

# Global Single-Electrode DC Electric Arc Furnace Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Single-Electrode DC Electric Arc Furnace market size is expected to reach \$ 178 million by 2032, rising at a market growth of 7.9% CAGR during the forecast period (2026-2032).

A Single-Electrode DC Electric Arc Furnace (DC EAF) is an arc-melting furnace powered by a direct-current supply, featuring a single graphite electrode from the furnace roof as the primary arcing electrode, while the return path is provided through the furnace bottom (via a conductive hearth, bottom electrode, or engineered conductive lining). It is designed to address a practical set of problems in scrap/DRI/HBI-based steelmaking: achieving stable and efficient conversion of electrical energy into melting and refining heat under highly variable feed conditions and grid constraints, while reducing electrode consumption, arc flicker, and electrical disturbances. Compared with AC EAFs, the single-electrode DC configuration typically enables more concentrated and controllable arc behavior, offering improved arc stability, more predictable heat transfer to the bath, and tighter process control?benefits that translate into higher operational consistency and potentially lower operating costs when matched with appropriate power and furnace design. Historically, industrial adoption of DC EAFs progressed alongside advances in high-power rectification and power electronics, digital control systems, and durable conductive-bottom designs: early implementations were often limited by rectifier reliability and bottom return-path wear, but improvements in thyristor/IGBT-based power systems, automation, sensing, and refractory/conductive hearth technologies enabled broader deployment in applications that value stable operation, high automation, and optimized energy utilization. Its upstream supply chain typically includes refractory and furnace lining systems (including conductive hearth solutions), graphite electrodes and related consumables, furnace shell and water-cooled components, and the electrical/control stack (rectifier transformer, rectifier/power

modules, DC buswork, switchgear, harmonic mitigation and reactive power compensation, PLC/DCS and industrial communications). It also relies on instrumentation and key components such as current/voltage sensing, temperature measurement (e.g., infrared), hydraulic/servo actuation for electrode regulation, and environmental systems including off-gas handling and dust collection. Together, these upstream elements largely determine arc stability, energy efficiency, furnace life, and maintenance economics, which are central to the value proposition of the single-electrode DC route. In 2025, the global production capacity of single-electrode DC electric arc furnaces reached 50 units, with installed volume totaling 32 units. The average selling price was approximately USD 3.16 million per unit, and manufacturers' gross margins generally ranged between 20% and 30%.

In today's market, single-electrode DC EAF adoption is characterized by a mix of selective new-build deployments and a broader wave of performance-driven upgrades, where DC is positioned as a higher-control, higher-integration option rather than a universal replacement. Steelmakers evaluating DC increasingly focus on lifecycle controllability, arc stability under variable scrap/DRI mixes, process repeatability, integration with downstream refining and casting rhythms, and the robustness of maintenance practices that can sustain stable operation over time. On the supply side, competition tends to revolve around system-integration strength: beyond the furnace shell, vendors differentiate through rectification and power-quality packages, automation and closed-loop control, process modeling, conductive-bottom and refractory solutions, off-gas/dust systems, and the ability to execute complex revamps within tight outage windows. This 'engineering delivery' nature often lengthens decision cycles and raises the bar for technical due diligence and risk management.

Looking forward, technology progress is likely to be driven by tighter coupling of electrical control, metallurgical practice, and digital systems. Power electronics and control algorithms will continue to improve real-time arc regulation and bath stability, enabling more consistent operation across wider feedstock variability while coordinating with continuous charging/preheating, injection practices, slag control, and stirring strategies. Digitalization will move from basic monitoring to optimization, soft sensing, model predictive control, asset health management, and spares strategies aimed at reducing unplanned downtime and mitigating early failures in critical areas such as the bottom return path, refractory campaign, and water-cooled components. As grids evolve and electricity markets become more dynamic, DC EAF solutions are also well positioned to integrate with broader energy-management frameworks, including power-quality compliance, flexible load operation, and potential coupling with storage or demand-response mechanisms, making 'energy + process' co-optimization an

increasingly important value proposition.

Key demand drivers include the broader shift toward scrap-based and circular steelmaking, stronger requirements around grid impact and power quality, and rising pressure for safer, more standardized operations through higher automation and predictability. The main barriers are equally clear: DC single-electrode systems require higher integration maturity in the electrical stack, conductive-bottom and lining design, cooling and maintenance disciplines, and commissioning expertise; if operational capability or spare-part assurance is weak, failures in critical subsystems can amplify outage risk and erode economics. In addition, incumbent process familiarity and supplier lock-in can slow adoption where AC EAF fleets are already optimized and local raw-material and electricity conditions are stable, making incremental returns harder to prove. Overall, growth is less about a single ?headline? performance metric and more about delivering reliable, end-to-end systems?validated by engineering execution quality and long-term operational support in the specific conditions of each plant.

