Open Hybrid LabFactory e.V.

Association

About this organisation

The Open Hybrid LabFactory (OHLF) in Wolfsburg enables the research and development of innovative lightweight construction concepts for the coming vehicle generations and other mobility carriers. The OHLF is funded by the German Federal Ministry of Education and Research (BMBF) as part of the funding initiative "Research Campus - Public-Private Partnership for Innovation".

The particular strength of the research factory is based on combined production technologies and the use of multimaterial for function integrated components as well as the complete component consideration over the entire product life cycle; from conceptual design, textile semi-finished and organic sheet production as well as manufacturing processes, to life cycle design & engineering.

Hermann-Münch-Straße 2 38440 Wolfsburg Lower Saxony Germany ☑ open-hybrid-labfactory.de

Main areas covered

Infrastructure

Certifications

Keywords

Memberships

OHLF OPEN HYBRID
Organisation type Programme administration, PPP
Sectors

Employees 50 up to 249

Turnover n/a

Funding n/a

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	Research	M Development	lanufacturing & Supply
Offer		-	
Products			
Services & consulting Validation	✓		
Field of technology			
Design & layout Hybrid structures, Lightweight construction concepts, Lightweight material construction	✓		
Functional integration			
Measuring and testing technology Component and part analysis, Visual analysis (e.g. microscopy, metallography), Materials analysis, Destructive analysis, Non-destructive analysis	✓		
Modelling and simulation Crash behaviour, Loads & stress, Life-cycle analysis, Optimisation, Structural mechanics, Materials	✓		
Plant construction & automation Automation technology, Handling technology	✓		
Recycling technologies Material separation, Recycling	✓		

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	Research	N Development	lanufacturin & Supply
Manufacturing process	Research	Development	и зарріў
Manufacturing process			
Additive manufacturing			
Coating (surface engineering)			
Fibre composite technology Others	✓		
Forming Impact extrusion, Compression moulding, Thermal converting, Deep-drawing, Others	~		
Joining Hybrid joining, Adhesive bonding, Others	✓		
Material property alteration			
Primary forming Extrusion, Casting, Pultrusion, Injection moulding	~		
Processing and separating			

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			Manufacturin
	Research	Development	& Supply
Material			
Biogenic materials Bioplastics, Biocomposites, Wood	✓		
Cellular materials (foam materials)			
Composites Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP), Others	✓		
Fibres Glass fibres, Carbon fibres, Others	✓		
Functional materials			
Metals			
Plastics Thermoplastics, Others	✓		
Structural ceramics			

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