

Investment Casting Market Size, Share & Trends Analysis Report By Application (Aerospace & Defense, Oil & Gas, Mechanical Engineering, Automotive), By Region, And Segment Forecasts, 2022 - 2030

<https://marketpublishers.com/r/IC925E9D532AEN.html>

Date: May 2022

Pages: 100

Price: US\$ 5,950.00 (Single User License)

ID: IC925E9D532AEN

Abstracts

This report can be delivered to the clients within 3 Business Days

Investment Casting Market Growth & Trends

The global investment casting market size is expected to reach USD 24.52 billion by 2030, according to a new report by Grand View Research, Inc., expanding at a CAGR of 5.0% over the forecast period. The use of new computer simulation techniques and robotics is projected to boost production rates and contribute to market growth.

The investment casting process is labor-intensive on account of the precision required in the final product, which increases the cost of direct wages to the workers. However, to overcome this, technological advancements have been made by prominent players in the industry with the introduction of electronically operated robotic arms that perform the majority of casting operations. These arms apply various types of ceramic and sand coating to wax patterns and pouring of metal into the cavity.

The investment casting process is widely used for aerospace and automotive parts manufacturing on account of the need for varied sizes and dimensions of the components. The process allows the formation of minute parts by supplying metal casting in the ceramic molds with the exact shape and size of the original components. Several industries are utilizing this process to form the components of desired intricate dimensions.

The process is comparatively easy and accurate as it uses molds to form the components. The wax patterns reflecting detailed measurements of the original component are used as templates, which are then coated with ceramic materials. These patterns are melted and taken out of the mold once the ceramic coatings are hardened. Thus, the exact specification cavities are created inside the molds.

High cost compared to other conventional production methods such as die-casting during high volume production is projected to hinder the market growth. The cost allied to the overall process of the product has a majority share of the raw materials including steel and superalloys. Wax patterns and ceramic or refractory coatings also have significant effects on the overall prices of the process. In addition, expenses paid to the skilled workforce are higher owing to the hazardous and extreme working conditions in the foundries.

Investment Casting Market Report Highlights

By application, medical sector is projected to grow at the highest GAGR of 6.1% over the forecast period. Demand for investment cast products in dental & surgical tools, implantable parts, MRI machines, X-ray equipment, stretchers, and wheelchairs is projected to contribute to the segment growth

Aerospace & defense accounted for the highest share in terms of the consumption of investment cast products in 2021. Several manufacturers of aerospace parts utilize the process to manufacture specialized components for large-size aircraft

Growth in the oil & gas industry across the globe has resulted in ascending demand for casting components. Highly engineered product components manufactured via the investment casting process are utilized in offshore and onshore drilling operations and hydraulic fracturing applications

North America accounted for a revenue share of 36.0% in 2021 of the global market, owing to the high production capacity of key players in the region. The region exhibits a high demand for aerospace and automotive cast finished parts

Contents

CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Market Segmentation & Scope
- 1.2. Market Definition
- 1.3. Information Procurement
 - 1.3.1. Purchased Database
 - 1.3.2. GVR's Internal Database
 - 1.3.3. Secondary Sources & Third-Party Perspectives
 - 1.3.4. Primary Research
- 1.4. Information Analysis
 - 1.4.1. Data Analysis Models
- 1.5. Market Formulation & Data Visualization
- 1.6. Data Validation & Publishing

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Market Outlook
- 2.2. Segmental Outlook
- 2.3. Competitive Insights

CHAPTER 3. MARKET VARIABLES, TRENDS, AND SCOPE

- 3.1. Market Lineage Outlook
 - 3.1.1. Global Casting Industry Outlook
- 3.2. Penetration & Growth Prospect Mapping
- 3.3. Industry Value Chain Analysis
 - 3.3.1. Major Raw Material Trends Analysis
 - 3.3.2. Manufacturing & Technology Trends
 - 3.3.3. Sales Channel Analysis
- 3.4. Regulatory Framework
- 3.5. Investment Casting Market-Market Dynamics
 - 3.5.1. Market Driver Analysis
 - 3.5.2. Market Restraint Analysis
 - 3.5.3. Industry Challenges
- 3.6. Business Environmental Tools Analysis: Investment Casting Market
 - 3.6.1. Porter's Five Forces Analysis
 - 3.6.1.1. Bargaining Power of Suppliers

