AUDI AG

About this organisation

Machine translation

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

AUDI AG is one of the world's most successful automobile manufacturers in the premium segment. Innovative technology, visionary design and outstanding quality have made AUDI a recognised manufacturer of high-quality vehicles. The development of pioneering and sustainable vehicle concepts is at the centre of all activities.

Innovative lightweight construction solutions are given high priority within AUDI AG. In recent years, Audi has developed a large number of components with fibre reinforcement, both glass fibre and carbon fibre reinforced, and implemented them in series production. Examples include the CFRP rear panel of the current A8, which has been implemented in large-scale production, and a large number of CFRP components in the R8 Spyder and R8 GT. Audi is also continuing to work on the implementation of continuous fibre-reinforced composites in various vehicle models. The main focus here is on the aspects of suitability for mass production and cost-effectiveness as an alternative to metallic lightweight materials.

Organisation type
Large enterprises

Sector

Employees
500 and more

Turnover
More than €50m

Funding

Auto Union Str. 1
85057 Ingolstadt
Bavaria
Germany
www.audi.de

Main areas covered Conceptual lightweight construction, Innovative construction methods, Intelligent material combinations, Lightweight construction system

Infrastructure

Certifications

Keywords

Memberships

AUDI AG

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Parts and components, Systems and end products		✓	
Services & consulting			
Field of technology			
Design & layout Lightweight manufacturing, Lightweight design, Hybrid structures, Lightweight construction concepts, Lightweight material construction		✓	
Functional integration Media conductivity, Sensor technology, Thermal activation, Material functionalisation		✓	
Measuring and testing technology Component and part analysis, Visual analysis (e.g. microscopy, metallography), Environmental simulation, Materials analysis, Destructive analysis, Non-destructive analysis		✓	
Modelling and simulation Crash behaviour, Loads & stress, Life-cycle analysis, Optimisation, Processes, Structural mechanics, Materials		✓	
Plant construction & automation			
Recycling technologies			

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing 3D printing		✓	
Coating (surface engineering)			
Fibre composite technology Manual lamination, Resin infusion process, Resin transfer moulding, Pre-preg processing, Vacuum infusion		✓	
Forming			
Joining			
Material property alteration			
Primary forming			
Processing and separating			
Textile technology			

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Overview of lightweighting expertise

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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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