
THE FRAUNHOFER IWU PROFILE

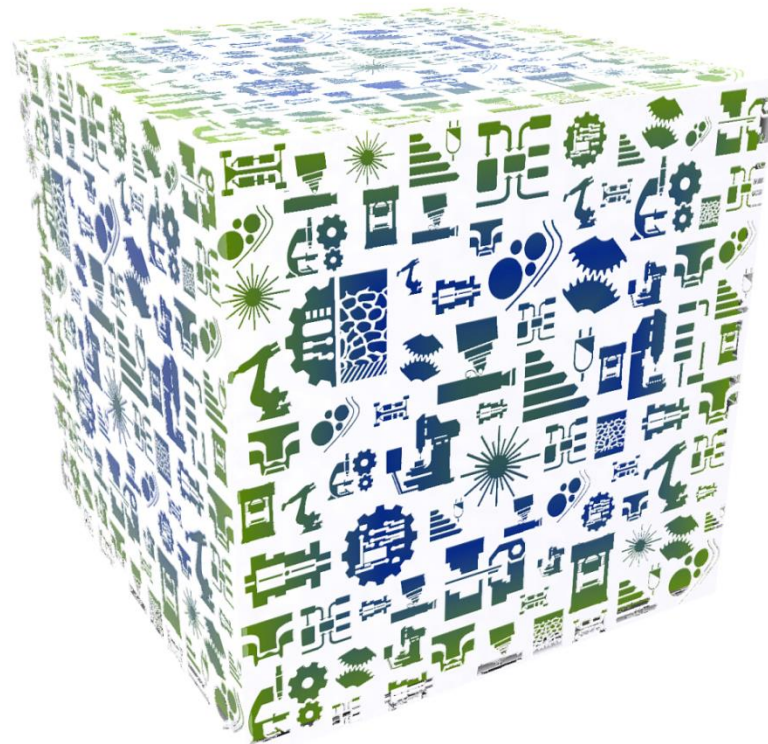


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The Fraunhofer-Gesellschaft

Research for practice



- Application-oriented research for the direct benefit of the economy and for the advantage of society
- 67 institutes and research units
- 24,000 employees
- Research volume: more than € 2.1 bn., of which more than € 1.8 bn. in the range of contract research
 - Fraunhofer generates more than 70% of this range due to orders from industry and with publically funded research projects
 - Basic funding of almost 30% is contributed by the German Federal and Länder Governments



Profile of the Fraunhofer IWU

Research for “Resource-Efficient Production”



Profile of the Fraunhofer IWU

Research for “Resource-Efficient Production”



- Founded Juli 1st 1991
- Currently approx. 530 employees
- Approx. € 40 million annual budget
- Locations: Chemnitz (headquarters)
Dresden, Zittau, Wolfsburg, Leipzig
- 3 scientific fields:



Mechatronics and
Lightweight Structures



Forming Technology



Machine Tools, Production
Systems and Machining



Profile of the Fraunhofer IWU Locations



Chemnitz



Dresden



Zittau



Wolfsburg



Fraunhofer IWU in profile

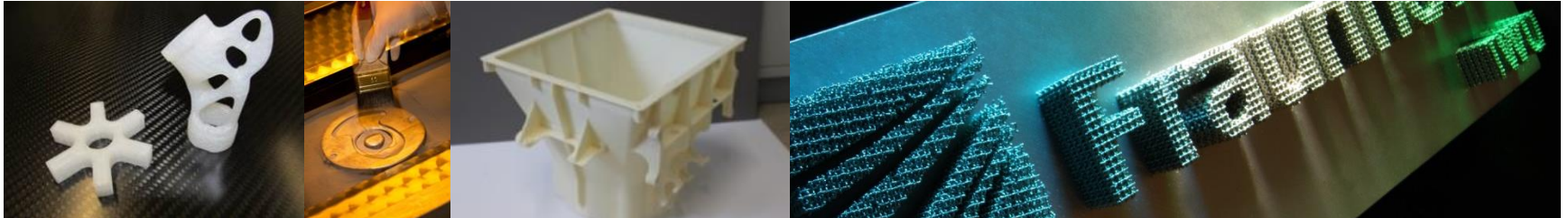
Competencies from A to Z



Automation	Sheet metal forming	Additive manufacturing processes	Industry 4.0
Determining characteristic values and material characterization	Lightweight construction	Bulk metal forming	Mechatronics and adaptronics
Medical engineering	Micro and precision manufacturing		
Assembly technology and robotics	Production management	Cutting/removal	Technical acoustics
Process chains	Simulation	Machine tools	Tool and mold making
Thermal and mechanical joining	Virtual and augmented reality		

