

# **Middle East & Africa Metal Casting Market Forecast to 2030 – Regional Analysis – by Product Type (Carbon Steel Alloys, Stainless Steel Alloys, Aluminum Alloys, Grey Iron, Ductile Iron, and Others), Process (Sand Casting, Investment Casting, Gravity Die Casting, and Others), and Application (Automotive, Aerospace, Marine, Textile, Building and Construction, Oil and Gas, Industrial Machinery, and Others)**

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## **Abstracts**

The Middle East & Africa metal casting market was valued at US\$ 7,655.49 million in 2022 and is expected to reach US\$ 10,319.40 million by 2030; it is estimated to grow at a CAGR of 3.8% from 2022 to 2030.

### **Advancements in Casting Technologies Fuels the Middle East & Africa Metal Casting Market**

Advancements in casting technologies can transform the metal casting industry by improving efficiency, precision, and quality of production. Technological developments are expected to address constraints about complex geometries, material properties, and environmental sustainability. Several advanced technologies include digital simulation and modeling, additive manufacturing, vacuum casting, lost foam casting, high-pressure die-casting, low-pressure mold casting, and permanent mold casting. Permanent mold casting is termed as gravity die casting, that involves molten metal poured into the reusable mold. Additive casting utilizes additive manufacturing to produce molds and patterns, to cast metal components. The approach reduces the requirement for tooling and ensures the manufacturing of complex components. In 2021, Gen3D and Enable

collaborated to design and produce a complex lattice structure using Enable's Additive Casting process, which is a hybrid production method combining additive manufacturing and conventional casting. Additive manufacturing in metal casting has a wide scope of application in several end-use industries such as automotive, aerospace, engineering, and machinery industries. Thus, the advancement of casting technologies is expected to become a major trend in the metal casting market during the forecast period.

## Middle East & Africa Metal Casting Market Overview

The Middle East & Africa metal casting market is segmented into South Africa, Saudi Arabia, the UAE, and the Rest of Middle East & Africa. These countries are rapidly developing their public infrastructure, including airports, hospitals, and administrative buildings. The construction of commercial infrastructure has increased due to the rising tourism industry and the growing immigrant population. In the coming years, the metal casting market in the Middle East & Africa is expected to grow at a significant rate due to the continuous investment in expansion, research and development activities in the aerospace sector by prominent players in the region. These key trends are anticipated to increase the demand for metal casting in the region, during the forecast period.

The aviation industry in the Middle East & Africa is fueled by several drivers, such as rapid industrialization and growth in disposable income resulting in more passengers opting for air travel. According to the report by International Trade Administration, the UAE government has invested in and supported initiatives in the aerospace industry, thus increasing the number of partnerships among major market players and Original Equipment Manufacturers (OEMs). Further, the UAE government has invested extensively in airport development and expansion projects in the span of 10 years. For example, the government invested US\$ 8.1 billion in Al Maktoum International Airport in Dubai, US\$ 7.6 billion for the Dubai International Airport Expansion Phase 4, US\$ 6.8 billion for Abu Dhabi Airport development and expansion plans, and ~US\$ 400 million in Sharjah's International Airport terminal expansion. Thus, the growing construction industry and rising manufacturing of aircraft and aircraft components are projected to fuel the metal casting market in the Middle East & Africa during the forecast period.

## Middle East & Africa Metal Casting Market Revenue and Forecast to 2030 (US\$ Mn)

### Middle East & Africa Metal Casting Market Segmentation

The Middle East & Africa metal casting market is segmented into product type, process,

application, and country.

Based on product type, the Middle East & Africa metal casting market is segmented into carbon steel alloys, stainless steel alloys, aluminum alloys, grey iron, ductile iron, and others. The grey iron segment held the largest market share in 2022.

Based on process, the Middle East & Africa metal casting market is divided into sand casting, investment casting, gravity die casting, and others. The sand casting segment held the largest market share in 2022.

Based on application, the Middle East & Africa metal casting market is segmented into automotive, aerospace, marine, textile, building and construction, oil and gas, industrial machinery, and others. The automotive segment held the largest market share in 2022.

Based on country, the Middle East & Africa metal casting market is segmented into South Africa, Saudi Arabia, the UAE, and the Rest of Middle East & Africa. The Rest of Middle East & Africa dominated the Middle East & Africa metal casting market share in 2022.

