

Die Casting Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

<https://marketpublishers.com/r/DD89AFAE390CEN.html>

Date: March 2023

Pages: 143

Price: US\$ 2,499.00 (Single User License)

ID: DD89AFAE390CEN

Abstracts

Market Overview:

The global die casting market size reached US\$ 62.4 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 87.1 Billion by 2028, exhibiting a growth rate (CAGR) of 5.9% during 2023-2028.

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 2023-2028. 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:

How has the global die casting market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global die casting market?

What are the key regional markets?

What is the breakup of the market based on the process?

What is the breakup of the market based on the raw material?

What is the breakup of the market based on the application?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global die casting market and who are the key players?

What is the degree of competition in the industry?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL DIE CASTING MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY PROCESS

- 6.1 Pressure Die Casting
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Vacuum Die Casting
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
- 6.3 Squeeze Die Casting

- 6.3.1 Market Trends
- 6.3.2 Market Forecast
- 6.4 Others
 - 6.4.1 Market Trends
 - 6.4.2 Market Forecast

7 MARKET BREAKUP BY RAW MATERIAL

- 7.1 Aluminum
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
- 7.2 Magnesium
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
- 7.3 Zinc
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast

8 MARKET BREAKUP BY APPLICATION

- 8.1 Automobile
 - 8.1.1 Market Trends
 - 8.1.2 Key Segments
 - 8.1.2.1 Body Parts
 - 8.1.2.2 Engine Parts
 - 8.1.2.3 Transmission Parts
 - 8.1.2.4 Others
 - 8.1.3 Market Forecast
- 8.2 Heavy Equipment
 - 8.2.1 Market Trends
 - 8.2.2 Key Segments
 - 8.2.2.1 Construction
 - 8.2.2.2 Farming
 - 8.2.2.3 Mining
 - 8.2.3 Market Forecast
- 8.3 Machine Tools
 - 8.3.1 Market Trends
 - 8.3.2 Market Forecast
- 8.4 Plant Machinery

- 8.4.1 Market Trends
- 8.4.2 Key Segments
 - 8.4.2.1 Chemical Plants
 - 8.4.2.2 Petroleum Plants
 - 8.4.2.3 Thermal Plants
 - 8.4.2.4 Paper
 - 8.4.2.5 Textile
 - 8.4.2.6 Others
- 8.4.3 Market Forecast
- 8.5 Municipal Castings
 - 8.5.1 Market Trends
 - 8.5.2 Key Segments
 - 8.5.2.1 Valves and Fittings
 - 8.5.2.2 Pipes
 - 8.5.3 Market Forecast
- 8.6 Others
 - 8.6.1 Market Trends
 - 8.6.2 Market Forecast

9 MARKET BREAKUP BY REGION

- 9.1 North America
 - 9.1.1 United States
 - 9.1.1.1 Market Trends
 - 9.1.1.2 Market Forecast
 - 9.1.2 Canada
 - 9.1.2.1 Market Trends
 - 9.1.2.2 Market Forecast
- 9.2 Asia-Pacific
 - 9.2.1 China
 - 9.2.1.1 Market Trends
 - 9.2.1.2 Market Forecast
 - 9.2.2 Japan
 - 9.2.2.1 Market Trends
 - 9.2.2.2 Market Forecast
 - 9.2.3 India
 - 9.2.3.1 Market Trends
 - 9.2.3.2 Market Forecast
 - 9.2.4 South Korea

- 9.2.4.1 Market Trends
- 9.2.4.2 Market Forecast
- 9.2.5 Australia
 - 9.2.5.1 Market Trends
 - 9.2.5.2 Market Forecast
- 9.2.6 Indonesia
 - 9.2.6.1 Market Trends
 - 9.2.6.2 Market Forecast
- 9.2.7 Others
 - 9.2.7.1 Market Trends
 - 9.2.7.2 Market Forecast
- 9.3 Europe
 - 9.3.1 Germany
 - 9.3.1.1 Market Trends
 - 9.3.1.2 Market Forecast
 - 9.3.2 France
 - 9.3.2.1 Market Trends
 - 9.3.2.2 Market Forecast
 - 9.3.3 United Kingdom
 - 9.3.3.1 Market Trends
 - 9.3.3.2 Market Forecast
 - 9.3.4 Italy
 - 9.3.4.1 Market Trends
 - 9.3.4.2 Market Forecast
 - 9.3.5 Spain
 - 9.3.5.1 Market Trends
 - 9.3.5.2 Market Forecast
 - 9.3.6 Russia
 - 9.3.6.1 Market Trends
 - 9.3.6.2 Market Forecast
 - 9.3.7 Others
 - 9.3.7.1 Market Trends
 - 9.3.7.2 Market Forecast
- 9.4 Latin America
 - 9.4.1 Brazil
 - 9.4.1.1 Market Trends
 - 9.4.1.2 Market Forecast
 - 9.4.2 Mexico
 - 9.4.2.1 Market Trends

