

# Automotive Parts Magnesium Die Casting Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

<https://marketpublishers.com/r/A364B914293AEN.html>

Date: March 2023

Pages: 142

Price: US\$ 2,499.00 (Single User License)

ID: A364B914293AEN

## Abstracts

### Market Overview:

The global automotive parts magnesium die casting market size reached US\$ 2.9 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 4.3 Billion by 2028, exhibiting a growth rate (CAGR) of 6.4% during 2023-2028.

Automotive parts die casting represents an economical mechanized metal processing technique, wherein the melted liquid is pressed into a mold under filling speed and high pressure to manufacture various vehicle components. It involves pressure vacuum and squeeze and pressure die casting as standard methodologies, which help discharge mold cavity gas, offer higher tensile strength, and solidify metals. These procedures employ magnesium metal due to its excellent dimensional stability, exceptional dampening capacity, and better corrosion resistance than carbon, steel, and aluminum alloys. Apart from this, automotive parts magnesium die casting ensures the strength-to-weight ratio of structural metals, improves reliability, simplifies designs, minimizes distortion or casting stress, and reduces the effects of thermal fatigue. Based on these properties, it finds extensive applications in the production of engine parts, gearbox, motor covers, auto forks, connectors, and heat sinks.

### Automotive Parts Magnesium Die Casting Market Trends:

The considerable expansion in the automotive industry and the increasing need for lightweight commercial and passenger vehicles, owing to changing consumer preferences, are primarily driving the market growth. Automotive parts magnesium die casting is extensively used to manufacture various car components to enhance

automobile fuel mileage and reduce vehicle weight without compromising their durability. Furthermore, the rising environmental concerns have encouraged governments to implement stringent green norms for mitigating carbon emissions, which, in turn, is supplementing the demand for magnesium and reinforced plastic dies in the market. In line with this, the fueling utilization of the industrial Internet of Things (IIoT) by key players during the automotive parts magnesium die casting procedure to improve manufacturing efficiency and offer a higher productivity rate is impelling the market growth. Apart from this, strategic collaborations amongst original equipment manufacturers (OEMs) to enhance casting methods and escalating awareness regarding the benefits of using magnesium over other alloys are positively augmenting the market growth.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global automotive parts magnesium die casting market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on production process and application.

#### Breakup by Production Process:

- Pressure Die Casting
- Vacuum Die Casting
- Gravity Die Casting
- Squeeze Die Casting

#### Breakup by Application:

- Body Parts
- Engine Parts
- Transmission Parts
- Others

#### Breakup by Region:

- North America
  - United States
  - Canada
- Asia-Pacific

China  
Japan  
India  
South Korea  
Australia  
Indonesia  
Others  
Europe  
Germany  
France  
United Kingdom  
Italy  
Spain  
Russia  
Others  
Latin America  
Brazil  
Mexico  
Others  
Middle East and Africa

#### Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Chicago White Metal Casting Inc., Dynacast International Inc. (Form Technologies Company), Georg Fischer Ltd., Gibbs Die Casting Corporation (Koch Enterprises Inc.), Meridian Lightweight Technologies, Morimura Bros. Inc., Ortal Diecasting Ltd., Pace Industries (Leggett & Platt Incorporated), Ryobi Limited, Sandhar Technologies Limited, Shiloh Industries Inc. and Twin City Die Castings Co.

#### Key Questions Answered in This Report:

How has the global automotive parts magnesium die casting market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global automotive parts magnesium die casting market?

What are the key regional markets?

What is the breakup of the market based on the production process?

What is the breakup of the market based on the application?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global automotive parts magnesium die casting market and who are the key players?

What is the degree of competition in the industry?

