

About this organisation

Machine translation

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

Sustainable lightweight construction technologies for the 21st century

Holy is developing new manufacturing processes that combine ML-driven simulation and robotic fibre placement. The technology disrupts a long-obsolete production process and achieves significant advances in component weight, cost and carbon footprint. The material of Holy components is reusable and retains properties suitable for high-end performance applications over multiple life cycles.

Luruper Hauptstraße 1
22547 Hamburg
Hamburg
Germany
www.holy-technologies.com



Organisation type

Small or medium-sized enterprise

Sectors



Employees

Up to 9

Turnover

n/a

Funding

n/a

Holy Technologies GmbH

About this organisation

Main areas covered	Manufacturing process, Production simulation
Infrastructure	Robotics, 3D printing
Certifications	
Keywords	Long fibre reinforcement, Sustainability, Automation, Carbon fibre
Memberships	

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products			
Parts and components, Machines and plants, Software & databases, Systems and end products	✓	✓	✓
Services & consulting			

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Field of technology			
Design & layout Lightweight construction concepts	✓	✓	
<i>Functional integration</i>			
<i>Measuring and testing technology</i>			
Modelling and simulation Loads & stress, Optimisation, Processes, Structural mechanics, Materials	✓	✓	✓
Plant construction & factory automation Plant construction, Automation technology, Robotics		✓	
Recycling technologies Recycling, Upcycling	✓	✓	✓

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing Fused deposition modeling, Selective laser sintering (SLS)			✓
<i>Coating (surface engineering)</i>			
Fibre composite technology Filament winding, Resin infusion process, Resin transfer moulding, Pre-preg processing, Vacuum infusion	✓	✓	✓
<i>Forming</i>			
<i>Joining</i>			
<i>Material property alteration</i>			
<i>Primary forming</i>			
<i>Processing and separating</i>			
Textile technology Preforming, Knitting, laid web production	✓	✓	

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
Biogenic materials Bioplastics, Biocomposites	✓	✓	✓
Cellular materials (foam materials) Closed-pore			✓
Composites Aramid fibre composites, Basalt fibre-reinforced plastic, Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP), Natural fibre reinforced plastics (NFRP)	✓	✓	✓
Fibres Aramid fibres, Basalt fibres, Glass fibres, Ceramic fibres, Carbon fibres, Natural fibres	✓	✓	✓
<i>Functional materials</i>			
<i>Metals</i>			
Plastics Thermoset plastics, Thermoplastics	✓	✓	✓
<i>Structural ceramics</i>			
(Technical) textiles Yarns, rovings	✓	✓	✓

Contacts

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Contacts	
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