

Global Large Submerged Arc Furnace Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GCE68F73A6DFEN.html>

Date: August 2026

Pages: 120

Price: US\$ 4,480.00 (Single User License)

ID: GCE68F73A6DFEN

Abstracts

The global Large Submerged Arc Furnace market size is expected to reach \$ 8613 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

Large submerged arc furnaces are core equipment in the metallurgical industry used for the reduction smelting of ores. They are primarily used to produce ferroalloys such as ferrosilicon, ferromanganese, and ferrochrome, as well as chemical raw materials like calcium carbide, forming a crucial link in the production process of these important industrial raw materials. Their working principle is based on resistance arc melting. During operation, electrodes are inserted into the furnace charge for submerged arc melting. When energized, energy is released in two forms: arc heat generated between the electrodes and the furnace charge, and resistance heat generated when current flows through the resistance of the furnace charge. These two types of heat work together to heat the furnace charge to a molten state, and then, through a carbonaceous reducing agent, reduce the metal oxides in the ore, ultimately achieving the separation of the metal from the slag.

Structurally, a submerged arc furnace mainly consists of a furnace body, an electrode system, and a power supply system. The furnace body is constructed from a furnace shell and a refractory lining to withstand high temperatures and material erosion; large furnaces typically use self-baking electrodes that are sintered during the smelting process; the power supply system relies on the submerged arc furnace transformer to provide a stable, high-current supply.

In 2025, global Large Submerged Arc Furnace sales reached 88,407 Units, with an average global market price of around 62,500 K USD/Unit. Production capacity reached

100,000 Units, with a gross profit margin of approximately 30%.

This report studies the global Large Submerged Arc Furnace production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Large Submerged Arc Furnace and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Large Submerged Arc Furnace that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Large Submerged Arc Furnace total production and demand, 2021-2032, (Units)

Global Large Submerged Arc Furnace total production value, 2021-2032, (USD Million)

Global Large Submerged Arc Furnace production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Large Submerged Arc Furnace consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Large Submerged Arc Furnace domestic production, consumption, key domestic manufacturers and share

Global Large Submerged Arc Furnace production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Large Submerged Arc Furnace production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Large Submerged Arc Furnace production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Large Submerged Arc Furnace market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Tenova, SMS Group, Primetals Technologies, Danieli, Posco SNNC, Dalian Huarui Heavy Industry Group, Jiangsu Yihui Energy Saving And Environmental Protection, Shaanxi Chengda Industrial Furnace Manufacturing, Xi'an Sanrui Electric Furnace, Beijing Lirr High Temperature Materials, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Large Submerged Arc Furnace market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Large Submerged Arc Furnace Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Large Submerged Arc Furnace Market, Segmentation by Type:

Calcium Carbide Furnace

Nickel-Based Alloy Electric Furnace

Chromium-Based Alloy Electric Furnace

Manganese-Based Alloy Electric Furnace

Industrial Silicon Electric Furnace

Global Large Submerged Arc Furnace Market, Segmentation by Furnace Structure:

Enclosed Type

Semi-enclosed Type

Global Large Submerged Arc Furnace Market, Segmentation by Application:

Metallurgical Industry

Chemical Industry

Foundry Industry

Others

Companies Profiled:

Tenova

SMS Group

Primetals Technologies

Danieli

Posco SNNC

Dalian Huarui Heavy Industry Group

Jiangsu Yihui Energy Saving And Environmental Protectio

Shaanxi Chengda Industrial Furnace Manufacturing

Xi'an Sanrui Electric Furnace

Beijing Lirr High Temperature Materials

Xi'an Tengye Metallurgical Engineering

Yixing Yuyou Metallurgical Equipment

Xi'an FS Metallurgical Equipment

CHNZBTECH Co.,Ltd

China ENFI Mining Solution Alliance

Key Questions Answered:

