

Robert Bosch GmbH

Research and Advance Engineering Centre

About this organisation

Machine translation

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

The Bosch Group is an international technology and services company. Its activities are organised into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. In the Internet of Things (IoT), Bosch offers innovative solutions for Smart Home, Industry 4.0 and Connected Mobility, as well as expertise in sensor technology, software and services.

The Corporate Research central division pools all the necessary expertise in the Bosch Group in the field of lightweight construction with regard to bionic design development, component manufacture and material expertise in lightweight metals and plastics.

Robert-Bosch-Campus 1
71272 Renningen
Baden-Württemberg
Germany
www.bosch.de



Organisation type

Large enterprises

Sectors



Others: Internet der Dinge (IoT),
Industrie 4.0

Employees

500 and more

Turnover

More than €50m

Funding

Main areas covered

Components for e-mobility, Consumer goods, e.g. washing machines

Infrastructure

Certifications

Keywords

Memberships

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
<i>Products</i>			
<i>Services & consulting</i>			
Field of technology			
Design & layout Lightweight construction concepts, Lightweight material construction	✓	✓	
<i>Functional integration</i>			
<i>Measuring and testing technology</i>			
Modelling and simulation Structural mechanics, Materials, Reliability validation	✓	✓	
<i>Plant construction & automation</i>			
<i>Recycling technologies</i>			

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
<i>Additive manufacturing</i>			
<i>Coating (surface engineering)</i>			
<i>Fibre composite technology</i>			
<i>Forming</i>			
<i>Joining</i>			
<i>Material property alteration</i>			
Primary forming			
Injection moulding		✓	
<i>Processing and separating</i>			
<i>Textile technology</i>			

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
<i>Biogenic materials</i>			
<i>Cellular materials (foam materials)</i>			
<i>Composites</i>			
<i>Fibres</i>			
<i>Functional materials</i>			
Metals Aluminium, Magnesium, Steel	✓		
Plastics Thermoplastics	✓	✓	
<i>Structural ceramics</i>			
<i>(Technical) textiles</i>			

Contacts

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Contacts

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