Institute for Production Management and Technology
Hamburg University of Technology

About this organisation

Machine translation

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

The Institute of Production Management and Technology (IPMT) consists of the chairs of Production Management and Production Technology. As part of the research focus on aviation technology and product-orientated materials development at the Hamburg University of Technology (TUHH), the Chair of Production Engineering researches fundamental production problems and develops procedures and processes for manufacturing companies.

The focus of the chair is on - innovative machining technologies for fibre composite and metallic lightweight materials, - tool, cutting material and process development, e.g. for large lightweight structures, - the automation of machining, measuring and assembly processes and - the development of innovative machining and system concepts. In addition to innovative testing and measuring equipment, modern simulation tools are also available for solving the wide range of tasks in research and development. Linking science with industrial issues is a key area of research at the IPMT and is usually carried out in co-operation with renowned partners from science, industry and associations.

Denickestr. 17
21073 Hamburg
Hamburg
Germany
www.tuhh.de/ipmt/

Organisation type
University or higher education institution

Sectors

Employees
10 up to 49

Turnover
n/a

Funding
n/a



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About this organisation

Main areas covered	Development of machining processes, Cutting material and tool development, Process modelling and simulation, Analysis of cutting mechanisms, Monitoring of machining processes
Infrastructure	
Certifications	
Keywords	FRP materials (CFRP, GFRP), Heavy-duty machinable materials, Process automation, Sensor-guided processing, Knowledge-based methods
Memberships	

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products			
Services & consulting Training, Testing and trials, Engineering, Validation, Simulation	✓	✓	

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Field of technology			
Design & layout			
Functional integration			
Measuring and testing technology			
Modelling and simulation Optimisation, Processes	✓	✓	
Plant construction & automation Plant construction, Automation technology, Robotics	✓	✓	
Recycling technologies			
Manufacturing process			
Additive manufacturing Others (Reworking the functional surfaces, removing the support structures)	✓	✓	
Coating (surface engineering)			
Fibre composite technology Others (Machining post-processing)	✓	✓	
Forming			
Joining			
Material property alteration			
Primary forming			
Processing and separating Drilling, Turning, Milling, 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 Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP), Metal matrix composite, Laminates	✓	✓	
Fibres Glass fibres, Carbon fibres	✓	✓	
Functional materials			
Metals Aluminium, Intermetallic alloys, Magnesium, Steel, Titanium, Others (Glare)	✓	✓	
Plastics			
Structural ceramics			
(Technical) textiles			

Contacts

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Contacts

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