

Helmut Schmidt University / University of the Federal Armed Forces Hamburg

Professorship for Protection Systems

About this organisation

Machine translation

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

The Chair of Protective Systems is dedicated to interdisciplinary research into materials and protective systems under short-term dynamic loads. In particular, cellular materials such as hybrid metal foams and mechanical metamaterials in sandwich construction are used. The research areas include - Production - Mechanical and material science characterisation - Experimentation, modelling and simulation

Additive manufacturing, electroplating, mechanical characterisation of lightweight materials

Holstenhofweg 85
22043 Hamburg
Hamburg
Germany
www.hsu-hh.de/schutz



Organisation type

University or higher education institution

Sectors

No specific sector

Employees

10 up to 49

Turnover

n/a

Funding

n/a

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Main areas covered Mechanical characterisation, Electroplating, Numerical simulations

Infrastructure

Certifications

Keywords

Memberships

Overview of lightweighting expertise

Machine translation

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	Research	Development	Manufacturing & Supply
Offer			
<i>Products</i>			
Services & consulting Testing and trials, Engineering, Validation, Simulation	✓	✓	

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Field of technology			
<i>Design & layout</i>			
<i>Functional integration</i>			
<i>Measuring and testing technology</i>			
Modelling and simulation Crash behaviour, Loads & stress, Optimisation, Materials	✓	✓	
<i>Plant construction & automation</i>			
<i>Recycling technologies</i>			
Manufacturing process			
Additive manufacturing 3D printing, Stereolithography	✓	✓	
Coating (surface engineering) Galvanising	✓	✓	
<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>			
Cellular materials (foam materials) Open-pore, Syntactic foams	✓	✓	
<i>Composites</i>			
<i>Fibres</i>			
Functional materials Shape memory materials	✓	✓	
Metals Aluminium, Others	✓	✓	
<i>Plastics</i>			
<i>Structural ceramics</i>			
<i>(Technical) textiles</i>			

Contacts

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Hamburg**
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Contacts

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