

About this organisation

Nemak is a leading provider of innovative lightweighting solutions for the global automotive industry, specializing in the development and manufacturing of aluminum components for e-mobility, structural applications and powertrain. In 2022, Nemak generated revenue of US\$4.7 billion. Nemak employs more than 24,000 people at 38 locations in 15 countries.

Nemak works in a process-oriented manner, covering design & engineering, tooling, casting and machining through to assembly.

The Squire 17, Am Flughafen
60549 Frankfurt/Main
Hesse
Germany
www.nemak.com



Organisation type

Large enterprises

Sector



Employees

500 and more

Turnover

More than €50m

Funding

n/a



Main areas covered

High Pressure Die Casting, SPM Casting (Nemak Rotacast), Sand Casting (Nemak CPS), Development (Design, Alloy), Assembly, Lightweighting

Infrastructure

Engineering Center

Certifications

IATF 16949, ISO 27000

Keywords

Lightweighting, Functional Integration, Validation

Memberships

AMAP, ASI, BDG, DVS, FIR, FVV...

Overview of lightweighting expertise

	Research	Development	Manufacturing & Supply
Offer			
Products Parts and components, Materials, Tools and moulds	✓	✓	✓
Services & consulting Prototyping, Validation, Simulation		✓	✓
Field of technology			
Design & layout Lightweight construction concepts	✓	✓	✓
Functional integration Media conductivity	✓	✓	✓
Measuring and testing technology Component and part analysis, Visual analysis (e.g. microscopy, metallography), Environmental simulation, Materials analysis	✓	✓	✓
Modelling and simulation Crash behaviour, Loads & stress, Optimisation	✓	✓	✓
<i>Plant construction & automation</i>			
Recycling technologies Recycling	✓	✓	✓

Overview of lightweighting expertise

	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing Deposition welding		✓	
Coating (surface engineering) Painting		✓	✓
<i>Fibre composite technology</i>			
<i>Forming</i>			
Joining Adhesive bonding, Riveting, Screwing, Welding			✓
Material property alteration Heat treatment	✓	✓	✓
Primary forming Casting	✓	✓	✓
Processing and separating Milling			✓
<i>Textile technology</i>			

Overview of lightweighting expertise

	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	✓	✓	✓
Plastics			
Thermoset plastics	✓		
<i>Structural ceramics</i>			
<i>(Technical) textiles</i>			

Contacts

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