FUCHS LUBRICANTS offers complete solutions for the die casting industry

**11 February 2025:** Die casting is a manufacturing process that involves injecting molten metal into a mould to produce complex, high-precision components. This technique is essential for creating lightweight and durable parts in the automotive industry, contributing to vehicle efficiency and performance. [FUCHS LUBRICANTS SOUTH AFRICA](http://www.fuchs.com/za) addresses the evolving demands of the die casting sector through continuous product innovation and development, highlights **Ashleigh Pollen**, Industrial & Speciality Manager.

The global die casting market is projected to grow from $82.86 billion in 2024 to $112.14 billion by 2029, at a compound annual growth rate (CAGR) of 6.24%. The automotive parts die casting segment is expected to reach $46.13 billion in 2024 and grow at a CAGR of over 6.19% to USD 62.28 billion by 2029. [[1](https://www.mordorintelligence.com/industry-reports/die-casting-market?utm_source=chatgpt.com)]

Key drivers include a demand for lightweight vehicles as stringent fuel efficiency standards and emission regulations push automakers to adopt lightweight materials such as aluminium, to reduce vehicle weight. Die casting facilitates the production of these lightweight components. The rise in EV manufacturing has also increased the demand for die-cast parts, as these vehicles require complex, high-precision components that can be efficiently produced through die casting.

A range of products is available under the LUBRODAL brand, covering every stage of the die casting process. Ladle coatings protect ladles from molten metal, plunger lubricants ensure smooth operation of plungers, and release agents facilitates easy removal of cast parts from moulds. Additional products include assembly pastes, ejector lubricants, and anti-soldering pastes.

LUBRODAL AL 75 features high thermal stability, excellent lubricating properties, is water miscible, and easy to mix and apply. Benefits include consistent performance under high temperatures and smooth operation and reduced wear.

LUBRODAL AL 100 is a stable emulsion concentrate with high thermal stability, excellent wetting properties, and no build-up of residues. It provides effective lubrication for moulds in pressure die casting of aluminium, zinc, and other non-ferrous metals.

LUBRODAL AL 125 is water-miscible with solid lubricants and provides high thermal stability for reliable performance in demanding conditions. “These products are designed to meet the rigorous demands of the die casting industry,” notes Ashleigh.

“We focus on continuous development of new formulations to meet evolving industry needs,” says Ashleigh. FUCHS promotes Environmentally Acceptable Lubricants (EALs) and has biodegradable lubricants designed to meet regulatory requirements for applications in sensitive ecological environments. “These factors make FUCHS a preferred choice in the die casting industry,” says Ashleigh.

The LUBRADOL range can withstand the high temperatures and pressures typical in die casting, ensuring durability and reliability and reducing defects such as porosity and surface imperfections. Other challenges faced by the industry are dimensional Inaccuracies, as thermal expansion and mould wear result in inaccuracies. Performance and cost need to be balanced amidst raw material price fluctuations, while there is increased pressure from global competition and demand for high-quality, low-cost products.

FUCHS provides extensive technical support and training programmes to assist customers optimise the use of their products, including addressing the skilled labour shortage by equipping workers with the necessary knowledge and expertise. “Our innovative products are designed to enhance efficiency and reduce downtime,” says Ashleigh. By focusing on these areas, FUCHS ensures that their product innovations meet the evolving demands of the die casting sector, helping manufacturers stay competitive and compliant with industry standards.

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**About FUCHS**  
FUCHS develops, produces, and markets high-grade lubricants and related specialties for virtually all industries Founded in 1931 as a family business in Mannheim, FUCHS is now the world's largest independent supplier of innovative lubricant solutions, covering almost every industry and application. Today, the company’s 6 000 employees in over 50 countries still share the same goal: To keep the world moving both sustainably and efficiently.

To live up to this claim, we think in terms of perfection, not merely standards. When developing individual solutions, we enter into an intensive customer dialogue – acting as an experienced consultant, innovative problem solver and reliable team partner. The results we provide meet not only the highest technological requirements, but also help customers save on operating costs and emissions. Because at FUCHS, sustainability is not simply an empty phrase, but a mindset – and thus the basis and aspiration of all our business activity.

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