

About this organisation

Machine translation

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

herone GmbH is a Dresden-based company whose experienced development team has many years of aerospace expertise in collaboration with the Institute for Lightweight Construction and Plastics Technology at TU Dresden. The object of the company is the development, manufacture and sale of reinforced and unreinforced plastics with a focus on the functional integration (e.g. injection moulding) of load introduction elements.

In several R&D projects, the founders of herone GmbH developed a manufacturing technology for the series production of composite components. This herone technology combines the high productivity of textile technology processes with the short cycle times of thermoplastic manufacturing processes and thus enables the automated production of customised, certified composite components for series applications. The target sectors for the ultra-light composite profiles are the aerospace, automotive, oil & gas, medical, sports and leisure industries. herone is positioning itself as a development service provider (prototyping) as well as a future producer and supplier of certified profile structures.

Marschnerstraße 39

01307 Dresden

Saxony

Germany

www.herone.de



Organisation type

Small or medium-sized enterprise

Sectors



Employees

Up to 9

Turnover

Up to €2m

Funding

n/a



About this organisation

Main areas covered	Fibre composites, Thermoplastics, Hybrid structures, Hollow profiles, Function integration
Infrastructure	Braided wheel, Autoclave, Ovens, Testing laboratory for plastics testing, Test laboratory for mechanical testing
Certifications	EN 9100 (under construction), Technology Readiness Level 6, Aerospace standard
Keywords	Aviation, Fibre-reinforced plastics, Thermoplastic tapes, Production of hollow profiles, Functionalisation
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, Systems and end products, Materials	✓	✓	✓
Services & consulting Consulting, Testing and trials, Engineering, Prototyping, Validation, Simulation	✓	✓	✓

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Field of technology			
Design & layout Lightweight manufacturing, Hybrid structures, Lightweight material construction, Others (Customised component development)		✓	✓
Functional integration Actuator technology, Media conductivity, Sensor technology, Material functionalisation	✓	✓	✓
<i>Measuring and testing technology</i>			
Modelling and simulation Crash behaviour, Loads & stress, Optimisation, Structural mechanics, Materials		✓	✓
<i>Plant construction & automation</i>			
Recycling technologies Downcycling, Recycling	✓	✓	

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 Filament winding, Pre-preg processing, Others (Braiding, spiralling, pressing processes, welding (thermoplastics))	✓	✓	✓
Forming Compression moulding, Thermal converting		✓	✓
Joining Hybrid joining, Screwing, Welding		✓	✓
Material property alteration Heat treatment		✓	✓
Primary forming Pultrusion, Injection moulding		✓	✓
<i>Processing and separating</i>			
Textile technology Braiding, Preforming, Knitting, laid web production	✓	✓	✓

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
Biogenic materials Bioplastics, Biocomposites	✓	✓	
<i>Cellular materials (foam materials)</i>			
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, Metal fibres, Natural fibres, Others (Other fibres on request)	✓	✓	✓
<i>Functional materials</i>			
<i>Metals</i>			
Plastics Elastomers, Thermoplastics	✓	✓	✓
<i>Structural ceramics</i>			
(Technical) textiles Meshes, Laid webs, Woven fabrics			✓

Contacts

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Contacts	
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