

Global Automotive Parts Aluminum Die Casting Market Segmented By Production Process (Pressure Die Casting, Vacuum Die Casting, Squeeze Die Casting, and Gravity Die Casting), By Application Type (Body Parts, Engine Parts, Transmission Parts, Battery and Related Components, and Other Application Types), By Regional, Competition Forecast & Opportunities, 2018-2028F

<https://marketpublishers.com/r/GBE382476308EN.html>

Date: October 2023

Pages: 173

Price: US\$ 4,900.00 (Single User License)

ID: GBE382476308EN

Abstracts

The Global Automotive Parts Aluminum Die Casting Market achieved a size of USD 22.71 billion in 2022 and is projected to reach USD 32.68 billion by 2028. This market stands as a pivotal pillar within modern automotive manufacturing, playing a vital role in producing diverse components that contribute to vehicle performance, efficiency, and safety. The prominence of aluminum die casting technology has surged due to its capacity to produce intricate, lightweight, and high-quality parts that cater to the automotive industry's requirements for enhanced fuel economy, rigorous emissions standards, and innovative design.

The driving force behind the market's expansion lies in the persistent emphasis on lightweighting. As global governments tighten emissions regulations and consumer preferences shift towards more fuel-efficient automobiles, automakers are compelled to reduce vehicle weight without compromising structural integrity. Aluminum, with its advantageous combination of durability, strength, and low density, has become a premier choice for die-cast components. Integrating aluminum die-cast parts into various aspects of vehicles enables manufacturers to achieve significant weight reduction, thereby enhancing fuel efficiency and reducing emissions. The surge in

demand for aluminum die casting in the automotive sector is further accelerated by the push towards electric mobility. Electric vehicles (EVs) require lightweight materials to counterbalance the added weight of batteries and electric powertrains. Aluminum's lightweight properties harmonize seamlessly with the goal of optimizing battery efficiency, extending driving range, and enhancing overall vehicle performance. This demand surge has led to a notable rise in the production of aluminum die-cast parts for EVs, encompassing critical elements such as chassis components, battery housings, and structural parts.

Technological advancements have played a pivotal role in propelling the market's growth trajectory. High-pressure die casting techniques, coupled with cutting-edge simulation and modeling tools, have elevated the precision and efficiency of the manufacturing process. Consequently, components meeting stringent automotive quality standards are produced, which are devoid of defects and exhibit the complexity necessary to fulfill contemporary vehicle requirements. These advancements empower manufacturers to produce high-performance parts at a competitive cost, effectively addressing the automotive industry's need for both quality and efficiency.

Sustainability and recyclability are also crucial in shaping the market's trajectory. Aluminum's inherent recyclability aligns perfectly with the automotive sector's commitment to eco-friendly practices and resource conservation. The incorporation of aluminum die-cast components not only assists in meeting emission targets but also resonates with automakers' endeavors to diminish their environmental impact and appeal to environmentally conscious consumers.

The global automotive parts aluminum die casting market emerges as a driving force in modern automotive engineering, underpinned by lightweighting, electrification, technological innovation, and sustainability. As automakers grapple with emission regulations, fuel efficiency, and innovation challenges, the integration of aluminum die-cast components stands as a strategic pathway to achieving enhanced vehicle performance, reduced emissions, and a more sustainable future for the automotive industry.

Key Market Drivers

Lightweighting for Fuel Efficiency and Emissions Reduction:

A primary driver for the aluminum die casting market is the automotive industry's relentless pursuit of lightweighting. Tighter emissions regulations and the imperative of

improving fuel efficiency have driven automakers to explore inventive methods of reducing vehicle weight. Aluminum's unique combination of low density and high strength positions it as a favored material for die-cast components. By incorporating lightweight aluminum parts into crucial areas of vehicles, manufacturers achieve significant weight reduction, translating into improved fuel economy and diminished emissions. This driver gains particular significance as the industry grapples with global endeavors to mitigate climate change and reduce vehicle carbon footprints.