- 3.6.1.2. Bargaining Power of Buyers
- 3.6.1.3. Threat of Substitution
- 3.6.1.4. Threat of New Entrants
- 3.6.1.5. Competitive Rivalry
- 3.6.2. PESTLE Analysis
 - 3.6.2.1. Political Landscape
 - 3.6.2.2. Economic Landscape
 - 3.6.2.3. Social Landscape
 - 3.6.2.4. Technology Landscape
 - 3.6.2.5. Environmental Landscape
 - 3.6.2.6. Legal Landscape

CHAPTER 4. INVESTMENT CASTING MARKET: APPLICATION ESTIMATES & TREND ANALYSIS

- 4.1. Investment Casting Market: Application Movement Analysis, 2021 & 2030
- 4.2. Aerospace & Defense
 - 4.2.1. Market estimates and forecasts, 2017 - 2030 (USD Billion)
- 4.3. Automotive
 - 4.3.1. Market estimates and forecasts, 2017 - 2030 (USD Billion)
- 4.4. Oil & Gas
 - 4.4.1. Market estimates and forecasts, 2017 - 2030 (USD Billion)
- 4.5. Medical
 - 4.5.1. Market estimates and forecasts, 2017 - 2030 (USD Billion)
- 4.6. Mechanical engineering
 - 4.6.1. Market estimates and forecasts, 2017 - 2030 (USD Billion)
- 4.7. Automation
 - 4.7.1. Market estimates and forecasts, 2017 - 2030 (USD Billion)
- 4.8. Food & Beverages And Packaging Industry
 - 4.8.1. Market estimates and forecasts, 2017 - 2030 (USD Billion)
- 4.9. Energy technology
 - 4.9.1. Market estimates and forecasts, 2017 - 2030 (USD Billion)
- 4.10. Transportation
 - 4.10.1. Market estimates and forecasts, 2017 - 2030 (USD Billion)

