

Aluminum Casting Market to Surpass USD 119.3 Billion by 2031 with 5.4% CAGR Growth | TMR

Increased infrastructure investments and widespread use of aluminum castings in the automotive sector are driving market growth.

WILMINGTON, DE, UNITED STATES,
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EINPresswire.com/ -- The global [aluminum casting market](#) is estimated to flourish at a CAGR of 5.4% from 2023 to 2031. Transparency Market Research projects that the overall sales revenue for aluminum casting is estimated to reach US\$ 119.3 billion by the end of 2031. A prominent shaping the aluminum casting market, the increasing focus on additive manufacturing technologies stands out.



Aluminum Castings Market

Additive manufacturing or 3D printing offers opportunities for complex aluminum parts production, reducing material wastage and enabling intricate designs with enhanced functionalities. This disruptive technology is gradually infiltrating the aluminum casting landscape, particularly in prototyping and low-volume production, transforming traditional casting approaches.

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A pivotal driver is the integration of smart manufacturing and IoT in aluminum casting processes. IoT-enabled sensors and data analytics optimize casting operations by monitoring equipment performance, predicting maintenance needs, and improving overall efficiency. These advancements aid in quality control, reducing downtime, and enhancing productivity in casting facilities.

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Secondary sources lead the aluminum casting market due to the prevalent use of recycled aluminum in casting processes.

Die casting stands as the leading process segment in the aluminum casting market due to its efficiency and precision.

Automotive applications, including passenger cars, commercial vehicles, and motorbikes, stand as the leading segment in the aluminum casting market.

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Rising preference for lightweight materials in automotive and aerospace industries escalates the demand for aluminum castings.

Continuous innovations in casting processes drive efficiency and product quality improvements.

Growing focus on eco-friendly casting methods and recyclable materials fosters market growth.

Developing economies in Asia Pacific witness increased infrastructure and manufacturing, boosting aluminum casting demands.

Aluminum casting applications expand across diverse industries like construction, electronics, and renewable energy, widening market opportunities.

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North America: Advanced manufacturing by key players like Arconic Inc. drives growth in the automotive and aerospace sectors, supported by stringent quality standards and technological advancements.

Europe: Companies like Alcast Technologies Ltd. lead with innovations and sustainable practices, fueled by strong automotive manufacturing and demand for lightweight materials.

Asia Pacific: Rapid growth from expanding manufacturing and infrastructure, with key players like Consolidated Metco Inc. leveraging rising automotive production and industrial development. Collaborations and technology adoption enhance market growth.

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Alcast Technologies specializes in high-quality aluminum and magnesium Casting for various industries. Their portfolio includes precision components and assemblies, leveraging advanced casting technologies to meet diverse manufacturing needs with a focus on quality and reliability.

Arconic Inc. is a global leader in lightweight metals engineering and manufacturing solutions. Their product range encompasses aerospace components, automotive parts, and innovative materials, delivering high-performance solutions that elevate industries worldwide.

Consolidated Metco Inc. excels in providing wheel-end solutions for commercial vehicles. Their product lineup includes wheel hubs, brakes, and related components, ensuring durability and performance for the transportation industry's stringent demands.

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The aluminum casting market boasts a competitive landscape with key players like Alcast Technologies Ltd., Arconic Inc., and Consolidated Metco Inc. dominating. These industry leaders offer a diverse array of aluminum casting solutions, leveraging advanced technologies and robust manufacturing capabilities.

Emerging players contribute to market dynamics. Factors driving competition include technological innovations, sustainable practices, and strategic partnerships. The market thrives on meeting diverse industry demands, particularly in automotive, aerospace, and industrial sectors, fostering a competitive environment where companies strive for excellence through R&D and delivering high-quality aluminum casting solutions globally. Some prominent manufacturers are as follows:

- Alcast Technologies Ltd.
- Arconic Inc.
- Consolidated Metco Inc.
- Dynacast International
- Gibbs Die Casting Corp.
- Ryobi Ltd.
- Bodine Aluminum Inc.
- Endurance Technologies Ltd.

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- Primary
- Secondary

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Die Casting
Permanent Mold Casting
Sand Casting

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Automotive (Passenger Cars & LCV, Commercial Vehicles, and Motor Bikes)
Non-Automotive (Infrastructure, Industrial, and Others (Consumer Products, Aerospace, etc.))

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North America
Europe
Asia Pacific
MEA
South America

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[Foam Trays Market](#)- The global foam trays market was valued at US\$ 3.0 Bn in 2021. It is estimated to grow at a CAGR of 3.2% from 2022 to 2031. The global foam trays market is expected to reach US\$ 3.9 Bn by the end of 2031.

[Copper Pipes & Tubes Market](#)- The global copper pipes & tubes market was valued at US\$ 32.1 Bn in 2021. It is estimated to grow at a CAGR of 3.1% from 2022 to 2031. The global copper pipes & tubes market is expected to reach US\$ 44 Bn by the end of 2031.

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Atil Chaudhari
Transparency Market Research Inc.
+ +1 518-618-1030

[email us here](#)

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