

About this organisation

Machine translation

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

At the Institute of Product Engineering, the Chair of Production Engineering teaches prospective mechanical engineers the fundamentals of manufacturing and production technology. In addition, students are taught the specialised knowledge of modern manufacturing processes from the chair's research areas.

The long-standing activities in the field of rapid technologies always focus on current problems on the way to rapid manufacturing, such as the qualification of new materials, in-depth process understanding, RM-compatible design or the development of medical instruments. All research activities in the field of tool-free manufacturing are bundled at the chair in the Rapid Technology Centre (RTC).

Lotharstraße 1
47057 Duisburg
North Rhine-Westphalia
Germany
www.uni-due.de/fertigungstechnik/



Organisation type

University or higher education institution

Sectors

No specific sector

Employees

500 and more

Turnover

More than €50m

Funding

n/a



About this organisation

Main areas covered Additive manufacturing, Research, Development

Infrastructure

Certifications

Keywords

Memberships

Overview of lightweighting expertise

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| | Research | Development | Manufacturing & Supply |
|---|----------|-------------|------------------------|
| Offer | | | |
| Products Parts and components, Semi-finished parts, Machines and plants, Materials | ✓ | ✓ | |
| Services & consulting Training, Consulting, Testing and trials, Funding, Engineering, Standardisation, Prototyping, Validation, Simulation, Technology transfer | ✓ | ✓ | |

Overview of lightweighting expertise

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| | Research | Development | Manufacturing & Supply |
|--|----------|-------------|------------------------|
| Field of technology | | | |
| Design & layout Lightweight manufacturing, Hybrid structures | ✓ | ✓ | |
| <i>Functional integration</i> | | | |
| Measuring and testing technology Component and part analysis, Visual analysis (e.g. microscopy, metallography), Materials analysis, Destructive analysis, Non-destructive analysis | ✓ | | |
| <i>Modelling and simulation</i> | | | |
| Plant construction & automation Plant construction, Automation technology, Handling technology | ✓ | ✓ | |
| Recycling technologies Downcycling, Recycling | ✓ | | |

Overview of lightweighting expertise

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| | Research | Development | Manufacturing & Supply |
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| Manufacturing process | | | |
| Additive manufacturing 3D printing, Selective laser melting (SLM, LPBF, ...), Selective laser sintering (SLS), Stereolithography | ✓ | ✓ | ✓ |
| <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, Intermetallic alloys, Steel, Titanium | ✓ | ✓ | |
| Plastics Elastomers, Thermoplastics | ✓ | ✓ | |
| <i>Structural ceramics</i> | | | |
| <i>(Technical) textiles</i> | | | |

Contacts

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Contacts

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