

Global Aluminum Alloy Gravity Casting for Automotive Market Growth 2025-2031

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Abstracts

The global Aluminum Alloy Gravity Casting for Automotive market size is predicted to grow from US\$ million in 2025 to US\$ million in 2031; it is expected to grow at a CAGR of %from 2025 to 2031.

Gravity die casting is a permanent mold casting process in which molten metal is poured from a container or ladle into a mold. There are no forces other than gravity to fill the cavity, and filling can be controlled by tilting the mold. Undercuts and cavities can be incorporated into component forms using sand cores. Due to the rapid solidification, the process has a better surface finish than sand casting as well as better mechanical properties. In addition, the process has a higher casting rate than aluminum sand casting, but the cost of metal molds is higher than that of sand molds. Advantages of this process include the possibility of low porosity and the possibility of obtaining fine particle sizes. The process requires less finishing and trimming than sand casting, and gravity die casting tends to produce a higher quality product. Gravity die casting production methods are generally less cost-effective for mold making than sand casting. Gravity casting of aluminum alloys involves pouring molten aluminum into a cavity and then tilting the entire mold. The aluminum then solidifies naturally to form a part. Manufacturers often invest in well-designed and well-machined permanent molds, which give valuable consistency to the finished product. Surface details can be reliably reproduced thanks to the long-term reusability of the molds, which are often made from durable materials such as gray cast iron, graphite, and stainless steel. While gravity casting is best suited for one-piece molds with simple shapes, it can also efficiently produce more complex castings. Gravity casting is widely used in almost every area of the modern world and plays an important role in the automotive industry. From cylinder heads to engine mounts, many light alloy automotive components are manufactured by gravity die casting.

Automotive is a key driver of this industry. According to data from the World Automobile Organization (OICA), global automobile production and sales in 2017 reached their peak in the past 10 years, at 97.3 million and 95.89 million respectively. In 2018, the global economic expansion ended, and the global auto market declined as a whole. In 2022, there will wear units 81.6 million vehicles in the world. At present, more than 90% of the world's automobiles are concentrated in the three continents of Asia, Europe and North America, of which Asia automobile production accounts for 56% of the world, Europe accounts for 20%, and North America accounts for 16%. The world major automobile producing countries include China, the United States, Japan, South Korea, Germany, India, Mexico, and other countries; among them, China is the largest automobile producing country in the world, accounting for about 32%. Japan is the world's largest car exporter, exporting more than 3.5 million vehicles in 2022.

LP Information, Inc. (LPI) ' newest research report, the “Aluminum Alloy Gravity Casting for Automotive Industry Forecast” looks at past sales and reviews total world Aluminum Alloy Gravity Casting for Automotive sales in 2024, providing a comprehensive analysis by region and market sector of projected Aluminum Alloy Gravity Casting for Automotive sales for 2025 through 2031. With Aluminum Alloy Gravity Casting for Automotive sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Aluminum Alloy Gravity Casting for Automotive industry.

This Insight Report provides a comprehensive analysis of the global Aluminum Alloy Gravity Casting for Automotive landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Aluminum Alloy Gravity Casting for Automotive portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Aluminum Alloy Gravity Casting for Automotive market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Aluminum Alloy Gravity Casting for Automotive and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Aluminum Alloy Gravity Casting for Automotive.

This report presents a comprehensive overview, market shares, and growth opportunities of Aluminum Alloy Gravity Casting for Automotive market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Inclined Gravity Casting

Fixed Gravity Casting

Segmentation by Application:

Commercial Vehicle

Passenger Car

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Hitachi Metals, Ltd

Georg Fischer Limited

Yuhuan Kailing Machinery Group Co

Wencan Group Co

Dean Group International

Ferralloy

NovaCast

Sunrise

Ming Ming

Omnidex

Zon Hen Industrial Co

Guangdong Hongxing Precision Technology Corp

Shandong JPR

Zhejiang Dongrun Casting Industry

Key Questions Addressed in this Report

What is the 10-year outlook for the global Aluminum Alloy Gravity Casting for Automotive market?

What factors are driving Aluminum Alloy Gravity Casting for Automotive market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Aluminum Alloy Gravity Casting for Automotive market opportunities vary by end market size?

How does Aluminum Alloy Gravity Casting for Automotive break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Aluminum Alloy Gravity Casting for Automotive Annual Sales 2020-2031
 - 2.1.2 World Current & Future Analysis for Aluminum Alloy Gravity Casting for Automotive by Geographic Region, 2020, 2024 & 2031
 - 2.1.3 World Current & Future Analysis for Aluminum Alloy Gravity Casting for Automotive by Country/Region, 2020, 2024 & 2031
- 2.2 Aluminum Alloy Gravity Casting for Automotive Segment by Type
 - 2.2.1 Inclined Gravity Casting
 - 2.2.2 Fixed Gravity Casting
- 2.3 Aluminum Alloy Gravity Casting for Automotive Sales by Type
 - 2.3.1 Global Aluminum Alloy Gravity Casting for Automotive Sales Market Share by Type (2020-2025)
 - 2.3.2 Global Aluminum Alloy Gravity Casting for Automotive Revenue and Market Share by Type (2020-2025)
 - 2.3.3 Global Aluminum Alloy Gravity Casting for Automotive Sale Price by Type (2020-2025)
- 2.4 Aluminum Alloy Gravity Casting for Automotive Segment by Application
 - 2.4.1 Commercial Vehicle
 - 2.4.2 Passenger Car
- 2.5 Aluminum Alloy Gravity Casting for Automotive Sales by Application
 - 2.5.1 Global Aluminum Alloy Gravity Casting for Automotive Sale Market Share by Application (2020-2025)
 - 2.5.2 Global Aluminum Alloy Gravity Casting for Automotive Revenue and Market Share by Application (2020-2025)