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Additive manufacturing processes



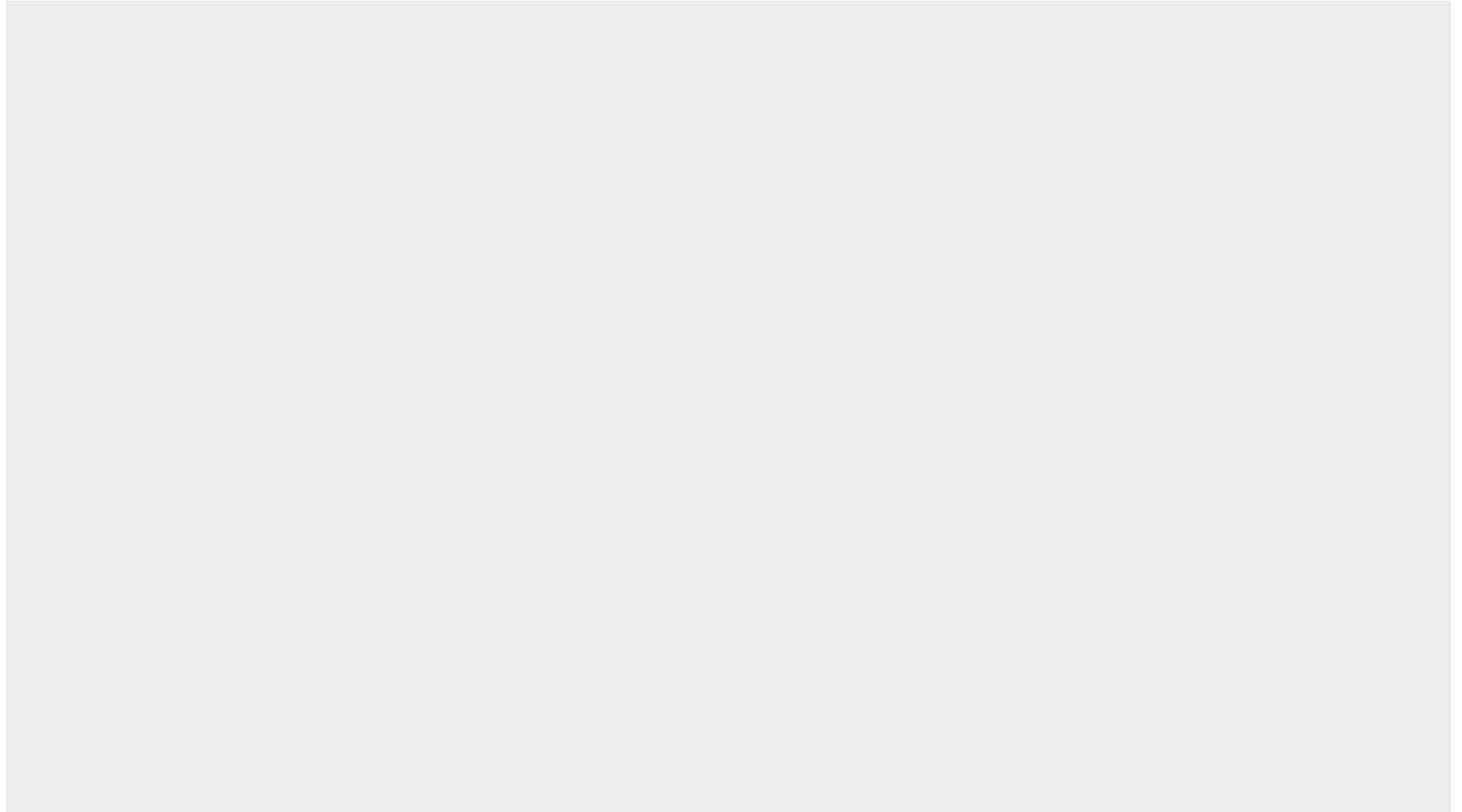
New routes for innovative products

- Industrial 3D printing → from prototyping to additive manufacturing
- Additive manufacturing of plastic components
- Printing of fiber-plastic composites
- Laser beam melting
- Numerical simulation and warpage analysis



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Highlight „SEAM“



THANK YOU FOR YOUR ATTENTION!



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