## Contents

### **1 PREFACE**

### **2 SCOPE AND METHODOLOGY**

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
  - 2.3.1 Primary Sources
  - 2.3.2 Secondary Sources
- 2.4 Market Estimation
  - 2.4.1 Bottom-Up Approach
  - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

### **3 EXECUTIVE SUMMARY**

### **4 INTRODUCTION**

- 4.1 Overview
- 4.2 Key Industry Trends

### **5 GLOBAL AUTOMOTIVE PARTS MAGNESIUM DIE CASTING MARKET**

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

### **6 MARKET BREAKUP BY PRODUCTION PROCESS**

- 6.1 Pressure Die Casting
  - 6.1.1 Market Trends
  - 6.1.2 Market Forecast
- 6.2 Vacuum Die Casting
  - 6.2.1 Market Trends
  - 6.2.2 Market Forecast
- 6.3 Gravity Die Casting

- 6.3.1 Market Trends
- 6.3.2 Market Forecast
- 6.4 Squeeze Die Casting
  - 6.4.1 Market Trends
  - 6.4.2 Market Forecast

## **7 MARKET BREAKUP BY APPLICATION**

- 7.1 Body Parts
  - 7.1.1 Market Trends
  - 7.1.2 Market Forecast
- 7.2 Engine Parts
  - 7.2.1 Market Trends
  - 7.2.2 Market Forecast
- 7.3 Transmission Parts
  - 7.3.1 Market Trends
  - 7.3.2 Market Forecast
- 7.4 Others
  - 7.4.1 Market Trends
  - 7.4.2 Market Forecast

## **8 MARKET BREAKUP BY REGION**

- 8.1 North America
  - 8.1.1 United States
    - 8.1.1.1 Market Trends
    - 8.1.1.2 Market Forecast
  - 8.1.2 Canada
    - 8.1.2.1 Market Trends
    - 8.1.2.2 Market Forecast
- 8.2 Asia-Pacific
  - 8.2.1 China
    - 8.2.1.1 Market Trends
    - 8.2.1.2 Market Forecast
  - 8.2.2 Japan
    - 8.2.2.1 Market Trends
    - 8.2.2.2 Market Forecast
  - 8.2.3 India
    - 8.2.3.1 Market Trends

- 8.2.3.2 Market Forecast
- 8.2.4 South Korea
  - 8.2.4.1 Market Trends
  - 8.2.4.2 Market Forecast
- 8.2.5 Australia
  - 8.2.5.1 Market Trends
  - 8.2.5.2 Market Forecast
- 8.2.6 Indonesia
  - 8.2.6.1 Market Trends
  - 8.2.6.2 Market Forecast
- 8.2.7 Others
  - 8.2.7.1 Market Trends
  - 8.2.7.2 Market Forecast
- 8.3 Europe
  - 8.3.1 Germany
    - 8.3.1.1 Market Trends
    - 8.3.1.2 Market Forecast
  - 8.3.2 France
    - 8.3.2.1 Market Trends
    - 8.3.2.2 Market Forecast
  - 8.3.3 United Kingdom
    - 8.3.3.1 Market Trends
    - 8.3.3.2 Market Forecast
  - 8.3.4 Italy
    - 8.3.4.1 Market Trends
    - 8.3.4.2 Market Forecast
  - 8.3.5 Spain
    - 8.3.5.1 Market Trends
    - 8.3.5.2 Market Forecast
  - 8.3.6 Russia
    - 8.3.6.1 Market Trends
    - 8.3.6.2 Market Forecast
  - 8.3.7 Others
    - 8.3.7.1 Market Trends
    - 8.3.7.2 Market Forecast
- 8.4 Latin America
  - 8.4.1 Brazil
    - 8.4.1.1 Market Trends
    - 8.4.1.2 Market Forecast

