

About this organisation

Machine translation

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

The Machine Acoustics working group in the SAM department researches methods and procedures to improve the noise quality of machines at both component and system level.

- Acoustic design for mastering lightweight construction and acoustics - Acoustic condition monitoring for the lightweight construction of additively manufactured components

Otto-Berndt-Str. 2

64287 Darmstadt

Hesse

Germany

🌐 www.sam.tu-darmstadt.de



Organisation type

University or higher education institution

Sectors

No specific sector

Employees

10 up to 49

Turnover

n/a

Funding

Darmstadt University of Technology

Department of System Reliability, Adaptronics and Machine Acoustics SAM

About this organisation

Main areas covered

Acoustics, structure-borne sound, reliability, Adaptronics

Infrastructure

Anechoic chamber, Low-reflection half-space, Reverberation chamber, 3D laser vibrometry

Certifications

Keywords

Memberships

Overview of lightweighting expertise

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Offer

Products

Services & consulting

Training, Technology transfer

	Research	Development	Manufacturing & Supply
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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Field of technology			
<i>Design & layout</i>			
<i>Functional integration</i>			
Measuring and testing technology Component and part analysis	✓	✓	
Modelling and simulation Multiphysics simulation, Reliability validation, Others (Acoustics, structural dynamics)	✓	✓	
<i>Plant construction & automation</i>			
<i>Recycling technologies</i>			
Manufacturing process			
Additive manufacturing 3D printing, Selective laser sintering (SLS)	✓	✓	
<i>Coating (surface engineering)</i>			
<i>Fibre composite technology</i>			
<i>Forming</i>			
<i>Joining</i>			
<i>Material property alteration</i>			
<i>Primary forming</i>			
<i>Processing and separating</i>			
<i>Textile technology</i>			

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
<i>Biogenic materials</i>			
<i>Cellular materials (foam materials)</i>			
<i>Composites</i>			
<i>Fibres</i>			
<i>Functional materials</i>			
Metals			
Aluminium, Steel	✓	✓	
<i>Plastics</i>			
<i>Structural ceramics</i>			
<i>(Technical) textiles</i>			

Contacts

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Darmstadt University of Technology

Department of System Reliability, Adaptronics and Machine Acoustics SAM

Contacts

Mr Prof. Dr.-Ing. Tobias Melz

Head of department

info@sam.tu-darmstadt.de

Mr Dr.-Ing. Christian Adams

*Academic Councillor, Deputy Head of
Department*

christian.adams@sam.tu-darmstadt.de