

Automotive Industry

Pioneer in Production and Application

Cruising around? Not with us: we step on the gas! A component from Saxony-Anhalt is in every car built in Germany. Specialists who supply VW, Daimler, BMW, Opel, Porsche and all major original equipment manufacturers (OEMs) with components have settled here in the competence centre for the automotive supply industry. Their ideas are our fuel.

Heartland of Suppliers

A total of 260 supply industry companies are already benefiting from Saxony-Anhalt's logistically optimal location in Germany and Europe: a maximum 150 kilometres lie between them and the OEMs. By now, more than 23,000 specialists work in special fields such as drive technology, lightweight construction or e-mobility. IFA Group in Haldensleben is the largest supplier and European market leader in the field of longitudinal shafts.

An efficient centre for industry-related research and development has been created here with the Institute for Competence in AutoMobility (IKAM). Moreover, the "Cluster MAHREG Automotive" takes care of the close interconnection between industry and science.

Facts

- Around 260 companies with over 23,000 employees
- Leading position in competency cluster "Aluminium – alloy development and innovative casting methods" within the ACOD (Automotive Cluster of Eastern Germany)

Core competencies:

- Light metal casting
- Engineering services
- Powder metallurgy
- High performance composites
- Custom machines

Advantages

- Efficient processes due to proximity of large automobile manufacturers
- Central location in Germany and Europe
- OEM Plants (Original Equipment Manufacturer) such as VW, Daimler, BMW, Opel and Porsche are less than 150 km away
- Optimum conditions for technological companies thanks to the excellent science and research structure
- Cluster management by MAHREG Automotive

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✉ V-Card

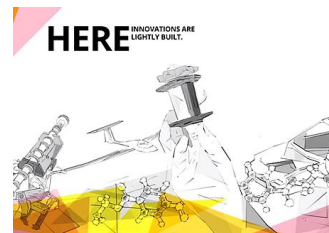
Smart Materials



[see videos](#)



Lightweight Construction



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Short Film

Links



www.mahreg.de

> **Research infrastructure for automobile suppliers**

Otto-von-Guericke-University, Magdeburg Key area of research: Automotive with three pillars:

- Energy conversion and drive systems
- Safety and comfort
- Virtual engineering

Institute for Factory Operation and Automatisation with the Virtual Development and Training Centre (VDTC), Magdeburg

- Virtual engineering for planning, testing and operating technical and logistical systems
- Virtual interactive training
- Sustainable automobile production

Creativity and Competence Centre Harzgerode (CCC) with its own testing space for the metalworking industry

- Aluminium die casting demonstration laboratory with automated die casting cell
- High-quality laboratory equipment for the analysis and evaluation of building components, forms and materials; including a scanning electron microscope, automatic polishing and filing equipment, testing machinery, x-ray equipment, measuring space

Powder Metallurgy Competence Centre for the highly innovative production of metallic iron and non-iron building components; Core competencies

- Metal powder manufacture/material technology
- Sintering components and process
- Metal injection moulding (MIM)
- Sintering and surface technology
- Welding wire production/thermal spraying

“InnComposites” – Fibre Composites Innovation Centre, Haldensleben

- Fibre composites engineering
- Production and analysis of composite profiles and components, as well as other materials
- Close cooperation with growth centre ALFA – Allianz Faserverbunde (fibre composite alliance) – tailor-made composite products for mass markets – Haldensleben

Fraunhofer Institute for Mechanics of Materials IWM, Halle (Saale)

- Material and building component characterisation
- Material modelling and simulation
- Interface and surface technology

Under Construction: Institute for Competence in Automobility (IKAM) in Magdeburg-Barleben

This research institute, established by the state, the Otto-von-Guericke University in Magdeburg and business representatives, is intended to bring together all phases of innovation under one roof through close cooperation between business and science: from basic research and application-based processing of new insights to industrial research.

Key topics of research and development

- Lightweight construction– technologies for lightweight, precision vehicle components
- Material development – technologies for high-performance materials including the development of new composite materials and the further development of aluminium materials
- Development and testing of modern drive systems
- Electromobility, electric drive and storage technologies

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We Head The Field In Automotive Innovation. Time To Get On Board. - Automotive Industry in Saxony-Anhalt

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Electric Mobility and Lightweight Construction

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Success Stories



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Research and Development

Otto-von-Guericke-University Magdeburg
Martin- Luther- University Halle-Wittenberg
Anhalt University of Applied Sciences
Magdeburg-Stendal University of Applied Sciences
Harz University of Applied Sciences
Merseburg University of Applied Sciences
Max Planck Institute of Microstructure Physics Halle
Max Planck Institute for Dynamics of Complex Technical Systems Magdeburg
Fraunhofer Institute for Mechanics of Materials IWM Halle (IWM)
Fraunhofer Institute for Factory Operation and Automation IFF Magdeburg

Industry-Network

MAHREG Automotive - In the MAHREG automotive network, founded in 1999 as a network of excellence for the industry, service providers, equipment suppliers, research institutes and universities cooperate. The number of members has grown from seven at the beginning to around 70 today. The network is in regular contact with another hundred partners.

Particular Innovative Potential

Creativitäts- und Kompetenz-Centrum für Aluminium-Druckguss Harzgerode (CCC)
Produktentwicklungs-Innovationszentrum (PIZ) IF Rota

More

Verband der Metall- und Elektroindustrie Sachsen-Anhalt e.V.
Landesverband Metall-, Elektroindustrie und industrienahe Dienstleistungen Sachsen-Anhalt e. V.

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Top Automotive Business Cluster

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