

Lost Foam Casting Market Size, Share & Trends Analysis Report By Metal (Iron, Aluminum, Steel), By End-use (Automotive, Industrial Machinery, Agriculture Equipment, Aerospace & Defense), By Region, And Segment Forecasts, 2026 - 2033

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Abstracts

Lost Foam Casting Market Summary

The global lost foam casting market size was valued at USD 4.8 billion in 2025 and is projected to reach USD 8.3 billion by 2033, growing at a CAGR of 7.2% from 2026 to 2033. The growing production of electric vehicles and fuel-efficient automobiles has further accelerated the need for lightweight aluminum castings, supporting market expansion.

Lost foam casting is a metal-casting process in which a foam pattern, usually made of polystyrene, is coated with a refractory material and embedded in sand before molten metal is poured. The molten metal vaporizes the foam pattern and fills the cavity, producing complex and precise metal components with minimal machining requirements.

Automakers are adopting these castings for manufacturing engine blocks, cylinder heads, transmission housings, and other intricate parts due to their ability to produce near-net shape components with reduced material wastage.

According to the International Energy Agency, global electric car sales surpassed 21 million units in 2025, up more than 20% year on year, with electric vehicles accounting for nearly one in four new cars sold globally.

Rising industrial automation and advancements in manufacturing technologies are also contributing significantly to market growth. These castings enable high-dimensional accuracy, smooth surface finish, and reduced assembly requirements, making it suitable for automated production environments. Industries are increasingly integrating advanced simulation software, robotic pouring systems, and precision molding technologies to improve productivity and reduce operational costs, thereby enhancing the adoption of lost foam casting processes.

The expanding demand from the aerospace and heavy machinery sectors is another major growth driver for the market. Aerospace manufacturers require highly precise, lightweight metal components with complex geometries, which can be efficiently produced via lost-foam casting. Similarly, construction equipment, mining machinery, and agricultural machinery manufacturers are utilizing the process to produce durable cast components with reduced machining requirements and improved structural integrity.

Growing infrastructure development and industrialization in emerging economies such as China, India, Brazil, and Southeast Asian countries are supporting the expansion of foundry industries, thereby driving demand for the market. Increasing investments in transportation, energy, and industrial manufacturing projects have created substantial demand for cast metal components across multiple applications. Favorable government initiatives promoting domestic manufacturing and industrial output are further strengthening market growth in these regions.

Global Lost Foam Casting Market Report Segmentation

This report forecasts revenue and volume growth at global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For the purpose of this study, Grand View Research has segmented the global lost foam casting market report on the basis of metal, end-use, and region.

Metal Outlook (Revenue, USD Billion; Volume, Kilotons; 2021 - 2033)

Iron

Aluminum

Steel

Others

End-use Outlook (Revenue, USD Billion; Volume, Kilotons; 2021 - 2033)

Automotive

Industrial Machinery

Agriculture Equipment

Aerospace & Defense

Others

Regional Outlook (Revenue, USD Billion; Volume, Kilotons; 2021 - 2033)

North America

U.S.

Canada

Mexico

Europe

Germany

Italy

France

Russia

Asia Pacific

China

India

Japan

Latin America

Brazil

Middle East & Africa

Saudi Arabia

UAE

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Contents

CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Market Segmentation & Scope
- 1.2. Market Definition
- 1.3. Information Procurement
 - 1.3.1. Information Analysis
 - 1.3.2. Data Analysis Models
 - 1.3.3. Market Formulation & Data Visualization
 - 1.3.4. Data Validation & Publishing
- 1.4. Research Scope and Assumptions
 - 1.4.1. List of Data End Uses

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Market Outlook
- 2.2. Segmental Outlook
- 2.3. Competitive Outlook

CHAPTER 3. MARKET VARIABLES, TRENDS, AND SCOPE

- 3.1. Market Lineage Outlook
 - 3.1.1. Global Metal Casting Market
- 3.2. Industry Value Chain Analysis
 - 3.2.1. Raw Material Trends
 - 3.2.2. Sales Channel Analysis
- 3.3. Regulatory Framework
- 3.4. Market Dynamics
 - 3.4.1. Market Driver Analysis
 - 3.4.2. Market Restraint Analysis
 - 3.4.3. Industry Trends
- 3.5. Porter's Five Forces Analysis
 - 3.5.1. Bargaining Power of Suppliers
 - 3.5.2. Bargaining Power of Buyers
 - 3.5.3. Threat of Substitution
 - 3.5.4. Threat of New Entrants
 - 3.5.5. Competitive Rivalry
- 3.6. PESTLE Analysis

