

Germany Automotive Parts Aluminium Die Casting Market Report and Forecast 2024-2032

Market Report | 2024-07-18 | 207 pages | EMR Inc.

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Report description:

Germany Automotive Parts Aluminium Die Casting Market and Forecast 2024-2032

Market Outlook

According to the report by Expert Market Research (EMR), the Germany automotive parts aluminium die casting market size reached approximately USD 1.37 billion in 2023. Aided by the increasing demand for lightweight and fuel-efficient vehicles and the growing applications of aluminium die casting in various automotive components, the market is projected to grow at a CAGR of 5.50% between 2024 and 2032, reaching a value of around USD 2.23 billion by 2032.

Aluminium die casting is a manufacturing process where molten aluminium is injected into a mould cavity under high pressure. This process is widely used in the automotive sector to produce intricate and complex parts with high precision and durability. The use of aluminium die casting in automotive parts not only reduces the weight of the vehicle but also enhances fuel efficiency and performance.

The growing automotive sector in Germany is a primary driver of the Germany automotive parts aluminium die casting market growth. As one of the leading automobile manufacturers in the world, Germany is home to numerous automotive giants and a robust automotive supply chain. The increasing production of vehicles, coupled with the rising demand for high-quality automotive components, is driving the demand for aluminium die casting in the automotive sector.

Additionally, the increasing consumer preference for lightweight and fuel-efficient vehicles is propelling the Germany automotive parts aluminium die casting market expansion. The use of aluminium die casting in automotive parts significantly reduces the weight of the vehicle, leading to improved fuel efficiency and reduced emissions. This trend is particularly noticeable in the electric vehicle segment, where the emphasis on lightweight components is crucial for enhancing the range and performance of electric vehicles.

The expanding applications of aluminium die casting in various automotive components also play a significant role in propelling the Germany automotive parts aluminium die casting market. Aluminium die casting is used in the production of engine blocks,

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transmission housings, cylinder heads, and other critical automotive parts. The high strength-to-weight ratio, excellent thermal conductivity, and corrosion resistance of aluminium make it an ideal material for these applications.

Technological advancements and the integration of innovative solutions in aluminium die casting processes are contributing to the Germany automotive parts aluminium die casting market development. The use of advanced simulation software, automated casting systems, and high-precision machining techniques enhances the quality and efficiency of aluminium die casting. These innovations are driving the demand for high-performance and reliable aluminium die cast automotive parts in Germany.

Pressure die casting is the most commonly used production process, offering high precision and repeatability. This process is widely used for producing complex and intricate automotive parts with excellent dimensional accuracy and surface finish.

As per the Germany automotive parts aluminium die casting market analysis, gravity die casting involves pouring molten aluminium into a mould under the force of gravity. This process is suitable for producing large and simple automotive parts with high structural integrity and strength.

The engine parts segment holds a significant share of the market, driven by the increasing demand for lightweight and high-performance engine components. Aluminium die casting is extensively used in the production of engine blocks, cylinder heads, and pistons.

The transmission parts segment is expected to witness substantial growth during the forecast period, owing to the rising demand for efficient and durable transmission components. Aluminium die casting is used in the production of transmission housings and gearboxes.

The body parts segment is also anticipated to grow significantly, supported by the increasing focus on reducing vehicle weight. Aluminium die casting is used in the production of body panels, frames, and structural components.

Market Segmentation

The Germany automotive parts aluminium die casting market can be divided based on the production and application.

Market Breakup by Production

- Pressure Die Casting
- Vacuum Die Casting
- Squeeze Die Casting
- Semi-Solid Die Casting

Market Breakup by Application

- Body Parts
- Engine Parts
- Transmission Parts
- Others

Competitive Landscape

The EMR report looks into the market shares, plant turnarounds, capacities, investments, and mergers and acquisitions, among other major developments, of the leading companies operating in the Germany automotive parts aluminium die casting market. Some of the major players explored in the report by Expert Market Research are as follows:

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- Druckguss Westfalen GmbH & Co.KG
- KSM Castings Group GmbH
- Albert Handtmann Metallgusswerk GmbH & Co. KG
- Protocast
- Eisenmann Druckguss GmbH
- Laukotter GmbH
- Peter Mies GmbH (Miguss)
- Endurance Technologies Limited
- Others

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