This report studies the global Single-Electrode DC Electric Arc Furnace production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Single-Electrode DC Electric 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 Single-Electrode DC Electric Arc Furnace that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Single-Electrode DC Electric Arc Furnace total production and demand, 2021-2032, (Units)

Global Single-Electrode DC Electric Arc Furnace total production value, 2021-2032, (USD Million)

Global Single-Electrode DC Electric Arc Furnace production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Single-Electrode DC Electric Arc Furnace consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Single-Electrode DC Electric Arc Furnace domestic production, consumption, key domestic manufacturers and share

Global Single-Electrode DC Electric Arc Furnace production by manufacturer,

production, price, value and market share 2021-2026, (USD Million) & (Units)  
Global Single-Electrode DC Electric Arc Furnace production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)  
Global Single-Electrode DC Electric Arc Furnace production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Single-Electrode DC Electric 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 SMS, Danieli, Primetals Technologies, Paul Wurth IHI, Steel Plantech, SARRALLE, Tenova, Electrotherm, GEMKOM, Anyang Younengde Electric, 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 Single-Electrode DC Electric Arc Furnace market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (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 Single-Electrode DC Electric Arc Furnace Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Single-Electrode DC Electric Arc Furnace Market, Segmentation by Type:

?30 t

30?70 t

70?150 t

>150 t

#### Global Single-Electrode DC Electric Arc Furnace Market, Segmentation by Operating Type:

Left-hand Operation

Right-hand Operation

#### Global Single-Electrode DC Electric Arc Furnace Market, Segmentation by Power:

Standard Power

High Power

Ultra-high Power

#### Global Single-Electrode DC Electric Arc Furnace Market, Segmentation by Application:

Ferrous Metal Smelting

Nonferrous Metal Smelting

Others

Companies Profiled:

SMS

Danieli

Primetals Technologies

Paul Wurth IHI

Steel Plantech

SARRALLE

Tenova

Electrotherm

GEMKOM

Anyang Younengde Electric

Shaanxi Chengda Industry Furnaces

Jiangsu Lushoon Metallurgical

**Key Questions Answered:**

1. How big is the global Single-Electrode DC Electric Arc Furnace market?
2. What is the demand of the global Single-Electrode DC Electric Arc Furnace market?
3. What is the year over year growth of the global Single-Electrode DC Electric Arc Furnace market?
4. What is the production and production value of the global Single-Electrode DC Electric Arc Furnace market?

5. Who are the key producers in the global Single-Electrode DC Electric Arc Furnace market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

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

### 2 DEMAND SUMMARY

- 2.1 World Single-Electrode DC Electric Arc Furnace Demand (2021-2032)
- 2.2 World Single-Electrode DC Electric Arc Furnace Consumption by Region
  - 2.2.1 World Single-Electrode DC Electric Arc Furnace Consumption by Region (2021-2026)
  - 2.2.2 World Single-Electrode DC Electric Arc Furnace Consumption Forecast by Region (2027-2032)
- 2.3 United States Single-Electrode DC Electric Arc Furnace Consumption (2021-2032)
- 2.4 China Single-Electrode DC Electric Arc Furnace Consumption (2021-2032)
- 2.5 Europe Single-Electrode DC Electric Arc Furnace Consumption (2021-2032)
- 2.6 Japan Single-Electrode DC Electric Arc Furnace Consumption (2021-2032)

- 2.7 South Korea Single-Electrode DC Electric Arc Furnace Consumption (2021-2032)
- 2.8 ASEAN Single-Electrode DC Electric Arc Furnace Consumption (2021-2032)
- 2.9 India Single-Electrode DC Electric Arc Furnace Consumption (2021-2032)

### **3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS**

3.1 World Single-Electrode DC Electric Arc Furnace Production Value by Manufacturer (2021-2026)

3.2 World Single-Electrode DC Electric Arc Furnace Production by Manufacturer (2021-2026)

3.3 World Single-Electrode DC Electric Arc Furnace Average Price by Manufacturer (2021-2026)

3.4 Single-Electrode DC Electric Arc Furnace Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Single-Electrode DC Electric Arc Furnace Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Single-Electrode DC Electric Arc Furnace in 2025