- 3.6.1. Political
- 3.6.2. Economic
- 3.6.3. Social Landscape
- 3.6.4. Metal
- 3.6.5. Environmental
- 3.6.6. Legal

CHAPTER 4. LOST FOAM CASTING MARKET: METAL ESTIMATES & TREND ANALYSIS

- 4.1. Lost Foam Casting Market: Metal Movement Analysis, 2025 & 2033
- 4.2. Iron
 - 4.2.1. Market estimates and forecasts, 2021 - 2033 (USD Billion) (Kilotons)
- 4.3. Aluminum
 - 4.3.1. Market estimates and forecasts, 2021 - 2033 (USD Billion) (Kilotons)
- 4.4. Steel
 - 4.4.1. Market estimates and forecasts, 2021 - 2033 (USD Billion) (Kilotons)
- 4.5. Others
 - 4.5.1. Market estimates and forecasts, 2021 - 2033 (USD Billion) (Kilotons)

CHAPTER 5. LOST FOAM CASTING MARKET: END USE ESTIMATES & TREND ANALYSIS

- 5.1. Lost Foam Casting Market: End Use Movement Analysis, 2025 & 2033
- 5.2. Automotive
 - 5.2.1. Market estimates and forecasts, 2021 - 2033 (USD Billion) (Kilotons)
- 5.3. Industrial Machinery
 - 5.3.1. Market estimates and forecasts, 2021 - 2033 (USD Billion) (Kilotons)
- 5.4. Agriculture Equipment
 - 5.4.1. Market estimates and forecasts, 2021 - 2033 (USD Billion) (Kilotons)
- 5.5. Aerospace & Defense
 - 5.5.1. Market estimates and forecasts, 2021 - 2033 (USD Billion) (Kilotons)
- 5.6. Others
 - 5.6.1. Market estimates and forecasts, 2021 - 2033 (USD Billion) (Kilotons)

CHAPTER 6. LOST FOAM CASTING MARKET: REGIONAL ESTIMATES & TREND ANALYSIS

- 6.1. Regional Analysis, 2025 & 2033

6.2. North America

6.2.1. Market estimates and forecasts, 2021 - 2033 (USD Billion) (Kilotons)

6.2.2. Market estimates and forecasts, by metal, 2021 - 2033 (USD Billion) (Kilotons)

6.2.3. Market estimates and forecasts, by end use, 2021 - 2033 (USD Billion)

(Kilotons)

6.2.4. U.S.

6.2.4.1. Market estimates and forecasts, 2021 - 2033 (USD Billion) (Kilotons)

6.2.4.2. Market estimates and forecasts, by metal, 2021 - 2033 (USD Billion)

(Kilotons)

6.2.4.3. Market estimates and forecasts, by end use, 2021 - 2033 (USD Billion)

(Kilotons)

6.2.5. Canada

6.2.5.1. Market estimates and forecasts, 2021 - 2033 (USD Billion) (Kilotons)

6.2.5.2. Market estimates and forecasts, by metal, 2021 - 2033 (USD Billion)

(Kilotons)

6.2.5.3. Market estimates and forecasts, by end use, 2021 - 2033 (USD Billion)

(Kilotons)

6.2.6. Mexico

6.2.6.1. Market estimates and forecasts, 2021 - 2033 (USD Billion) (Kilotons)

6.2.6.2. Market estimates and forecasts, by metal, 2021 - 2033 (USD Billion)

(Kilotons)

6.2.6.3. Market estimates and forecasts, by end use, 2021 - 2033 (USD Billion)

(Kilotons)

6.3. Europe

6.3.1. Market estimates and forecasts, 2021 - 2033 (USD Billion) (Kilotons)

6.3.2. Market estimates and forecasts, by metal, 2021 - 2033 (USD Billion) (Kilotons)

6.3.3. Market estimates and forecasts, by end use, 2021 - 2033 (USD Billion)

(Kilotons)

