

Global Aluminum Casting Market Size Study, by Process (Die Casting, Permanent Mold Casting, Sand Casting), by End Use Industry (Transportation, Industrial, Building & Construction), and Regional Forecasts 2022-2032

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Abstracts

The Global Aluminum Casting Market, valued at approximately USD 75.61 billion in 2023, is poised for robust expansion, projected to grow at a compound annual growth rate (CAGR) of 7.40% during the forecast period from 2024 to 2032. Aluminum casting, a versatile and efficient manufacturing process, plays a pivotal role in shaping lightweight, high-strength components for diverse industries. Its ability to deliver intricate shapes with superior dimensional accuracy positions it as a cornerstone of innovation in automotive, industrial, and construction sectors.

The surge in demand for aluminum castings is primarily fueled by the burgeoning adoption of lightweight materials in the transportation sector, aimed at enhancing fuel efficiency and reducing emissions. Processes like die casting dominate the market, offering unparalleled production efficiency and precision for automotive and industrial applications. Permanent mold and sand casting processes, known for their adaptability in producing medium to large-sized components, are also witnessing increased utilization. Technological advancements in casting methods, such as the integration of automation and 3D printing for mold development, are further revolutionizing the industry, ensuring sustainability and cost-effectiveness.

Despite its promising growth trajectory, the aluminum casting market encounters challenges, including volatility in raw material prices and environmental concerns associated with traditional manufacturing methods. Nevertheless, the industry's pivot toward greener practices, such as the use of recycled aluminum and innovations in eco-

friendly mold materials, presents significant growth opportunities. With the rise of electric vehicles and renewable energy projects, aluminum casting continues to evolve as a critical enabler of next-generation technologies.

North America commands a substantial share of the global aluminum casting market, driven by its established automotive and aerospace sectors. Europe follows closely, with a strong emphasis on sustainable manufacturing practices and lightweight materials in automotive production. The Asia-Pacific region, on the other hand, is anticipated to exhibit the fastest growth, propelled by rapid industrialization, infrastructure development, and significant investments in transportation and construction projects. Latin America and the Middle East & Africa are also emerging as lucrative markets, supported by growing industrial activities and infrastructure modernization initiatives.

Major market players included in this report are:

Nemak

Ryobi Limited

Alcoa Corporation

Consolidated Metco, Inc.

Endurance Technologies Limited

Aluminum Corporation of China Limited

Bodine Aluminum, Inc.

Dynacast International

Martinrea Honsel

Gibbs Die Casting Corporation

Shiloh Industries

Arconic Inc.

Sigma Electric Manufacturing Corporation

Alcast Technologies

Rockman Industries

The detailed segments and sub-segment of the market are explained below:

By Process:

Die Casting

Permanent Mold Casting

Sand Casting

By End Use Industry:

Transportation

Industrial

Building & Construction

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

Years considered for the study are as follows:

Historical Year: 2022

Base Year: 2023

Forecast Period: 2024 to 2032

Key Takeaways:

Market estimates and forecasts spanning a decade from 2022 to 2032.

Regional insights with country-level data for major markets.

Comprehensive segmentation covering processes and end-use industries.

Strategic profiling of leading players with insights into growth initiatives.

Exploration of emerging trends and innovations in aluminum casting technology.

Contents

CHAPTER 1. GLOBAL ALUMINUM CASTING MARKET EXECUTIVE SUMMARY

- 1.1. Global Aluminum Casting Market Size & Forecast (2022-2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
 - 1.3.1. By Process
 - 1.3.2. By End Use Industry
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

CHAPTER 2. GLOBAL ALUMINUM CASTING MARKET DEFINITION AND RESEARCH ASSUMPTIONS

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
 - 2.3.1. Inclusion & Exclusion
 - 2.3.2. Limitations
 - 2.3.3. Supply Side Analysis
 - 2.3.3.1. Availability
 - 2.3.3.2. Infrastructure
 - 2.3.3.3. Regulatory Environment
 - 2.3.3.4. Market Competition
 - 2.3.3.5. Economic Viability (Consumer's Perspective)
 - 2.3.4. Demand Side Analysis
 - 2.3.4.1. Regulatory Frameworks
 - 2.3.4.2. Technological Advancements
 - 2.3.4.3. Environmental Considerations
 - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

