

# 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 CO<sub>2</sub>-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.

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91074 Herzogenaurach  
Bavaria  
Germany  
[www.schaeffler.de](http://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

**Machine translation**

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**Research   Development   Manufacturing & Supply**

**Offer**

*Products*

*Services & consulting*

## Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
<b>Field of technology</b>			
<b>Design &amp; layout</b> Lightweight manufacturing, Lightweight construction concepts	✓	✓	✓
<b>Functional integration</b> Actuator technology, Sensor technology	✓	✓	✓
<b>Measuring and testing technology</b> Component and part analysis, Visual analysis (e.g. microscopy, metallography), System analysis, Materials analysis, Destructive analysis, Non-destructive analysis	✓	✓	✓
<b>Modelling and simulation</b> Loads & stress, Life-cycle analysis, Optimisation, Processes, Structural mechanics, Materials	✓	✓	✓
<b>Plant construction &amp; automation</b> 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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This organisation has been machine-translated based on data provided in German.

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