About this organisation

Machine translation

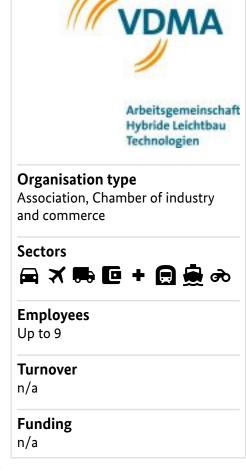
This organisation has been machine-translated based on data provided in German.

The working group deals with production processes for hybrid lightweight components using fibre-reinforced plastic composites and metals. In addition to technology providers in mechanical and plant engineering, users, suppliers and researchers are also invited to participate. The common goal is to further develop production processes, automation and joining technologies across materials and throughout Europe and to create sustainable jobs.

The VDMA Working Group on Hybrid Lightweight Technologies is primarily made up of technology providers from the mechanical and plant engineering sector for the production of composite and hybrid components. They cover the entire value chain in the production process from the raw material to the end product. The approximately 200 member companies are assigned to more than 10 trade associations within the VDMA, focussing on the following areas: - Foundry machinery - Metallurgical and rolling mill equipment - Manufacturing technology - Plastics machinery - Measuring and testing technology - Precision tools -Robotics and automation - Textile machinery - Thermal process technology - Machine tools - Wind industry The Technology and Processes experience exchange group deals with the development of strategies for hybrid lightweight construction and focusses on production, automation and joining technology. At www.composite-arena.de you will find a list of member companies with a production programme for composite manufacturing.

Lyoner Straße 18
60528 Frankfurt am Main
Hesse
Germany

www.vdma.org/hybride-leichtbau-technologien



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About this or	ganisation
Main areas covered	Mechanical and plant engineering, Proof of production, Lightweight construction technologies, Network, exchange of experience, Events, trade fair partners
Infrastructure	
Certifications	
Keywords	Production technology platform, Hybrid lightweight construction, multimaterial, Conferences, meetings, Carbon, CFRP, composites, Joining and connection technology
Memberships	

Overview of lightweighting expertise Machine translation This organisation has been machine-translated based on data provided in German. Research Development & Supply Offer Products Machines and plants, Software & databases, Tools and moulds Services & consulting Consulting, Funding, Standardisation

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Overview of lightweighting expertise					
Machine translation					
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	Research	N Development	fanufacturing & Supply		
Field of technology					
Design & layout					
Functional integration					
Measuring and testing technology Component and part analysis, Visual analysis (e.g. microscopy, metallography), System analysis, Materials analysis, Destructive analysis, Non-destructive analysis	✓	✓	✓		
Modelling and simulation Crash behaviour, Loads & stress, Life-cycle analysis, Multiphysics simulation, Optimisation, Processes, Structural mechanics, Materials, Reliability validation		✓	✓		
Plant construction & automation Plant construction, Automation technology, Handling technology, Robotics	✓	~	✓		
Recycling technologies Downcycling, Material separation, Recycling, Upcycling		~	✓		

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Overview of lightweighting expertise **Machine translation** This organisation has been machine-translated based on data provided in German. Manufacturing Research Development & Supply Manufacturing process **Additive manufacturing** 3D printing Coating (surface engineering) Galvanising, Painting, Plasma process, Powder coating, Hot dipping, Sputtering Fibre composite technology Fibre spraying, Filament winding, Resin infusion process, Resin transfer moulding, Pre-preg processing, Vacuum infusion Forming Bending, Impact extrusion, Compression moulding, Forging, Extrusion moulding, Stretch forming, Thermal converting, Deep-drawing, Fluid active media based forming, Rolling Joining Clinching, Hybrid joining, Adhesive bonding, Soldering, Sewing, Riveting, Screwing, Welding Material property alteration Mechanical treatment, Thermochemical treatment, Thermomechanical treatment, Heat treatment **Primary forming** Extrusion, Casting, Pultrusion, Sintering, Injection moulding Processing and separating Drilling, Turning, Milling, Electrical discharge machining, Honing, Sawing, Shearing/punching, Grinding, Cutting Textile technology Fibre manufacturing, Braiding, Yarn & roving production, Preforming, Knitting, Textile surface treatment and finishing, Nonwoven & leichtbmatន production, Weaving, Knitting, laid web Page 4 of 5 production

Overview of lightweighting expertise

Machine translation

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	Research	Development	Manufacturing & Supply
Material			
Biogenic materials			
Cellular materials (foam materials)			
Composites			
Fibres			
Functional materials			
Metals			
Plastics			
Structural ceramics			
(Technical) textiles			

Contacts

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