Electric Vehicle (EV) Revolution and Lightweighting:

The surge in the electric vehicle market is catalyzing a transformative trend in the aluminum die casting sector. As automakers pivot towards electric mobility, the demand for lightweight components has surged. Aluminum's outstanding weight-to-strength ratio makes it an optimal choice for fabricating components that address EVs' imperative for weight reduction, thereby boosting battery efficiency and extending driving range. This trend is reshaping the landscape of the automotive parts aluminum die casting market as manufacturers prioritize the production of lightweight, energy-efficient components tailored to the requirements of EV propulsion systems.

Integration of Advanced Alloys:

The industry is witnessing a trend towards the incorporation of sophisticated aluminum alloys in die casting processes. These alloys are engineered to offer enhanced mechanical properties, such as increased strength and superior heat resistance, while retaining aluminum's lightweight advantage. By harnessing these advanced alloys, manufacturers can produce components that fulfill the industry's demands for performance, safety, and durability, while also addressing challenges associated with material properties and strength. This trend signifies a shift towards innovative material science that aligns with evolving automotive requirements.

Sustainable Manufacturing and Circular Economy:

The global focus on sustainability has spurred a significant trend in the automotive parts aluminum die casting market – the embrace of sustainable manufacturing practices and the principles of the circular economy. With mounting pressure to reduce environmental impact, manufacturers are exploring strategies to optimize energy consumption, curtail waste, and enhance recycling processes. Recyclability remains a pivotal factor, as aluminum's innate recyclability contributes to a more sustainable end-of-life process for vehicles. The trend towards sustainable manufacturing resonates with both regulatory

mandates and consumer preferences for environmentally friendly products.

Segmental Insights

Production Process Segment:

The market's segmentation based on the production process includes pressure die casting, vacuum die casting, squeeze die casting, and gravity die casting. These processes define the techniques employed in manufacturing aluminum die-cast components, each offering distinct advantages in terms of precision, efficiency, and application suitability.

Application Type Segment:

The application type segment encompasses body parts, engine parts, gearbox parts, battery and related components, and other application types. These categories represent the diverse range of components where aluminum die casting is employed within the automotive industry. From critical structural elements to powertrain components, aluminum die casting plays a pivotal role in enhancing vehicle performance, efficiency, and safety.

Geographic Region Segment:

The geographic segmentation provides insights into the regional dynamics of the market. North America, Europe, Asia-Pacific, Latin America, and the Middle East and Africa each contribute to the market's growth and evolution in unique ways. Regional trends, regulatory frameworks, economic factors, and automotive industry dynamics shape the demand for aluminum die-cast components within each geographic region.

In conclusion, the Global Automotive Parts Aluminum Die Casting Market is a dynamic arena driven by lightweighting, electrification, innovation, and sustainability. As the automotive landscape evolves, manufacturers and industry stakeholders must navigate challenges and seize opportunities to ensure the continued growth and success of this crucial market segment.

Key Market Players

Form Technologies Inc.(Dynacast)

Nemak

Endurance Technologies Ltd (CN)

Sundaram Clayton Ltd

Shiloh Industries Inc.

Georg Fischer Limited

Kochi Enterprises (Gibbs Die Casting Corporation)

Bocar Group

Engtek Group

Rheinmetall AG.

Report Scope:

In this report, the Global Automotive Parts Aluminum Die Casting Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Automotive Parts Aluminum Die Casting Market By Production Process:

Pressure Die Casting

Vacuum Die Casting

Squeeze Die Casting

Gravity Die Casting

Automotive Parts Aluminum Die Casting Market, By Application:

Body Parts

Engine Parts

Transmission Parts

Battery and Related Components

Other Applications

Automotive Parts Aluminum Die Casting Market, By Region:

North America

United States

Canada

Mexico

Europe & CIS

France

United Kingdom

Italy

Germany

Spain

Russia

Belgium

Asia-Pacific

China

India

Japan

Indonesia

Thailand

South Korea

Australia

South America

Brazil

Argentina

Colombia

Middle East & Africa

Saudi Arabia

UAE

Turkey

Egypt

Iran

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Automotive Parts Aluminum Die Casting Market.

Available Customizations:

Global Automotive Parts Aluminum Die Casting Market report with the given market

Global Automotive Parts Aluminum Die Casting Market Segmented By Production Process (Pressure Die Casting, Vac...

data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

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