

Automotive Parts Magnesium Die Casting Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Production Process (Pressure Die Casting, Vacuum Die Casting, Squeeze Die Casting, and Gravity Die Casting), By Application (Body Parts, Engine Parts, Transmission Parts, and Other Applications), By Region & Competition, 2021-2031F

<https://marketpublishers.com/r/AB533E5B99EDEN.html>

Date: January 2026

Pages: 185

Price: US\$ 4,500.00 (Single User License)

ID: AB533E5B99EDEN

Abstracts

The Global Automotive Parts Magnesium Die Casting Market will grow from USD 5.82 Billion in 2025 to USD 8.85 Billion by 2031 at a 7.24% CAGR. Automotive parts magnesium die casting is a precision manufacturing process involving the injection of molten magnesium alloys into reusable steel molds to create highly durable and extremely lightweight vehicle components.

Key Market Drivers

Accelerating Adoption of Electric and Hybrid Vehicles serves as the foremost catalyst propelling the Global Automotive Parts Magnesium Die Casting Market. As manufacturers strive to offset the substantial mass of battery packs, magnesium's superior strength-to-weight ratio becomes indispensable for extending driving range without compromising structural integrity. This demand for extreme lightweighting has shifted magnesium from a niche material to a core element in powertrain and structural components, encouraging Tier 1 suppliers to expand their specialized production capacities.

Key Market Challenges

Galvanic corrosion represents a substantial technical obstacle restricting the scalability of the global automotive parts magnesium die casting market. Magnesium possesses a high electrochemical potential, causing it to degrade rapidly when coupled with dissimilar metals like steel or aluminum in the presence of electrolytes. This inherent characteristic compels manufacturers to implement rigorous isolation techniques and apply advanced protective coatings, introducing significant complexity to the vehicle assembly process. The requirement for these additional processing steps directly increases unit costs, often negating the value proposition of weight reduction for cost-sensitive economy vehicle platforms.

Key Market Trends

The Implementation of Large-Scale Integrated Gigacasting Techniques is fundamentally restructuring the competitive landscape by necessitating significant capital consolidation among suppliers to support the deployment of massive die-casting cells. Unlike the technical validation of larger components, the current market phase is defined by the financial imperative to acquire the specialized infrastructure required for these megacastings, driving a wave of strategic mergers and acquisitions. This consolidation is exemplified by major cross-border transactions aimed at securing high-tonnage casting assets.

Key Market Players

Chicago White Metal Casting Inc.

Sandhar Group

Georg Fischer AG

Gibbs Die Casting Group

Magic Precision Ltd.

Meridian Lightweight Technologies Inc.

Morimura Bros Ltd.

Tadir-Gan Group

Pace Industries

Shiloh Industries Inc.

Report Scope:

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

Automotive Parts Magnesium Die Casting Market, By Production Process:

Pressure Die Casting

Vacuum Die Casting

Squeeze Die Casting

Gravity Die Casting

Automotive Parts Magnesium Die Casting Market, By Application:

Body Parts

Engine Parts

Transmission Parts

Other Applications

Automotive Parts Magnesium Die Casting Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

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

Available Customizations:

Global Automotive Parts Magnesium Die Casting Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

4. VOICE OF CUSTOMER

5. GLOBAL AUTOMOTIVE PARTS MAGNESIUM DIE CASTING MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Production Process (Pressure Die Casting, Vacuum Die Casting, Squeeze Die Casting, Gravity Die Casting)
 - 5.2.2. By Application (Body Parts, Engine Parts, Transmission Parts, Other

Applications)

5.2.3. By Region

5.2.4. By Company (2025)

5.3. Market Map

6. NORTH AMERICA AUTOMOTIVE PARTS MAGNESIUM DIE CASTING MARKET OUTLOOK

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Production Process

6.2.2. By Application

6.2.3. By Country

6.3. North America: Country Analysis

6.3.1. United States Automotive Parts Magnesium Die Casting Market Outlook

6.3.1.1. Market Size & Forecast

6.3.1.1.1. By Value

6.3.1.2. Market Share & Forecast

6.3.1.2.1. By Production Process

6.3.1.2.2. By Application

6.3.2. Canada Automotive Parts Magnesium Die Casting Market Outlook

6.3.2.1. Market Size & Forecast

6.3.2.1.1. By Value

6.3.2.2. Market Share & Forecast

6.3.2.2.1. By Production Process

6.3.2.2.2. By Application

6.3.3. Mexico Automotive Parts Magnesium Die Casting Market Outlook

6.3.3.1. Market Size & Forecast

6.3.3.1.1. By Value

6.3.3.2. Market Share & Forecast

6.3.3.2.1. By Production Process

6.3.3.2.2. By Application

7. EUROPE AUTOMOTIVE PARTS MAGNESIUM DIE CASTING MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Production Process