3.5.3 Global Concentration Ratios (CR8) for Single-Electrode DC Electric Arc Furnace in 2025

3.6 Single-Electrode DC Electric Arc Furnace Market: Overall Company Footprint Analysis

3.6.1 Single-Electrode DC Electric Arc Furnace Market: Region Footprint

3.6.2 Single-Electrode DC Electric Arc Furnace Market: Company Product Type Footprint

3.6.3 Single-Electrode DC Electric 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: Single-Electrode DC Electric Arc Furnace Production Value Comparison

4.1.1 United States VS China: Single-Electrode DC Electric Arc Furnace Production

Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Single-Electrode DC Electric Arc Furnace Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Single-Electrode DC Electric Arc Furnace Production Comparison

4.2.1 United States VS China: Single-Electrode DC Electric Arc Furnace Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Single-Electrode DC Electric Arc Furnace Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Single-Electrode DC Electric Arc Furnace Consumption Comparison

4.3.1 United States VS China: Single-Electrode DC Electric Arc Furnace Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Single-Electrode DC Electric Arc Furnace Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Single-Electrode DC Electric Arc Furnace Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Single-Electrode DC Electric Arc Furnace Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Single-Electrode DC Electric Arc Furnace Production Value (2021-2026)

4.4.3 United States Based Manufacturers Single-Electrode DC Electric Arc Furnace Production (2021-2026)

4.5 China Based Single-Electrode DC Electric Arc Furnace Manufacturers and Market Share

4.5.1 China Based Single-Electrode DC Electric Arc Furnace Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Single-Electrode DC Electric Arc Furnace Production Value (2021-2026)

4.5.3 China Based Manufacturers Single-Electrode DC Electric Arc Furnace Production (2021-2026)

4.6 Rest of World Based Single-Electrode DC Electric Arc Furnace Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Single-Electrode DC Electric Arc Furnace Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Single-Electrode DC Electric Arc Furnace Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Single-Electrode DC Electric Arc Furnace Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World Single-Electrode DC Electric Arc Furnace Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 ?30 t

5.2.2 30?70 t

5.2.3 70?150 t

5.2.4 >150 t

5.3 Market Segment by Type

5.3.1 World Single-Electrode DC Electric Arc Furnace Production by Type (2021-2032)

5.3.2 World Single-Electrode DC Electric Arc Furnace Production Value by Type (2021-2032)

5.3.3 World Single-Electrode DC Electric Arc Furnace Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY OPERATING TYPE**

6.1 World Single-Electrode DC Electric Arc Furnace Market Size Overview by Operating Type: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Operating Type

6.2.1 Left-hand Operation

6.2.2 Right-hand Operation

6.3 Market Segment by Operating Type

6.3.1 World Single-Electrode DC Electric Arc Furnace Production by Operating Type (2021-2032)

6.3.2 World Single-Electrode DC Electric Arc Furnace Production Value by Operating Type (2021-2032)

6.3.3 World Single-Electrode DC Electric Arc Furnace Average Price by Operating Type (2021-2032)

## **7 MARKET ANALYSIS BY POWER**

7.1 World Single-Electrode DC Electric Arc Furnace Market Size Overview by Power: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Power

7.2.1 Standard Power

7.2.2 High Power

### 7.2.3 Ultra-high Power

## 7.3 Market Segment by Power

7.3.1 World Single-Electrode DC Electric Arc Furnace Production by Power (2021-2032)

7.3.2 World Single-Electrode DC Electric Arc Furnace Production Value by Power (2021-2032)

7.3.3 World Single-Electrode DC Electric Arc Furnace Average Price by Power (2021-2032)

## 8 MARKET ANALYSIS BY APPLICATION

8.1 World Single-Electrode DC Electric Arc Furnace Market Size Overview by Application: 2021 VS 2025 VS 2032

### 8.2 Segment Introduction by Application

8.2.1 Ferrous Metal Smelting

8.2.2 Nonferrous Metal Smelting

8.2.3 Others

### 8.3 Market Segment by Application

8.3.1 World Single-Electrode DC Electric Arc Furnace Production by Application (2021-2032)

8.3.2 World Single-Electrode DC Electric Arc Furnace Production Value by Application (2021-2032)

8.3.3 World Single-Electrode DC Electric Arc Furnace Average Price by Application (2021-2032)

## 9 COMPANY PROFILES

### 9.1 SMS

9.1.1 SMS Details

9.1.2 SMS Major Business

9.1.3 SMS Single-Electrode DC Electric Arc Furnace Product and Services

9.1.4 SMS Single-Electrode DC Electric Arc Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 SMS Recent Developments/Updates

