

Brose Fahrzeugteile SE & Co. KG, Coburg

About this organisation

Machine translation

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

Brose is the world's fourth-largest family-owned automotive supplier. The company develops and manufactures mechatronic systems for vehicle doors and seats as well as electric motors and electronics, including for steering, brakes, transmissions and engine cooling. Around 30,000 employees at around 70 locations in 25 countries generate a turnover of over €7 billion. Every second new car worldwide is equipped with at least one Brose product.

Lightweight products from Brose contribute to lower fuel consumption and emissions in vehicles, regardless of the type of drive. The family-owned company develops and produces weight-reduced components and systems for doors, seats and electric drives. It uses materials such as high-strength steels, light metals, unreinforced and fibre-reinforced plastics as well as multi-material systems - tailored precisely to the respective requirements. One example of functional lightweight construction is a door module made of continuous fibre-reinforced thermoplastic (organo sheet). Brose has been the first supplier to produce a large series of these since 2018.

Max-Brose-Str. 1
96450 Coburg
Bavaria
Germany
www.brose.com



Organisation type

Large enterprises

Sectors



Employees

500 and more

Turnover

More than €50m

Funding

n/a



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About this organisation

Main areas covered	Mechatronic components, Door and locking systems, Tailgate and side door drives, Seat components and systems, Electric motors, engine cooling, air conditioning
Infrastructure	Materials & acoustics laboratory, Crash system for seat & door systems, Different test areas, Organosheet technical centre
Certifications	
Keywords	Mechatronics, sensors, Electronics, mechanics, Electric motors, Plastics processing, Sheet metal processing
Memberships	

Overview of lightweighting expertise

Machine translation

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

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Field of technology			
Design & layout Lightweight manufacturing, Lightweight design, Hybrid structures, Lightweight construction concepts, Lightweight material construction	✓	✓	✓
Functional integration Actuator technology, Media conductivity, Sensor technology, Thermal activation, Material functionalisation	✓	✓	✓
Measuring and testing technology Component and part analysis, Visual analysis (e.g. microscopy, metallography), System analysis, Environmental simulation, 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	✓	✓	✓
<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, Deposition welding, Selective laser melting (SLM, LPBF, ...), Selective laser sintering (SLS), Stereolithography	✓	✓	
Coating (surface engineering) Painting, Powder coating	✓	✓	✓
Fibre composite technology Pre-preg processing, Others (Organosheet thermoforming)	✓	✓	✓
Forming Bending, Impact extrusion, Stretch forming, Thermal converting, Deep-drawing	✓	✓	✓
Joining Hybrid joining, Adhesive bonding, Soldering, Riveting, Screwing, Welding	✓	✓	✓
Material property alteration Heat treatment		✓	✓
Primary forming Casting, Injection moulding	✓	✓	✓
Processing and separating Shearing/punching, Cutting	✓	✓	✓
Textile technology Preforming, Knitting, laid web production	✓	✓	

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
Biogenic materials Bioplastics, Biocomposites	✓	✓	✓
Cellular materials (foam materials) Closed-pore, Open-pore	✓	✓	
Composites Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP), Nanocomposites, Natural fibre reinforced plastics (NFRP)	✓	✓	✓
Fibres Glass fibres, Carbon fibres, Natural fibres		✓	
Functional materials Electrorheological/magnetorheological fluids, Electrostrictive / magnetostrictive materials, Shape memory materials, Piezoelectric materials	✓	✓	
Metals Aluminium, Magnesium, Steel	✓	✓	✓
Plastics Thermoset plastics, Elastomers, Thermoplastics	✓	✓	✓
<i>Structural ceramics</i>			
(Technical) textiles Laid webs, Woven fabrics, Nonwovens, mats	✓	✓	

Contacts

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