2.5.3 Global Aluminum Alloy Gravity Casting for Automotive Sale Price by Application (2020-2025)

3 GLOBAL BY COMPANY

3.1 Global Aluminum Alloy Gravity Casting for Automotive Breakdown Data by Company

3.1.1 Global Aluminum Alloy Gravity Casting for Automotive Annual Sales by Company (2020-2025)

3.1.2 Global Aluminum Alloy Gravity Casting for Automotive Sales Market Share by Company (2020-2025)

3.2 Global Aluminum Alloy Gravity Casting for Automotive Annual Revenue by Company (2020-2025)

3.2.1 Global Aluminum Alloy Gravity Casting for Automotive Revenue by Company (2020-2025)

3.2.2 Global Aluminum Alloy Gravity Casting for Automotive Revenue Market Share by Company (2020-2025)

3.3 Global Aluminum Alloy Gravity Casting for Automotive Sale Price by Company

3.4 Key Manufacturers Aluminum Alloy Gravity Casting for Automotive Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Aluminum Alloy Gravity Casting for Automotive Product Location Distribution

3.4.2 Players Aluminum Alloy Gravity Casting for Automotive Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR ALUMINUM ALLOY GRAVITY CASTING FOR AUTOMOTIVE BY GEOGRAPHIC REGION

4.1 World Historic Aluminum Alloy Gravity Casting for Automotive Market Size by Geographic Region (2020-2025)

4.1.1 Global Aluminum Alloy Gravity Casting for Automotive Annual Sales by Geographic Region (2020-2025)

4.1.2 Global Aluminum Alloy Gravity Casting for Automotive Annual Revenue by Geographic Region (2020-2025)

4.2 World Historic Aluminum Alloy Gravity Casting for Automotive Market Size by

Country/Region (2020-2025)

4.2.1 Global Aluminum Alloy Gravity Casting for Automotive Annual Sales by Country/Region (2020-2025)

4.2.2 Global Aluminum Alloy Gravity Casting for Automotive Annual Revenue by Country/Region (2020-2025)

4.3 Americas Aluminum Alloy Gravity Casting for Automotive Sales Growth

4.4 APAC Aluminum Alloy Gravity Casting for Automotive Sales Growth

4.5 Europe Aluminum Alloy Gravity Casting for Automotive Sales Growth

4.6 Middle East & Africa Aluminum Alloy Gravity Casting for Automotive Sales Growth

5 AMERICAS

5.1 Americas Aluminum Alloy Gravity Casting for Automotive Sales by Country

5.1.1 Americas Aluminum Alloy Gravity Casting for Automotive Sales by Country (2020-2025)

5.1.2 Americas Aluminum Alloy Gravity Casting for Automotive Revenue by Country (2020-2025)

5.2 Americas Aluminum Alloy Gravity Casting for Automotive Sales by Type (2020-2025)

5.3 Americas Aluminum Alloy Gravity Casting for Automotive Sales by Application (2020-2025)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Aluminum Alloy Gravity Casting for Automotive Sales by Region

6.1.1 APAC Aluminum Alloy Gravity Casting for Automotive Sales by Region (2020-2025)

6.1.2 APAC Aluminum Alloy Gravity Casting for Automotive Revenue by Region (2020-2025)

6.2 APAC Aluminum Alloy Gravity Casting for Automotive Sales by Type (2020-2025)

6.3 APAC Aluminum Alloy Gravity Casting for Automotive Sales by Application (2020-2025)

6.4 China

6.5 Japan

6.6 South Korea

- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

- 7.1 Europe Aluminum Alloy Gravity Casting for Automotive by Country
 - 7.1.1 Europe Aluminum Alloy Gravity Casting for Automotive Sales by Country (2020-2025)
 - 7.1.2 Europe Aluminum Alloy Gravity Casting for Automotive Revenue by Country (2020-2025)
- 7.2 Europe Aluminum Alloy Gravity Casting for Automotive Sales by Type (2020-2025)
- 7.3 Europe Aluminum Alloy Gravity Casting for Automotive Sales by Application (2020-2025)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Aluminum Alloy Gravity Casting for Automotive by Country
 - 8.1.1 Middle East & Africa Aluminum Alloy Gravity Casting for Automotive Sales by Country (2020-2025)
 - 8.1.2 Middle East & Africa Aluminum Alloy Gravity Casting for Automotive Revenue by Country (2020-2025)
- 8.2 Middle East & Africa Aluminum Alloy Gravity Casting for Automotive Sales by Type (2020-2025)
- 8.3 Middle East & Africa Aluminum Alloy Gravity Casting for Automotive Sales by Application (2020-2025)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Aluminum Alloy Gravity Casting for Automotive
- 10.3 Manufacturing Process Analysis of Aluminum Alloy Gravity Casting for Automotive
- 10.4 Industry Chain Structure of Aluminum Alloy Gravity Casting for Automotive