1. How big is the global Large Submerged Arc Furnace market?
2. What is the demand of the global Large Submerged Arc Furnace market?
3. What is the year over year growth of the global Large Submerged Arc Furnace market?
4. What is the production and production value of the global Large Submerged Arc Furnace market?
5. Who are the key producers in the global Large Submerged Arc Furnace market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Large Submerged Arc Furnace Introduction
- 1.2 World Large Submerged Arc Furnace Supply & Forecast
 - 1.2.1 World Large Submerged Arc Furnace Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Large Submerged Arc Furnace Production (2021-2032)
 - 1.2.3 World Large Submerged Arc Furnace Pricing Trends (2021-2032)
- 1.3 World Large Submerged Arc Furnace Production by Region (Based on Production Site)
 - 1.3.1 World Large Submerged Arc Furnace Production Value by Region (2021-2032)
 - 1.3.2 World Large Submerged Arc Furnace Production by Region (2021-2032)
 - 1.3.3 World Large Submerged Arc Furnace Average Price by Region (2021-2032)
 - 1.3.4 North America Large Submerged Arc Furnace Production (2021-2032)
 - 1.3.5 Europe Large Submerged Arc Furnace Production (2021-2032)
 - 1.3.6 China Large Submerged Arc Furnace Production (2021-2032)
 - 1.3.7 Japan Large Submerged Arc Furnace Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Large Submerged Arc Furnace Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Large Submerged Arc Furnace Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Large Submerged Arc Furnace Demand (2021-2032)
- 2.2 World Large Submerged Arc Furnace Consumption by Region
 - 2.2.1 World Large Submerged Arc Furnace Consumption by Region (2021-2026)
 - 2.2.2 World Large Submerged Arc Furnace Consumption Forecast by Region (2027-2032)
- 2.3 United States Large Submerged Arc Furnace Consumption (2021-2032)
- 2.4 China Large Submerged Arc Furnace Consumption (2021-2032)
- 2.5 Europe Large Submerged Arc Furnace Consumption (2021-2032)
- 2.6 Japan Large Submerged Arc Furnace Consumption (2021-2032)
- 2.7 South Korea Large Submerged Arc Furnace Consumption (2021-2032)
- 2.8 ASEAN Large Submerged Arc Furnace Consumption (2021-2032)
- 2.9 India Large Submerged Arc Furnace Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Large Submerged Arc Furnace Production Value by Manufacturer (2021-2026)
- 3.2 World Large Submerged Arc Furnace Production by Manufacturer (2021-2026)
- 3.3 World Large Submerged Arc Furnace Average Price by Manufacturer (2021-2026)
- 3.4 Large Submerged Arc Furnace Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Large Submerged Arc Furnace Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Large Submerged Arc Furnace in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Large Submerged Arc Furnace in 2025
- 3.6 Large Submerged Arc Furnace Market: Overall Company Footprint Analysis
 - 3.6.1 Large Submerged Arc Furnace Market: Region Footprint
 - 3.6.2 Large Submerged Arc Furnace Market: Company Product Type Footprint
 - 3.6.3 Large Submerged Arc Furnace Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Large Submerged Arc Furnace Production Value Comparison
 - 4.1.1 United States VS China: Large Submerged Arc Furnace Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Large Submerged Arc Furnace Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Large Submerged Arc Furnace Production Comparison
 - 4.2.1 United States VS China: Large Submerged Arc Furnace Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Large Submerged Arc Furnace Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Large Submerged Arc Furnace Consumption Comparison
 - 4.3.1 United States VS China: Large Submerged Arc Furnace Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Large Submerged Arc Furnace Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Large Submerged Arc Furnace Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Large Submerged Arc Furnace Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Large Submerged Arc Furnace Production Value (2021-2026)

4.4.3 United States Based Manufacturers Large Submerged Arc Furnace Production (2021-2026)

4.5 China Based Large Submerged Arc Furnace Manufacturers and Market Share

4.5.1 China Based Large Submerged Arc Furnace Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Large Submerged Arc Furnace Production Value (2021-2026)

4.5.3 China Based Manufacturers Large Submerged Arc Furnace Production (2021-2026)

4.6 Rest of World Based Large Submerged Arc Furnace Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Large Submerged Arc Furnace Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Large Submerged Arc Furnace Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Large Submerged Arc Furnace Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Large Submerged Arc Furnace Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Calcium Carbide Furnace

5.2.2 Nickel-Based Alloy Electric Furnace

5.2.3 Chromium-Based Alloy Electric Furnace

5.2.4 Manganese-Based Alloy Electric Furnace

5.2.5 Industrial Silicon Electric Furnace

5.3 Market Segment by Type

5.3.1 World Large Submerged Arc Furnace Production by Type (2021-2032)

5.3.2 World Large Submerged Arc Furnace Production Value by Type (2021-2032)

5.3.3 World Large Submerged Arc Furnace Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY FURNACE STRUCTURE

6.1 World Large Submerged Arc Furnace Market Size Overview by Furnace Structure: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Furnace Structure

