

Die Casting Market Report by Process (Pressure Die Casting, Vacuum Die Casting, Squeeze Die Casting, and Others), Raw Material (Aluminum, Magnesium, Zinc), Application (Automobile, Heavy Equipment, Machine Tools, Plant Machinery, Municipal Castings, and Others), and Region 2024-2032

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Abstracts

The global die casting market size reached US\$ 66.1 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 108.0 Billion by 2032, exhibiting a growth rate (CAGR) of 5.44% during 2024-2032.

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 sub-segment of the global die casting market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market 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. What was the size of the global die casting market in 2023?
2. What is the expected growth rate of the global die casting market during 2024-2032?
3. What are the key factors driving the global die casting market?
4. What has been the impact of COVID-19 on the global die casting market?
5. What is the breakup of the global die casting market based on the process?
6. What is the breakup of the global die casting market based on raw material?
7. What is the breakup of the global die casting market based on the application?
8. What are the key regions in the global die casting market?
9. Who are the key players/companies in the global die casting market?

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