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 Aluminum Alloy Gravity Casting for Automotive Distributors
- 11.3 Aluminum Alloy Gravity Casting for Automotive Customer

12 WORLD FORECAST REVIEW FOR ALUMINUM ALLOY GRAVITY CASTING FOR AUTOMOTIVE BY GEOGRAPHIC REGION

- 12.1 Global Aluminum Alloy Gravity Casting for Automotive Market Size Forecast by Region
 - 12.1.1 Global Aluminum Alloy Gravity Casting for Automotive Forecast by Region (2026-2031)
 - 12.1.2 Global Aluminum Alloy Gravity Casting for Automotive Annual Revenue Forecast by Region (2026-2031)
- 12.2 Americas Forecast by Country (2026-2031)
- 12.3 APAC Forecast by Region (2026-2031)
- 12.4 Europe Forecast by Country (2026-2031)
- 12.5 Middle East & Africa Forecast by Country (2026-2031)
- 12.6 Global Aluminum Alloy Gravity Casting for Automotive Forecast by Type (2026-2031)
- 12.7 Global Aluminum Alloy Gravity Casting for Automotive Forecast by Application (2026-2031)

13 KEY PLAYERS ANALYSIS

13.1 Hitachi Metals, Ltd

13.1.1 Hitachi Metals, Ltd Company Information

13.1.2 Hitachi Metals, Ltd Aluminum Alloy Gravity Casting for Automotive Product Portfolios and Specifications

13.1.3 Hitachi Metals, Ltd Aluminum Alloy Gravity Casting for Automotive Sales, Revenue, Price and Gross Margin (2020-2025)

13.1.4 Hitachi Metals, Ltd Main Business Overview

13.1.5 Hitachi Metals, Ltd Latest Developments

13.2 Georg Fischer Limited

13.2.1 Georg Fischer Limited Company Information

13.2.2 Georg Fischer Limited Aluminum Alloy Gravity Casting for Automotive Product Portfolios and Specifications

13.2.3 Georg Fischer Limited Aluminum Alloy Gravity Casting for Automotive Sales, Revenue, Price and Gross Margin (2020-2025)

13.2.4 Georg Fischer Limited Main Business Overview

13.2.5 Georg Fischer Limited Latest Developments

13.3 Yuhuan Kailing Machinery Group Co

13.3.1 Yuhuan Kailing Machinery Group Co Company Information

13.3.2 Yuhuan Kailing Machinery Group Co Aluminum Alloy Gravity Casting for Automotive Product Portfolios and Specifications

13.3.3 Yuhuan Kailing Machinery Group Co Aluminum Alloy Gravity Casting for Automotive Sales, Revenue, Price and Gross Margin (2020-2025)

13.3.4 Yuhuan Kailing Machinery Group Co Main Business Overview

13.3.5 Yuhuan Kailing Machinery Group Co Latest Developments

13.4 Wencan Group Co

13.4.1 Wencan Group Co Company Information

13.4.2 Wencan Group Co Aluminum Alloy Gravity Casting for Automotive Product Portfolios and Specifications

13.4.3 Wencan Group Co Aluminum Alloy Gravity Casting for Automotive Sales, Revenue, Price and Gross Margin (2020-2025)

13.4.4 Wencan Group Co Main Business Overview

13.4.5 Wencan Group Co Latest Developments

13.5 Dean Group International

13.5.1 Dean Group International Company Information

13.5.2 Dean Group International Aluminum Alloy Gravity Casting for Automotive Product Portfolios and Specifications

13.5.3 Dean Group International Aluminum Alloy Gravity Casting for Automotive Sales,

Revenue, Price and Gross Margin (2020-2025)