6.3.4. Germany

6.3.4.1. Market estimates and forecasts, 2021 - 2033 (USD Billion) (Kilotons)

6.3.4.2. Market estimates and forecasts, by metal, 2021 - 2033 (USD Billion)

(Kilotons)

6.3.4.3. Market estimates and forecasts, by end use, 2021 - 2033 (USD Billion)

(Kilotons)

6.3.5. Italy

6.3.5.1. Market estimates and forecasts, 2021 - 2033 (USD Billion) (Kilotons)

6.3.5.2. Market estimates and forecasts, by metal, 2021 - 2033 (USD Billion)

(Kilotons)

6.3.5.3. Market estimates and forecasts, by end use, 2021 - 2033 (USD Billion)

(Kilotons)

6.3.6. France

6.3.6.1. Market estimates and forecasts, 2021 - 2033 (USD Billion) (Kilotons)

6.3.6.2. Market estimates and forecasts, by metal, 2021 - 2033 (USD Billion)

(Kilotons)

6.3.6.3. Market estimates and forecasts, by end use, 2021 - 2033 (USD Billion)

(Kilotons)

6.3.7. Russia

6.3.7.1. Market estimates and forecasts, 2021 - 2033 (USD Billion) (Kilotons)

6.3.7.2. Market estimates and forecasts, by metal, 2021 - 2033 (USD Billion)

(Kilotons)

6.3.7.3. Market estimates and forecasts, by end use, 2021 - 2033 (USD Billion)

(Kilotons)

6.4. Asia Pacific

6.4.1. Market estimates and forecasts, 2021 - 2033 (USD Billion) (Kilotons)

6.4.2. Market estimates and forecasts, by metal, 2021 - 2033 (USD Billion) (Kilotons)

6.4.3. Market estimates and forecasts, by end use, 2021 - 2033 (USD Billion)

(Kilotons)

6.4.4. China

6.4.4.1. Market estimates and forecasts, 2021 - 2033 (USD Billion) (Kilotons)

6.4.4.2. Market estimates and forecasts, by metal, 2021 - 2033 (USD Billion)

(Kilotons)

6.4.4.3. Market estimates and forecasts, by end use, 2021 - 2033 (USD Billion)

(Kilotons)

6.4.5. India

6.4.5.1. Market estimates and forecasts, 2021 - 2033 (USD Billion) (Kilotons)

6.4.5.2. Market estimates and forecasts, by metal, 2021 - 2033 (USD Billion)

(Kilotons)

6.4.5.3. Market estimates and forecasts, by end use, 2021 - 2033 (USD Billion)

(Kilotons)

6.4.6. Japan

6.4.6.1. Market estimates and forecasts, 2021 - 2033 (USD Billion) (Kilotons)

6.4.6.2. Market estimates and forecasts, by metal, 2021 - 2033 (USD Billion)

(Kilotons)

6.4.6.3. Market estimates and forecasts, by end use, 2021 - 2033 (USD Billion)

(Kilotons)

