

About this organisation

Matplus GmbH is a specialist for material data systems and related services. We support the development and optimisation of innovative metallic structural materials for lightweight construction in industrial practice. We offer software for the calculation of material data and material databases - from mechanical engineering to aerospace.

Our software solutions support the development and optimisation of innovative materials and efficient processing procedures. The focus is on metallic structural materials, e.g. steels, aluminium and nickel alloys. The multivariate optimisation of alloys and process sequences possible with our tools leads to new solutions, e.g. in the use of ultra-high-strength steels for lightweight construction. Cooperation with efficient laboratories and manufacturing partners covers the entire technological chain from melting to processing, metallography, materials testing and trials. In doing so, we are fast, targeted and, above all, practice-oriented.

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Main areas covered Materials Simulation, Materials Databases, Materials Development, Alloy Design, Optimisation of Heat Treatments

Infrastructure

Certifications

Keywords

Memberships



Organisation type

Small or medium-sized enterprise

Sectors



Employees

10 up to 49

Turnover

Up to €2m

Funding

Overview of lightweighting expertise

	Research	Development	Manufacturing & Supply
Offer			
Products Software & databases, Materials	✓	✓	
Services & consulting Consulting, Testing and trials, Validation, Simulation, Technology transfer	✓	✓	
Field of technology			
Design & layout Lightweight manufacturing, Lightweight material construction	✓	✓	
<i>Functional integration</i>			
<i>Measuring and testing technology</i>			
Modelling and simulation Multiphysics simulation, Optimisation, Materials, Others (Werkstoffdatenbanken)	✓	✓	✓
<i>Plant construction & automation</i>			
<i>Recycling technologies</i>			
Manufacturing process			
<i>Additive manufacturing</i>			
<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			
	Research	Development	Manufacturing & Supply
Material			
Biogenic materials			
Cellular materials (foam materials)			
Composites			
Fibres			
Functional materials			
Metals			
Aluminium, Steel, Titanium, Others (Nickel, Kobalt)	✓	✓	
Plastics			
Structural ceramics			
(Technical) textiles			

Contacts	
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