13.5.4 Dean Group International Main Business Overview

13.5.5 Dean Group International Latest Developments

13.6 Ferralloy

13.6.1 Ferralloy Company Information

13.6.2 Ferralloy Aluminum Alloy Gravity Casting for Automotive Product Portfolios and Specifications

13.6.3 Ferralloy Aluminum Alloy Gravity Casting for Automotive Sales, Revenue, Price and Gross Margin (2020-2025)

13.6.4 Ferralloy Main Business Overview

13.6.5 Ferralloy Latest Developments

13.7 NovaCast

13.7.1 NovaCast Company Information

13.7.2 NovaCast Aluminum Alloy Gravity Casting for Automotive Product Portfolios and Specifications

13.7.3 NovaCast Aluminum Alloy Gravity Casting for Automotive Sales, Revenue, Price and Gross Margin (2020-2025)

13.7.4 NovaCast Main Business Overview

13.7.5 NovaCast Latest Developments

13.8 Sunrise

13.8.1 Sunrise Company Information

13.8.2 Sunrise Aluminum Alloy Gravity Casting for Automotive Product Portfolios and Specifications

13.8.3 Sunrise Aluminum Alloy Gravity Casting for Automotive Sales, Revenue, Price and Gross Margin (2020-2025)

13.8.4 Sunrise Main Business Overview

13.8.5 Sunrise Latest Developments

13.9 Ming Ming

13.9.1 Ming Ming Company Information

13.9.2 Ming Ming Aluminum Alloy Gravity Casting for Automotive Product Portfolios and Specifications

13.9.3 Ming Ming Aluminum Alloy Gravity Casting for Automotive Sales, Revenue, Price and Gross Margin (2020-2025)

13.9.4 Ming Ming Main Business Overview

13.9.5 Ming Ming Latest Developments

13.10 Omnidex

13.10.1 Omnidex Company Information

13.10.2 Omnidex Aluminum Alloy Gravity Casting for Automotive Product Portfolios and Specifications

13.10.3 Omnidex Aluminum Alloy Gravity Casting for Automotive Sales, Revenue, Price and Gross Margin (2020-2025)

13.10.4 Omnidex Main Business Overview

13.10.5 Omnidex Latest Developments

13.11 Zon Hen Industrial Co

13.11.1 Zon Hen Industrial Co Company Information

13.11.2 Zon Hen Industrial Co Aluminum Alloy Gravity Casting for Automotive Product Portfolios and Specifications

13.11.3 Zon Hen Industrial Co Aluminum Alloy Gravity Casting for Automotive Sales, Revenue, Price and Gross Margin (2020-2025)

13.11.4 Zon Hen Industrial Co Main Business Overview

13.11.5 Zon Hen Industrial Co Latest Developments

13.12 Guangdong Hongxing Precision Technology Corp

13.12.1 Guangdong Hongxing Precision Technology Corp Company Information

13.12.2 Guangdong Hongxing Precision Technology Corp Aluminum Alloy Gravity Casting for Automotive Product Portfolios and Specifications

13.12.3 Guangdong Hongxing Precision Technology Corp Aluminum Alloy Gravity Casting for Automotive Sales, Revenue, Price and Gross Margin (2020-2025)

13.12.4 Guangdong Hongxing Precision Technology Corp Main Business Overview

13.12.5 Guangdong Hongxing Precision Technology Corp Latest Developments

13.13 Shandong JPR

13.13.1 Shandong JPR Company Information

13.13.2 Shandong JPR Aluminum Alloy Gravity Casting for Automotive Product Portfolios and Specifications

13.13.3 Shandong JPR Aluminum Alloy Gravity Casting for Automotive Sales, Revenue, Price and Gross Margin (2020-2025)

13.13.4 Shandong JPR Main Business Overview

13.13.5 Shandong JPR Latest Developments

13.14 Zhejiang Dongrun Casting Industry

13.14.1 Zhejiang Dongrun Casting Industry Company Information

13.14.2 Zhejiang Dongrun Casting Industry Aluminum Alloy Gravity Casting for Automotive Product Portfolios and Specifications

13.14.3 Zhejiang Dongrun Casting Industry Aluminum Alloy Gravity Casting for Automotive Sales, Revenue, Price and Gross Margin (2020-2025)

13.14.4 Zhejiang Dongrun Casting Industry Main Business Overview

13.14.5 Zhejiang Dongrun Casting Industry Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Aluminum Alloy Gravity Casting for Automotive Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & (\$ millions)

Table 2. Aluminum Alloy Gravity Casting for Automotive Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & (\$ millions)

Table 3. Major Players of Inclined Gravity Casting

Table 4. Major Players of Fixed Gravity Casting

Table 5. Global Aluminum Alloy Gravity Casting for Automotive Sales by Type (2020-2025) & (Tons)

Table 6. Global Aluminum Alloy Gravity Casting for Automotive Sales Market Share by Type (2020-2025)

Table 7. Global Aluminum Alloy Gravity Casting for Automotive Revenue by Type (2020-2025) & (\$ million)

Table 8. Global Aluminum Alloy Gravity Casting for Automotive Revenue Market Share by Type (2020-2025)

Table 9. Global Aluminum Alloy Gravity Casting for Automotive Sale Price by Type (2020-2025) & (US\$/Ton)

Table 10. Global Aluminum Alloy Gravity Casting for Automotive Sale by Application (2020-2025) & (Tons)

Table 11. Global Aluminum Alloy Gravity Casting for Automotive Sale Market Share by Application (2020-2025)

Table 12. Global Aluminum Alloy Gravity Casting for Automotive Revenue by Application (2020-2025) & (\$ million)

Table 13. Global Aluminum Alloy Gravity Casting for Automotive Revenue Market Share by Application (2020-2025)

Table 14. Global Aluminum Alloy Gravity Casting for Automotive Sale Price by Application (2020-2025) & (US\$/Ton)

Table 15. Global Aluminum Alloy Gravity Casting for Automotive Sales by Company (2020-2025) & (Tons)

Table 16. Global Aluminum Alloy Gravity Casting for Automotive Sales Market Share by Company (2020-2025)

Table 17. Global Aluminum Alloy Gravity Casting for Automotive Revenue by Company (2020-2025) & (\$ millions)

Table 18. Global Aluminum Alloy Gravity Casting for Automotive Revenue Market Share by Company (2020-2025)

Table 19. Global Aluminum Alloy Gravity Casting for Automotive Sale Price by

Company (2020-2025) & (US\$/Ton)

Table 20. Key Manufacturers Aluminum Alloy Gravity Casting for Automotive Producing Area Distribution and Sales Area

Table 21. Players Aluminum Alloy Gravity Casting for Automotive Products Offered

Table 22. Aluminum Alloy Gravity Casting for Automotive Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

Table 23. New Products and Potential Entrants

Table 24. Market M&A Activity & Strategy

Table 25. Global Aluminum Alloy Gravity Casting for Automotive Sales by Geographic Region (2020-2025) & (Tons)

Table 26. Global Aluminum Alloy Gravity Casting for Automotive Sales Market Share Geographic Region (2020-2025)

