About this organisation

Machine translation This organisation has been machine-translated based on data provided in German. Aalen University - Foundry Technology in the Faculty of Mechanical and Materials Engineering The core competencies of the foundry laboratory at Aalen University lie in the die casting of aluminium and magnesium light metal alloys This includes the development of new process variants for lightweight construction, such as the production of thin-walled, hollow die-cast parts using salt Gießerei Technologie Aalen cores or gas injection. Extremely rigid parts can be produced in this way. In addition, the development of composite Organisation type materials made from carbon fibre and die casting for car University or higher education body structures is an area in which research is being carried institution out as part of the federal government's SmartPro project. Thanks to the use of 4 production-related die casting Sectors machines, the results can be quickly applied in near-series 🛱 🛄 🖸 + processes. In addition, prototypes can be produced using sand or permanent mould casting or the lost foam process. The production of small series is also possible. The Steinbeis Employees Transfer Centre GTA - Foundry Technology Aalen and GTA Up to 9 GmbH are connected to the university laboratory. Turnover Beethovenstraße 1 n/a 73430 Aalen Baden-Württemberg Funding Germany ☑ www.htw-aalen.de Main areas Sand and permanent mould casting, die casting covered Infrastructure Computer tomography, tensile testing, Fatigue strength Certifications University laboratory **Keywords** Magnesium alumnium die casting, Salt cores Gas injection **Memberships**

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	Research	N Development	Aanufacturin & Supply		
Offer					
Products Parts and components, Semi-finished parts	\checkmark				
Services & consulting Training, Consulting	\checkmark				
Field of technology					
Design & layout Lightweight manufacturing, Lightweight design, Hybrid structures, Lightweight construction concepts, Lightweight material construction	\checkmark	~			
Functional integration					
Measuring and testing technology Materials analysis, Destructive analysis, Non- destructive analysis	\checkmark	\checkmark	\checkmark		
Modelling and simulation					
Plant construction & automation					

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	Research	Development	Manufacturir & Supply	
Manufacturing process				
Additive manufacturing				
Coating (surface engineering)				
Fibre composite technology Others (CFRP cast hybrid)	\checkmark			
Forming				
Joining				
Material property alteration				
Primary forming Casting	\checkmark	\checkmark	\checkmark	
Processing and separating				

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	Research	N Development	Manufacturir & Supply	
Material				
Biogenic materials				
Cellular materials (foam materials)				
Composites				
Fibres Carbon fibres	\checkmark			
Functional materials				
Metals Aluminium, Magnesium	\checkmark	\checkmark	\checkmark	
Plastics				
Structural ceramics				

Contacts

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Contacts

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