

# **South & Central America 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 South & Central America metal casting market was valued at US\$ 4,971.94 million in 2022 and is expected to reach US\$ 6,416.40 million by 2030; it is estimated to grow at a CAGR of 3.2% from 2022 to 2030.

### **Rising Demand for Lightweight Materials Fuels the South & Central America Metal Casting Market**

The rising demand for lightweight materials is a key opportunity influencing the growth and evolution of metal casting market. Industries such as automotive, aerospace, and even certain segments of consumer goods are increasingly prioritizing materials that offer high strength while being lighter in weight. This shift is primarily driven by the need to enhance fuel efficiency, reduce emissions, and improve overall performance.

Metal casting techniques play a crucial role in meeting this demand for lightweight materials by offering the ability to produce intricate and complex components from alloys like aluminum, magnesium, and their composites. These alloys possess favorable

characteristics such as high strength-to-weight ratios, corrosion resistance, and excellent formability, making them ideal for applications requiring reduced weight without compromising structural integrity.

In the automotive sector, for instance, lighter metal cast components, particularly engine parts and structural elements, contribute to enhanced fuel efficiency and better overall vehicle performance. Similarly, in the aerospace industry, utilizing lightweight metal castings in aircraft components helps reduce fuel consumption and increases payload capacity.

The metal casting market's response to this demand involves continuous research and development into innovative alloys, casting processes, and technologies to optimize lightweight materials' properties and performance.

### South & Central America Metal Casting Market Overview

Governments of various countries in South & Central America are focusing on developing manufacturing industries owing to surging industrialization, which is expected to boost the demand for metal casting in the industrial machineries during the forecast period. Further, the significant presence of automotive companies in Brazil and Argentina is propelling the sales of metal casting in the region. According to the report by the Brazilian Association of Automotive Vehicle Manufacturers, the production of automobiles in Brazil grew by 11.4%, whereas the sales were boosted by 10.9% from February to March 2022. Moreover, a few major market players operating in the automotive sector have strategized the development and expansion of their operational capacities in South & Central America to fuel the growth of the automotive market, thereby signifying the growth in automotive sector. For instance, in 2022, Audi AG invested US\$ 19.2 million to restart production at its plant in Parana, Brazil, registering a capacity of 4,000 vehicles per year. Furthermore, the expansion of building and construction across the region owing to rapid urbanization is boosting the demand of metal casting. Moreover, the increasing presence of end-use industries, coupled with growing development strategies, is expected to boost the metal casting market during the forecast period.

### South & Central America Metal Casting Market Revenue and Forecast to 2030 (US\$ Mn)

### South & Central America Metal Casting Market Segmentation

The South & Central America metal casting market is segmented into product type, process, application, and country.

Based on product type, the South & Central America 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 South & Central America 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 South & Central America 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 South & Central America metal casting market is segmented into Brazil, Argentina, and the Rest of South & Central America. Brazil dominated the South & Central America metal casting market share in 2022.

Alcoa Corp, ArcelorMittal SA, Lucchini RS SpA, and Posco Holdings Inc are some of the leading companies operating in the South & Central America 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. SOUTH & CENTRAL AMERICA 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. SOUTH & CENTRAL AMERICA 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 - SOUTH & CENTRAL AMERICA MARKET ANALYSIS**

- 6.1 South & Central America Metal Casting Market Volume (Kilo Tons)
- 6.2 South & Central America Metal Casting Market Revenue (US\$ Million)
- 6.3 South & Central America Metal Casting Market Forecast and Analysis

## **7. SOUTH & CENTRAL AMERICA 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. SOUTH & CENTRAL AMERICA 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. SOUTH & CENTRAL AMERICA 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. SOUTH & CENTRAL AMERICA METAL CASTING MARKET - COUNTRY ANALYSIS**

10.1 Overview

10.1.1 South & Central America Metal Casting Market Revenue and Forecasts and Analysis - By Countries

10.1.1.1 South & Central America Metal Casting Market Breakdown by Country

10.1.1.2 Brazil: South & Central America Metal Casting Market Volume and Forecasts to 2030 (Kilo Tons)

10.1.1.3 Brazil: South & Central America Metal Casting Market Revenue and Forecasts to 2030 (US\$ Million)

10.1.1.3.1 Brazil: South & Central America Metal Casting Market Breakdown by Product Type

10.1.1.3.2 Brazil: South & Central America Metal Casting Market Breakdown by Product Type

10.1.1.3.3 Brazil: South & Central America Metal Casting Market Breakdown by Process

10.1.1.3.4 Brazil: South & Central America Metal Casting Market Breakdown by Application

10.1.1.4 Argentina: South & Central America Metal Casting Market Volume and Forecasts to 2030 (Kilo Tons)

10.1.1.5 Argentina: South & Central America Metal Casting Market Revenue and Forecasts to 2030 (US\$ Million)

10.1.1.5.1 Argentina: South & Central America Metal Casting Market Breakdown by Product Type

10.1.1.5.2 Argentina: South & Central America Metal Casting Market Breakdown by Product Type

10.1.1.5.3 Argentina: South & Central America Metal Casting Market Breakdown by Process

10.1.1.5.4 Argentina: South & Central America Metal Casting Market Breakdown by Application

10.1.1.6 Rest of South & Central America: South & Central America Metal Casting Market Volume and Forecasts to 2030 (Kilo Tons)