7.2.2. By Application

7.2.3. By Country

7.3. Europe: Country Analysis

7.3.1. Germany Automotive Parts Magnesium Die Casting Market Outlook

7.3.1.1. Market Size & Forecast

7.3.1.1.1. By Value

7.3.1.2. Market Share & Forecast

7.3.1.2.1. By Production Process

7.3.1.2.2. By Application

7.3.2. France Automotive Parts Magnesium Die Casting Market Outlook

7.3.2.1. Market Size & Forecast

7.3.2.1.1. By Value

7.3.2.2. Market Share & Forecast

7.3.2.2.1. By Production Process

7.3.2.2.2. By Application

7.3.3. United Kingdom Automotive Parts Magnesium Die Casting Market Outlook

7.3.3.1. Market Size & Forecast

7.3.3.1.1. By Value

7.3.3.2. Market Share & Forecast

7.3.3.2.1. By Production Process

7.3.3.2.2. By Application

7.3.4. Italy Automotive Parts Magnesium Die Casting Market Outlook

7.3.4.1. Market Size & Forecast

7.3.4.1.1. By Value

7.3.4.2. Market Share & Forecast

7.3.4.2.1. By Production Process

7.3.4.2.2. By Application

7.3.5. Spain Automotive Parts Magnesium Die Casting Market Outlook

7.3.5.1. Market Size & Forecast

7.3.5.1.1. By Value

7.3.5.2. Market Share & Forecast

7.3.5.2.1. By Production Process

7.3.5.2.2. By Application

8. ASIA PACIFIC AUTOMOTIVE PARTS MAGNESIUM DIE CASTING MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Production Process
 - 8.2.2. By Application
 - 8.2.3. By Country
- 8.3. Asia Pacific: Country Analysis
 - 8.3.1. China Automotive Parts Magnesium Die Casting Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Production Process
 - 8.3.1.2.2. By Application
 - 8.3.2. India Automotive Parts Magnesium Die Casting Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Production Process
 - 8.3.2.2.2. By Application
 - 8.3.3. Japan Automotive Parts Magnesium Die Casting Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Production Process
 - 8.3.3.2.2. By Application
 - 8.3.4. South Korea Automotive Parts Magnesium Die Casting Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value
 - 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Production Process
 - 8.3.4.2.2. By Application
 - 8.3.5. Australia Automotive Parts Magnesium Die Casting Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Production Process
 - 8.3.5.2.2. By Application

9. MIDDLE EAST & AFRICA AUTOMOTIVE PARTS MAGNESIUM DIE CASTING

MARKET OUTLOOK

9.1. Market Size & Forecast

9.1.1. By Value

9.2. Market Share & Forecast

9.2.1. By Production Process

9.2.2. By Application

9.2.3. By Country

9.3. Middle East & Africa: Country Analysis

9.3.1. Saudi Arabia Automotive Parts Magnesium Die Casting Market Outlook

9.3.1.1. Market Size & Forecast

9.3.1.1.1. By Value

9.3.1.2. Market Share & Forecast

9.3.1.2.1. By Production Process

9.3.1.2.2. By Application

9.3.2. UAE Automotive Parts Magnesium Die Casting Market Outlook

9.3.2.1. Market Size & Forecast

9.3.2.1.1. By Value

9.3.2.2. Market Share & Forecast

9.3.2.2.1. By Production Process

9.3.2.2.2. By Application

9.3.3. South Africa Automotive Parts Magnesium Die Casting Market Outlook

9.3.3.1. Market Size & Forecast

9.3.3.1.1. By Value

9.3.3.2. Market Share & Forecast

9.3.3.2.1. By Production Process

9.3.3.2.2. By Application

10. SOUTH AMERICA AUTOMOTIVE PARTS MAGNESIUM DIE CASTING MARKET OUTLOOK

10.1. Market Size & Forecast

10.1.1. By Value

10.2. Market Share & Forecast

10.2.1. By Production Process

10.2.2. By Application

10.2.3. By Country

10.3. South America: Country Analysis

10.3.1. Brazil Automotive Parts Magnesium Die Casting Market Outlook

- 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
- 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Production Process
 - 10.3.1.2.2. By Application
- 10.3.2. Colombia Automotive Parts Magnesium Die Casting Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Production Process
 - 10.3.2.2.2. By Application
- 10.3.3. Argentina Automotive Parts Magnesium Die Casting Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Production Process
 - 10.3.3.2.2. By Application

11. MARKET DYNAMICS

- 11.1. Drivers
- 11.2. Challenges

12. MARKET TRENDS & DEVELOPMENTS

- 12.1. Merger & Acquisition (If Any)
- 12.2. Product Launches (If Any)
- 12.3. Recent Developments

13. GLOBAL AUTOMOTIVE PARTS MAGNESIUM DIE CASTING MARKET: SWOT ANALYSIS

14. PORTER'S FIVE FORCES ANALYSIS

- 14.1. Competition in the Industry
- 14.2. Potential of New Entrants
- 14.3. Power of Suppliers
- 14.4. Power of Customers
- 14.5. Threat of Substitute Products

15. COMPETITIVE LANDSCAPE

15.1. Chicago White Metal Casting Inc.

15.1.1. Business Overview

15.1.2. Products & Services

15.1.3. Recent Developments

15.1.4. Key Personnel

15.1.5. SWOT Analysis

15.2. Sandhar Group

15.3. Georg Fischer AG

15.4. Gibbs Die Casting Group

15.5. Magic Precision Ltd.

15.6. Meridian Lightweight Technologies Inc.

15.7. Morimura Bros Ltd.

15.8. Tadir-Gan Group

15.9. Pace Industries

15.10. Shiloh Industries Inc.

16. STRATEGIC RECOMMENDATIONS

17. ABOUT US & DISCLAIMER

I would like to order

Product name: Automotive Parts Magnesium Die Casting Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Production Process (Pressure Die Casting, Vacuum Die Casting, Squeeze Die Casting, and Gravity Die Casting), By Application (Body Parts, Engine Parts, Transmission Parts, and Other Applications), By Region & Competition, 2021-2031F

Product link: <https://marketpublishers.com/r/AB533E5B99EDEN.html>

Price: US\$ 4,500.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/AB533E5B99EDEN.html>