

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.

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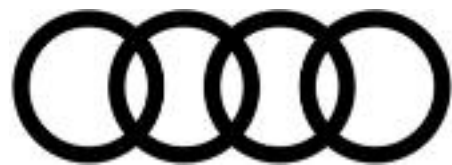
Main areas covered Conceptual lightweight construction, Innovative construction methods, Intelligent material combinations, Lightweight construction system

Infrastructure

Certifications

Keywords

Memberships



Organisation type

Large enterprises

Sector



Employees

500 and more

Turnover

More than €50m

Funding

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Parts and components, Systems and end products		✓	
<i>Services & consulting</i>			
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		✓	
<i>Plant construction & automation</i>			
<i>Recycling technologies</i>			

Overview of lightweighting expertise

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

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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