

## **Brazil Automotive Parts Aluminum Die Casting - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts 2019 - 2029**

Market Report | 2024-02-17 | 80 pages | Mordor Intelligence

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### **Report description:**

The Brazil automotive parts aluminum die casting is valued at USD 1.12 billion in the current year and is anticipated to grow to USD 4.64 billion by the next five years, registering a CAGR of 5.93% in terms of revenue during the forecast period.

Brazil includes an aluminum consumption of 8.6 Kg per capita, while the world average is 11 kg. Brazil ranks 14th on the list for aluminum production across the world. With the increasing pollution levels around the world, carmakers are looking for lightweight components to reduce fuel consumption and curb the emission of harmful pollutants into the atmosphere. Aluminum provides weight savings of up to 50% compared to the traditional mild steel structure.

Aluminum contains equal or more superior strength and absorbs twice crash-induced energy. Lowering the vehicle weight will allow a downsizing engine, transmission, suspension, and wheels. OEMs are trying to reduce the weight of automobiles by employing lightweight, non-ferrous metals to meet the emissions regulations and policies. Using aluminum die-casting parts is adapted as the main strategy. Aluminium is a sustainable and resource-efficient material. It can be recycled, and the world average remains 45%. Aluminum pressure parts are later used in the recycling process to form aluminum alloys with very large applications.

Brazil Automotive Parts Aluminum Die Casting Market Trends

Rising Demand for Pressure Die Casting in Automobiles

The pressure die casting segment includes a significant presence in the Brazilian automotive parts aluminum diecasting market. Pressure die casting is a widely adopted manufacturing process for producing high-quality aluminum parts used in the automotive

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industry.

Pressure die casting involves injecting molten aluminum alloy into a steel die under high pressure, resulting in the formation of complex and intricately shaped automotive parts with tight tolerances. This process offers several advantages that make it a preferred choice for the production of automotive components in Brazil.

Pressure die casting offers cost-effective production for high-volume runs. The process minimizes material waste and requires fewer secondary operations such as machining or assembly, reducing overall manufacturing costs. Pressure die casting can produce parts with excellent surface finishes, reducing the need for additional finishing processes. It is crucial for automotive components that require a smooth and visually appealing appearance.

Aluminum's natural corrosion resistance and thermal conductivity make it well-suited for automotive applications. It can handle a wide range of temperatures and weather conditions, ensuring the longevity and reliability of components.

#### Aluminium Components Decreasing Emissions in Vehicles

Aluminium is a widely favored metal in the production of automotive components. Its dimensional stability makes it a prime selection for thin-walled machine parts. Aluminum die casting is favored for its lightweight properties. As automakers strive to meet stringent fuel efficiency and emission standards, reducing vehicle weight is essential. Aluminum's low density and high strength-to-weight ratio make it an ideal material for lightweighting, improving vehicle fuel efficiency and overall performance.

Aluminum die casting allows for complex and intricate designs, which are increasingly important in modern automotive styling and aerodynamics. Designers can create components with intricate shapes and fine details, enhancing vehicle performance. Lightweight components contribute to improved fuel efficiency and reduced carbon emissions. Aluminum die-cast parts such as engine components and structural elements help automakers achieve these goals.

A number of countries are implementing emission standards, and OEMs worldwide are expected to explore new technologies that help in reducing emissions in automobiles. Freight companies and fleet owners are extensively moving toward technologies that are expected to reduce the average emission rate.

#### Brazil Automotive Parts Aluminum Die Casting Industry Overview

The Brazil automotive parts aluminum die casting market is both consolidated and fragmented. A few major players in the market are Dynacast, Endurance Technologies, SYX die casting, Sunbeam Auto Pvt. Ltd., and Sandhar Group, among others.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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