

Metal Casting Market: Segmented: By Process (Gravity Casting, High-Pressure Die Casting [HPDC], Low-Pressure Die Casting [LPDC], Sand Casting), By Material Type (Aluminum, Cast Iron, Magnesium, Zinc, Others), By Components (Alloy Wheel, Clutch Casing, Cylinder Head, Cross Car Beam, Crank Case, Battery Housing, Others) By Application (Body Assemblies, Engine Parts, Transmission Parts), By Vehicle Type (Passenger Car, HCV, BEV, HEV, PHEV), And Region – Global Analysis of Market Size, Share & Trends For 2019–2021 And Forecasts To 2031

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Abstracts

[170+ pages Report] Metal Casting Market to surpass USD 248.9 billion by 2031 from USD 91.7 billion in 2021 at a CAGR of 10.5% in the coming years, i.e., 2021-2031.

Product Overview

Metal casting is the technique of pouring molten metal into a mold with a hollow chamber of a desired geometrical shape and allowing it to cool to form a hardened object. It has traditionally been used to build intricate and/or huge items that would be difficult or expensive to manufacture using other methods. Casting is mostly used to create ingots and forms. An ingot is a simple-shaped casting intended for additional processing such as metal extrusion, forging, and so on. Form casting is used to create complex geometries that are closer to the final product in near or net shape castings.

Market Highlights

Metal Casting Market: Segmented: By Process (Gravity Casting, High-Pressure Die Casting [HPDC], Low-Pressure D...

Global Metal Casting Market is expected to project a notable CAGR of 10.5% in 2031.

During the forecast period, factors such as rising demand for casting from the automotive industry and benefits provided by the casting process such as increased precision, accuracy, faster cycle time, and excellent surface quality are projected to propel the metal casting market.

Global Metal Casting Market: Segments

Cast Iron segment is predicted to grow with the maximum growth during 2021-31

On the basis of Material Type, the metal casting market is divided into Aluminum, Cast Iron, Magnesium, Zinc, and Others. The iron casting segment has the largest market share in terms of volume. Emerging markets are expected to account for the majority of demand in this area, particularly in the automotive, construction, and oil and gas sectors. Investors are likely to continue to focus on finished casting products.

Engine Parts segment is anticipated to witness maximum growth during 2021-31

On the basis of Application, the metal casting market is divided into Body Assemblies, Engine Parts, Transmission Parts. During the projected period, the engine parts application is expected to lead the metal casting market. Some of the important components evaluated in this application include cylinder heads, engine block, engine mounts, exhaust manifold, intake manifold, oil pan, and turbochargers. The casted iron engine block is being replaced by an aluminum engine block as part of the growing trend of vehicle light-weighting.

Market Dynamics

Drivers

Multiple advantages of metal casting technology are driving the market growth

Metal casting technique has a number of benefits, including the ability to improve energy efficiency, cut production costs, improve environmental quality, and create inventive new cast goods. Pipes and fittings, mining and oilfield machinery, internal combustion engines, railroads, valves, and farm equipment all rely heavily on casting to make homogeneous products because of these advantages. Furthermore, metal casting foundries use metal recycling as a cost-effective supply of raw material, reducing scrap metal significantly.

Extensive research and development in metal casting domain for innovations

The creation of lost foam casting and computer-based visualization tools for die casters to generate alternative means of moulding are examples of ongoing research in the field of metal casting, which ensures innovations and improvements in the casting process.

Restraint

High cost associated with the Casting Materials

The market's growth is being stifled by the high cost of casting materials such as aluminium and magnesium, as well as the metal extrusion method versus die casting.

Global Metal Casting Market: Key Players

POSCO

Company Overview, Business Strategy, Key Product Offerings, Financial Performance, Key Performance Indicators, Risk Analysis, Recent Development, Regional Presence, SWOT Analysis

Arconic

Alcast Technologies

Dynacast

Ryobi Ltd.

Endurance Technologies Limited

Uniabex

MES, Inc.

CALMET

Hitachi Metals

Other Prominent Players

Global Metal Casting Market: Regions

The Global Metal Casting Market is divided into four regions: North America, Europe, Asia Pacific, and the Rest of the World. With a volume share, Asia Pacific was the leading regional Metal Casting Market. In the same year, India and China produced a significant amount of goods. End-use industries such as construction and automotive are boosting product demand in these countries due to rising population and income levels.

Impact of COVID-19 on Metal Casting Market

The COVID-19 has both short and long-term repercussions, causing a crisis in the supply chain, particularly in production and distribution. During the epidemic, the

market's volume and expenses plummeted. The standard limits were that the client is changing its way of life and lifestyle preferences and is not seeking market products. This puts market producers and manufacturers under even more pressure.

