

Die Casting Market Size, Share, Trends and Forecast by Process, Raw Material, Application, and Region, 2025-2033

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Abstracts

The global die casting market size was valued at USD 69.72 Billion in 2024. Looking forward, IMARC Group estimates the market to reach USD 112.27 Billion by 2033, exhibiting a CAGR of 5.17% during 2025-2033. Asia Pacific currently dominates the market, holding a market share of over 54.3% in 2024. The die casting market share in the region is driven by rising demand for lightweight automotive components, rapid technological advancements, growing consumer electronics sector, escalating aerospace sector expansion, increasing sustainability initiatives, and manufacturing growth.

Die casting refers to a process of pouring molten metal into molds under high pressure to produce accurate metal parts. It is manufactured using metals such as lead, zinc, magnesium, aluminum, copper, and tin-based alloys. It is widely used to produce industrial components, decorative hardware, connector housings, toys, golf clubs, engine fans, and valves. As compared to other manufacturing processes, die casting reduces production costs, eliminates assembly operations, and provides greater consistency. It also reduces metal scrap, augments the production rate, and provides higher accuracy and single mold design. As a result, die casting finds extensive applications across the automotive, aerospace, defense, electronics, transportation, construction, and manufacturing industries.

Die Casting Market Trends:

The global die casting market is primarily being driven by significant growth in the automotive industry. Die casting is widely used to manufacture components for chassis, transmission, engine, brakes, power steering, and vehicle interior. In line with this, the

widespread adoption of aluminum die casting for manufacturing lightweight vehicle parts to reduce fuel consumption is acting as another growth-inducing factor. Furthermore, increasing product utilization in the electronics industry to produce flexible, light, heat-resistant, and highly durable precision parts for smartphones, laptops, home appliances, and drones is providing a considerable boost to market growth. Apart from this, the advent of improved casting technology and the introduction of automation to improve consistency, offer higher speed, reduce waste, and minimize worker contact with molten metal is creating a positive outlook for the market. Moreover, widespread product utilization in the healthcare industry to manufacture complex medical devices, such as ultrasound systems, pacemakers, dialysis equipment, medical robots, monitoring devices, and hospital bed gearboxes, is providing an impetus to market growth. Other factors, including increasing investments in the manufacturing industry by several governments and the widespread product utilization in the energy sector to produce piping, drilling machinery, flow controls, and filtration devices, are anticipated to drive the market growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global die casting market, along with forecast at the global, regional, and country levels from 2025-2033. The market has been categorized based on process, raw material, and application.

Breakup by Process:

Pressure Die Casting

Vacuum Die Casting

Squeeze Die Casting

Others

Breakup by Raw Material:

Aluminum

Magnesium

Zinc

Breakup by Application:

Automobile

Body Parts

Engine Parts

Transmission Parts

Others

Heavy Equipment

Construction

Farming

Mining

Machine Tools

Plant Machinery

Chemical Plants

Petroleum Plants

Thermal Plants

Paper

Textile

Others

Municipal Castings

Valves and Fittings

Pipes

Others

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Dynacast International Inc. (Form Technologies Inc.), Endurance Technologies Limited, Georg Fischer Ltd., Gibbs Die Casting Corp. (Koch Enterprises Inc.), Nemak S.A.B. de C.V., Pace Industries (Leggett & Platt), Rheinmetall AG, Rockman Industries, Ryobi Die Casting (USA) Inc. (Ryobi Limited), Sandhar Technologies Limited, Shiloh Industries Inc. and Sundaram - Clayton Limited.

Key Questions Answered in This Report

- 1.How big is the die casting market?
- 2.What is the future outlook of die casting market?
- 3.What are the key factors driving the die casting market?

4.Which region accounts for the largest die casting market share?

5.Which are the leading companies in the global die casting market?

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