9.4.2.2 Market Forecast

9.4.3 Others

9.4.3.1 Market Trends

9.4.3.2 Market Forecast

9.5 Middle East and Africa

9.5.1 Market Trends

9.5.2 Market Breakup by Country

9.5.3 Market Forecast

10 SWOT ANALYSIS

10.1 Overview

10.2 Strengths

10.3 Weaknesses

10.4 Opportunities

10.5 Threats

11 VALUE CHAIN ANALYSIS

12 PORTERS FIVE FORCES ANALYSIS

12.1 Overview

12.2 Bargaining Power of Buyers

12.3 Bargaining Power of Suppliers

12.4 Degree of Competition

12.5 Threat of New Entrants

12.6 Threat of Substitutes

13 PRICE ANALYSIS

14 COMPETITIVE LANDSCAPE

14.1 Market Structure

14.2 Key Players

14.3 Profiles of Key Players

14.3.1 Dynacast International Inc. (Form Technologies Inc.)

14.3.1.1 Company Overview

14.3.1.2 Product Portfolio

14.3.2 Endurance Technologies Limited

- 14.3.2.1 Company Overview
- 14.3.2.2 Product Portfolio
- 14.3.2.3 Financials
- 14.3.3 Georg Fischer Ltd.
 - 14.3.3.1 Company Overview
 - 14.3.3.2 Product Portfolio
 - 14.3.3.3 Financials
- 14.3.4 Gibbs Die Casting Corp. (Koch Enterprises Inc.)
 - 14.3.4.1 Company Overview
 - 14.3.4.2 Product Portfolio
- 14.3.5 Nemak S.A.B. de C.V.
 - 14.3.5.1 Company Overview
 - 14.3.5.2 Product Portfolio
 - 14.3.5.3 Financials
- 14.3.6 Pace Industries (Leggett & Platt)
 - 14.3.6.1 Company Overview
 - 14.3.6.2 Product Portfolio
- 14.3.7 Rheinmetall AG
 - 14.3.7.1 Company Overview
 - 14.3.7.2 Product Portfolio
 - 14.3.7.3 Financials
- 14.3.8 Rockman Industries
 - 14.3.8.1 Company Overview
 - 14.3.8.2 Product Portfolio
- 14.3.9 Ryobi Die Casting (USA) Inc. (Ryobi Limited)
 - 14.3.9.1 Company Overview
 - 14.3.9.2 Product Portfolio
- 14.3.10 Sandhar Technologies Limited
 - 14.3.10.1 Company Overview
 - 14.3.10.2 Product Portfolio
 - 14.3.10.3 Financials
- 14.3.11 Shiloh Industries Inc.
 - 14.3.11.1 Company Overview
 - 14.3.11.2 Product Portfolio
- 14.3.12 Sundaram - Clayton Limited
 - 14.3.12.1 Company Overview
 - 14.3.12.2 Product Portfolio
 - 14.3.12.3 Financials

List Of Tables

LIST OF TABLES

Table 1: Global: Die Casting Market: Key Industry Highlights, 2022 and 2028

Table 2: Global: Die Casting Market Forecast: Breakup by Process (in Million US\$), 2023-2028

Table 3: Global: Die Casting Market Forecast: Breakup by Raw Material (in Million US\$), 2023-2028

Table 4: Global: Die Casting Market Forecast: Breakup by Application (in Million US\$), 2023-2028

Table 5: Global: Die Casting Market Forecast: Breakup by Region (in Million US\$), 2023-2028

Table 6: Global: Die Casting Market: Competitive Structure

Table 7: Global: Die Casting Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: Die Casting Market: Major Drivers and Challenges

Figure 2: Global: Die Casting Market: Sales Value (in Billion US\$), 2017-2022

Figure 3: Global: Die Casting Market Forecast: Sales Value (in Billion US\$), 2023-2028