Table 27. Global Aluminum Alloy Gravity Casting for Automotive Revenue by Geographic Region (2020-2025) & (\$ millions)

Table 28. Global Aluminum Alloy Gravity Casting for Automotive Revenue Market Share by Geographic Region (2020-2025)

Table 29. Global Aluminum Alloy Gravity Casting for Automotive Sales by Country/Region (2020-2025) & (Tons)

Table 30. Global Aluminum Alloy Gravity Casting for Automotive Sales Market Share by Country/Region (2020-2025)

Table 31. Global Aluminum Alloy Gravity Casting for Automotive Revenue by Country/Region (2020-2025) & (\$ millions)

Table 32. Global Aluminum Alloy Gravity Casting for Automotive Revenue Market Share by Country/Region (2020-2025)

Table 33. Americas Aluminum Alloy Gravity Casting for Automotive Sales by Country (2020-2025) & (Tons)

Table 34. Americas Aluminum Alloy Gravity Casting for Automotive Sales Market Share by Country (2020-2025)

Table 35. Americas Aluminum Alloy Gravity Casting for Automotive Revenue by Country (2020-2025) & (\$ millions)

Table 36. Americas Aluminum Alloy Gravity Casting for Automotive Sales by Type (2020-2025) & (Tons)

Table 37. Americas Aluminum Alloy Gravity Casting for Automotive Sales by Application (2020-2025) & (Tons)

Table 38. APAC Aluminum Alloy Gravity Casting for Automotive Sales by Region (2020-2025) & (Tons)

Table 39. APAC Aluminum Alloy Gravity Casting for Automotive Sales Market Share by Region (2020-2025)

Table 40. APAC Aluminum Alloy Gravity Casting for Automotive Revenue by Region

(2020-2025) & (\$ millions)

Table 41. APAC Aluminum Alloy Gravity Casting for Automotive Sales by Type

(2020-2025) & (Tons)

Table 42. APAC Aluminum Alloy Gravity Casting for Automotive Sales by Application

(2020-2025) & (Tons)

Table 43. Europe Aluminum Alloy Gravity Casting for Automotive Sales by Country

(2020-2025) & (Tons)

Table 44. Europe Aluminum Alloy Gravity Casting for Automotive Revenue by Country

(2020-2025) & (\$ millions)

Table 45. Europe Aluminum Alloy Gravity Casting for Automotive Sales by Type

(2020-2025) & (Tons)

Table 46. Europe Aluminum Alloy Gravity Casting for Automotive Sales by Application

(2020-2025) & (Tons)

Table 47. Middle East & Africa Aluminum Alloy Gravity Casting for Automotive Sales by Country (2020-2025) & (Tons)

Table 48. Middle East & Africa Aluminum Alloy Gravity Casting for Automotive Revenue Market Share by Country (2020-2025)

Table 49. Middle East & Africa Aluminum Alloy Gravity Casting for Automotive Sales by Type (2020-2025) & (Tons)

Table 50. Middle East & Africa Aluminum Alloy Gravity Casting for Automotive Sales by Application (2020-2025) & (Tons)

Table 51. Key Market Drivers & Growth Opportunities of Aluminum Alloy Gravity Casting for Automotive

Table 52. Key Market Challenges & Risks of Aluminum Alloy Gravity Casting for Automotive

Table 53. Key Industry Trends of Aluminum Alloy Gravity Casting for Automotive

Table 54. Aluminum Alloy Gravity Casting for Automotive Raw Material

Table 55. Key Suppliers of Raw Materials

Table 56. Aluminum Alloy Gravity Casting for Automotive Distributors List

Table 57. Aluminum Alloy Gravity Casting for Automotive Customer List

Table 58. Global Aluminum Alloy Gravity Casting for Automotive Sales Forecast by Region (2026-2031) & (Tons)

Table 59. Global Aluminum Alloy Gravity Casting for Automotive Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 60. Americas Aluminum Alloy Gravity Casting for Automotive Sales Forecast by Country (2026-2031) & (Tons)

Table 61. Americas Aluminum Alloy Gravity Casting for Automotive Annual Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 62. APAC Aluminum Alloy Gravity Casting for Automotive Sales Forecast by

Region (2026-2031) & (Tons)

Table 63. APAC Aluminum Alloy Gravity Casting for Automotive Annual Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 64. Europe Aluminum Alloy Gravity Casting for Automotive Sales Forecast by Country (2026-2031) & (Tons)

Table 65. Europe Aluminum Alloy Gravity Casting for Automotive Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 66. Middle East & Africa Aluminum Alloy Gravity Casting for Automotive Sales Forecast by Country (2026-2031) & (Tons)

Table 67. Middle East & Africa Aluminum Alloy Gravity Casting for Automotive Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 68. Global Aluminum Alloy Gravity Casting for Automotive Sales Forecast by Type (2026-2031) & (Tons)

Table 69. Global Aluminum Alloy Gravity Casting for Automotive Revenue Forecast by Type (2026-2031) & (\$ millions)

Table 70. Global Aluminum Alloy Gravity Casting for Automotive Sales Forecast by Application (2026-2031) & (Tons)

Table 71. Global Aluminum Alloy Gravity Casting for Automotive Revenue Forecast by Application (2026-2031) & (\$ millions)

Table 72. Hitachi Metals, Ltd Basic Information, Aluminum Alloy Gravity Casting for Automotive Manufacturing Base, Sales Area and Its Competitors