9.1.6 SMS Competitive Strengths & Weaknesses

### 9.2 Danieli

9.2.1 Danieli Details

9.2.2 Danieli Major Business

9.2.3 Danieli Single-Electrode DC Electric Arc Furnace Product and Services

9.2.4 Danieli Single-Electrode DC Electric Arc Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Danieli Recent Developments/Updates

9.2.6 Danieli Competitive Strengths & Weaknesses

9.3 Primetals Technologies

9.3.1 Primetals Technologies Details

9.3.2 Primetals Technologies Major Business

9.3.3 Primetals Technologies Single-Electrode DC Electric Arc Furnace Product and Services

9.3.4 Primetals Technologies Single-Electrode DC Electric Arc Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Primetals Technologies Recent Developments/Updates

9.3.6 Primetals Technologies Competitive Strengths & Weaknesses

9.4 Paul Wurth IHI

9.4.1 Paul Wurth IHI Details

9.4.2 Paul Wurth IHI Major Business

9.4.3 Paul Wurth IHI Single-Electrode DC Electric Arc Furnace Product and Services

9.4.4 Paul Wurth IHI Single-Electrode DC Electric Arc Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Paul Wurth IHI Recent Developments/Updates

9.4.6 Paul Wurth IHI Competitive Strengths & Weaknesses

9.5 Steel Plantech

9.5.1 Steel Plantech Details

9.5.2 Steel Plantech Major Business

9.5.3 Steel Plantech Single-Electrode DC Electric Arc Furnace Product and Services

9.5.4 Steel Plantech Single-Electrode DC Electric Arc Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Steel Plantech Recent Developments/Updates

9.5.6 Steel Plantech Competitive Strengths & Weaknesses

9.6 SARRALLE

9.6.1 SARRALLE Details

9.6.2 SARRALLE Major Business

9.6.3 SARRALLE Single-Electrode DC Electric Arc Furnace Product and Services

9.6.4 SARRALLE Single-Electrode DC Electric Arc Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 SARRALLE Recent Developments/Updates

9.6.6 SARRALLE Competitive Strengths & Weaknesses

9.7 Tenova

9.7.1 Tenova Details

- 9.7.2 Tenova Major Business
- 9.7.3 Tenova Single-Electrode DC Electric Arc Furnace Product and Services
- 9.7.4 Tenova Single-Electrode DC Electric Arc Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.7.5 Tenova Recent Developments/Updates
- 9.7.6 Tenova Competitive Strengths & Weaknesses
- 9.8 Electrotherm
  - 9.8.1 Electrotherm Details
  - 9.8.2 Electrotherm Major Business
  - 9.8.3 Electrotherm Single-Electrode DC Electric Arc Furnace Product and Services
  - 9.8.4 Electrotherm Single-Electrode DC Electric Arc Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.8.5 Electrotherm Recent Developments/Updates
  - 9.8.6 Electrotherm Competitive Strengths & Weaknesses
- 9.9 GEMKOM
  - 9.9.1 GEMKOM Details
  - 9.9.2 GEMKOM Major Business
  - 9.9.3 GEMKOM Single-Electrode DC Electric Arc Furnace Product and Services
  - 9.9.4 GEMKOM Single-Electrode DC Electric Arc Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.9.5 GEMKOM Recent Developments/Updates
  - 9.9.6 GEMKOM Competitive Strengths & Weaknesses
- 9.10 Anyang Younengde Electric
  - 9.10.1 Anyang Younengde Electric Details
  - 9.10.2 Anyang Younengde Electric Major Business
  - 9.10.3 Anyang Younengde Electric Single-Electrode DC Electric Arc Furnace Product and Services
  - 9.10.4 Anyang Younengde Electric Single-Electrode DC Electric Arc Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.10.5 Anyang Younengde Electric Recent Developments/Updates
  - 9.10.6 Anyang Younengde Electric Competitive Strengths & Weaknesses
- 9.11 Shaanxi Chengda Industry Furnaces
  - 9.11.1 Shaanxi Chengda Industry Furnaces Details
  - 9.11.2 Shaanxi Chengda Industry Furnaces Major Business
  - 9.11.3 Shaanxi Chengda Industry Furnaces Single-Electrode DC Electric Arc Furnace Product and Services
  - 9.11.4 Shaanxi Chengda Industry Furnaces Single-Electrode DC Electric Arc Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.11.5 Shaanxi Chengda Industry Furnaces Recent Developments/Updates

