Magdeburg-Stendal University of Applied Sciences

Innovative manufacturing processes" industrial laboratory

About this organisation

Machine translation

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

During its years of operation, the Industrial Laboratory for Innovative Manufacturing Processes has developed into a regionally and nationally recognised institution for services and development work in the fields of finish and friction welding technology. The central services include technology developments for small, medium-sized and large companies from the automotive and automotive supply industries as well as the fittings industry.

Key research competences lie in the joining of mixed materials (Al-steel, Al-Cu, steel-Cu, etc.) by friction welding, which in many cases opens up lightweight construction potential in specific applications.

Breitscheidstraße 2
39114 Magdeburg
Saxony-Anhalt
Germany
www.h2.de/forschung/forschungszentren/industrielabor-innovative-fertigungsverfahren.html

Organisation type
University or higher education institution

Sectors

Employees
10 up to 49

Turnover
Up to €2m

Funding
n/a

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About this organisation

Main areas covered	Friction welding, finishing, measuring technology
Infrastructure	Friction welding laboratory (3 welding systems), CNC laboratory, Metrology, metallography laboratory
Certifications	
Keywords	Friction welding, Joining technology, Finishing, force-controlled processes, Measurement technology
Memberships	DVS -, German Association for Welding and, verwandte Verfahren e. V.

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Parts and components, Semi-finished parts, Machines and plants, Materials, Tools and moulds	✓	✓	✓
Services & consulting Training, Consulting, Testing and trials, Engineering, Prototyping, Validation, Simulation, Technology transfer, Maintenance and repair	✓	✓	✓

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Field of technology			
Design & layout			
Functional integration Actuator technology, Sensor technology	✓	✓	
Measuring and testing technology Destructive analysis	✓		
Modelling and simulation			
Plant construction & automation Plant construction	✓	✓	✓
Recycling technologies			
Manufacturing process			
Additive manufacturing Deposition welding	✓	✓	
Coating (surface engineering)			
Fibre composite technology			
Forming			
Joining Welding	✓	✓	✓
Material property alteration			
Primary forming			
Processing and separating Drilling, Turning, Milling, Honing, Sawing, Grinding	✓	✓	
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 Metal matrix composite	✓	✓	
Fibres			
Functional materials			
Metals Aluminium, Steel	✓	✓	✓
Plastics			
Structural ceramics			
(Technical) textiles			

Contacts

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Contacts

Mr Prof. Dr.-Ing. Frank Trommer

Director of the Institute of Mechanical Engineering

frank.trommer@h2.de