6.5. Latin America

6.5.1. Market estimates and forecasts, 2021 - 2033 (USD Billion) (Kilotons)

6.5.2. Market estimates and forecasts, by metal, 2021 - 2033 (USD Billion) (Kilotons)

6.5.3. Market estimates and forecasts, by end use, 2021 - 2033 (USD Billion)
(Kilotons)

6.5.4. Brazil

6.5.4.1. Market estimates and forecasts, 2021 - 2033 (USD Billion) (Kilotons)

6.5.4.2. Market estimates and forecasts, by metal, 2021 - 2033 (USD Billion)
(Kilotons)

6.5.4.3. Market estimates and forecasts, by end use, 2021 - 2033 (USD Billion)
(Kilotons)

6.6. Middle East & Africa

6.6.1. Market estimates and forecasts, 2021 - 2033 (USD Billion) (Kilotons)

6.6.2. Market estimates and forecasts, by metal, 2021 - 2033 (USD Billion) (Kilotons)

6.6.3. Market estimates and forecasts, by end use, 2021 - 2033 (USD Billion)
(Kilotons)

6.6.4. Saudi Arabia

6.6.4.1. Market estimates and forecasts, 2021 - 2033 (USD Billion) (Kilotons)

6.6.4.2. Market estimates and forecasts, by metal, 2021 - 2033 (USD Billion)
(Kilotons)

6.6.4.3. Market estimates and forecasts, by end use, 2021 - 2033 (USD Billion)
(Kilotons)

6.6.5. UAE

6.6.5.1. Market estimates and forecasts, 2021 - 2033 (USD Billion) (Kilotons)

6.6.5.2. Market estimates and forecasts, by metal, 2021 - 2033 (USD Billion)
(Kilotons)

6.6.5.3. Market estimates and forecasts, by end use, 2021 - 2033 (USD Billion)
(Kilotons)

CHAPTER 7. COMPETITIVE LANDSCAPE

7.1. Recent Developments & Impact Analysis, By Key Market Participants

7.2. Company Categorization

7.3. Company Ranking, 2025

7.4. Heat Map Analysis

7.5. Kraljic Matrix

7.6. Vendor Landscape

7.6.1. List of Raw Material Suppliers

7.6.2. List of Distributors

7.7. List of Prospective End-Users

7.8. Strategy Initiatives

7.8.1. Precision Castparts Corp.

- 7.8.1.1. Company Overview
- 7.8.1.2. Financial Performance
- 7.8.1.3. Product Benchmarking
- 7.8.2. Alcoa Corporation
 - 7.8.2.1. Company Overview
 - 7.8.2.2. Financial Performance
 - 7.8.2.3. Product Benchmarking
- 7.8.3. Ryobi Limited
 - 7.8.3.1. Company Overview
 - 7.8.3.2. Financial Performance
 - 7.8.3.3. Product Benchmarking
- 7.8.4. Martinrea International Inc.
 - 7.8.4.1. Company Overview
 - 7.8.4.2. Financial Performance
 - 7.8.4.3. Product Benchmarking
- 7.8.5. Dynacast International Inc.
 - 7.8.5.1. Company Overview
 - 7.8.5.2. Financial Performance
 - 7.8.5.3. Product Benchmarking
- 7.8.6. Gibbs Die Casting Corp.
 - 7.8.6.1. Company Overview
 - 7.8.6.2. Financial Performance
 - 7.8.6.3. Product Benchmarking
- 7.8.7. Grede Holdings LLC
 - 7.8.7.1. Company Overview
 - 7.8.7.2. Financial Performance
 - 7.8.7.3. Product Benchmarking
- 7.8.8. Taiyuan Simis Investment Casting Co., Ltd.
 - 7.8.8.1. Company Overview
 - 7.8.8.2. Financial Performance
 - 7.8.8.3. Product Benchmarking
- 7.8.9. Gujarat Metal Cast
 - 7.8.9.1. Company Overview
 - 7.8.9.2. Financial Performance
 - 7.8.9.3. Product Benchmarking
- 7.8.10. Steelcast Limited
 - 7.8.10.1. Company Overview
 - 7.8.10.2. Financial Performance
 - 7.8.10.3. Product Benchmarking

List Of Tables

LIST OF TABLES

Table 1 Lost foam casting market estimates & forecasts, 2021 - 2033 (USD Billion) (Kilotons)

Table 2 Lost foam casting market estimates and forecasts, by iron, 2021 - 2033 (USD Billion) (Kilotons)

Table 3 Lost foam casting market estimates and forecasts, by aluminum, 2021 - 2033 (USD Billion) (Kilotons)

Table 4 Lost foam casting market estimates and forecasts, by steel, 2021 - 2033 (USD Billion) (Kilotons)

Table 5 Lost foam casting market estimates and forecasts, by others, 2021 - 2033 (USD Billion) (Kilotons)

Table 6 Lost foam casting market estimates and forecasts, in automotive, 2021 - 2033 (USD Billion) (Kilotons)

Table 7 Lost foam casting market estimates and forecasts, in industrial machinery, 2021 - 2033 (USD Billion) (Kilotons)

Table 8 Lost foam casting market estimates and forecasts, in agriculture equipment, 2021 - 2033 (USD Billion) (Kilotons)