- 9.11.6 Shaanxi Chengda Industry Furnaces Competitive Strengths & Weaknesses
- 9.12 Jiangsu Lushoon Metallurgical
  - 9.12.1 Jiangsu Lushoon Metallurgical Details
  - 9.12.2 Jiangsu Lushoon Metallurgical Major Business
  - 9.12.3 Jiangsu Lushoon Metallurgical Single-Electrode DC Electric Arc Furnace Product and Services
  - 9.12.4 Jiangsu Lushoon Metallurgical Single-Electrode DC Electric Arc Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.12.5 Jiangsu Lushoon Metallurgical Recent Developments/Updates
  - 9.12.6 Jiangsu Lushoon Metallurgical Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

- 10.1 Single-Electrode DC Electric Arc Furnace Industry Chain
- 10.2 Single-Electrode DC Electric Arc Furnace Upstream Analysis
  - 10.2.1 Single-Electrode DC Electric Arc Furnace Core Raw Materials
  - 10.2.2 Main Manufacturers of Single-Electrode DC Electric Arc Furnace Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Single-Electrode DC Electric Arc Furnace Production Mode
- 10.6 Single-Electrode DC Electric Arc Furnace Procurement Model
- 10.7 Single-Electrode DC Electric Arc Furnace Industry Sales Model and Sales Channels
  - 10.7.1 Single-Electrode DC Electric Arc Furnace Sales Model
  - 10.7.2 Single-Electrode DC Electric Arc Furnace Typical Distributors

## **11 RESEARCH FINDINGS AND CONCLUSION**

## **12 APPENDIX**

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Single-Electrode DC Electric Arc Furnace Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Single-Electrode DC Electric Arc Furnace Production Value by Region (2021-2026) & (USD Million)

Table 3. World Single-Electrode DC Electric Arc Furnace Production Value by Region (2027-2032) & (USD Million)

Table 4. World Single-Electrode DC Electric Arc Furnace Production Value Market Share by Region (2021-2026)

Table 5. World Single-Electrode DC Electric Arc Furnace Production Value Market Share by Region (2027-2032)

Table 6. World Single-Electrode DC Electric Arc Furnace Production by Region (2021-2026) & (Units)

Table 7. World Single-Electrode DC Electric Arc Furnace Production by Region (2027-2032) & (Units)

Table 8. World Single-Electrode DC Electric Arc Furnace Production Market Share by Region (2021-2026)

Table 9. World Single-Electrode DC Electric Arc Furnace Production Market Share by Region (2027-2032)

Table 10. World Single-Electrode DC Electric Arc Furnace Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Single-Electrode DC Electric Arc Furnace Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Single-Electrode DC Electric Arc Furnace Major Market Trends

Table 13. World Single-Electrode DC Electric Arc Furnace Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Single-Electrode DC Electric Arc Furnace Consumption by Region (2021-2026) & (Units)

Table 15. World Single-Electrode DC Electric Arc Furnace Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Single-Electrode DC Electric Arc Furnace Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Single-Electrode DC Electric Arc Furnace Producers in 2025

Table 18. World Single-Electrode DC Electric Arc Furnace Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Single-Electrode DC Electric Arc Furnace Producers in 2025

Table 20. World Single-Electrode DC Electric Arc Furnace Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Single-Electrode DC Electric Arc Furnace Company Evaluation Quadrant

Table 22. World Single-Electrode DC Electric Arc Furnace Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Single-Electrode DC Electric Arc Furnace Production Site of Key Manufacturer

Table 24. Single-Electrode DC Electric Arc Furnace Market: Company Product Type Footprint

Table 25. Single-Electrode DC Electric Arc Furnace Market: Company Product Application Footprint

Table 26. Single-Electrode DC Electric Arc Furnace Competitive Factors

Table 27. Single-Electrode DC Electric Arc Furnace New Entrant and Capacity Expansion Plans

Table 28. Single-Electrode DC Electric Arc Furnace Mergers & Acquisitions Activity