ArcelorMittal SA, Lucchini RS SpA, MEDEKO CAST Sro, Novacast Ltd, and Posco Holdings Inc are some of the leading companies operating in the Middle East & Africa metal casting market.

## Contents

### **1. INTRODUCTION**

- 1.1 The Insight Partners Research Report Guidance
- 1.2 Market Segmentation

### **2. EXECUTIVE SUMMARY**

- 2.1 Key Insights
- 2.2 Market Attractiveness
  - 2.2.1 Market Attractiveness

### **3. RESEARCH METHODOLOGY**

- 3.1 Coverage
- 3.2 Secondary Research
- 3.3 Primary Research

### **4. MIDDLE EAST & AFRICA METAL CASTING MARKET LANDSCAPE**

- 4.1 Overview
- 4.2 Porter's Five Forces Analysis
  - 4.2.1 Bargaining Power of Suppliers
  - 4.2.2 Bargaining Power of Buyers
  - 4.2.3 Threat of New Entrants
  - 4.2.4 Competitive Rivalry
  - 4.2.5 Threat of Substitutes
- 4.3 Ecosystem Analysis
  - 4.3.1 Raw Material Suppliers:
  - 4.3.2 Manufacturers:
  - 4.3.3 Distributors or Suppliers:
  - 4.3.4 End Use Industry:

### **5. MIDDLE EAST & AFRICA METAL CASTING MARKET – KEY MARKET DYNAMICS**

- 5.1 Market Drivers
  - 5.1.1 Growing Automotive and Construction Industry

- 5.1.2 Rising Demand for Industrial Machineries
- 5.2 Market Restraints
  - 5.2.1 Availability of Metal Casting Alternatives
- 5.3 Market Opportunities
  - 5.3.1 Rising Demand for Lightweight Materials
- 5.4 Future Trends
  - 5.4.1 Advancements in Casting Technologies
- 5.5 Impact Analysis

## **6. METAL CASTING MARKET - MIDDLE EAST & AFRICA MARKET ANALYSIS**

- 6.1 Middle East & Africa Metal Casting Market Volume (Kilo Tons)
- 6.2 Middle East & Africa Metal Casting Market Revenue (US\$ Million)
- 6.3 Middle East & Africa Metal Casting Market Forecast and Analysis

## **7. MIDDLE EAST & AFRICA METAL CASTING MARKET ANALYSIS - PRODUCT TYPE**

- 7.1 Carbon Steel Alloys
  - 7.1.1 Overview
  - 7.1.2 Carbon Steel Alloys Market Volume, Revenue and Forecast to 2030 (Kilo Tons) (US\$ Million)
- 7.2 Stainless Steel Alloys
  - 7.2.1 Overview
  - 7.2.2 Stainless Steel Alloys Market Volume, Revenue and Forecast to 2030 (Kilo Tons) (US\$ Million)
- 7.3 Aluminum Alloys
  - 7.3.1 Overview
  - 7.3.2 Aluminum Alloys Market Volume, Revenue and Forecast to 2030 (Kilo Tons) (US\$ Million)
- 7.4 Grey Iron
  - 7.4.1 Overview
  - 7.4.2 Grey Iron Market Volume, Revenue and Forecast to 2030 (Kilo Tons) (US\$ Million)
- 7.5 Ductile Iron
  - 7.5.1 Overview
  - 7.5.2 Ductile Iron Market Volume, Revenue and Forecast to 2030 (Kilo Tons) (US\$ Million)
- 7.6 Others

