

ANDREAS STIHL AG & Co. KG

About this organisation

Machine translation

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

The STIHL Group develops, manufactures and sells power tools for forestry and agriculture as well as for landscape maintenance, the construction industry and private garden owners. The product range is complemented by digital solutions and services.

As a family-owned company, the STIHL Group develops, produces and sells hand-held power tools. Lightweight construction plays a key role here due to the requirement for a low power-to-weight ratio. Lightweight materials such as magnesium, aluminium and reinforced plastics are used as structural components to reduce the system weight of chainsaws and power tools. The STIHL Group attaches particular importance to magnesium as a construction material. This is emphasised by the company's own magnesium die-casting plant in Weinsheim (Palatinate). With a capacity of approx. 6,500 tonnes of magnesium per year, STIHL is one of the most efficient manufacturers of magnesium die-cast products in Europe. This plant also produces customised magnesium components for lightweight construction applications in other industries.

Badstr. 115
71336 Waiblingen
Baden-Württemberg
Germany
www.stihl.de/

Main areas covered Mechanical engineering and materials

Infrastructure

Certifications ISO 9001, ISO 50001, BS OHSAS 18001, ISO 14001, IATF 16949

Keywords Magnesium

Memberships BV of the German Foundry Industry, Association of German Die Casting Foundries



Organisation type

Large enterprises

Sector



Employees

500 and more

Turnover

More than €50m

Funding

n/a

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Parts and components, Machines and plants	✓	✓	✓
Services & consulting Engineering, Prototyping, Simulation		✓	✓
Field of technology			
Design & layout Lightweight manufacturing, Lightweight design, Hybrid structures, Lightweight construction concepts, Lightweight material construction		✓	✓
<i>Functional integration</i>			
Measuring and testing technology Environmental simulation, Materials analysis, Destructive analysis, Non-destructive analysis		✓	✓
Modelling and simulation Crash behaviour, Loads & stress, Life-cycle analysis, Optimisation, 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, Selective laser melting (SLM, LPBF, ...), Stereolithography			✓
Coating (surface engineering) Painting, Powder coating		✓	✓
<i>Fibre composite technology</i>			
Forming Bending, Compression moulding, Deep-drawing, Rolling			✓
Joining Adhesive bonding, Soldering, Sewing, Riveting, Screwing, Welding	✓	✓	✓
Material property alteration Mechanical treatment, Heat treatment			✓
Primary forming Casting, Injection moulding	✓	✓	✓
Processing and separating Drilling, Turning, Milling, Electrical discharge machining, Honing, Sawing, Shearing/punching, Grinding			✓
<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 Thermoset plastics, Elastomers, Thermoplastics	✓	✓	✓
<i>Structural ceramics</i>			
<i>(Technical) textiles</i>			

Contacts

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Contacts

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