

CENTER OF MARITIME TECHNOLOGIES gGmbH (CMT)

Lightweight construction / Joining technology department

About this organisation

Machine translation

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

The Centre of Maritime Technologies gGmbH (CMT) is a non-profit limited liability company under the umbrella of the German Shipbuilding and Ocean Industries Association (VSM) and is the VSM's service arm for research and development, offering a broad portfolio of services. As a research organisation based in Hamburg, it currently employs 15 people.

The services offered cover the entire range of research project implementation, from identifying RDI research needs and developing project ideas to identifying suitable partnerships and cooperation opportunities, advising on funding programmes, submitting cross-programme applications and administrative and technical project management. This provides interested parties with an external research centre within the framework of the association, which opens up the possibility of participating in RDI or supplementing the company's own RDI capacities. CMT gGmbH is the direct successor organisation to the Center of Maritime Technologies e.V., which was involved in more than 60 publicly funded, mostly European research projects and around 50 privately funded research and development projects.

Steinhöft 11
20459 Hamburg
Hamburg
Germany
www.cmt-net.org/



Organisation type

Non-university research institution

Sector



Employees

10 up to 49

Turnover

Up to €2m

Funding

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About this organisation

Main areas covered Shipbuilding, Offshore, Fibre composites, Bonding techniques, Manufacturing process

Infrastructure

Certifications

Keywords Shipbuilding, Offshore, Gluing, Fibre composite

Memberships Shipbuilding and Marine Technology Association

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
<i>Products</i>			
Services & consulting			
Consulting, Funding, Simulation, Technology transfer	✓	✓	

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Field of technology			
Design & layout Lightweight manufacturing, Hybrid structures, Lightweight construction concepts	✓	✓	
<i>Functional integration</i>			
<i>Measuring and testing technology</i>			
Modelling and simulation Loads & stress, Life-cycle analysis, Multiphysics simulation, Optimisation, Processes, Structural mechanics	✓	✓	
Plant construction & automation Automation technology, Handling technology	✓	✓	
Recycling technologies Material separation, Recycling, Upcycling	✓		

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing 3D printing, Deposition welding	✓		
<i>Coating (surface engineering)</i>			
Fibre composite technology Manual lamination, Resin infusion process, Resin transfer moulding, Vacuum infusion	✓		
<i>Forming</i>			
Joining Hybrid joining, Adhesive bonding, Sewing, Welding	✓	✓	
<i>Material property alteration</i>			
<i>Primary forming</i>			
<i>Processing and separating</i>			
Textile technology Weaving, Knitting, laid web production	✓		

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	Research	Development	Manufacturing & Supply
Material			
Biogenic materials Biocomposites	✓		
<i>Cellular materials (foam materials)</i>			
Composites Basalt fibre-reinforced plastic, Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP), Metal matrix composite	✓		
<i>Fibres</i>			
Functional materials Electrostrictive / magnetostrictive materials, Shape memory materials	✓		
Metals Aluminium, Steel	✓		
<i>Plastics</i>			
<i>Structural ceramics</i>			
<i>(Technical) textiles</i>			

Contacts

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Contacts

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