Table 73. Hitachi Metals, Ltd Aluminum Alloy Gravity Casting for Automotive Product Portfolios and Specifications

Table 74. Hitachi Metals, Ltd Aluminum Alloy Gravity Casting for Automotive Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2020-2025)

Table 75. Hitachi Metals, Ltd Main Business

Table 76. Hitachi Metals, Ltd Latest Developments

Table 77. Georg Fischer Limited Basic Information, Aluminum Alloy Gravity Casting for Automotive Manufacturing Base, Sales Area and Its Competitors

Table 78. Georg Fischer Limited Aluminum Alloy Gravity Casting for Automotive Product Portfolios and Specifications

Table 79. Georg Fischer Limited Aluminum Alloy Gravity Casting for Automotive Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2020-2025)

Table 80. Georg Fischer Limited Main Business

Table 81. Georg Fischer Limited Latest Developments

Table 82. Yuhuan Kailing Machinery Group Co Basic Information, Aluminum Alloy Gravity Casting for Automotive Manufacturing Base, Sales Area and Its Competitors

Table 83. Yuhuan Kailing Machinery Group Co Aluminum Alloy Gravity Casting for Automotive Product Portfolios and Specifications

Table 84. Yuhuan Kailing Machinery Group Co Aluminum Alloy Gravity Casting for Automotive Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2020-2025)

Table 85. Yuhuan Kailing Machinery Group Co Main Business

Table 86. Yuhuan Kailing Machinery Group Co Latest Developments

Table 87. Wencan Group Co Basic Information, Aluminum Alloy Gravity Casting for Automotive Manufacturing Base, Sales Area and Its Competitors

Table 88. Wencan Group Co Aluminum Alloy Gravity Casting for Automotive Product Portfolios and Specifications

Table 89. Wencan Group Co Aluminum Alloy Gravity Casting for Automotive Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2020-2025)

Table 90. Wencan Group Co Main Business

Table 91. Wencan Group Co Latest Developments

Table 92. Dean Group International Basic Information, Aluminum Alloy Gravity Casting for Automotive Manufacturing Base, Sales Area and Its Competitors

Table 93. Dean Group International Aluminum Alloy Gravity Casting for Automotive Product Portfolios and Specifications

Table 94. Dean Group International Aluminum Alloy Gravity Casting for Automotive Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2020-2025)

Table 95. Dean Group International Main Business

Table 96. Dean Group International Latest Developments

Table 97. Ferralloy Basic Information, Aluminum Alloy Gravity Casting for Automotive Manufacturing Base, Sales Area and Its Competitors

Table 98. Ferralloy Aluminum Alloy Gravity Casting for Automotive Product Portfolios and Specifications

Table 99. Ferralloy Aluminum Alloy Gravity Casting for Automotive Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2020-2025)

Table 100. Ferralloy Main Business

Table 101. Ferralloy Latest Developments

Table 102. NovaCast Basic Information, Aluminum Alloy Gravity Casting for Automotive Manufacturing Base, Sales Area and Its Competitors

Table 103. NovaCast Aluminum Alloy Gravity Casting for Automotive Product Portfolios and Specifications

Table 104. NovaCast Aluminum Alloy Gravity Casting for Automotive Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2020-2025)

Table 105. NovaCast Main Business

Table 106. NovaCast Latest Developments

Table 107. Sunrise Basic Information, Aluminum Alloy Gravity Casting for Automotive Manufacturing Base, Sales Area and Its Competitors

Table 108. Sunrise Aluminum Alloy Gravity Casting for Automotive Product Portfolios and Specifications

Table 109. Sunrise Aluminum Alloy Gravity Casting for Automotive Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2020-2025)

Table 110. Sunrise Main Business

Table 111. Sunrise Latest Developments

Table 112. Ming Ming Basic Information, Aluminum Alloy Gravity Casting for Automotive Manufacturing Base, Sales Area and Its Competitors

Table 113. Ming Ming Aluminum Alloy Gravity Casting for Automotive Product Portfolios and Specifications

Table 114. Ming Ming Aluminum Alloy Gravity Casting for Automotive Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2020-2025)

Table 115. Ming Ming Main Business

Table 116. Ming Ming Latest Developments

Table 117. Omnidex Basic Information, Aluminum Alloy Gravity Casting for Automotive Manufacturing Base, Sales Area and Its Competitors

Table 118. Omnidex Aluminum Alloy Gravity Casting for Automotive Product Portfolios and Specifications

Table 119. Omnidex Aluminum Alloy Gravity Casting for Automotive Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2020-2025)

Table 120. Omnidex Main Business

Table 121. Omnidex Latest Developments

Table 122. Zon Hen Industrial Co Basic Information, Aluminum Alloy Gravity Casting for Automotive Manufacturing Base, Sales Area and Its Competitors

Table 123. Zon Hen Industrial Co Aluminum Alloy Gravity Casting for Automotive Product Portfolios and Specifications

Table 124. Zon Hen Industrial Co Aluminum Alloy Gravity Casting for Automotive Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2020-2025)

Table 125. Zon Hen Industrial Co Main Business

Table 126. Zon Hen Industrial Co Latest Developments

Table 127. Guangdong Hongxing Precision Technology Corp Basic Information, Aluminum Alloy Gravity Casting for Automotive Manufacturing Base, Sales Area and Its Competitors