10.1.1.7 Rest of South & Central America: South & Central America Metal Casting Market Revenue and Forecasts to 2030 (US\$ Million)

10.1.1.7.1 Rest of South & Central America: South & Central America Metal Casting Market Breakdown by Product Type

10.1.1.7.2 Rest of South & Central America: South & Central America Metal Casting Market Breakdown by Product Type

10.1.1.7.3 Rest of South & Central America: South & Central America Metal Casting Market Breakdown by Process

10.1.1.7.4 Rest of South & Central America: South & Central America 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 Alcoa Corp

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

## **14. APPENDIX**

## List Of Tables

### LIST OF TABLES

Table 1. South & Central America Metal Casting Market Segmentation

Table 2. South & Central America Metal Casting Market Volume and Forecasts To 2030 (Kilo Tons)

Table 3. South & Central America Metal Casting Market Revenue and Forecasts To 2030 (US\$ Million)

Table 4. South & Central America Metal Casting Market Volume and Forecasts To 2030 (Kilo Tons) – Product Type

Table 5. South & Central America Metal Casting Market Revenue and Forecasts To 2030 (US\$ Million) – Product Type

Table 6. South & Central America Metal Casting Market Revenue and Forecasts To 2030 (US\$ Million) – Process

Table 7. South & Central America Metal Casting Market Revenue and Forecasts To 2030 (US\$ Million) – Application

Table 8. Brazil: South & Central America Metal Casting Market Volume and Forecasts To 2030 (Kilo Tons) – By Product Type

Table 9. Brazil: South & Central America Metal Casting Market Revenue and Forecasts To 2030 (US\$ Million) – By Product Type

Table 10. Brazil: South & Central America Metal Casting Market Revenue and Forecasts To 2030 (US\$ Million) – By Process

Table 11. Brazil: South & Central America Metal Casting Market Revenue and Forecasts To 2030 (US\$ Million) – By Application

Table 12. Argentina: South & Central America Metal Casting Market Volume and Forecasts To 2030 (Kilo Tons) – By Product Type

Table 13. Argentina: South & Central America Metal Casting Market Revenue and Forecasts To 2030 (US\$ Million) – By Product Type

Table 14. Argentina: South & Central America Metal Casting Market Revenue and Forecasts To 2030 (US\$ Million) – By Process

Table 15. Argentina: South & Central America Metal Casting Market Revenue and Forecasts To 2030 (US\$ Million) – By Application

Table 16. Rest of South & Central America: South & Central America Metal Casting Market Volume and Forecasts To 2030 (Kilo Tons) – By Product Type

Table 17. Rest of South & Central America: South & Central America Metal Casting Market Revenue and Forecasts To 2030 (US\$ Million) – By Product Type

Table 18. Rest of South & Central America: South & Central America Metal Casting Market Revenue and Forecasts To 2030 (US\$ Million) – By Process

Table 19. Rest of South & Central America: South & Central America Metal Casting Market Revenue and Forecasts To 2030 (US\$ Million) – By Application

Table 20. Company Positioning & Concentration

Table 21. Company Profitability Margin

## List Of Figures

### LIST OF FIGURES

Figure 1. South & Central America Metal Casting Market Segmentation, By Country

Figure 2. Porter's Five Forces Analysis

Figure 3. Ecosystem: South & Central America Metal Casting Market

Figure 4. South & Central America Metal Casting Market Impact Analysis of Drivers and Restraints

Figure 5. South & Central America Metal Casting Market Volume (Kilo Tons), 2020 – 2030

Figure 6. South & Central America Metal Casting Market Revenue (US\$ Million), 2020 – 2030

Figure 7. South & Central America 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. South & Central America 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. South & Central America 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. South & Central America Metal Casting Market Revenue and Forecasts To 2030 (US\$ Million)

Figure 34. South & Central America Metal Casting Market Breakdown by Key Countries, 2022 and 2030 (%)

Figure 35. Brazil: South & Central America Metal Casting Market Volume and Forecasts To 2030 (Kilo Tons)

Figure 36. Brazil: South & Central America Metal Casting Market Revenue and Forecasts To 2030 (US\$ Million)

Figure 37. Argentina: South & Central America Metal Casting Market Volume and Forecasts To 2030 (Kilo Tons)

Figure 38. Argentina: South & Central America Metal Casting Market Revenue and Forecasts To 2030 (US\$ Million)

Figure 39. Rest of South & Central America: South & Central America Metal Casting Market Volume and Forecasts To 2030 (Kilo Tons)

Figure 40. Rest of South & Central America: South & Central America Metal Casting Market Revenue and Forecasts To 2030 (US\$ Million)

Figure 41. Heat Map Analysis By Key Players

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