

About this organisation

Machine translation

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

The Department of Mechanical Engineering trains over 2,000 students in the fields of mechanical engineering and vehicle development. The specialist nature of the six degree programmes is geared towards the future areas of responsibility of graduates.

Laboratory for fibre composite technology and structural mechanics, Additive manufacturing, CFD, vehicle drives, Manufacturing technology laboratory, Lightweight Technology Centre, metal 3D printing, and much more.

Sonnenstraße 96
44139 Dortmund
North Rhine-Westphalia
Germany
www.fh-dortmund.de/hochschule/maschinenbau/index.php

**Fachhochschule
Dortmund**

University of Applied Sciences and Arts

Organisation type

University or higher education institution

Sectors



Employees

500 and more

Turnover

n/a

Funding

n/a

Main areas covered

Mechanical engineering

Infrastructure

Certifications

Keywords

Memberships

Overview of lightweighting expertise

Machine translation

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

	Research	Development	Manufacturing & Supply
Offer			
Products Machines and plants, Software & databases, Materials, Tools and moulds	✓	✓	
Services & consulting Training, Consulting, Testing and trials, Engineering, Prototyping, Validation, Simulation, Technology transfer	✓	✓	
Field of technology			
Design & layout Lightweight manufacturing, Lightweight design, Hybrid structures, Lightweight construction concepts, Lightweight material construction	✓	✓	
Functional integration Actuator technology, Sensor technology	✓	✓	
Measuring and testing technology Component and part analysis, Visual analysis (e.g. microscopy, metallography), Environmental simulation, Materials analysis, Destructive analysis	✓	✓	
Modelling and simulation Loads & stress, Life-cycle analysis, Optimisation, Processes, Structural mechanics, Materials	✓	✓	
Plant construction & automation Automation technology, Robotics	✓	✓	
<i>Recycling technologies</i>			

Overview of lightweighting expertise

Machine translation

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

	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing 3D printing	✓	✓	
Coating (surface engineering) Galvanising	✓	✓	
Fibre composite technology Manual lamination	✓	✓	
<i>Forming</i>			
<i>Joining</i>			
Material property alteration Heat treatment	✓	✓	
<i>Primary forming</i>			
Processing and separating Drilling, Turning, Milling, Sawing, Grinding, Cutting	✓	✓	
<i>Textile technology</i>			

Overview of lightweighting expertise

Machine translation

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

	Research	Development	Manufacturing & Supply
Material			
<i>Biogenic materials</i>			
<i>Cellular materials (foam materials)</i>			
Composites Aramid fibre composites, Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP), Natural fibre reinforced plastics (NFRP)	✓	✓	
Fibres Aramid fibres, Glass fibres, Carbon fibres, Natural fibres	✓	✓	
<i>Functional materials</i>			
Metals Aluminium, Steel	✓	✓	
Plastics Thermoset plastics, Elastomers, Thermoplastics	✓	✓	
<i>Structural ceramics</i>			
<i>(Technical) textiles</i>			

Contacts

Machine translation

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

Contacts

Mr Prof. Dr. Matthias Müller

Professor

matthias.mueller@fh-dortmund.de