6.2.1 Enclosed Type

6.2.2 Semi-enclosed Type

6.3 Market Segment by Furnace Structure

6.3.1 World Large Submerged Arc Furnace Production by Furnace Structure (2021-2032)

6.3.2 World Large Submerged Arc Furnace Production Value by Furnace Structure (2021-2032)

6.3.3 World Large Submerged Arc Furnace Average Price by Furnace Structure (2021-2032)

7 MARKET ANALYSIS BY APPLICATION

7.1 World Large Submerged Arc Furnace Market Size Overview by Application: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Application

7.2.1 Metallurgical Industry

7.2.2 Chemical Industry

7.2.3 Foundry Industry

7.2.4 Others

7.3 Market Segment by Application

7.3.1 World Large Submerged Arc Furnace Production by Application (2021-2032)

7.3.2 World Large Submerged Arc Furnace Production Value by Application (2021-2032)

7.3.3 World Large Submerged Arc Furnace Average Price by Application (2021-2032)

8 COMPANY PROFILES

8.1 Tenova

8.1.1 Tenova Details

8.1.2 Tenova Major Business

8.1.3 Tenova Large Submerged Arc Furnace Product and Services

8.1.4 Tenova Large Submerged Arc Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.1.5 Tenova Recent Developments/Updates

- 8.1.6 Tenova Competitive Strengths & Weaknesses
- 8.2 SMS Group
 - 8.2.1 SMS Group Details
 - 8.2.2 SMS Group Major Business
 - 8.2.3 SMS Group Large Submerged Arc Furnace Product and Services
 - 8.2.4 SMS Group Large Submerged Arc Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.2.5 SMS Group Recent Developments/Updates
 - 8.2.6 SMS Group Competitive Strengths & Weaknesses
- 8.3 Primetals Technologies
 - 8.3.1 Primetals Technologies Details
 - 8.3.2 Primetals Technologies Major Business
 - 8.3.3 Primetals Technologies Large Submerged Arc Furnace Product and Services
 - 8.3.4 Primetals Technologies Large Submerged Arc Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.3.5 Primetals Technologies Recent Developments/Updates
 - 8.3.6 Primetals Technologies Competitive Strengths & Weaknesses
- 8.4 Danieli
 - 8.4.1 Danieli Details
 - 8.4.2 Danieli Major Business
 - 8.4.3 Danieli Large Submerged Arc Furnace Product and Services
 - 8.4.4 Danieli Large Submerged Arc Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.4.5 Danieli Recent Developments/Updates
 - 8.4.6 Danieli Competitive Strengths & Weaknesses
- 8.5 Posco SNNC
 - 8.5.1 Posco SNNC Details
 - 8.5.2 Posco SNNC Major Business
 - 8.5.3 Posco SNNC Large Submerged Arc Furnace Product and Services
 - 8.5.4 Posco SNNC Large Submerged Arc Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.5.5 Posco SNNC Recent Developments/Updates
 - 8.5.6 Posco SNNC Competitive Strengths & Weaknesses
- 8.6 Dalian Huarui Heavy Industry Group
 - 8.6.1 Dalian Huarui Heavy Industry Group Details
 - 8.6.2 Dalian Huarui Heavy Industry Group Major Business
 - 8.6.3 Dalian Huarui Heavy Industry Group Large Submerged Arc Furnace Product and Services
 - 8.6.4 Dalian Huarui Heavy Industry Group Large Submerged Arc Furnace Production,

Price, Value, Gross Margin and Market Share (2021-2026)

8.6.5 Dalian Huarui Heavy Industry Group Recent Developments/Updates

8.6.6 Dalian Huarui Heavy Industry Group Competitive Strengths & Weaknesses

8.7 Jiangsu Yihui Energy Saving And Environmental Protectio

8.7.1 Jiangsu Yihui Energy Saving And Environmental Protectio Details

8.7.2 Jiangsu Yihui Energy Saving And Environmental Protectio Major Business

8.7.3 Jiangsu Yihui Energy Saving And Environmental Protectio Large Submerged Arc Furnace Product and Services

8.7.4 Jiangsu Yihui Energy Saving And Environmental Protectio Large Submerged Arc Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.7.5 Jiangsu Yihui Energy Saving And Environmental Protectio Recent Developments/Updates

8.7.6 Jiangsu Yihui Energy Saving And Environmental Protectio Competitive Strengths & Weaknesses

8.8 Shaanxi Chengda Industrial Furnace Manufacturing

8.8.1 Shaanxi Chengda Industrial Furnace Manufacturing Details

8.8.2 Shaanxi Chengda Industrial Furnace Manufacturing Major Business

8.8.3 Shaanxi Chengda Industrial Furnace Manufacturing Large Submerged Arc Furnace Product and Services

8.8.4 Shaanxi Chengda Industrial Furnace Manufacturing Large Submerged Arc Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.8.5 Shaanxi Chengda Industrial Furnace Manufacturing Recent Developments/Updates