Table 9 Lost foam casting market estimates and forecasts, in aerospace & defense, 2021 - 2033 (USD Billion) (Kilotons)

Table 10 Lost foam casting market estimates and forecasts, in others, 2021 - 2033 (USD Billion) (Kilotons)

Table 11 North America lost foam casting market estimates & forecasts, 2021 - 2033 (USD Billion) (Kilotons)

Table 12 North America lost foam casting market estimates & forecasts, by metal, 2021 - 2033 (USD Billion) (Kilotons)

Table 13 North America lost foam casting market estimates & forecasts, by end use, 2021 - 2033 (USD Billion) (Kilotons)

Table 14 U.S. lost foam casting market estimates & forecasts, 2021 - 2033 (USD Billion) (Kilotons)

Table 15 U.S. lost foam casting market estimates & forecasts, by metal, 2021 - 2033 (USD Billion) (Kilotons)

Table 16 U.S. lost foam casting market estimates & forecasts, by end use, 2021 - 2033 (USD Billion) (Kilotons)

Table 17 Canada lost foam casting market estimates & forecasts, 2021 - 2033 (USD Billion) (Kilotons)

Table 18 Canada lost foam casting market estimates & forecasts, by metal, 2021 - 2033

(USD Billion) (Kilotons)

Table 19 Canada lost foam casting market estimates & forecasts, by end use, 2021 - 2033 (USD Billion) (Kilotons)

Table 20 Mexico lost foam casting market estimates & forecasts, 2021 - 2033 (USD Billion) (Kilotons)

Table 21 Mexico lost foam casting market estimates & forecasts, by metal, 2021 - 2033 (USD Billion) (Kilotons)

Table 22 Mexico lost foam casting market estimates & forecasts, by end use, 2021 - 2033 (USD Billion) (Kilotons)

Table 23 Europe lost foam casting market estimates & forecasts, 2021 - 2033 (USD Billion) (Kilotons)

Table 24 Europe lost foam casting market estimates & forecasts, by metal, 2021 - 2033 (USD Billion) (Kilotons)

Table 25 Europe lost foam casting market estimates & forecasts, by end use, 2021 - 2033 (USD Billion) (Kilotons)

Table 26 Germany lost foam casting market estimates & forecasts, 2021 - 2033 (USD Billion) (Kilotons)

Table 27 Germany lost foam casting market estimates & forecasts, by metal, 2021 - 2033 (USD Billion) (Kilotons)

Table 28 Germany lost foam casting market estimates & forecasts, by end use, 2021 - 2033 (USD Billion) (Kilotons)

Table 29 France lost foam casting market estimates & forecasts, 2021 - 2033 (USD Billion) (Kilotons)

Table 30 France lost foam casting market estimates & forecasts, by metal, 2021 - 2033 (USD Billion) (Kilotons)

Table 31 France lost foam casting market estimates & forecasts, by end use, 2021 - 2033 (USD Billion) (Kilotons)

Table 32 Italy lost foam casting market estimates & forecasts, 2021 - 2033 (USD Billion) (Kilotons)

Table 33 Italy lost foam casting market estimates & forecasts, by metal, 2021 - 2033 (USD Billion) (Kilotons)

Table 34 Italy lost foam casting market estimates & forecasts, by end use, 2021 - 2033 (USD Billion) (Kilotons)

Table 35 Russia lost foam casting market estimates & forecasts, 2021 - 2033 (USD Billion) (Kilotons)

Table 36 Russia lost foam casting market estimates & forecasts, by metal, 2021 - 2033 (USD Billion) (Kilotons)

Table 37 Russia lost foam casting market estimates & forecasts, by end use, 2021 - 2033 (USD Billion) (Kilotons)

Table 38 Asia Pacific lost foam casting market estimates & forecasts, 2021 - 2033 (USD Billion) (Kilotons)

Table 39 Asia Pacific lost foam casting market estimates & forecasts, by metal, 2021 - 2033 (USD Billion) (Kilotons)

Table 40 Asia Pacific lost foam casting market estimates & forecasts, by end use, 2021 - 2033 (USD Billion) (Kilotons)

