Realise Engineering Dresden GmbH

About this organisation

Machine translation

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

Realize Engineering Dresden GmbH was founded in 2018 by a development team of lightweight engineers and is a development service provider for the fast, efficient and cost-effective realisation of demanding projects. Thanks to our in-depth experience and strong interdisciplinary network with partner companies, we are always able to develop optimal and customised solutions for our customers.

>>Simulation is the key to modern lightweight construction<< True to this statement, our focus is on high-end simulation in the field of lightweight construction and fibre composites. This includes the classic applications: static analyses, highly dynamic analyses (crash/impact), multi-field simulation, process simulation and service life analyses. We also have expertise in cross-scale material modelling (micro --> meso --> macro --> structure) of anisotropic materials, virtual testing and the numerical prediction of waviness in Class A surfaces.

Hermann-Mende-Straße 5-7
01099 Dresden
Saxony
Germany
www.realize-engineering.de

Organisation type
Small or medium-sized enterprise

Sectors

Employees
Up to 9

Turnover
n/a

Funding

Realise Engineering Dresden GmbH

About this organisation

Main areas covered	Simulation (Abaqus), Material modelling, Concept
Infrastructure	Virtual testing, Programming environment (Fortran)
Certifications	
Keywords	
Memberships	CCeV

Overview of lightweighting expertise

Machine translation

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

	Research	Development	Manufacturing & Supply
Offer			
Products Parts and components, Others (Material cards, material models, user subroutines)	✓	✓	
Services & consulting Training, Consulting, Engineering, Prototyping, Simulation, Technology transfer	✓	✓	

Realise Engineering Dresden GmbH

Overview of lightweighting expertise

Machine translation

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

	Research	Development	Manufacturing & Supply
Field of technology			
Design & layout Lightweight manufacturing, Lightweight design, Hybrid structures, Lightweight construction concepts, Lightweight material construction		✓	
Functional integration			
Measuring and testing technology			
Modelling and simulation Crash behaviour, Loads & stress, Life-cycle analysis, Multiphysics simulation, Optimisation, Processes, Structural mechanics, Materials, Reliability validation		✓	
Plant construction & automation			
Recycling technologies			
Manufacturing process			
Additive manufacturing			
Coating (surface engineering)			
Fibre composite technology			
Forming Bending, Impact extrusion, Deep-drawing, Rolling	✓	✓	
Joining			
Material property alteration			
Primary forming			
Processing and separating			
Textile technology			

Realise Engineering Dresden GmbH

Overview of lightweighting expertise

Machine translation

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

	Research	Development	Manufacturing & Supply
Material			
Biogenic materials			
Cellular materials (foam materials) Closed-pore, Open-pore	✓	✓	
Composites Aramid fibre composites, Basalt fibre-reinforced plastic, Glass-fiber reinforced plastics (GFRP), Ceramic matrix composite (CMC), Carbon-fiber reinforced plastics (CFRP), Metal matrix composite, Natural fibre reinforced plastics (NFRP), Laminates		✓	
Fibres Basalt fibres, Glass fibres, Carbon fibres, Metal fibres, Natural fibres	✓	✓	
Functional materials			
Metals Aluminium, Magnesium, Steel, Titanium	✓	✓	
Plastics Thermoset plastics, Elastomers, Thermoplastics	✓	✓	
Structural ceramics			
(Technical) textiles Meshes, Woven fabrics		✓	

Contacts

Machine translation

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

Realise Engineering Dresden GmbH

Contacts

Mr Thomas Bartl

Development engineer and managing partner

info@realize-engineering.de

Mr Dr.-Ing. Andreas Freund

Managing Partner

info@realize-engineering.de