8.8.6 Shaanxi Chengda Industrial Furnace Manufacturing Competitive Strengths & Weaknesses

8.9 Xi'an Sanrui Electric Furnace

8.9.1 Xi'an Sanrui Electric Furnace Details

8.9.2 Xi'an Sanrui Electric Furnace Major Business

8.9.3 Xi'an Sanrui Electric Furnace Large Submerged Arc Furnace Product and Services

8.9.4 Xi'an Sanrui Electric Furnace Large Submerged Arc Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.9.5 Xi'an Sanrui Electric Furnace Recent Developments/Updates

8.9.6 Xi'an Sanrui Electric Furnace Competitive Strengths & Weaknesses

8.10 Beijing Lirr High Temperature Materials

8.10.1 Beijing Lirr High Temperature Materials Details

8.10.2 Beijing Lirr High Temperature Materials Major Business

8.10.3 Beijing Lirr High Temperature Materials Large Submerged Arc Furnace Product and Services

- 8.10.4 Beijing Lirr High Temperature Materials Large Submerged Arc Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.10.5 Beijing Lirr High Temperature Materials Recent Developments/Updates
- 8.10.6 Beijing Lirr High Temperature Materials Competitive Strengths & Weaknesses
- 8.11 Xi'an Tengye Metallurgical Engineering
 - 8.11.1 Xi'an Tengye Metallurgical Engineering Details
 - 8.11.2 Xi'an Tengye Metallurgical Engineering Major Business
 - 8.11.3 Xi'an Tengye Metallurgical Engineering Large Submerged Arc Furnace Product and Services
 - 8.11.4 Xi'an Tengye Metallurgical Engineering Large Submerged Arc Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.11.5 Xi'an Tengye Metallurgical Engineering Recent Developments/Updates
 - 8.11.6 Xi'an Tengye Metallurgical Engineering Competitive Strengths & Weaknesses
- 8.12 Yixing Yuyou Metallurgical Equipment
 - 8.12.1 Yixing Yuyou Metallurgical Equipment Details
 - 8.12.2 Yixing Yuyou Metallurgical Equipment Major Business
 - 8.12.3 Yixing Yuyou Metallurgical Equipment Large Submerged Arc Furnace Product and Services
 - 8.12.4 Yixing Yuyou Metallurgical Equipment Large Submerged Arc Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.12.5 Yixing Yuyou Metallurgical Equipment Recent Developments/Updates
 - 8.12.6 Yixing Yuyou Metallurgical Equipment Competitive Strengths & Weaknesses
- 8.13 Xi'an FS Metallurgical Equipment
 - 8.13.1 Xi'an FS Metallurgical Equipment Details
 - 8.13.2 Xi'an FS Metallurgical Equipment Major Business
 - 8.13.3 Xi'an FS Metallurgical Equipment Large Submerged Arc Furnace Product and Services
 - 8.13.4 Xi'an FS Metallurgical Equipment Large Submerged Arc Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.13.5 Xi'an FS Metallurgical Equipment Recent Developments/Updates
 - 8.13.6 Xi'an FS Metallurgical Equipment Competitive Strengths & Weaknesses
- 8.14 CHNZBTECH Co.,Ltd
 - 8.14.1 CHNZBTECH Co.,Ltd Details
 - 8.14.2 CHNZBTECH Co.,Ltd Major Business
 - 8.14.3 CHNZBTECH Co.,Ltd Large Submerged Arc Furnace Product and Services
 - 8.14.4 CHNZBTECH Co.,Ltd Large Submerged Arc Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.14.5 CHNZBTECH Co.,Ltd Recent Developments/Updates
 - 8.14.6 CHNZBTECH Co.,Ltd Competitive Strengths & Weaknesses

8.15 China ENFI Mining Solution Alliance

8.15.1 China ENFI Mining Solution Alliance Details

8.15.2 China ENFI Mining Solution Alliance Major Business

8.15.3 China ENFI Mining Solution Alliance Large Submerged Arc Furnace Product and Services

8.15.4 China ENFI Mining Solution Alliance Large Submerged Arc Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.15.5 China ENFI Mining Solution Alliance Recent Developments/Updates