Table 41 China lost foam casting market estimates & forecasts, 2021 - 2033 (USD Billion) (Kilotons)

Table 42 China lost foam casting market estimates & forecasts, by metal, 2021 - 2033 (USD Billion) (Kilotons)

Table 43 China lost foam casting market estimates & forecasts, by end use, 2021 - 2033 (USD Billion) (Kilotons)

Table 44 India lost foam casting market estimates & forecasts, 2021 - 2033 (USD Billion) (Kilotons)

Table 45 India lost foam casting market estimates & forecasts, by metal, 2021 - 2033 (USD Billion) (Kilotons)

Table 46 India lost foam casting market estimates & forecasts, by end use, 2021 - 2033 (USD Billion) (Kilotons)

Table 47 Japan lost foam casting market estimates & forecasts, 2021 - 2033 (USD Billion) (Kilotons)

Table 48 Japan lost foam casting market estimates & forecasts, by metal, 2021 - 2033 (USD Billion) (Kilotons)

Table 49 Japan lost foam casting market estimates & forecasts, by end use, 2021 - 2033 (USD Billion) (Kilotons)

Table 50 Latin America lost foam casting market estimates & forecasts, 2021 - 2033 (USD Billion) (Kilotons)

Table 51 Latin America lost foam casting market estimates & forecasts, by metal, 2021 - 2033 (USD Billion) (Kilotons)

Table 52 Latin America lost foam casting market estimates & forecasts, by end use, 2021 - 2033 (USD Billion) (Kilotons)

Table 53 Brazil lost foam casting market estimates & forecasts, 2021 - 2033 (USD Billion) (Kilotons)

Table 54 Brazil lost foam casting market estimates & forecasts, by metal, 2021 - 2033 (USD Billion) (Kilotons)

Table 55 Brazil lost foam casting market estimates & forecasts, by end use, 2021 - 2033 (USD Billion) (Kilotons)

Table 56 Middle East & Africa lost foam casting market estimates & forecasts, 2021 - 2033 (USD Billion) (Kilotons)

Table 57 Middle East & Africa lost foam casting market estimates & forecasts, by metal,

2021 - 2033 (USD Billion) (Kilotons)

Table 58 Middle East & Africa lost foam casting market estimates & forecasts, by end use, 2021 - 2033 (USD Billion) (Kilotons)

Table 59 Saudi Arabia lost foam casting market estimates & forecasts, 2021 - 2033 (USD Billion) (Kilotons)

Table 60 Saudi Arabia lost foam casting market estimates & forecasts, by metal, 2021 - 2033 (USD Billion) (Kilotons)

Table 61 Saudi Arabia lost foam casting market estimates & forecasts, by end use, 2021 - 2033 (USD Billion) (Kilotons)

Table 62 UAE lost foam casting market estimates & forecasts, 2021 - 2033 (USD Billion) (Kilotons)

Table 63 UAE lost foam casting market estimates & forecasts, by metal, 2021 - 2033 (USD Billion) (Kilotons)

Table 64 UAE lost foam casting market estimates & forecasts, by end use, 2021 - 2033 (USD Billion) (Kilotons)

List Of Figures

LIST OF FIGURES

- Fig. 1 Market segmentation
- Fig. 2 Information procurement
- Fig. 3 Data analysis models
- Fig. 4 Market formulation and validation
- Fig. 5 Market snapshot
- Fig. 6 Segmental outlook
- Fig. 7 Competitive outlook
- Fig. 8 Lost foam casting market outlook, 2021 - 2033 (USD Billion) (Kilotons)
- Fig. 9 Value chain analysis
- Fig. 10 Market dynamics
- Fig. 11 Porter's analysis
- Fig. 12 PESTEL analysis
- Fig. 13 Lost foam casting market, by metal: Key takeaways
- Fig. 14 Lost foam casting market, by metal: Market share, 2025 & 2033
- Fig. 15 Lost foam casting market, by end use: Key takeaways
- Fig. 16 Lost foam casting market, by end use: Market share, 2025 & 2033
- Fig. 17 Lost foam casting market: Regional analysis, 2025
- Fig. 18 Lost foam casting market, by region: Key takeaways

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