



E-Mobility | Filtration

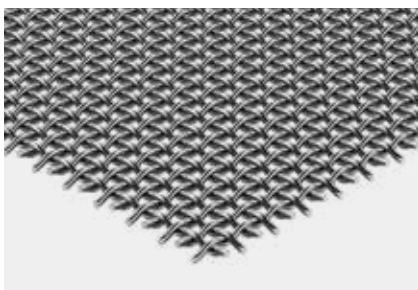
OIL FILTERS FOR E-AXLE SYSTEMS

Component protection with no loss of performance

Three become one – this is perhaps the best way to explain the principle of the e-axle (also known as an e-axle system). While electric motors relied on three components for many years, the e-axle combines an electric motor, transmission, and power electronics in a single compact element. This not only saves a great deal of space, but also reduces weight and increases the efficiency of battery electrical vehicles.

In order to protect the high-performance system, it is lubricated and cooled by an integrated oil circuit, which also employs a design that is as compact and efficient as the overall system. The oil filter from GKD was developed especially for e-axles and guarantees optimum protection for all components. Due to the effective filtration and minimal differential pressure, the filter operates extremely efficiently and facilitates maximum power output of the electric drive.

Benefits of the filter:



- ◆ Functional integration into the oil pump or oil tank
- ◆ Increased drive system performance
- ◆ Operating temperatures from -30 °C to +130 °C
- ◆ Designed to minimize pressure loss
- ◆ Ability to precisely define mesh characteristics
- ◆ Easy to process
- ◆ Reliable throughout the entire lifecycle
- ◆ Budget-optimized and energy-optimized for economical and sustainable filtration
- ◆ Customer-specific, scalable, and adaptable solutions
- ◆ Single-source supplier from development to series production

Why GKD?

Highest quality

GKD is the global technology leader for state-of-the-art industrial weave and filtration solutions produced from metal or synthetic wires and technical fibers – for all industrial application areas. The highest standards are achieved through innovative weaving technology and production equipment. IATF and ISO certifications ensure that customers can rely on certified quality.

Available worldwide

With more than 900 employees around the world, GKD Group has an international presence. GKD produces materials in Germany, the United States, Chile, South Africa, India, and China. This broad-based network safeguards supply availability, even in times of uncertainty.

In small and large volumes

State-of-the-art looms on four continents guarantee scalable production capacity for even the largest quantities.

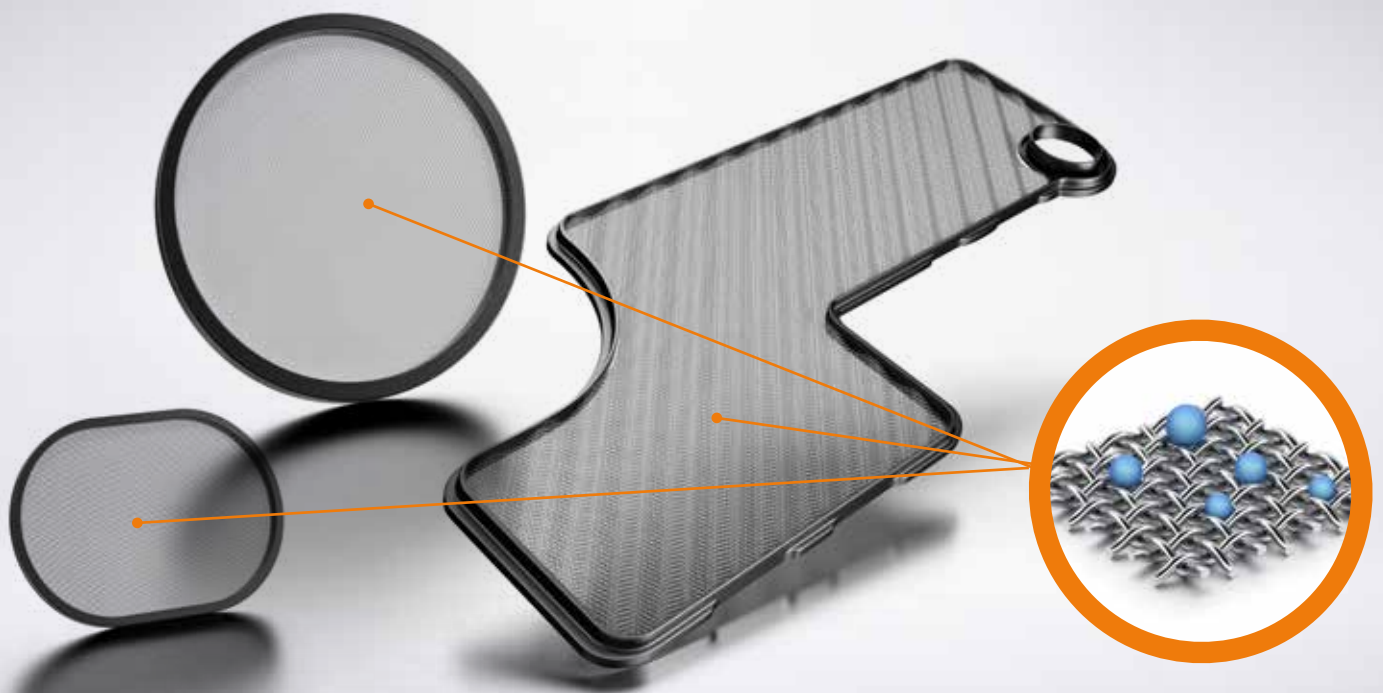
Responsibility and sustainability

GKD strives to make a key contribution to securing a healthier, cleaner, and safer world with its solutions.

Technological development in dialog with the automotive industry

Production and development for the automotive sector go hand in hand at GKD. Our specialists work closely with production on a cross-departmental basis and always stay up to date with the latest developments in the automotive market, so that we can fully meet our customers' requirements. A simulation environment

facilitates development of tailor-made meshes, supported by fast feasibility checks and prototype construction. High-tech looms and computer-aided quality assurance systems guarantee fault-free premium quality and seamless traceability.



Your local experts

We always have your individual requirements in mind. Our experts analyze the demands relating to both the material and type of application, while also optimizing processes and services.

Your contact person will be happy to provide you with information.



Dirk Leibel
Key Market Manager Mobility
dirk.leibel@gkd-group.com
T +49 2421 803 203
M +49 151 146 516 88

GKD – Gebr. Kufferath AG
Technical weavers for
industry and architecture

Metallweberstr. 46
52353 Düren
Germany

[gkd-group.com](https://www.gkd-group.com)