Figure 4: Global: Die Casting Market: Breakup by Process (in %), 2022

Figure 5: Global: Die Casting Market: Breakup by Raw Material (in %), 2022

Figure 6: Global: Die Casting Market: Breakup by Application (in %), 2022

Figure 7: Global: Die Casting Market: Breakup by Region (in %), 2022

Figure 8: Global: Die Casting (Pressure Die Casting) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 9: Global: Die Casting (Pressure Die Casting) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 10: Global: Die Casting (Vacuum Die Casting) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 11: Global: Die Casting (Vacuum Die Casting) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 12: Global: Die Casting (Squeeze Die Casting) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 13: Global: Die Casting (Squeeze Die Casting) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 14: Global: Die Casting (Other Processes) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 15: Global: Die Casting (Other Processes) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 16: Global: Die Casting (Aluminum) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 17: Global: Die Casting (Aluminum) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 18: Global: Die Casting (Magnesium) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 19: Global: Die Casting (Magnesium) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 20: Global: Die Casting (Zinc) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 21: Global: Die Casting (Zinc) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 22: Global: Die Casting (Automobile) Market: Sales Value (in Million US\$), 2017

& 2022

Figure 23: Global: Die Casting (Automobile) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 24: Global: Die Casting (Heavy Equipment) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 25: Global: Die Casting (Heavy Equipment) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 26: Global: Die Casting (Machine Tools) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 27: Global: Die Casting (Machine Tools) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 28: Global: Die Casting (Plant Machinery) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 29: Global: Die Casting (Plant Machinery) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 30: Global: Die Casting (Municipal Castings) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 31: Global: Die Casting (Municipal Castings) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 32: Global: Die Casting (Other Applications) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 33: Global: Die Casting (Other Applications) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 34: North America: Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 35: North America: Die Casting Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 36: United States: Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 37: United States: Die Casting Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 38: Canada: Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 39: Canada: Die Casting Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 40: Asia-Pacific: Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 41: Asia-Pacific: Die Casting Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 42: China: Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 43: China: Die Casting Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 44: Japan: Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 45: Japan: Die Casting Market Forecast: Sales Value (in Million US\$),
2023-2028

Figure 46: India: Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 47: India: Die Casting Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 48: South Korea: Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 49: South Korea: Die Casting Market Forecast: Sales Value (in Million US\$),
2023-2028

Figure 50: Australia: Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 51: Australia: Die Casting Market Forecast: Sales Value (in Million US\$),
2023-2028

Figure 52: Indonesia: Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 53: Indonesia: Die Casting Market Forecast: Sales Value (in Million US\$),
2023-2028

Figure 54: Others: Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 55: Others: Die Casting Market Forecast: Sales Value (in Million US\$),
2023-2028

Figure 56: Europe: Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 57: Europe: Die Casting Market Forecast: Sales Value (in Million US\$),
2023-2028

Figure 58: Germany: Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 59: Germany: Die Casting Market Forecast: Sales Value (in Million US\$),
2023-2028

Figure 60: France: Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 61: France: Die Casting Market Forecast: Sales Value (in Million US\$),
2023-2028

Figure 62: United Kingdom: Die Casting Market: Sales Value (in Million US\$), 2017 &
2022

Figure 63: United Kingdom: Die Casting Market Forecast: Sales Value (in Million US\$),
2023-2028

Figure 64: Italy: Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 65: Italy: Die Casting Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 66: Spain: Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 67: Spain: Die Casting Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 68: Russia: Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 69: Russia: Die Casting Market Forecast: Sales Value (in Million US\$),
2023-2028

Figure 70: Others: Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 71: Others: Die Casting Market Forecast: Sales Value (in Million US\$),

2023-2028

Figure 72: Latin America: Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 73: Latin America: Die Casting Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 74: Brazil: Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 75: Brazil: Die Casting Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 76: Mexico: Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 77: Mexico: Die Casting Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 78: Others: Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 79: Others: Die Casting Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 80: Middle East and Africa: Die Casting Market: Sales Value (in Million US\$), 2017 & 2022

Figure 81: Middle East and Africa: Die Casting Market: Breakup by Country (in %), 2022

Figure 82: Middle East and Africa: Die Casting Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 83: Global: Die Casting Industry: SWOT Analysis

Figure 84: Global: Die Casting Industry: Value Chain Analysis

Figure 85: Global: Die Casting Industry: Porter's Five Forces Analysis

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