

Fraunhofer Institute for Manufacturing Engineering and Automation (IPA)

Process innovation project group

About this organisation

Machine translation

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

Fraunhofer Institute for Manufacturing Engineering and Automation (IPA) - Bayreuth site

Design, conception, manufacture, processing, metrological data collection, remanufacturing and repair

Universtitätsstrasse 9
95447 Bayreuth
Bavaria
Germany

www.prozessinnovation.fraunhofer.de/



Organisation type

Non-university research institution

Sectors

No specific sector

Employees

10 up to 49

Turnover

n/a

Funding

Main areas covered Additive manufacturing, Intelligent value chains, Efficient value creation systems, Machining

Infrastructure

Certifications

Keywords

Memberships

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Parts and components, Semi-finished parts, Materials, Tools and moulds	✓	✓	
Services & consulting Training, Consulting, Testing and trials, Funding, Engineering, HR services, Prototyping, Validation, Simulation, Technology transfer	✓	✓	
Field of technology			
Design & layout Lightweight manufacturing	✓	✓	
<i>Functional integration</i>			
<i>Measuring and testing technology</i>			
<i>Modelling and simulation</i>			
<i>Plant construction & automation</i>			
<i>Recycling technologies</i>			

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing 3D printing, Selective laser melting (SLM, LPBF, ...), Selective laser sintering (SLS), Stereolithography, Others (Fluid material extrusion)	✓	✓	✓
<i>Coating (surface engineering)</i>			
Fibre composite technology Manual lamination, Pre-preg processing, Others (Autoclave, thermo press, cutter)	✓	✓	
Forming Thermal converting	✓	✓	
<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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	Research	Development	Manufacturing & Supply
Material			
<i>Biogenic materials</i>			
<i>Cellular materials (foam materials)</i>			
Composites			
Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP)	✓	✓	
<i>Fibres</i>			
<i>Functional materials</i>			
<i>Metals</i>			
<i>Plastics</i>			
<i>Structural ceramics</i>			
<i>(Technical) textiles</i>			

Contacts

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Contacts

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