CHAPTER 5. INVESTMENT CASTING MARKET: REGIONAL ESTIMATES & TREND ANALYSIS

- 5.1. Regional Market Snapshot

5.2. Investment Casting Market: Regional Movement Analysis, 2021 & 2030

5.3. North America

5.3.1. Market estimates and forecasts, 2017 - 2030 (USD Billion)

5.3.2. Market estimates and forecasts, by application, 2017 - 2030 (USD Billion)

5.3.3. U.S.

5.3.3.1. Market estimates and forecasts, 2017 - 2030 (USD Billion)

5.3.3.2. Market estimates and forecasts, by application, 2017 - 2030 (USD Billion)

5.3.4. Canada

5.3.4.1. Market estimates and forecasts, 2017 - 2030 (USD Billion)

5.3.4.2. Market estimates and forecasts, by application, 2017 - 2030 (USD Billion)

5.3.5. Mexico

5.3.5.1. Market estimates and forecasts, 2017 - 2030 (USD Billion)

5.3.5.2. Market estimates and forecasts, by application, 2017 - 2030 (USD Billion)

5.4. Europe

5.4.1. Market estimates and forecasts, 2017 - 2030 (USD Billion)

5.4.2. Market estimates and forecasts, by application, 2017 - 2030 (USD Billion)

5.4.3. Germany

5.4.3.1. Market estimates and forecasts, 2017 - 2030 (USD Billion)

5.4.3.2. Market estimates and forecasts, by application, 2017 - 2030 (USD Billion)

5.4.4. France

5.4.4.1. Market estimates and forecasts, 2017 - 2030 (USD Billion)

5.4.4.2. Market estimates and forecasts, by application, 2017 - 2030 (USD Billion)

5.4.5. Russia

5.4.5.1. Market estimates and forecasts, 2017 - 2030 (USD Billion)

5.4.5.2. Market estimates and forecasts, by application, 2017 - 2030 (USD Billion)

5.4.6. U.K.

5.4.6.1. Market estimates and forecasts, 2017 - 2030 (USD Billion)

5.4.6.2. Market estimates and forecasts, by application, 2017 - 2030 (USD Billion)

5.4.7. Italy

5.4.7.1. Market estimates and forecasts, 2017 - 2030 (USD Billion)

5.4.7.2. Market estimates and forecasts, by application, 2017 - 2030 (USD Billion)

5.4.8. Spain

5.4.8.1. Market estimates and forecasts, 2017 - 2030 (USD Billion)

5.4.8.2. Market estimates and forecasts, by application, 2017 - 2030 (USD Billion)

5.5. Asia Pacific

5.5.1. Market estimates and forecasts, 2017 - 2030 (USD Billion)

5.5.2. Market estimates and forecasts, by application, 2017 - 2030 (USD Billion)

5.5.3. China

5.5.3.1. Market estimates and forecasts, 2017 - 2030 (USD Billion)

- 5.5.3.2. Market estimates and forecasts, by application, 2017 - 2030 (USD Billion)
- 5.5.4. India
 - 5.5.4.1. Market estimates and forecasts, 2017 - 2030 (USD Billion)
 - 5.5.4.2. Market estimates and forecasts, by application, 2017 - 2030 (USD Billion)
- 5.5.5. Japan
 - 5.5.5.1. Market estimates and forecasts, 2017 - 2030 (USD Billion)
 - 5.5.5.2. Market estimates and forecasts, by application, 2017 - 2030 (USD Billion)
- 5.5.6. South Korea
 - 5.5.6.1. Market estimates and forecasts, 2017 - 2030 (USD Billion)
 - 5.5.6.2. Market estimates and forecasts, by application, 2017 - 2030 (USD Billion)
- 5.5.7. Australia
 - 5.5.7.1. Market estimates and forecasts, 2017 - 2030 (USD Billion)
 - 5.5.7.2. Market estimates and forecasts, by application, 2017 - 2030 (USD Billion)
- 5.5.8. Singapore
 - 5.5.8.1. Market estimates and forecasts, 2017 - 2030 (USD Billion)
 - 5.5.8.2. Market estimates and forecasts, by application, 2017 - 2030 (USD Billion)
- 5.6. Central & South America
 - 5.6.1. Market estimates and forecasts, 2017 - 2030 (USD Billion)
 - 5.6.2. Market estimates and forecasts, by application, 2017 - 2030 (USD Billion)
 - 5.6.3. Brazil
 - 5.6.3.1. Market estimates and forecasts, 2017 - 2030 (USD Billion)
 - 5.6.3.2. Market estimates and forecasts, by application, 2017 - 2030 (USD Billion)
 - 5.6.4. Argentina
 - 5.6.4.1. Market estimates and forecasts, 2017 - 2030 (USD Billion)
 - 5.6.4.2. Market estimates and forecasts, by application, 2017 - 2030 (USD Billion)
- 5.7. Middle East & Africa
 - 5.7.1. Market estimates and forecasts, 2017 - 2030 (USD Billion)
 - 5.7.2. Market estimates and forecasts, by application, 2017 - 2030 (USD Billion)
 - 5.7.3. Saudi Arabia
 - 5.7.3.1. Market estimates and forecasts, 2017 - 2030 (USD Billion)
 - 5.7.3.2. Market estimates and forecasts, by application, 2017 - 2030 (USD Billion)
 - 5.7.4. UAE
 - 5.7.4.1. Market estimates and forecasts, 2017 - 2030 (USD Billion)
 - 5.7.4.2. Market estimates and forecasts, by application, 2017 - 2030 (USD Billion)

CHAPTER 6. COMPETITIVE LANDSCAPE

- 6.1. Key Global Players, Their Initiatives, & Its Impact on the Market
- 6.2. Company Market Ranking Analysis

