University of Stuttgart
Institute for Machine Tools IfW

About this organisation

Machine translation

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

The Institute for Machine Tools (IfW) at the University of Stuttgart carries out research projects in the fields of machine tool design and optimisation as well as machining technology.

The focus of basic and application-oriented research at the IfW is on the design, simulation and experimental investigation of machine tools and tools, the development of tool and process optimisation of machining processes for metallic materials, wood and wood-based materials, fibre composite/lightweight construction materials and automation technology, environmental technology to reduce emissions and the development of energy-saving potential.

Holzgartenstraße 17
70174 Stuttgart
Baden-Württemberg
Germany
www.ifw.uni-stuttgart.de/

Organisation type
University or higher education institution

Sectors

Employees
10 up to 49

Turnover
€2m - €10m

Funding

Main areas covered	Machine tools, Tool and process optimisation, Machine safety
Infrastructure	Composite materials processing laboratory, Woodworking test field, Acoustic test field, Dust exposure test laboratory
Certifications	
Keywords	
Memberships	

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Parts and components, Machines and plants, Tools and moulds	✓	✓	
Services & consulting			
Field of technology			
Design & layout Lightweight manufacturing, Hybrid structures	✓	✓	
Functional integration Actuator technology, Sensor technology	✓		
Measuring and testing technology Component and part analysis	✓	✓	
Modelling and simulation Multiphysics simulation, Optimisation, Structural mechanics, Reliability validation	✓		
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 Pre-preg processing	✓		
Forming			
Joining Adhesive bonding, Soldering	✓		
Material property alteration			
Primary forming			
Processing and separating Drilling, Turning, Milling, Sawing	✓	✓	
Textile technology			

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
Biogenic materials Wood	✓		
Cellular materials (foam materials)			
Composites			
Fibres			
Functional materials			
Metals			
Plastics			
Structural ceramics			
(Technical) textiles			

Contacts

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Contacts

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