

Schaeffler Technologies AG & Co. KG

About this organisation

Machine translation

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

The Schaeffler Group is a leading global automotive and industrial supplier. Under the motto "We pioneer motion", the family-owned company produces pioneering solutions for CO₂-efficient drives as well as rolling and plain bearings for a wide range of industrial applications. Innovative technologies, products and services from Schaeffler make motion and mobility more efficient, intelligent and sustainable.

To reduce the carbon footprint of Schaeffler products, solutions for the efficient use of materials and energy in production through to materials for products and lightweight construction are being developed in the field of materials and surface science. A relatively new discipline, lightweight robotics, is focussing on the manufacturing industry's ongoing demand for even greater productivity, flexibility, availability and process reliability. Schaeffler has set itself the goal of becoming a major partner for lightweight robotics in just a few years - with solutions for spherical plain bearings, gearboxes and motors. The Schaeffler lightweight differential is a solution that combines low weight and cost efficiency with increased installation space. The move away from the conventional design of bevel gear differentials to spur gear differentials opens up the possibility of incorporating innovative design approaches and modern manufacturing technologies.

Industriestraße 1-3
91074 Herzogenaurach
Bavaria
Germany
www.schaeffler.de

SCHAEFFLER

Organisation type

Large enterprises

Sectors



Employees

500 and more

Turnover

More than €50m

Funding

Schaeffler Technologies AG & Co. KG

About this organisation

Main areas covered

Lightweight construction through topology optimisation, Plastic-metal hybrid construction, Fibre composite lightweight construction, Functional lightweight construction

Infrastructure

Certifications

Keywords

Memberships

Overview of lightweighting expertise

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Research Development Manufacturing & Supply

Offer

Products

Services & consulting

Overview of lightweighting expertise

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

Overview of lightweighting expertise

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Research Development **Manufacturing
& Supply**

Manufacturing process

Additive manufacturing

Coating (surface engineering)

Fibre composite technology

Forming

Joining

Material property alteration

Primary forming

Processing and separating

Textile technology

Material

Biogenic materials

Cellular materials (foam materials)

Composites

Fibres

Functional materials

Metals

Plastics

Structural ceramics

(Technical) textiles

Contacts

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