8.15.6 China ENFI Mining Solution Alliance Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

9.1 Large Submerged Arc Furnace Industry Chain

9.2 Large Submerged Arc Furnace Upstream Analysis

9.2.1 Large Submerged Arc Furnace Core Raw Materials

9.2.2 Main Manufacturers of Large Submerged Arc Furnace Core Raw Materials

9.3 Midstream Analysis

9.4 Downstream Analysis

9.5 Large Submerged Arc Furnace Production Mode

9.6 Large Submerged Arc Furnace Procurement Model

9.7 Large Submerged Arc Furnace Industry Sales Model and Sales Channels

9.7.1 Large Submerged Arc Furnace Sales Model

9.7.2 Large Submerged Arc Furnace Typical Distributors

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

11.1 Methodology

11.2 Research Process and Data Source

11.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Large Submerged Arc Furnace Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Large Submerged Arc Furnace Production Value by Region (2021-2026) & (USD Million)

Table 3. World Large Submerged Arc Furnace Production Value by Region (2027-2032) & (USD Million)

Table 4. World Large Submerged Arc Furnace Production Value Market Share by Region (2021-2026)

Table 5. World Large Submerged Arc Furnace Production Value Market Share by Region (2027-2032)

Table 6. World Large Submerged Arc Furnace Production by Region (2021-2026) & (Units)

Table 7. World Large Submerged Arc Furnace Production by Region (2027-2032) & (Units)

Table 8. World Large Submerged Arc Furnace Production Market Share by Region (2021-2026)

Table 9. World Large Submerged Arc Furnace Production Market Share by Region (2027-2032)

Table 10. World Large Submerged Arc Furnace Average Price by Region (2021-2026) & (K US\$/Unit)

Table 11. World Large Submerged Arc Furnace Average Price by Region (2027-2032) & (K US\$/Unit)

Table 12. Large Submerged Arc Furnace Major Market Trends

Table 13. World Large Submerged Arc Furnace Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Large Submerged Arc Furnace Consumption by Region (2021-2026) & (Units)

Table 15. World Large Submerged Arc Furnace Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Large Submerged Arc Furnace Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Large Submerged Arc Furnace Producers in 2025

Table 18. World Large Submerged Arc Furnace Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Large Submerged Arc Furnace Producers in 2025

Table 20. World Large Submerged Arc Furnace Average Price by Manufacturer (2021-2026) & (K US\$/Unit)

Table 21. Global Large Submerged Arc Furnace Company Evaluation Quadrant

Table 22. World Large Submerged Arc Furnace Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Large Submerged Arc Furnace Production Site of Key Manufacturer

Table 24. Large Submerged Arc Furnace Market: Company Product Type Footprint

Table 25. Large Submerged Arc Furnace Market: Company Product Application Footprint

Table 26. Large Submerged Arc Furnace Competitive Factors

Table 27. Large Submerged Arc Furnace New Entrant and Capacity Expansion Plans

Table 28. Large Submerged Arc Furnace Mergers & Acquisitions Activity

Table 29. United States VS China Large Submerged Arc Furnace Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Large Submerged Arc Furnace Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Large Submerged Arc Furnace Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Large Submerged Arc Furnace Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Large Submerged Arc Furnace Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Large Submerged Arc Furnace Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Large Submerged Arc Furnace Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Large Submerged Arc Furnace Production Market Share (2021-2026)

Table 37. China Based Large Submerged Arc Furnace Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Large Submerged Arc Furnace Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Large Submerged Arc Furnace Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Large Submerged Arc Furnace Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers Large Submerged Arc Furnace Production Market Share (2021-2026)

Table 42. Rest of World Based Large Submerged Arc Furnace Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Large Submerged Arc Furnace Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Large Submerged Arc Furnace Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Large Submerged Arc Furnace Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Large Submerged Arc Furnace Production Market Share (2021-2026)

Table 47. World Large Submerged Arc Furnace Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Large Submerged Arc Furnace Production by Type (2021-2026) & (Units)

Table 49. World Large Submerged Arc Furnace Production by Type (2027-2032) & (Units)

Table 50. World Large Submerged Arc Furnace Production Value by Type (2021-2026) & (USD Million)

Table 51. World Large Submerged Arc Furnace Production Value by Type (2027-2032) & (USD Million)

Table 52. World Large Submerged Arc Furnace Average Price by Type (2021-2026) & (K US\$/Unit)

Table 53. World Large Submerged Arc Furnace Average Price by Type (2027-2032) & (K US\$/Unit)

Table 54. World Large Submerged Arc Furnace Production Value by Furnace Structure, (USD Million), 2021 & 2025 & 2032

Table 55. World Large Submerged Arc Furnace Production by Furnace Structure (2021-2026) & (Units)

