Leibniz Institute for Materials-Oriented Technologies - IWT

About this organisation

Machine translation

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

We develop future metal processing technologies to industrial maturity and are committed to solving your specific metal processing problems with our comprehensive expertise and exclusive technical equipment As a unique selling point, three specialised disciplines are available to you under one roof: materials, process and production engineering.

Every structural material has special properties that set it apart from other materials under certain conditions. As the requirements for the structures used in lightweight construction are becoming ever more complex, structural development is increasingly focussing on material systems. As a co-operation partner for industry and research, the focus is on systematic and needs-based research into such materials and material systems, including production technologies and joining and testing methods.

Badgasteiner Str. 3
28359 Bremen
Bremen
Germany
www.iwt-bremen.de/werkstofftechnik/leichtbauwerkstoffe/

Leibniz-Institut für Werkstofforientierte Technologien IWT Bremen

Organisation type
Non-university research institution

Sectors

Employees
50 up to 249

Turnover
€10m - €50m

Funding

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About this organisation

Main areas covered	Material-orientated technologies
Infrastructure	
Certifications	
Keywords	
Memberships	

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Parts and components, Semi-finished parts, Materials	✓	✓	
Services & consulting			
Field of technology			
Design & layout			
Functional integration			
Measuring and testing technology			
Modelling and simulation			
Plant construction & automation			
Recycling technologies			

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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			

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
Biogenic materials			
Cellular materials (foam materials)			
Composites Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP), Metal-fibre-polymer composite, Metal matrix composite, Laminates, Particulate composites	✓		
Fibres Glass fibres, Carbon fibres	✓		
Functional materials Electrostrictive / magnetostrictive materials	✓		
Metals Aluminium, Steel, Titanium, Others (Metal matrix composites High Entrophy Alloys)	✓		
Plastics Thermoset plastics, Thermoplastics	✓		
Structural ceramics			
(Technical) textiles Yarns, rovings, Laid webs, Woven fabrics	✓		

Contacts

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Contacts

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