CHAPTER 3. GLOBAL ALUMINUM CASTING MARKET DYNAMICS

- 3.1. Market Drivers

- 3.1.1. Increasing Demand for Lightweight Components in Transportation
- 3.1.2. Advancements in Casting Technologies
- 3.1.3. Growth in Renewable Energy and Electric Vehicles
- 3.2. Market Challenges
 - 3.2.1. Volatility in Raw Material Prices
 - 3.2.2. Environmental Concerns Associated with Traditional Manufacturing Methods
- 3.3. Market Opportunities
 - 3.3.1. Adoption of Recycled Aluminum and Sustainable Practices
 - 3.3.2. Innovations in Eco-Friendly Mold Materials
 - 3.3.3. Expansion in Renewable Energy Projects and Electric Vehicle Manufacturing

CHAPTER 4. GLOBAL ALUMINUM CASTING MARKET INDUSTRY ANALYSIS

- 4.1. Porter's 5 Force Model
 - 4.1.1. Bargaining Power of Suppliers
 - 4.1.2. Bargaining Power of Buyers
 - 4.1.3. Threat of New Entrants
 - 4.1.4. Threat of Substitutes
 - 4.1.5. Competitive Rivalry
 - 4.1.6. Futuristic Approach to Porter's 5 Force Model
 - 4.1.7. Porter's 5 Force Impact Analysis
- 4.2. PESTEL Analysis
 - 4.2.1. Political
 - 4.2.2. Economical
 - 4.2.3. Social
 - 4.2.4. Technological
 - 4.2.5. Environmental
 - 4.2.6. Legal
- 4.3. Top Investment Opportunities
- 4.4. Top Winning Strategies
- 4.5. Disruptive Trends
- 4.6. Industry Expert Perspective
- 4.7. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL ALUMINUM CASTING MARKET SIZE & FORECASTS BY PROCESS 2022-2032

- 5.1. Segment Dashboard
- 5.2. Global Aluminum Casting Market: Process Revenue Trend Analysis, 2022 & 2032

(USD Million/Billion)

5.2.1. Die Casting

5.2.2. Permanent Mold Casting

5.2.3. Sand Casting

CHAPTER 6. GLOBAL ALUMINUM CASTING MARKET SIZE & FORECASTS BY END USE INDUSTRY 2022-2032

6.1. Segment Dashboard

6.2. Global Aluminum Casting Market: End Use Industry Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)

6.2.1. Transportation

6.2.2. Industrial

6.2.3. Building & Construction

CHAPTER 7. GLOBAL ALUMINUM CASTING MARKET SIZE & FORECASTS BY REGION 2022-2032

7.1. North America Aluminum Casting Market

7.1.1. U.S. Aluminum Casting Market

7.1.1.1. Application Breakdown Size & Forecasts, 2022-2032

7.1.1.2. Process Breakdown Size & Forecasts, 2022-2032

7.1.2. Canada Aluminum Casting Market

7.1.2.1. Application Breakdown Size & Forecasts, 2022-2032

7.1.2.2. Process Breakdown Size & Forecasts, 2022-2032

7.2. Europe Aluminum Casting Market

7.2.1. UK Aluminum Casting Market

7.2.2. Germany Aluminum Casting Market

7.2.3. France Aluminum Casting Market

7.2.4. Spain Aluminum Casting Market

7.2.5. Italy Aluminum Casting Market

7.2.6. Rest of Europe Aluminum Casting Market

7.3. Asia-Pacific Aluminum Casting Market

7.3.1. China Aluminum Casting Market

7.3.2. India Aluminum Casting Market

7.3.3. Japan Aluminum Casting Market

7.3.4. Australia Aluminum Casting Market

7.3.5. South Korea Aluminum Casting Market

7.3.6. Rest of Asia Pacific Aluminum Casting Market

- 7.4. Latin America Aluminum Casting Market
 - 7.4.1. Brazil Aluminum Casting Market
 - 7.4.2. Mexico Aluminum Casting Market
 - 7.4.3. Rest of Latin America Aluminum Casting Market
- 7.5. Middle East & Africa Aluminum Casting Market
 - 7.5.1. Saudi Arabia Aluminum Casting Market
 - 7.5.2. South Africa Aluminum Casting Market
 - 7.5.3. Rest of Middle East & Africa Aluminum Casting Market

