

Aluminum Casting Market Set to Soar: Driving Innovation, Efficiency, and Global Growth 2025 | DataM Intelligence

The Global Aluminum Casting Market is expected to reach at a CAGR of 7.5% during the forecast period 2024-2031.

AUSTIN, TX, UNITED STATES, August 5, 2025 /EINPresswire.com/ -- According to DataM Intelligence, The Global [Aluminum Casting Market](#), valued at USD 70.5 billion in 2023, is expected to grow to USD 125.7 billion by 2031, reflecting a CAGR of 7.5% between 2024 and 2031. Growth is driven by increasing demand in the automotive and aerospace sectors, rising adoption of lightweight materials, rapid industrialization, and expanding applications in renewable energy and construction to enhance efficiency and sustainability.



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Global Aluminum Casting Market set for robust growth driven by rising demand in automotive, aerospace, and industrial sectors, offering lightweight & durable solutions.”

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Market Drivers and Opportunities:

Lightweight Materials for Fuel Efficiency: Growing regulations such as the U.S. Corporate Average Fuel Economy (CAFE) standards, with efficiency targets of 54.5 mpg by 2026, are advancing the adoption of aluminium castings in automotive manufacturing.

Construction Boom: Robust investments in road and

building construction, particularly in emerging economies, are heightening demand.

Sustainability Initiatives: Innovations such as Rio Tinto's low-carbon aluminium alloys and the ELYSIS™ emissions-free smelting process from Alcoa are positioning aluminium casting as an environmentally proactive solution.

Industry Consolidation: Mergers, acquisitions, and strategic partnerships, like Wencan Group's investments in new manufacturing bases, are accelerating technological innovation and market expansion.

Market Segmentation:

By Process:

Die Casting

Sand Casting

Investment Casting

Continuous Casting

Shell Molding

Lost-Foam Casting

Centrifugal Casting

Low-Pressure Casting

Permanent Mold Casting.

By Alloy:

A356

A360

A380

A383.

By End-User:

Automotive and Transportation

Industrial

Aircrafts

Agriculture

Military and Defence

Building and Construction

Others.

By Region:

North America

Europe

South America

Asia Pacific

Middle East

Africa.

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Market Geographical Share:

Asia-Pacific leads the global market, holding over 35% share. The region's advantage stems from cost-efficient production in China and India, coupled with a robust automobile sector. Growing adoption of lightweight castings, particularly in electric and hybrid vehicles, is driving the region's expansion.

North America: Accounts for nearly 25% of the market, led by the U.S., which benefits from strong environmental policies and a mature manufacturing sector.

Europe: Focused on sustainable practices and stringent emissions regulations, sustaining steady growth.

Japan: Recognized for technological advancement and a vital automotive sector, Japan's aluminium casting industry is seeing resurgence, especially as automotive production recovers in 2024.

Market Key Players:

Prominent companies shaping the competitive landscape include:

Alcoa Corporation
RYOBI Aluminum Casting (UK) Ltd.
Rio Tinto
Arconic Inc.
Dynacast International
Endurance Technologies Ltd.
Ryobi Die Casting
Consolidated Metco, Inc.
BUVO Castings
Alcast Technologies.

Recent Developments:

United States

2025: U.S. aluminium casting market is expected to reach over \$41 billion by 2034, driven by advancements in electric vehicle components, increased automation, and a strong aerospace market.

2024: Implementation of stricter emission regulations incentivizes domestic automakers to ramp up aluminium component usage, with ongoing investments in eco-friendly foundry technologies supporting North America's leadership in sustainable manufacturing.

Japan

2025: Japanese aluminium casting sector is projected to grow to \$2.3 billion by 2033, bolstered by further advancements in die casting technology and increased demand from hybrid and electric vehicles.

2024: Recovery in automotive production has led to record sales at major firms like Ryobi Limited, which recently reported its highest-ever annual dividend amidst strong domestic and overseas demand for lightweight aluminium parts. The company also absorbed increased energy costs through higher sales volumes and a favorable currency environment.

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Conclusion:

The Aluminium Casting Industry is set for robust global growth through 2031 and beyond, led by innovation in lightweight automotive engineering, sustainable production processes, and booming construction activity across Asia-Pacific and North America. Continuous advancements, strategic investments, and sustainability initiatives by industry leaders are expected to further catalyze market expansion, making aluminium casting a cornerstone of modern manufacturing for years to come.

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Sai Kiran

DataM Intelligence 4Market Research

+1 877-441-4866

Sai.k@datamintelligence.com

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