## 8.4.2 Mexico

### 8.4.2.1 Market Trends

### 8.4.2.2 Market Forecast

## 8.4.3 Others

### 8.4.3.1 Market Trends

### 8.4.3.2 Market Forecast

## 8.5 Middle East and Africa

### 8.5.1 Market Trends

### 8.5.2 Market Breakup by Country

### 8.5.3 Market Forecast

## **9 SWOT ANALYSIS**

### 9.1 Overview

### 9.2 Strengths

### 9.3 Weaknesses

### 9.4 Opportunities

### 9.5 Threats

## **10 VALUE CHAIN ANALYSIS**

## **11 PORTERS FIVE FORCES ANALYSIS**

### 11.1 Overview

### 11.2 Bargaining Power of Buyers

### 11.3 Bargaining Power of Suppliers

### 11.4 Degree of Competition

### 11.5 Threat of New Entrants

### 11.6 Threat of Substitutes

## **12 PRICE ANALYSIS**

## **13 COMPETITIVE LANDSCAPE**

### 13.1 Market Structure

### 13.2 Key Players

### 13.3 Profiles of Key Players

#### 13.3.1 Chicago White Metal Casting Inc.

##### 13.3.1.1 Company Overview



- 13.3.1.2 Product Portfolio
- 13.3.2 Dynacast International Inc. (Form Technologies Company)
  - 13.3.2.1 Company Overview
  - 13.3.2.2 Product Portfolio
- 13.3.3 Georg Fischer Ltd.
  - 13.3.3.1 Company Overview
  - 13.3.3.2 Product Portfolio
  - 13.3.3.3 Financials
- 13.3.4 Gibbs Die Casting Corporation (Koch Enterprises Inc.)
  - 13.3.4.1 Company Overview
  - 13.3.4.2 Product Portfolio
- 13.3.5 Meridian Lightweight Technologies
  - 13.3.5.1 Company Overview
  - 13.3.5.2 Product Portfolio
- 13.3.6 Morimura Bros. Inc.
  - 13.3.6.1 Company Overview
  - 13.3.6.2 Product Portfolio
- 13.3.7 Ortal Diecasting Ltd.
  - 13.3.7.1 Company Overview
  - 13.3.7.2 Product Portfolio
- 13.3.8 Pace Industries (Leggett & Platt Incorporated)
  - 13.3.8.1 Company Overview
  - 13.3.8.2 Product Portfolio
- 13.3.9 Ryobi Limited
  - 13.3.9.1 Company Overview
  - 13.3.9.2 Product Portfolio
  - 13.3.9.3 Financials
- 13.3.10 Sandhar Technologies Limited
  - 13.3.10.1 Company Overview
  - 13.3.10.2 Product Portfolio
  - 13.3.10.3 Financials
- 13.3.11 Shiloh Industries Inc.
  - 13.3.11.1 Company Overview
  - 13.3.11.2 Product Portfolio
- 13.3.12 Twin City Die Castings Co.
  - 13.3.12.1 Company Overview
  - 13.3.12.2 Product Portfolio

## List Of Tables

### LIST OF TABLES

Table 1: Global: Automotive Parts Magnesium Die Casting Market: Key Industry Highlights, 2022 and 2028

Table 2: Global: Automotive Parts Magnesium Die Casting Market Forecast: Breakup by Production Process (in Million US\$), 2023-2028

Table 3: Global: Automotive Parts Magnesium Die Casting Market Forecast: Breakup by Application (in Million US\$), 2023-2028

Table 4: Global: Automotive Parts Magnesium Die Casting Market Forecast: Breakup by Region (in Million US\$), 2023-2028

Table 5: Global: Automotive Parts Magnesium Die Casting Market: Competitive Structure

Table 6: Global: Automotive Parts Magnesium Die Casting Market: Key Players

## List Of Figures

### LIST OF FIGURES

Figure 1: Global: Automotive Parts Magnesium Die Casting Market: Major Drivers and Challenges

Figure 2: Global: Automotive Parts Magnesium Die Casting Market: Sales Value (in Billion US\$), 2017-2022

Figure 3: Global: Automotive Parts Magnesium Die Casting Market Forecast: Sales Value (in Billion US\$), 2023-2028

Figure 4: Global: Automotive Parts Magnesium Die Casting Market: Breakup by Production Process (in %), 2022

Figure 5: Global: Automotive Parts Magnesium Die Casting Market: Breakup by Application (in %), 2022

Figure 6: Global: Automotive Parts Magnesium Die Casting Market: Breakup by Region (in %), 2022

Figure 7: Global: Automotive Parts Magnesium Die Casting (Pressure Die Casting) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 8: Global: Automotive Parts Magnesium Die Casting (Pressure Die Casting) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 9: Global: Automotive Parts Magnesium Die Casting (Vacuum Die Casting) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 10: Global: Automotive Parts Magnesium Die Casting (Vacuum Die Casting) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 11: Global: Automotive Parts Magnesium Die Casting (Gravity Die Casting) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 12: Global: Automotive Parts Magnesium Die Casting (Gravity Die Casting) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 13: Global: Automotive Parts Magnesium Die Casting (Squeeze Die Casting) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 14: Global: Automotive Parts Magnesium Die Casting (Squeeze Die Casting) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 15: Global: Automotive Parts Magnesium Die Casting (Body Parts) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 16: Global: Automotive Parts Magnesium Die Casting (Body Parts) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 17: Global: Automotive Parts Magnesium Die Casting (Engine Parts) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 18: Global: Automotive Parts Magnesium Die Casting (Engine Parts) Market

