and process development. Methods and systems for testing lightweight structures are therefore an important focus of Fraunhofer IZFP's research and development work, supplemented by research into targeted service life management (correlation of component defects with ageing mechanisms such as characterisation of defect-related damage development). The Fraunhofer IZFP's holistic, innovative approach logically encompasses the entire value chain, from the development of materials, components and production processes to operation, service and recycling.

Campus E3.1
66123 Saarbrücken
Saarland
Germany

www.izfp.fraunhofer.de/

Main areas covered

Monitoring systems for lightweight construction

Infrastructure

Certifications

Keywords

Memberships



Organisation type

Non-university research institution

Sectors

No specific sector

Employees

50 up to 249

Turnover

n/a

Funding

n/a

Fraunhofer Institute for Non-Destructive Testing (IZFP)

Overview of lightweighting expertise

Machine translation

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

	Research	Development	Manufacturing & Supply
Offer			
Products Others: null		✓	
<i>Services & consulting</i>			
Field of technology			
<i>Design & layout</i>			
<i>Functional integration</i>			
<i>Measuring and testing technology</i>			
<i>Modelling and simulation</i>			
<i>Plant construction & factory 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>			

Fraunhofer Institute for Non-Destructive Testing (IZFP)

Overview of lightweighting expertise

Machine translation

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

	Research	Development	Manufacturing & Supply
Material			
<i>Biogenic materials</i>			
<i>Cellular materials (foam materials)</i>			
<i>Composites</i>			
<i>Fibres</i>			
<i>Functional materials</i>			
<i>Metals</i>			
<i>Plastics</i>			
<i>Structural ceramics</i>			
<i>(Technical) textiles</i>			

Contacts

Machine translation

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

Mr Prof. Dr.-Ing. Hans-Georg Herrmann

Deputy Director of the Institute

hans-georg.herrmann@izfp.fraunhofer.de