CHAPTER 8. COMPETITIVE INTELLIGENCE

- 8.1. Key Company SWOT Analysis
 - 8.1.1. Nemak
 - 8.1.2. Ryobi Limited
 - 8.1.3. Alcoa Corporation
- 8.2. Top Market Strategies
- 8.3. Company Profiles
 - 8.3.1. Nemak
 - 8.3.1.1. Key Information
 - 8.3.1.2. Overview
 - 8.3.1.3. Financial (Subject to Data Availability)
 - 8.3.1.4. Product Summary
 - 8.3.1.5. Market Strategies
 - 8.3.2. Ryobi Limited
 - 8.3.3. Alcoa Corporation
 - 8.3.4. Consolidated Metco, Inc.
 - 8.3.5. Endurance Technologies Limited
 - 8.3.6. Aluminum Corporation of China Limited
 - 8.3.7. Bodine Aluminum, Inc.
 - 8.3.8. Dynacast International
 - 8.3.9. Martinrea Honsel
 - 8.3.10. Gibbs Die Casting Corporation
 - 8.3.11. Shiloh Industries
 - 8.3.12. Arconic Inc.
 - 8.3.13. Sigma Electric Manufacturing Corporation
 - 8.3.14. Alcast Technologies
 - 8.3.15. Rockman Industries
- 8.4. Disruptive Trends
- 8.5. Industry Expert Perspective

8.6. Analyst Recommendation & Conclusion

CHAPTER 9. RESEARCH PROCESS

9.1. Research Process

9.1.1. Data Mining

9.1.2. Analysis

9.1.3. Market Estimation

9.1.4. Validation

9.1.5. Publishing

9.2. Research Attributes

List Of Tables

LIST OF TABLES

TABLE 1. Global Aluminum Casting Market, Report Scope

TABLE 2. Global Aluminum Casting Market Estimates & Forecasts by Region
2022-2032 (USD Million/Billion)

TABLE 3. Global Aluminum Casting Market Estimates & Forecasts by Process
2022-2032 (USD Million/Billion)

TABLE 4. Global Aluminum Casting Market Estimates & Forecasts by End Use Industry
2022-2032 (USD Million/Billion)

TABLE 5. Global Aluminum Casting Market by Segment, Estimates & Forecasts,
2022-2032 (USD Million/Billion)

TABLE 6. Global Aluminum Casting Market by Region, Estimates & Forecasts,
2022-2032 (USD Million/Billion)

TABLE 7. Global Aluminum Casting Market by Segment, Estimates & Forecasts,
2022-2032 (USD Million/Billion)

TABLE 8. Global Aluminum Casting Market by Region, Estimates & Forecasts,
2022-2032 (USD Million/Billion)

TABLE 9. Global Aluminum Casting Market by Segment, Estimates & Forecasts,
2022-2032 (USD Million/Billion)

TABLE 10. Global Aluminum Casting Market by Region, Estimates & Forecasts,
2022-2032 (USD Million/Billion)

TABLE 11. Global Aluminum Casting Market by Segment, Estimates & Forecasts,
2022-2032 (USD Million/Billion)

TABLE 12. Global Aluminum Casting Market by Region, Estimates & Forecasts,
2022-2032 (USD Million/Billion)

TABLE 13. Global Aluminum Casting Market by Segment, Estimates & Forecasts,
2022-2032 (USD Million/Billion)

TABLE 14. Global Aluminum Casting Market by Region, Estimates & Forecasts,
2022-2032 (USD Million/Billion)

TABLE 15. U.S. Aluminum Casting Market Estimates & Forecasts, 2022-2032 (USD
Million/Billion)

TABLE 16. U.S. Aluminum Casting Market Estimates & Forecasts by Application
2022-2032 (USD Million/Billion)

TABLE 17. U.S. Aluminum Casting Market Estimates & Forecasts by Process
2022-2032 (USD Million/Billion)

TABLE 18. Canada Aluminum Casting Market Estimates & Forecasts, 2022-2032 (USD
Million/Billion)

TABLE 19. Canada Aluminum Casting Market Estimates & Forecasts by Application
2022-2032 (USD Million/Billion)

TABLE 20. Canada Aluminum Casting Market Estimates & Forecasts by Process
2022-2032 (USD Million/Billion)

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This list is not complete; the final report does contain more than 100 tables. The list may be updated in the final deliverable.

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