6.3. Vendor Landscape

6.3.1. List of raw material suppliers, distributors, and other prominent manufacturers

6.3.2. List of prospective end-users

CHAPTER 7. COMPANY PROFILES

7.1. Arconic, Inc.

7.1.1. Company overview

7.1.2. Product benchmarking

7.1.3. Strategic initiatives

7.2. Doncasters Group Ltd.

7.2.1. Company overview

7.2.2. Financial performance

7.2.3. Product benchmarking

7.2.4. Strategic initiatives

7.3. Hitachi Metals, Ltd.

7.3.1. Company overview

7.3.2. Product benchmarking

7.3.3. Strategic initiatives

7.4. MetalTek International

7.4.1. Company overview

7.4.2. Financial performance

7.4.3. Product benchmarking

7.4.4. Strategic initiatives

7.5. Signicast

7.5.1. Company overview

7.5.2. Financial performance

7.5.3. Product benchmarking

7.5.4. Strategic initiatives

7.6. Precision Castparts Corp (Berkshire Hathaway)

7.6.1. Company overview

7.6.2. Financial performance

7.6.3. Product benchmarking

7.6.4. Strategic initiatives

7.7. Zollern GmbH and Co. KG

7.7.1. Company overview

7.7.2. Product benchmarking

7.7.3. Strategic initiatives

7.8. Impro Precision Industries Limited

7.8.1. Company overview

7.8.2. Product benchmarking

7.8.3. Strategic initiatives

7.9. ATI

7.9.1. Company overview

7.9.2. Product benchmarking

7.9.3. Strategic initiatives

7.10. INVESTMENT & PRECISION CASTINGS LTD.

7.10.1. Company overview

7.10.2. Financial performance

7.10.3. Product benchmarking

7.10.4. Strategic initiatives

List Of Tables

LIST OF TABLES

Table 1 Investment casting market estimates and forecasts, in aerospace & defense, 2017 - 2030 (USD Billion)

Table 2 Investment casting market estimates and forecasts, in automotive, 2017 - 2030 (USD Billion)

Table 3 Investment casting market estimates and forecasts, in oil & gas, 2017 - 2030 (USD Billion)

Table 4 Investment casting market estimates and forecasts, in medical, 2017 - 2030 (USD Billion)

Table 5 Investment casting market estimates and forecasts, in mechanical engineering, 2017 - 2030 (USD Billion)

Table 6 Investment casting market estimates and forecasts, in automation, 2017 - 2030 (USD Billion)

Table 7 Investment casting market estimates and forecasts, in food & beverages and packaging industry, 2017 - 2030 (USD Billion)

Table 8 Investment casting market estimates and forecasts, in energy technology, 2017 - 2030 (USD Billion)

Table 9 Investment casting market estimates and forecasts, in transportation, 2017 - 2030 (USD Billion)

Table 10 North America investment casting market estimates and forecasts, 2017 - 2030 (USD Billion)

Table 11 North America investment casting market estimates and forecasts, by application, 2017 - 2030 (USD Billion)

Table 12 U.S. investment casting market estimates and forecasts, 2017 - 2030 (USD Billion)

Table 13 U.S. investment casting market estimates and forecasts, by application, 2017 - 2030 (USD Billion)

Table 14 Canada investment casting market estimates and forecasts, 2017 - 2030 (USD Billion)

Table 15 Canada investment casting market estimates and forecasts, by application, 2017 - 2030 (USD Billion)

Table 16 Mexico investment casting market estimates and forecasts, 2017 - 2030 (USD Billion)

Table 17 Mexico investment casting market estimates and forecasts, by application, 2017 - 2030 (USD Billion)

Table 18 Europe investment casting market estimates and forecasts, 2017 - 2030 (USD Billion)

Table 19 Europe investment casting market estimates and forecasts, by application, 2017 - 2030 (USD Billion)

Table 20 Germany investment casting market estimates and forecasts, 2017 - 2030 (USD Billion)

Table 21 Germany investment casting market estimates and forecasts, by application, 2017 - 2030 (USD Billion)

Table 22 France investment casting market estimates and forecasts, 2017 - 2030 (USD Billion)

Table 23 France investment casting market estimates and forecasts, by application, 2017 - 2030 (USD Billion)

Table 24 Russia investment casting market estimates and forecasts, 2017 - 2030 (USD Billion)

Table 25 Russia investment casting market estimates and forecasts, by application, 2017 - 2030 (USD Billion)

Table 26 U.K. investment casting market estimates and forecasts, 2017 - 2030 (USD Billion)

Table 27 U.K. investment casting market estimates and forecasts, by application, 2017 - 2030 (USD Billion)

Table 28 Italy investment casting market estimates and forecasts, 2017 - 2030 (USD Billion)

Table 29 Italy investment casting market estimates and forecasts, by application, 2017 - 2030 (USD Billion)