7.6.1 Overview

7.6.2 Others Market Volume, Revenue and Forecast to 2030 (Kilo Tons) (US\$ Million)

## **8. MIDDLE EAST & AFRICA METAL CASTING MARKET ANALYSIS – PROCESS**

8.1 Sand Casting

8.1.1 Overview

8.1.2 Sand Casting Market, Revenue and Forecast to 2030 (US\$ Million)

8.2 Investment Casting

8.2.1 Overview

8.2.2 Investment Casting Market, Revenue and Forecast to 2030 (US\$ Million)

8.3 Gravity Die Casting

8.3.1 Overview

8.3.2 Gravity Die Casting Market, Revenue and Forecast to 2030 (US\$ Million)

8.4 Others

8.4.1 Overview

8.4.2 Others Market, Revenue and Forecast to 2030 (US\$ Million)

## **9. MIDDLE EAST & AFRICA METAL CASTING MARKET ANALYSIS - APPLICATION**

9.1 Automotive

9.1.1 Overview

9.1.2 Automotive Market, Revenue, and Forecast to 2030 (US\$ Million)

9.2 Aerospace

9.2.1 Overview

9.2.2 Aerospace Market Revenue, and Forecast to 2030 (US\$ Million)

9.3 Marine

9.3.1 Overview

9.3.2 Marine Market Revenue and Forecast to 2030 (US\$ Million)

9.4 Building and Construction

9.4.1 Overview

9.4.2 Building and Construction Market Revenue and Forecast to 2030 (US\$ Million)

9.5 Oil and Gas

9.5.1 Overview

9.5.2 Oil and Gas Market Revenue and Forecast to 2030 (US\$ Million)

9.6 Industrial Machinery

9.6.1 Overview

9.6.2 Industrial Machinery Market Revenue and Forecast to 2030 (US\$ Million)

## 9.7 Others

### 9.7.1 Overview

### 9.7.2 Others Market Revenue and Forecast to 2030 (US\$ Million)

## **10. MIDDLE EAST & AFRICA METAL CASTING MARKET - COUNTRY ANALYSIS**

### 10.1 Overview

#### 10.1.1 Middle East & Africa Metal Casting Market Revenue and Forecasts and Analysis - By Countries

##### 10.1.1.1 Middle East & Africa Metal Casting Market Breakdown by Country

##### 10.1.1.2 South Africa: Middle East & Africa Metal Casting Market Volume and Forecasts to 2030 (Kilo Tons)

##### 10.1.1.3 South Africa: Middle East & Africa Metal Casting Market Revenue and Forecasts to 2030 (US\$ Million)

##### 10.1.1.3.1 South Africa: Middle East & Africa Metal Casting Market Breakdown by Product Type

##### 10.1.1.3.2 South Africa: Middle East & Africa Metal Casting Market Breakdown by Product Type

##### 10.1.1.3.3 South Africa: Middle East & Africa Metal Casting Market Breakdown by Process

##### 10.1.1.3.4 South Africa: Middle East & Africa Metal Casting Market Breakdown by Application

##### 10.1.1.4 Saudi Arabia: Middle East & Africa Metal Casting Market Volume and Forecasts to 2030 (Kilo Tons)

##### 10.1.1.5 Saudi Arabia: Middle East & Africa Metal Casting Market Revenue and Forecasts to 2030 (US\$ Million)

##### 10.1.1.5.1 Saudi Arabia: Middle East & Africa Metal Casting Market Breakdown by Product Type

##### 10.1.1.5.2 Saudi Arabia: Middle East & Africa Metal Casting Market Breakdown by Product Type

##### 10.1.1.5.3 Saudi Arabia: Middle East & Africa Metal Casting Market Breakdown by Process

##### 10.1.1.5.4 Saudi Arabia: Middle East & Africa Metal Casting Market Breakdown by Application

##### 10.1.1.6 UAE: Middle East & Africa Metal Casting Market Volume and Forecasts to 2030 (Kilo Tons)

##### 10.1.1.7 UAE: Middle East & Africa Metal Casting Market Revenue and Forecasts to 2030 (US\$ Million)

##### 10.1.1.7.1 UAE: Middle East & Africa Metal Casting Market Breakdown by Product

## Type

10.1.1.7.2 UAE: Middle East & Africa Metal Casting Market Breakdown by Product

## Type

10.1.1.7.3 UAE: Middle East & Africa Metal Casting Market Breakdown by Process

10.1.1.7.4 UAE: Middle East & Africa Metal Casting Market Breakdown by

## Application

10.1.1.8 Rest of Middle East & Africa: Middle East & Africa Metal Casting Market Volume and Forecasts to 2030 (Kilo Tons)

10.1.1.9 Rest of Middle East & Africa: Middle East & Africa Metal Casting Market Revenue and Forecasts to 2030 (US\$ Million)