Global Metal Casting Market is further segmented by region into:

North America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United States, Mexico, and Canada

Latin America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – Brazil and Rest of Latin America

Europe Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United Kingdom, France, Germany, Italy, Spain, Russia, and Rest of Europe

Asia Pacific Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – India, China, South Korea, Japan, and Rest of APAC

Middle East and Africa Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – South Africa and Rest of Middle east and Africa

Global Metal Casting Market report also contains analysis on:

Metal Casting Market Segments:

By Process

Gravity Casting

High-Pressure Die Casting (HPDC)

Low-Pressure Die Casting (LPDC)

Sand Casting

By Material Type

Aluminum

Cast iron

Magnesium

Zinc

Others

By Components

Alloy Wheel

Clutch Casing

Cylinder Head

Cross Car Beam

Crank Case

Battery Housing

Others

By Application

Body Assemblies

Engine Parts

Transmission Parts

By Vehicle Type

Passenger Car

HCV

BEV

HEV

PHEV

Metal Casting Market Dynamics

Metal Casting Market Size

Supply & Demand

Current Trends/Issues/Challenges

Competition & Companies Involved in the Market

Value Chain of the Market

Market Drivers and Restraints

Metal Casting Market Report Scope and Segmentation

Report Attribute Details

Market size value in 2021 USD 91.7 billion

Revenue forecast in 2031 USD 248.9 billion

Growth Rate CAGR of 10.5% from 2021 to 2031

Base year for estimation 2020

Quantitative units

Revenue in USD million and CAGR from 2021 to 2031

Report coverage Revenue forecast, company ranking, competitive landscape, growth factors, and trends

Segments covered Process, Material Type, Components, Application, Vehicle Type, and Region

Regional scope North America, Europe, Asia Pacific, Latin America, Middle East & Africa (MEA)

Key companies profiled POSCO, Arconic, Alcast Technologies, Dynacast, Ryobi Ltd., Endurance Technologies Limited, Uniabex, MES, Inc., CALMET, Hitachi Metals

Contents

1. EXECUTIVE SUMMARY

2. GLOBAL METAL CASTING MARKET

- 2.1. Product Overview
- 2.2. Market Definition
- 2.3. Segmentation
- 2.4. Assumptions and Acronyms

3. RESEARCH METHODOLOGY

- 3.1. Research Objectives
- 3.2. Primary Research
- 3.3. Secondary Research
- 3.4. Forecast Model
- 3.5. Market Size Estimation

4. AVERAGE PRICING ANALYSIS

5. MACRO-ECONOMIC INDICATORS

6. MARKET DYNAMICS

- 6.1. Growth Drivers
- 6.2. Restraints
- 6.3. Opportunity
- 6.4. Trends

7. CORRELATION & REGRESSION ANALYSIS

- 7.1. Correlation Matrix
- 7.2. Regression Matrix

8. RECENT DEVELOPMENT, POLICIES & REGULATORY LANDSCAPE

9. RISK ANALYSIS

9.1. Demand Risk Analysis

9.2. Supply Risk Analysis

10. GLOBAL METAL CASTING MARKET ANALYSIS

10.1. Porters Five Forces

10.1.1. Threat of New Entrants

10.1.2. Bargaining Power of Suppliers

10.1.3. Threat of Substitutes

10.1.4. Rivalry

10.2. PEST Analysis

10.2.1. Political

10.2.2. Economic

10.2.3. Social

10.2.4. Technological

11. GLOBAL METAL CASTING MARKET

11.1. Market Size & forecast, 2020A-2031F

11.1.1. By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F

11.1.2. By Volume (Million Units) 2020-2031F; Y-o-Y Growth (%) 2021-2031F

12. GLOBAL METAL CASTING MARKET: MARKET SEGMENTATION

12.1. By Regions

12.1.1. North America:(U.S., Mexico, and Canada), By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F

12.1.2. Latin America: (Brazil, Rest of Latin America), By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F

12.1.3. Europe: (Germany, UK, France, Italy, Spain, Russia, Rest of Europe), By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F

12.1.4. Asia-Pacific: (China, India, Japan, South Korea, Rest of Asia Pacific), By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F

12.1.5. Middle East and Africa: (South Africa, Rest of Middle East and Africa), By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F

12.2. By Process: Market Share (2020-2031F)

12.2.1. Gravity Casting, By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F

12.2.2. High-Pressure Die Casting (HPDC), By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F

12.2.3. Low-Pressure Die Casting (LPDC), By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F

12.2.4. Sand Casting, By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F

12.3. By Material Type: Market Share (2020-2031F)

12.3.1. Aluminum, By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F

12.3.2. Cast Iron, By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F

12.3.3. Magnesium, By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F

12.3.4. Zinc, By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F

12.3.5. Others, By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F

12.4. By Components: Market Share (2020-2031F)

12.4.1. Alloy Wheel, By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F

12.4.2. Clutch Casing, By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F

12.4.3. Cylinder Head, By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F

12.4.4. Cross Car Beam, By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F

12.4.5. Crank Case, By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F

12.4.6. Battery Housing, By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F

12.4.7. Others, By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F

12.5. By Application: Market Share (2020-2031F)

12.5.1. Body Assemblies, By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F

12.5.2. Engine Parts, By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F

12.5.3. Transmission Parts, By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F

12.6. By Vehicle Type: Market Share (2020-2031F)

12.6.1. Passenger Car, By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F

12.6.2. HCV, By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F

12.6.3. BEV, By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F

12.6.4. HEV, By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F

12.6.5. PHEV, By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F

13. COMPANY PROFILE

13.1. POSCO

13.1.1. Company Overview

13.1.2. Company Total Revenue (Financials)

13.1.3. Market Potential

13.1.4. Global Presence

13.1.5. Key Performance Indicators

13.1.6. SWOT Analysis

13.1.7. Product Launch

13.2. Arconic

13.3. Alcast Technologies

13.4. Dynacast

13.5. Ryobi Ltd.

13.6. Endurance Technologies Limited

13.7. Uniabex

13.8. MES, Inc.

13.9. CALMET

13.10. Hitachi Metals

13.11. Other Prominent Players

14. CONSULTANT RECOMMENDATION

**The above given segmentations and companies could be subjected to further modification based on in-depth feasibility studies conducted for the final deliverable.

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