Table 56. World Large Submerged Arc Furnace Production by Furnace Structure (2027-2032) & (Units)

Table 57. World Large Submerged Arc Furnace Production Value by Furnace Structure (2021-2026) & (USD Million)

Table 58. World Large Submerged Arc Furnace Production Value by Furnace Structure (2027-2032) & (USD Million)

Table 59. World Large Submerged Arc Furnace Average Price by Furnace Structure (2021-2026) & (K US\$/Unit)

Table 60. World Large Submerged Arc Furnace Average Price by Furnace Structure

(2027-2032) & (K US\$/Unit)

Table 61. World Large Submerged Arc Furnace Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World Large Submerged Arc Furnace Production by Application (2021-2026) & (Units)

Table 63. World Large Submerged Arc Furnace Production by Application (2027-2032) & (Units)

Table 64. World Large Submerged Arc Furnace Production Value by Application (2021-2026) & (USD Million)

Table 65. World Large Submerged Arc Furnace Production Value by Application (2027-2032) & (USD Million)

Table 66. World Large Submerged Arc Furnace Average Price by Application (2021-2026) & (K US\$/Unit)

Table 67. World Large Submerged Arc Furnace Average Price by Application (2027-2032) & (K US\$/Unit)

Table 68. Tenova Basic Information, Manufacturing Base and Competitors

Table 69. Tenova Major Business

Table 70. Tenova Large Submerged Arc Furnace Product and Services

Table 71. Tenova Large Submerged Arc Furnace Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. Tenova Recent Developments/Updates

Table 73. Tenova Competitive Strengths & Weaknesses

Table 74. SMS Group Basic Information, Manufacturing Base and Competitors

Table 75. SMS Group Major Business

Table 76. SMS Group Large Submerged Arc Furnace Product and Services

Table 77. SMS Group Large Submerged Arc Furnace Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. SMS Group Recent Developments/Updates

Table 79. SMS Group Competitive Strengths & Weaknesses

Table 80. Primetals Technologies Basic Information, Manufacturing Base and Competitors

Table 81. Primetals Technologies Major Business

Table 82. Primetals Technologies Large Submerged Arc Furnace Product and Services

Table 83. Primetals Technologies Large Submerged Arc Furnace Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. Primetals Technologies Recent Developments/Updates

Table 85. Primetals Technologies Competitive Strengths & Weaknesses
Table 86. Danieli Basic Information, Manufacturing Base and Competitors
Table 87. Danieli Major Business
Table 88. Danieli Large Submerged Arc Furnace Product and Services
Table 89. Danieli Large Submerged Arc Furnace Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 90. Danieli Recent Developments/Updates
Table 91. Danieli Competitive Strengths & Weaknesses
Table 92. Posco SNNC Basic Information, Manufacturing Base and Competitors
Table 93. Posco SNNC Major Business
Table 94. Posco SNNC Large Submerged Arc Furnace Product and Services
Table 95. Posco SNNC Large Submerged Arc Furnace Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 96. Posco SNNC Recent Developments/Updates
Table 97. Posco SNNC Competitive Strengths & Weaknesses
Table 98. Dalian Huarui Heavy Industry Group Basic Information, Manufacturing Base and Competitors
Table 99. Dalian Huarui Heavy Industry Group Major Business
Table 100. Dalian Huarui Heavy Industry Group Large Submerged Arc Furnace Product and Services
Table 101. Dalian Huarui Heavy Industry Group Large Submerged Arc Furnace Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 102. Dalian Huarui Heavy Industry Group Recent Developments/Updates
Table 103. Dalian Huarui Heavy Industry Group Competitive Strengths & Weaknesses
Table 104. Jiangsu Yihui Energy Saving And Environmental Protectio Basic Information, Manufacturing Base and Competitors
Table 105. Jiangsu Yihui Energy Saving And Environmental Protectio Major Business
Table 106. Jiangsu Yihui Energy Saving And Environmental Protectio Large Submerged Arc Furnace Product and Services
Table 107. Jiangsu Yihui Energy Saving And Environmental Protectio Large Submerged Arc Furnace Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 108. Jiangsu Yihui Energy Saving And Environmental Protectio Recent Developments/Updates
Table 109. Jiangsu Yihui Energy Saving And Environmental Protectio Competitive Strengths & Weaknesses
Table 110. Shaanxi Chengda Industrial Furnace Manufacturing Basic Information,

Manufacturing Base and Competitors

Table 111. Shaanxi Chengda Industrial Furnace Manufacturing Major Business

Table 112. Shaanxi Chengda Industrial Furnace Manufacturing Large Submerged Arc Furnace Product and Services

