

Bharat Forge Global Holding GmbH

Advanced Engineering

About this organisation

Machine translation

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

Bharat Forge develops, produces and supplies complex forged parts made of aluminium and steel for the chassis and engine sectors, including machining and assembly. In addition to the automotive industry, we also supply other industrial sectors.

For us, innovative lightweight construction covers the entire process chain - from material selection through to the automated series production process. With the help of topology and shape optimisation, we design the customer product to be as light as possible, but never at the expense of safety. This is because the safety requirements for chassis parts are constantly increasing. Bharat Forge has reduced its own CO2 footprint. Since 2012, we have been producing our aluminium pre-material ourselves using the HCM process. Recycling our burr at the Brand-Erbisdorf site saves more than 40% CO2 in the entire production process. We are involved in the Massive Lightweight Construction initiative to ensure that the vehicles of the future cause lower CO2 emissions due to less weight and that materials and other resources are used more efficiently.

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North Rhine-Westphalia
Germany
www.bharatforge-gh.com



BHARAT FORGE
GLOBAL HOLDING



Organisation type

Large enterprises

Sectors



Employees

500 and more

Turnover

More than €50m

Funding

n/a

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Main areas covered Weight optimisation of components, Own input material HCM, Excellent structural properties

Infrastructure Material selection, Component development, Design optimisation, Heat treatment, Quality assurance

Certifications ISO/TS 16949, ISO 14001 and 50001

Keywords Component design, Material selection, Mechanical processing, Aluminium forging

Memberships

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Parts and components, Systems and end products, Materials, Tools and moulds	✓	✓	✓
Services & consulting Testing and trials, Engineering, Prototyping, Validation, Simulation	✓	✓	✓

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Field of technology			
Design & layout Lightweight manufacturing, Lightweight design, Lightweight construction concepts, Lightweight material construction	✓	✓	
<i>Functional integration</i>			
Measuring and testing technology Component and part analysis, Visual analysis (e.g. microscopy, metallography), System analysis, Materials analysis	✓	✓	✓
Modelling and simulation Loads & stress, Life-cycle analysis, Optimisation, Structural mechanics, Materials	✓	✓	
<i>Plant construction & automation</i>			
<i>Recycling technologies</i>			

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	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing 3D printing, Deposition welding, Electron beam melting, Selective laser melting (SLM, LPBF, ...)	✓	✓	✓
<i>Coating (surface engineering)</i>			
<i>Fibre composite technology</i>			
Forming Impact extrusion, Forging, Rolling	✓	✓	✓
Joining Screwing, Welding	✓	✓	✓
Material property alteration Heat treatment	✓	✓	✓
<i>Primary forming</i>			
Processing and separating Drilling, Turning, Milling, Electrical discharge machining, Honing, Sawing, Shearing/punching, Grinding, Cutting	✓	✓	✓
<i>Textile technology</i>			

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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, Steel	✓	✓	✓
<i>Plastics</i>			
<i>Structural ceramics</i>			
<i>(Technical) textiles</i>			

Contacts

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