10.1.1.9.1 Rest of Middle East & Africa: Middle East & Africa Metal Casting Market Breakdown by Product Type

10.1.1.9.2 Rest of Middle East & Africa: Middle East & Africa Metal Casting Market Breakdown by Product Type

10.1.1.9.3 Rest of Middle East & Africa: Middle East & Africa Metal Casting Market Breakdown by Process

10.1.1.9.4 Rest of Middle East & Africa: Middle East & Africa Metal Casting Market Breakdown by Application

## **11. COMPETITIVE LANDSCAPE**

11.1 Heat Map Analysis By Key Players

11.2 Company Positioning & Concentration

11.3 Company Profitability Margin

## **12. INDUSTRY LANDSCAPE**

12.1 Overview

12.2 Market Initiative

12.3 New Product Development

12.4 Merger and Acquisition

## **13. COMPANY PROFILES**

13.1 Lucchini RS SpA

13.1.1 Key Facts

13.1.2 Business Description

13.1.3 Products and Services

13.1.4 Financial Overview



- 13.1.5 SWOT Analysis
- 13.1.6 Key Developments
- 13.2 Posco Holdings Inc
  - 13.2.1 Key Facts
  - 13.2.2 Business Description
  - 13.2.3 Products and Services
  - 13.2.4 Financial Overview
  - 13.2.5 SWOT Analysis
  - 13.2.6 Key Developments
- 13.3 ArcelorMittal SA
  - 13.3.1 Key Facts
  - 13.3.2 Business Description
  - 13.3.3 Products and Services
  - 13.3.4 Financial Overview
  - 13.3.5 SWOT Analysis
  - 13.3.6 Key Developments
- 13.4 MEDEKO CAST Sro
  - 13.4.1 Key Facts
  - 13.4.2 Business Description
  - 13.4.3 Products and Services
  - 13.4.4 Financial Overview
  - 13.4.5 SWOT Analysis
  - 13.4.6 Key Developments
- 13.5 Novacast Ltd
  - 13.5.1 Key Facts
  - 13.5.2 Business Description
  - 13.5.3 Products and Services
  - 13.5.4 Financial Overview
  - 13.5.5 SWOT Analysis
  - 13.5.6 Key Developments

## **14. APPENDIX**

## List Of Tables

### LIST OF TABLES

- Table 1. Middle East & Africa Metal Casting Market Segmentation
- Table 2. Middle East & Africa Metal Casting Market Volume and Forecasts To 2030 (Kilo Tons)
- Table 3. Middle East & Africa Metal Casting Market Revenue and Forecasts To 2030 (US\$ Million)
- Table 4. Middle East & Africa Metal Casting Market Volume and Forecasts To 2030 (Kilo Tons) – Product Type
- Table 5. Middle East & Africa Metal Casting Market Revenue and Forecasts To 2030 (US\$ Million) – Product Type
- Table 6. Middle East & Africa Metal Casting Market Revenue and Forecasts To 2030 (US\$ Million) – Process
- Table 7. Middle East & Africa Metal Casting Market Revenue and Forecasts To 2030 (US\$ Million) – Application
- Table 8. South Africa: Middle East & Africa Metal Casting Market Volume and Forecasts To 2030 (Kilo Tons) – By Product Type
- Table 9. South Africa: Middle East & Africa Metal Casting Market Revenue and Forecasts To 2030 (US\$ Million) – By Product Type
- Table 10. South Africa: Middle East & Africa Metal Casting Market Revenue and Forecasts To 2030 (US\$ Million) – By Process
- Table 11. South Africa: Middle East & Africa Metal Casting Market Revenue and Forecasts To 2030 (US\$ Million) – By Application
- Table 12. Saudi Arabia: Middle East & Africa Metal Casting Market Volume and Forecasts To 2030 (Kilo Tons) – By Product Type
- Table 13. Saudi Arabia: Middle East & Africa Metal Casting Market Revenue and Forecasts To 2030 (US\$ Million) – By Product Type
- Table 14. Saudi Arabia: Middle East & Africa Metal Casting Market Revenue and Forecasts To 2030 (US\$ Million) – By Process
- Table 15. Saudi Arabia: Middle East & Africa Metal Casting Market Revenue and Forecasts To 2030 (US\$ Million) – By Application
- Table 16. UAE: Middle East & Africa Metal Casting Market Volume and Forecasts To 2030 (Kilo Tons) – By Product Type
- Table 17. UAE: Middle East & Africa Metal Casting Market Revenue and Forecasts To 2030 (US\$ Million) – By Product Type
- Table 18. UAE: Middle East & Africa Metal Casting Market Revenue and Forecasts To 2030 (US\$ Million) – By Process