Table 128. Guangdong Hongxing Precision Technology Corp Aluminum Alloy Gravity Casting for Automotive Product Portfolios and Specifications

Table 129. Guangdong Hongxing Precision Technology Corp Aluminum Alloy Gravity Casting for Automotive Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2020-2025)

Table 130. Guangdong Hongxing Precision Technology Corp Main Business

Table 131. Guangdong Hongxing Precision Technology Corp Latest Developments

Table 132. Shandong JPR Basic Information, Aluminum Alloy Gravity Casting for Automotive Manufacturing Base, Sales Area and Its Competitors

Table 133. Shandong JPR Aluminum Alloy Gravity Casting for Automotive Product Portfolios and Specifications

Table 134. Shandong JPR Aluminum Alloy Gravity Casting for Automotive Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2020-2025)

Table 135. Shandong JPR Main Business

Table 136. Shandong JPR Latest Developments

Table 137. Zhejiang Dongrun Casting Industry Basic Information, Aluminum Alloy Gravity Casting for Automotive Manufacturing Base, Sales Area and Its Competitors

Table 138. Zhejiang Dongrun Casting Industry Aluminum Alloy Gravity Casting for Automotive Product Portfolios and Specifications

Table 139. Zhejiang Dongrun Casting Industry Aluminum Alloy Gravity Casting for Automotive Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2020-2025)

Table 140. Zhejiang Dongrun Casting Industry Main Business

Table 141. Zhejiang Dongrun Casting Industry Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Aluminum Alloy Gravity Casting for Automotive
- Figure 2. Aluminum Alloy Gravity Casting for Automotive Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Aluminum Alloy Gravity Casting for Automotive Sales Growth Rate 2020-2031 (Tons)
- Figure 7. Global Aluminum Alloy Gravity Casting for Automotive Revenue Growth Rate 2020-2031 (\$ millions)
- Figure 8. Aluminum Alloy Gravity Casting for Automotive Sales by Geographic Region (2020, 2024 & 2031) & (\$ millions)
- Figure 9. Aluminum Alloy Gravity Casting for Automotive Sales Market Share by Country/Region (2024)
- Figure 10. Aluminum Alloy Gravity Casting for Automotive Sales Market Share by Country/Region (2020, 2024 & 2031)
- Figure 11. Product Picture of Inclined Gravity Casting
- Figure 12. Product Picture of Fixed Gravity Casting
- Figure 13. Global Aluminum Alloy Gravity Casting for Automotive Sales Market Share by Type in 2025
- Figure 14. Global Aluminum Alloy Gravity Casting for Automotive Revenue Market Share by Type (2020-2025)
- Figure 15. Aluminum Alloy Gravity Casting for Automotive Consumed in Commercial Vehicle
- Figure 16. Global Aluminum Alloy Gravity Casting for Automotive Market: Commercial Vehicle (2020-2025) & (Tons)
- Figure 17. Aluminum Alloy Gravity Casting for Automotive Consumed in Passenger Car
- Figure 18. Global Aluminum Alloy Gravity Casting for Automotive Market: Passenger Car (2020-2025) & (Tons)
- Figure 19. Global Aluminum Alloy Gravity Casting for Automotive Sale Market Share by Application (2024)
- Figure 20. Global Aluminum Alloy Gravity Casting for Automotive Revenue Market Share by Application in 2025
- Figure 21. Aluminum Alloy Gravity Casting for Automotive Sales by Company in 2025 (Tons)
- Figure 22. Global Aluminum Alloy Gravity Casting for Automotive Sales Market Share

by Company in 2025

Figure 23. Aluminum Alloy Gravity Casting for Automotive Revenue by Company in 2025 (\$ millions)

Figure 24. Global Aluminum Alloy Gravity Casting for Automotive Revenue Market Share by Company in 2025

Figure 25. Global Aluminum Alloy Gravity Casting for Automotive Sales Market Share by Geographic Region (2020-2025)

Figure 26. Global Aluminum Alloy Gravity Casting for Automotive Revenue Market Share by Geographic Region in 2025

Figure 27. Americas Aluminum Alloy Gravity Casting for Automotive Sales 2020-2025 (Tons)

Figure 28. Americas Aluminum Alloy Gravity Casting for Automotive Revenue 2020-2025 (\$ millions)

Figure 29. APAC Aluminum Alloy Gravity Casting for Automotive Sales 2020-2025 (Tons)

Figure 30. APAC Aluminum Alloy Gravity Casting for Automotive Revenue 2020-2025 (\$ millions)

Figure 31. Europe Aluminum Alloy Gravity Casting for Automotive Sales 2020-2025 (Tons)

Figure 32. Europe Aluminum Alloy Gravity Casting for Automotive Revenue 2020-2025 (\$ millions)

Figure 33. Middle East & Africa Aluminum Alloy Gravity Casting for Automotive Sales 2020-2025 (Tons)

Figure 34. Middle East & Africa Aluminum Alloy Gravity Casting for Automotive Revenue 2020-2025 (\$ millions)

Figure 35. Americas Aluminum Alloy Gravity Casting for Automotive Sales Market Share by Country in 2025

Figure 36. Americas Aluminum Alloy Gravity Casting for Automotive Revenue Market Share by Country (2020-2025)

Figure 37. Americas Aluminum Alloy Gravity Casting for Automotive Sales Market Share by Type (2020-2025)

