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 fibrereinforced 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.



Turnover More than €50m

Funding n/a

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



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

Overview of lightweighting expertise

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	Research		Aanufacturing & Supply
Offer			
Products Parts and components, Systems and end products	~	\checkmark	\checkmark
Services & consulting			

Overview of lightweighting expertise			
Machine translation			
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	Research	N Development	/anufacturin & Supply
Field of technology			
Design & layout Lightweight manufacturing, Lightweight design, Hybrid structures, Lightweight construction concepts, Lightweight material construction	\checkmark	\checkmark	~
Functional integration Actuator technology, Media conductivity, Sensor technology, Thermal activation, Material functionalisation	\checkmark	~	~
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	~	~	~
Plant construction & automation			
Recycling technologies			

Overview of lightweighting expertise			
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	Research	l Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing 3D printing, Deposition welding, Selective laser melting (SLM, LPBF,), Selective laser sintering (SLS), Stereolithography	\checkmark	\checkmark	
Coating (surface engineering) Painting, Powder coating	\checkmark	\checkmark	\checkmark
Fibre composite technology Pre-preg processing, Others (Organosheet thermoforming)	\checkmark	\checkmark	\checkmark
Forming Bending, Impact extrusion, Stretch forming, Thermal converting, Deep-drawing	\checkmark	\checkmark	\checkmark
Joining Hybrid joining, Adhesive bonding, Soldering, Riveting, Screwing, Welding	\checkmark	\checkmark	\checkmark
Material property alteration Heat treatment		\checkmark	\checkmark
Primary forming Casting, Injection moulding	\checkmark	\checkmark	\checkmark
Processing and separating Shearing/punching, Cutting	\checkmark	\checkmark	\checkmark
Textile technology Preforming, Knitting, laid web production	\checkmark	\checkmark	

Overview of lightweighting expertise

	Research	Development	Manufacturi & Supply
Material			
Biogenic materials Bioplastics, Biocomposites	\checkmark	\checkmark	\checkmark
Cellular materials (foam materials) Closed-pore, Open-pore	\checkmark	\checkmark	
Composites Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP), Nanocomposites, Natural fibre reinforced plastics (NFRP)	\checkmark	\checkmark	\checkmark
Fibres Glass fibres, Carbon fibres, Natural fibres		\checkmark	
Functional materials Electrorheological/magnetorheological fluids, Electrostrictive / magnetostrictive materials, Shape memory materials, Piezoelectric materials	\checkmark	~	
Metals Aluminium, Magnesium, Steel	\checkmark	\checkmark	\checkmark
Plastics Thermoset plastics, Elastomers, Thermoplastics	\checkmark	~	\checkmark

Contacts

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