Table 113. Shaanxi Chengda Industrial Furnace Manufacturing Large Submerged Arc Furnace Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 114. Shaanxi Chengda Industrial Furnace Manufacturing Recent Developments/Updates

Table 115. Shaanxi Chengda Industrial Furnace Manufacturing Competitive Strengths & Weaknesses

Table 116. Xi'an Sanrui Electric Furnace Basic Information, Manufacturing Base and Competitors

Table 117. Xi'an Sanrui Electric Furnace Major Business

Table 118. Xi'an Sanrui Electric Furnace Large Submerged Arc Furnace Product and Services

Table 119. Xi'an Sanrui Electric Furnace Large Submerged Arc Furnace Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 120. Xi'an Sanrui Electric Furnace Recent Developments/Updates

Table 121. Xi'an Sanrui Electric Furnace Competitive Strengths & Weaknesses

Table 122. Beijing Lirr High Temperature Materials Basic Information, Manufacturing Base and Competitors

Table 123. Beijing Lirr High Temperature Materials Major Business

Table 124. Beijing Lirr High Temperature Materials Large Submerged Arc Furnace Product and Services

Table 125. Beijing Lirr High Temperature Materials Large Submerged Arc Furnace Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 126. Beijing Lirr High Temperature Materials Recent Developments/Updates

Table 127. Beijing Lirr High Temperature Materials Competitive Strengths & Weaknesses

Table 128. Xi'an Tengye Metallurgical Engineering Basic Information, Manufacturing Base and Competitors

Table 129. Xi'an Tengye Metallurgical Engineering Major Business

Table 130. Xi'an Tengye Metallurgical Engineering Large Submerged Arc Furnace Product and Services

Table 131. Xi'an Tengye Metallurgical Engineering Large Submerged Arc Furnace Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin

and Market Share (2021-2026)

Table 132. Xi'an Tengye Metallurgical Engineering Recent Developments/Updates

Table 133. Xi'an Tengye Metallurgical Engineering Competitive Strengths & Weaknesses

Table 134. Yixing Yuyou Metallurgical Equipment Basic Information, Manufacturing Base and Competitors

Table 135. Yixing Yuyou Metallurgical Equipment Major Business

Table 136. Yixing Yuyou Metallurgical Equipment Large Submerged Arc Furnace Product and Services

Table 137. Yixing Yuyou Metallurgical Equipment Large Submerged Arc Furnace Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 138. Yixing Yuyou Metallurgical Equipment Recent Developments/Updates

Table 139. Yixing Yuyou Metallurgical Equipment Competitive Strengths & Weaknesses

Table 140. Xi'an FS Metallurgical Equipment Basic Information, Manufacturing Base and Competitors

Table 141. Xi'an FS Metallurgical Equipment Major Business

Table 142. Xi'an FS Metallurgical Equipment Large Submerged Arc Furnace Product and Services

Table 143. Xi'an FS Metallurgical Equipment Large Submerged Arc Furnace Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 144. Xi'an FS Metallurgical Equipment Recent Developments/Updates

Table 145. Xi'an FS Metallurgical Equipment Competitive Strengths & Weaknesses

Table 146. CHNZBTECH Co.,Ltd Basic Information, Manufacturing Base and Competitors

Table 147. CHNZBTECH Co.,Ltd Major Business

Table 148. CHNZBTECH Co.,Ltd Large Submerged Arc Furnace Product and Services

Table 149. CHNZBTECH Co.,Ltd Large Submerged Arc Furnace Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 150. CHNZBTECH Co.,Ltd Recent Developments/Updates

Table 151. CHNZBTECH Co.,Ltd Competitive Strengths & Weaknesses

Table 152. China ENFI Mining Solution Alliance Basic Information, Manufacturing Base and Competitors

Table 153. China ENFI Mining Solution Alliance Major Business

Table 154. China ENFI Mining Solution Alliance Large Submerged Arc Furnace Product and Services

Table 155. China ENFI Mining Solution Alliance Large Submerged Arc Furnace

Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 156. China ENFI Mining Solution Alliance Recent Developments/Updates

Table 157. China ENFI Mining Solution Alliance Competitive Strengths & Weaknesses

Table 158. Global Key Players of Large Submerged Arc Furnace Upstream (Raw Materials)

Table 159. Global Large Submerged Arc Furnace Typical Customers

Table 160. Large Submerged Arc Furnace Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Large Submerged Arc Furnace Picture