Figure 38. Americas Aluminum Alloy Gravity Casting for Automotive Sales Market Share by Application (2020-2025)

Figure 39. United States Aluminum Alloy Gravity Casting for Automotive Revenue Growth 2020-2025 (\$ millions)

Figure 40. Canada Aluminum Alloy Gravity Casting for Automotive Revenue Growth 2020-2025 (\$ millions)

Figure 41. Mexico Aluminum Alloy Gravity Casting for Automotive Revenue Growth 2020-2025 (\$ millions)

Figure 42. Brazil Aluminum Alloy Gravity Casting for Automotive Revenue Growth 2020-2025 (\$ millions)

Figure 43. APAC Aluminum Alloy Gravity Casting for Automotive Sales Market Share by Region in 2025

Figure 44. APAC Aluminum Alloy Gravity Casting for Automotive Revenue Market Share by Region (2020-2025)

Figure 45. APAC Aluminum Alloy Gravity Casting for Automotive Sales Market Share by Type (2020-2025)

Figure 46. APAC Aluminum Alloy Gravity Casting for Automotive Sales Market Share by Application (2020-2025)

Figure 47. China Aluminum Alloy Gravity Casting for Automotive Revenue Growth 2020-2025 (\$ millions)

Figure 48. Japan Aluminum Alloy Gravity Casting for Automotive Revenue Growth 2020-2025 (\$ millions)

Figure 49. South Korea Aluminum Alloy Gravity Casting for Automotive Revenue Growth 2020-2025 (\$ millions)

Figure 50. Southeast Asia Aluminum Alloy Gravity Casting for Automotive Revenue Growth 2020-2025 (\$ millions)

Figure 51. India Aluminum Alloy Gravity Casting for Automotive Revenue Growth 2020-2025 (\$ millions)

Figure 52. Australia Aluminum Alloy Gravity Casting for Automotive Revenue Growth 2020-2025 (\$ millions)

Figure 53. China Taiwan Aluminum Alloy Gravity Casting for Automotive Revenue Growth 2020-2025 (\$ millions)

Figure 54. Europe Aluminum Alloy Gravity Casting for Automotive Sales Market Share by Country in 2025

Figure 55. Europe Aluminum Alloy Gravity Casting for Automotive Revenue Market Share by Country (2020-2025)

Figure 56. Europe Aluminum Alloy Gravity Casting for Automotive Sales Market Share by Type (2020-2025)

Figure 57. Europe Aluminum Alloy Gravity Casting for Automotive Sales Market Share by Application (2020-2025)

Figure 58. Germany Aluminum Alloy Gravity Casting for Automotive Revenue Growth 2020-2025 (\$ millions)

Figure 59. France Aluminum Alloy Gravity Casting for Automotive Revenue Growth 2020-2025 (\$ millions)

Figure 60. UK Aluminum Alloy Gravity Casting for Automotive Revenue Growth 2020-2025 (\$ millions)

Figure 61. Italy Aluminum Alloy Gravity Casting for Automotive Revenue Growth

2020-2025 (\$ millions)

Figure 62. Russia Aluminum Alloy Gravity Casting for Automotive Revenue Growth

2020-2025 (\$ millions)

Figure 63. Middle East & Africa Aluminum Alloy Gravity Casting for Automotive Sales Market Share by Country (2020-2025)

Figure 64. Middle East & Africa Aluminum Alloy Gravity Casting for Automotive Sales Market Share by Type (2020-2025)

Figure 65. Middle East & Africa Aluminum Alloy Gravity Casting for Automotive Sales Market Share by Application (2020-2025)

Figure 66. Egypt Aluminum Alloy Gravity Casting for Automotive Revenue Growth 2020-2025 (\$ millions)

Figure 67. South Africa Aluminum Alloy Gravity Casting for Automotive Revenue Growth 2020-2025 (\$ millions)

Figure 68. Israel Aluminum Alloy Gravity Casting for Automotive Revenue Growth 2020-2025 (\$ millions)

Figure 69. Turkey Aluminum Alloy Gravity Casting for Automotive Revenue Growth 2020-2025 (\$ millions)

Figure 70. GCC Countries Aluminum Alloy Gravity Casting for Automotive Revenue Growth 2020-2025 (\$ millions)

Figure 71. Manufacturing Cost Structure Analysis of Aluminum Alloy Gravity Casting for Automotive in 2025

Figure 72. Manufacturing Process Analysis of Aluminum Alloy Gravity Casting for Automotive

Figure 73. Industry Chain Structure of Aluminum Alloy Gravity Casting for Automotive

Figure 74. Channels of Distribution

Figure 75. Global Aluminum Alloy Gravity Casting for Automotive Sales Market Forecast by Region (2026-2031)

Figure 76. Global Aluminum Alloy Gravity Casting for Automotive Revenue Market Share Forecast by Region (2026-2031)

Figure 77. Global Aluminum Alloy Gravity Casting for Automotive Sales Market Share Forecast by Type (2026-2031)

Figure 78. Global Aluminum Alloy Gravity Casting for Automotive Revenue Market Share Forecast by Type (2026-2031)

Figure 79. Global Aluminum Alloy Gravity Casting for Automotive Sales Market Share Forecast by Application (2026-2031)

Figure 80. Global Aluminum Alloy Gravity Casting for Automotive Revenue Market Share Forecast by Application (2026-2031)

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