MET Motoren- und Energietechnik GmbH

About this organisation

Machine translation

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

MET GmbH is an independent engineering service provider. We act as a technically sound problem solver and carry out simulation-supported developments. We specialise in industrial products and modern manufacturing technologies. Our company is characterised by a high level of engineering and scientific expertise in: Mechanical engineering, shipbuilding and aircraft construction; offshore and marine technology; drive, energy, transport and environmental technology.

MET GmbH specialises in the simulation-based prediction of key physical and technical properties of products and the technical and economic parameters of processes. It has great expertise in - the application of simulation methods for the dimensioning and design of high-quality fibre composites, - the simulation-based thermal and reaction kinetic calculation and optimisation of the curing process of lightweight components, including the residual stresses and residual deformations that occur, - the optimisation of autoclaves, - the production equipment design of moulds for the autoclave and RTM process, - the optimisation of heat treatment and the curing process, - quality assurance and the simulation-based preparation of autoclave investments.

Organisation type
Small or medium-sized enterprise

Sectors
No specific sector

Employees
10 up to 49

Turnover
Up to €2m

Funding
n/a

Erich-Schlesinger-Str. 50
18059 Rostock
Mecklenburg-Western Pomerania
Germany
www.met-online.com

Main areas covered	Dimensioning manufacturing process, Simulation RTM resin injection, Strength, fatigue, wear, Simulation of curing processes, CFD / FE simulation
Infrastructure	
Certifications	DIN EN ISO 9001:2008
Keywords	Simulation, Autoclave process, RTM process, Curing process, Calculation
Memberships	

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products			
Services & consulting Consulting, Testing and trials, Engineering, Simulation, Technology transfer	✓	✓	✓
Field of technology			
Design & layout Lightweight manufacturing, Lightweight design, Hybrid structures, Lightweight construction concepts, Lightweight material construction	✓	✓	✓
Functional integration			
Measuring and testing technology Component and part analysis, Visual analysis (e.g. microscopy, metallography), System analysis, Environmental simulation, Materials analysis, Destructive analysis, Non-destructive analysis	✓	✓	✓
Modelling and simulation Crash behaviour, Loads & stress, Life-cycle analysis, Multiphysics simulation, Optimisation, Processes, Structural mechanics, Materials, Reliability validation	✓	✓	✓
Plant construction & factory automation			
Recycling technologies			

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing Deposition welding, Laminated object manufacturing (LOM), Fused deposition modeling	✓	✓	
Coating (surface engineering) Plasma process, Powder coating	✓	✓	
Fibre composite technology Filament winding, Resin infusion process, Resin transfer moulding, Pre-preg processing	✓	✓	
Forming Bending, Compression moulding, Forging, Thermal converting, Rolling	✓	✓	
Joining Hybrid joining, Adhesive bonding, Screwing, Welding	✓	✓	
Material property alteration Mechanical treatment, Thermomechanical treatment, Heat treatment	✓	✓	
Primary forming Casting, Injection moulding	✓	✓	
Processing and separating Drilling, Turning, Milling, Electrical discharge machining, Honing, Sawing, Shearing/punching, Grinding, Cutting	✓	✓	
Textile technology			

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
Biogenic materials			
Cellular materials (foam materials)			
Composites Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP)	✓	✓	
Fibres			
Functional materials			
Metals			
Plastics			
Structural ceramics			
(Technical) textiles			

Contacts

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Mr Prof. Dr.-Ing. habil. Siegfried Bludszuweit

Managing Director

office@met-online.com