

Mitsubishi Chemical Advanced Materials Composites AG

About this organisation

Machine translation

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

Mitsubishi Chemical Advanced Materials Composites is the leading, globally active and innovative partner in the field of thermoplastic composites and corresponding customised solutions.

Mitsubishi Chemical Advanced Materials Composites offers special (LWRT) lightweight composite materials under the name SymaLITE®. The mixed fibre materials made from glass and polymer fibres produced using special textile processes are supplied as rolls or sheets and can be processed into three-dimensional components at low cost using the low-pressure pressing process. The ultra-light, freely mouldable SymaLITE® thermoplastics are sound- and temperature-insulating and can be fitted directly with functional or decorative cover layers without the use of adhesives. This saves a complete production step. SymaLITE® can be used as sheet material to replace plywood, thin layers of tropical wood, fibreboard or polymer rigid foams. When moulding the SymaLITE® semi-finished product into a three-dimensional component, SymaLITE® offers the option of varying the wall thickness within the component - while maintaining the rigidity of the components.

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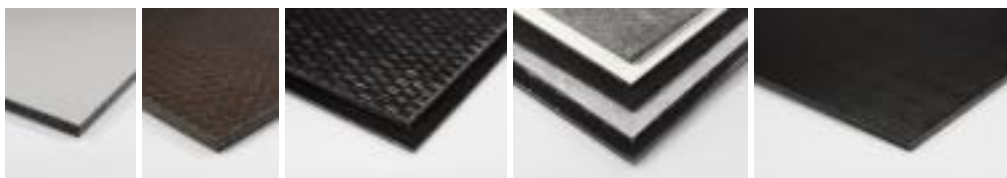
Organisation type
Small or medium-sized enterprise

Sectors


Employees
50 up to 249

Turnover
More than €50m

Funding
n/a



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About this organisation

Main areas covered	Thermoplastic composites, GMT, SymaLITE®, GMTex®, MultiQ®
Infrastructure	Certified test laboratory
Certifications	ISO 9001:2015
Keywords	Thermoplastic composites, GMT, GMTex®, SymaLITE®, MultiQ®
Memberships	Carbon Composites e.V.

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Parts and components, Semi-finished parts, Materials, Others (Component design, calculation, static and dynamic simulation, prototype construction)	✓	✓	✓
Services & consulting Testing and trials, Engineering, Prototyping, Validation, Simulation		✓	✓

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Field of technology			
Design & layout Lightweight design, Hybrid structures, Lightweight construction concepts, Lightweight material construction		✓	✓
Functional integration Material functionalisation		✓	✓
Measuring and testing technology Component and part analysis, Visual analysis (e.g. microscopy, metallography), Environmental simulation, Materials analysis, Destructive analysis, Non-destructive analysis		✓	✓
Modelling and simulation Crash behaviour, Loads & stress, Life-cycle analysis, Optimisation, Processes, Structural mechanics, Materials, Reliability validation		✓	✓
<i>Plant construction & automation</i>			
Recycling technologies Material separation, Recycling		✓	

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
<i>Additive manufacturing</i>			
<i>Coating (surface engineering)</i>			
Fibre composite technology			
Pre-preg processing		✓	✓
Forming			
Impact extrusion, Compression moulding, Thermal converting, Deep-drawing		✓	✓
<i>Joining</i>			
<i>Material property alteration</i>			
Primary forming			
Extrusion		✓	✓
<i>Processing and separating</i>			
<i>Textile technology</i>			

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
<i>Biogenic materials</i>			
<i>Cellular materials (foam materials)</i>			
Composites Glass-fiber reinforced plastics (GFRP)		✓	✓
Fibres Aramid fibres, Glass fibres, Carbon fibres, Metal fibres		✓	✓
<i>Functional materials</i>			
<i>Metals</i>			
Plastics Thermoplastics		✓	✓
<i>Structural ceramics</i>			
(Technical) textiles Yarns, rovings, Laid webs, Woven fabrics		✓	✓

Contacts

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