Table 30 Spain investment casting market estimates and forecasts, 2017 - 2030 (USD Billion)

Table 31 Spain investment casting market estimates and forecasts, by application, 2017 - 2030 (USD Billion)

Table 32 Asia Pacific investment casting market estimates and forecasts, 2017 - 2030 (USD Billion)

Table 33 Asia Pacific investment casting market estimates and forecasts, by application, 2017 - 2030 (USD Billion)

Table 34 China investment casting market estimates and forecasts, 2017 - 2030 (USD Billion)

Table 35 China investment casting market estimates and forecasts, by application, 2017 - 2030 (USD Billion)

Table 36 India investment casting market estimates and forecasts, 2017 - 2030 (USD Billion)

Table 37 India investment casting market estimates and forecasts, by application, 2017 - 2030 (USD Billion)

Table 38 Japan investment casting market estimates and forecasts, 2017 - 2030 (USD Billion)

Billion)

Table 39 Japan investment casting market estimates and forecasts, by application, 2017 - 2030 (USD Billion)

Table 40 South Korea investment casting market estimates and forecasts, 2017 - 2030 (USD Billion)

Table 41 South Korea investment casting market estimates and forecasts, by application, 2017 - 2030 (USD Billion)

Table 42 Australia investment casting market estimates and forecasts, 2017 - 2030 (USD Billion)

Table 43 Australia investment casting market estimates and forecasts, by application, 2017 - 2030 (USD Billion)

Table 44 Indonesia investment casting market estimates and forecasts, 2017 - 2030 (USD Billion)

Table 45 Indonesia investment casting market estimates and forecasts, by application, 2017 - 2030 (USD Billion)

Table 46 Central & South America investment casting market estimates and forecasts, 2017 - 2030 (USD Billion)

Table 47 Central & South America investment casting market estimates and forecasts, by application, 2017 - 2030 (USD Billion)

Table 48 Brazil investment casting market estimates and forecasts, 2017 - 2030 (USD Billion)

Table 49 Brazil investment casting market estimates and forecasts, by application, 2017 - 2030 (USD Billion)

Table 50 Argentina investment casting market estimates and forecasts, 2017 - 2030 (USD Billion)

Table 51 Argentina investment casting market estimates and forecasts, by application, 2017 - 2030 (USD Billion)

Table 52 Middle East & Africa investment casting market estimates and forecasts, 2017 - 2030 (USD Billion)

Table 53 Middle East & Africa investment casting market estimates and forecasts, by application, 2017 - 2030 (USD Billion)

Table 54 Saudi Arabia investment casting market estimates and forecasts, 2017 - 2030 (USD Billion)

Table 55 Saudi Arabia investment casting market estimates and forecasts, by application, 2017 - 2030 (USD Billion)

Table 56 UAE investment casting market estimates and forecasts, 2017 - 2030 (USD Billion)

Table 57 UAE investment casting market estimates and forecasts, by application, 2017 - 2030 (USD Billion)

List Of Figures

LIST OF FIGURES

- FIG 1 Investment casting market segmentation
- FIG 2 Information procurement
- FIG 3 Primary research pattern
- FIG 4 Primary research process
- FIG 5 Primary research approaches
- FIG 6 Market snapshot
- FIG 7 Segment outlook
- FIG 8 Investment casting market revenue, 2017 - 2030 (USD Billion)
- FIG 9 Value chain- Investment Casting market
- FIG 10 Market driver analysis
- FIG 11 Market restraint analysis
- FIG 12 Porter's analysis
- FIG 13 PESTEL analysis
- FIG 14 Investment casting market: Application movement analysis, 2021 & 2030
- FIG 15 Investment casting market: Regional snapshot
- FIG 16 Investment casting market: Regional movement analysis, 2021 & 2030

I would like to order

Product name: Investment Casting Market Size, Share & Trends Analysis Report By Application (Aerospace & Defense, Oil & Gas, Mechanical Engineering, Automotive), By Region, And Segment Forecasts, 2022 - 2030

Product link: <https://marketpublishers.com/r/IC925E9D532AEN.html>

Price: US\$ 5,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/IC925E9D532AEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below

and fax the completed form to +44 20 7900 3970