Table 19. UAE: Middle East & Africa Metal Casting Market Revenue and Forecasts To 2030 (US\$ Million) – By Application

Table 20. Rest of Middle East & Africa: Middle East & Africa Metal Casting Market Volume and Forecasts To 2030 (Kilo Tons) – By Product Type

Table 21. Rest of Middle East & Africa: Middle East & Africa Metal Casting Market Revenue and Forecasts To 2030 (US\$ Million) – By Product Type

Table 22. Rest of Middle East & Africa: Middle East & Africa Metal Casting Market Revenue and Forecasts To 2030 (US\$ Million) – By Process

Table 23. Rest of Middle East & Africa: Middle East & Africa Metal Casting Market Revenue and Forecasts To 2030 (US\$ Million) – By Application

Table 24. Company Positioning & Concentration

Table 25. Company Profitability Margin

## List Of Figures

### LIST OF FIGURES

- Figure 1. Middle East & Africa Metal Casting Market Segmentation, By Country
- Figure 2. Porter's Five Forces Analysis
- Figure 3. Ecosystem: Middle East & Africa Metal Casting Market
- Figure 4. Middle East & Africa Metal Casting Market Impact Analysis of Drivers and Restraints
- Figure 5. Middle East & Africa Metal Casting Market Volume (Kilo Tons), 2020 – 2030
- Figure 6. Middle East & Africa Metal Casting Market Revenue (US\$ Million), 2020 – 2030
- Figure 7. Middle East & Africa Metal Casting Market Share (%) – Product Type, 2022 and 2030
- Figure 8. Carbon Steel Alloys Market Volume and Forecasts To 2030 (Kilo Tons)
- Figure 9. Carbon Steel Alloys Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 10. Stainless Steel Alloys Market Volume and Forecasts To 2030 (Kilo Tons)
- Figure 11. Stainless Steel Alloys Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 12. Aluminum Alloys Market Volume and Forecasts To 2030 (Kilo Tons)
- Figure 13. Aluminum Alloys Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 14. Grey Iron Market Volume and Forecasts To 2030 (Kilo Tons)
- Figure 15. Grey Iron Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 16. Ductile Iron Market Volume and Forecasts To 2030 (Kilo Tons)
- Figure 17. Ductile Iron Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 18. Others Market Volume and Forecasts To 2030 (Kilo Tons)
- Figure 19. Others Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 20. Middle East & Africa Metal Casting Market Share (%) – Process, 2022 and 2030
- Figure 21. Sand Casting Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 22. Investment Casting Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 23. Gravity Die Casting Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 24. Others Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 25. Middle East & Africa Metal Casting Market Share (%) – Application, 2022 and 2030
- Figure 26. Automotive Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 27. Aerospace Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 28. Marine Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 29. Building and Construction Market Revenue and Forecasts To 2030 (US\$ Million)

- Figure 30. Oil and Gas Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 31. Industrial Machinery Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 32. Others Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 33. Middle East & Africa Metal Casting Market, by Key Country- Revenue (2022) (US\$ Million)
- Figure 34. Middle East & Africa Metal Casting Market Breakdown by Key Countries, 2022 and 2030 (%)
- Figure 35. South Africa: Middle East & Africa Metal Casting Market Volume and Forecasts To 2030 (Kilo Tons)
- Figure 36. South Africa: Middle East & Africa Metal Casting Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 37. Saudi Arabia: Middle East & Africa Metal Casting Market Volume and Forecasts To 2030 (Kilo Tons)
- Figure 38. Saudi Arabia: Middle East & Africa Metal Casting Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 39. UAE: Middle East & Africa Metal Casting Market Volume and Forecasts To 2030 (Kilo Tons)
- Figure 40. UAE: Middle East & Africa Metal Casting Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 41. Rest of Middle East & Africa: Middle East & Africa Metal Casting Market Volume and Forecasts To 2030 (Kilo Tons)
- Figure 42. Rest of Middle East & Africa: Middle East & Africa Metal Casting Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 43. Heat Map Analysis By Key Players

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