Figure 2. World Large Submerged Arc Furnace Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Large Submerged Arc Furnace Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Large Submerged Arc Furnace Production (2021-2032) & (Units)

Figure 5. World Large Submerged Arc Furnace Average Price (2021-2032) & (K US\$/Unit)

Figure 6. World Large Submerged Arc Furnace Production Value Market Share by Region (2021-2032)

Figure 7. World Large Submerged Arc Furnace Production Market Share by Region (2021-2032)

Figure 8. North America Large Submerged Arc Furnace Production (2021-2032) & (Units)

Figure 9. Europe Large Submerged Arc Furnace Production (2021-2032) & (Units)

Figure 10. China Large Submerged Arc Furnace Production (2021-2032) & (Units)

Figure 11. Japan Large Submerged Arc Furnace Production (2021-2032) & (Units)

Figure 12. Large Submerged Arc Furnace Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Large Submerged Arc Furnace Consumption (2021-2032) & (Units)

Figure 15. World Large Submerged Arc Furnace Consumption Market Share by Region (2021-2032)

Figure 16. United States Large Submerged Arc Furnace Consumption (2021-2032) & (Units)

Figure 17. China Large Submerged Arc Furnace Consumption (2021-2032) & (Units)

Figure 18. Europe Large Submerged Arc Furnace Consumption (2021-2032) & (Units)

Figure 19. Japan Large Submerged Arc Furnace Consumption (2021-2032) & (Units)

Figure 20. South Korea Large Submerged Arc Furnace Consumption (2021-2032) & (Units)

Figure 21. ASEAN Large Submerged Arc Furnace Consumption (2021-2032) & (Units)

Figure 22. India Large Submerged Arc Furnace Consumption (2021-2032) & (Units)

Figure 23. Producer Shipments of Large Submerged Arc Furnace by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Large Submerged Arc Furnace Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Large Submerged Arc Furnace Markets in 2025

Figure 26. United States VS China: Large Submerged Arc Furnace Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Large Submerged Arc Furnace Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Large Submerged Arc Furnace Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Large Submerged Arc Furnace Production Market Share 2025

Figure 30. China Based Manufacturers Large Submerged Arc Furnace Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Large Submerged Arc Furnace Production Market Share 2025

Figure 32. World Large Submerged Arc Furnace Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Large Submerged Arc Furnace Production Value Market Share by Type in 2025

Figure 34. Calcium Carbide Furnace

Figure 35. Nickel-Based Alloy Electric Furnace

Figure 36. Chromium-Based Alloy Electric Furnace

Figure 37. Manganese-Based Alloy Electric Furnace

Figure 38. Industrial Silicon Electric Furnace

Figure 39. World Large Submerged Arc Furnace Production Market Share by Type (2021-2032)

Figure 40. World Large Submerged Arc Furnace Production Value Market Share by Type (2021-2032)

Figure 41. World Large Submerged Arc Furnace Average Price by Type (2021-2032) & (K US\$/Unit)

Figure 42. World Large Submerged Arc Furnace Production Value by Furnace Structure, (USD Million), 2021 & 2025 & 2032

Figure 43. World Large Submerged Arc Furnace Production Value Market Share by Furnace Structure in 2025

Figure 44. Enclosed Type

Figure 45. Semi-enclosed Type

Figure 46. World Large Submerged Arc Furnace Production Market Share by Furnace Structure (2021-2032)

Figure 47. World Large Submerged Arc Furnace Production Value Market Share by Furnace Structure (2021-2032)

Figure 48. World Large Submerged Arc Furnace Average Price by Furnace Structure (2021-2032) & (K US\$/Unit)

Figure 49. World Large Submerged Arc Furnace Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 50. World Large Submerged Arc Furnace Production Value Market Share by Application in 2025

Figure 51. Metallurgical Industry

Figure 52. Chemical Industry

Figure 53. Foundry Industry

Figure 54. Others

Figure 55. World Large Submerged Arc Furnace Production Market Share by Application (2021-2032)

Figure 56. World Large Submerged Arc Furnace Production Value Market Share by Application (2021-2032)

Figure 57. World Large Submerged Arc Furnace Average Price by Application (2021-2032) & (K US\$/Unit)

Figure 58. Large Submerged Arc Furnace Industry Chain

Figure 59. Large Submerged Arc Furnace Procurement Model

Figure 60. Large Submerged Arc Furnace Sales Model

Figure 61. Large Submerged Arc Furnace Sales Channels, Direct Sales, and Distribution

Figure 62. Methodology

Figure 63. Research Process and Data Source

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