Forecast: Sales Value (in Million US\$), 2023-2028

Figure 19: Global: Automotive Parts Magnesium Die Casting (Transmission Parts) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 20: Global: Automotive Parts Magnesium Die Casting (Transmission Parts) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 21: Global: Automotive Parts Magnesium Die Casting (Other Applications) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 22: Global: Automotive Parts Magnesium Die Casting (Other Applications) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 23: North America: Automotive Parts Magnesium Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 24: North America: Automotive Parts Magnesium Die Casting Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 25: United States: Automotive Parts Magnesium Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 26: United States: Automotive Parts Magnesium Die Casting Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 27: Canada: Automotive Parts Magnesium Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 28: Canada: Automotive Parts Magnesium Die Casting Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 29: Asia-Pacific: Automotive Parts Magnesium Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 30: Asia-Pacific: Automotive Parts Magnesium Die Casting Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 31: China: Automotive Parts Magnesium Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 32: China: Automotive Parts Magnesium Die Casting Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 33: Japan: Automotive Parts Magnesium Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 34: Japan: Automotive Parts Magnesium Die Casting Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 35: India: Automotive Parts Magnesium Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 36: India: Automotive Parts Magnesium Die Casting Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 37: South Korea: Automotive Parts Magnesium Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 38: South Korea: Automotive Parts Magnesium Die Casting Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 39: Australia: Automotive Parts Magnesium Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 40: Australia: Automotive Parts Magnesium Die Casting Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 41: Indonesia: Automotive Parts Magnesium Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 42: Indonesia: Automotive Parts Magnesium Die Casting Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 43: Others: Automotive Parts Magnesium Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 44: Others: Automotive Parts Magnesium Die Casting Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 45: Europe: Automotive Parts Magnesium Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 46: Europe: Automotive Parts Magnesium Die Casting Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 47: Germany: Automotive Parts Magnesium Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 48: Germany: Automotive Parts Magnesium Die Casting Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 49: France: Automotive Parts Magnesium Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 50: France: Automotive Parts Magnesium Die Casting Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 51: United Kingdom: Automotive Parts Magnesium Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 52: United Kingdom: Automotive Parts Magnesium Die Casting Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 53: Italy: Automotive Parts Magnesium Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 54: Italy: Automotive Parts Magnesium Die Casting Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 55: Spain: Automotive Parts Magnesium Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 56: Spain: Automotive Parts Magnesium Die Casting Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 57: Russia: Automotive Parts Magnesium Die Casting Market: Sales Value (in

Million US\$), 2017 & 2022

Figure 58: Russia: Automotive Parts Magnesium Die Casting Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 59: Others: Automotive Parts Magnesium Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 60: Others: Automotive Parts Magnesium Die Casting Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 61: Latin America: Automotive Parts Magnesium Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 62: Latin America: Automotive Parts Magnesium Die Casting Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 63: Brazil: Automotive Parts Magnesium Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 64: Brazil: Automotive Parts Magnesium Die Casting Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 65: Mexico: Automotive Parts Magnesium Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 66: Mexico: Automotive Parts Magnesium Die Casting Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 67: Others: Automotive Parts Magnesium Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 68: Others: Automotive Parts Magnesium Die Casting Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 69: Middle East and Africa: Automotive Parts Magnesium Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 70: Middle East and Africa: Automotive Parts Magnesium Die Casting Market: Breakup by Country (in %), 2022

Figure 71: Middle East and Africa: Automotive Parts Magnesium Die Casting Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 72: Global: Automotive Parts Magnesium Die Casting Industry: SWOT Analysis

Figure 73: Global: Automotive Parts Magnesium Die Casting Industry: Value Chain Analysis

Figure 74: Global: Automotive Parts Magnesium Die Casting Industry: Porter's Five Forces Analysis

## I would like to order

Product name: Automotive Parts Magnesium Die Casting Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

Product link: <https://marketpublishers.com/r/A364B914293AEN.html>

Price: US\$ 2,499.00 (Single User License / Electronic Delivery)

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

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/A364B914293AEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