Table 29. United States VS China Single-Electrode DC Electric Arc Furnace Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Single-Electrode DC Electric Arc Furnace Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Single-Electrode DC Electric Arc Furnace Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Single-Electrode DC Electric Arc Furnace Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Single-Electrode DC Electric Arc Furnace Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Single-Electrode DC Electric Arc Furnace Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Single-Electrode DC Electric Arc Furnace Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Single-Electrode DC Electric Arc Furnace Production Market Share (2021-2026)

Table 37. China Based Single-Electrode DC Electric Arc Furnace Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Single-Electrode DC Electric Arc Furnace Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Single-Electrode DC Electric Arc Furnace

Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Single-Electrode DC Electric Arc Furnace Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers Single-Electrode DC Electric Arc Furnace Production Market Share (2021-2026)

Table 42. Rest of World Based Single-Electrode DC Electric Arc Furnace Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Single-Electrode DC Electric Arc Furnace Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Single-Electrode DC Electric Arc Furnace Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Single-Electrode DC Electric Arc Furnace Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Single-Electrode DC Electric Arc Furnace Production Market Share (2021-2026)

Table 47. World Single-Electrode DC Electric Arc Furnace Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Single-Electrode DC Electric Arc Furnace Production by Type (2021-2026) & (Units)

Table 49. World Single-Electrode DC Electric Arc Furnace Production by Type (2027-2032) & (Units)

Table 50. World Single-Electrode DC Electric Arc Furnace Production Value by Type (2021-2026) & (USD Million)

Table 51. World Single-Electrode DC Electric Arc Furnace Production Value by Type (2027-2032) & (USD Million)

Table 52. World Single-Electrode DC Electric Arc Furnace Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Single-Electrode DC Electric Arc Furnace Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Single-Electrode DC Electric Arc Furnace Production Value by Operating Type, (USD Million), 2021 & 2025 & 2032

Table 55. World Single-Electrode DC Electric Arc Furnace Production by Operating Type (2021-2026) & (Units)

Table 56. World Single-Electrode DC Electric Arc Furnace Production by Operating Type (2027-2032) & (Units)

Table 57. World Single-Electrode DC Electric Arc Furnace Production Value by Operating Type (2021-2026) & (USD Million)

Table 58. World Single-Electrode DC Electric Arc Furnace Production Value by Operating Type (2027-2032) & (USD Million)

- Table 59. World Single-Electrode DC Electric Arc Furnace Average Price by Operating Type (2021-2026) & (US\$/Unit)
- Table 60. World Single-Electrode DC Electric Arc Furnace Average Price by Operating Type (2027-2032) & (US\$/Unit)
- Table 61. World Single-Electrode DC Electric Arc Furnace Production Value by Power, (USD Million), 2021 & 2025 & 2032
- Table 62. World Single-Electrode DC Electric Arc Furnace Production by Power (2021-2026) & (Units)
- Table 63. World Single-Electrode DC Electric Arc Furnace Production by Power (2027-2032) & (Units)
- Table 64. World Single-Electrode DC Electric Arc Furnace Production Value by Power (2021-2026) & (USD Million)
- Table 65. World Single-Electrode DC Electric Arc Furnace Production Value by Power (2027-2032) & (USD Million)
- Table 66. World Single-Electrode DC Electric Arc Furnace Average Price by Power (2021-2026) & (US\$/Unit)
- Table 67. World Single-Electrode DC Electric Arc Furnace Average Price by Power (2027-2032) & (US\$/Unit)
- Table 68. World Single-Electrode DC Electric Arc Furnace Production Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 69. World Single-Electrode DC Electric Arc Furnace Production by Application (2021-2026) & (Units)
- Table 70. World Single-Electrode DC Electric Arc Furnace Production by Application (2027-2032) & (Units)
- Table 71. World Single-Electrode DC Electric Arc Furnace Production Value by Application (2021-2026) & (USD Million)
- Table 72. World Single-Electrode DC Electric Arc Furnace Production Value by Application (2027-2032) & (USD Million)
- Table 73. World Single-Electrode DC Electric Arc Furnace Average Price by Application (2021-2026) & (US\$/Unit)
- Table 74. World Single-Electrode DC Electric Arc Furnace Average Price by Application (2027-2032) & (US\$/Unit)
- Table 75. SMS Basic Information, Manufacturing Base and Competitors
- Table 76. SMS Major Business
- Table 77. SMS Single-Electrode DC Electric Arc Furnace Product and Services
- Table 78. SMS Single-Electrode DC Electric Arc Furnace Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 79. SMS Recent Developments/Updates

- Table 80. SMS Competitive Strengths & Weaknesses
- Table 81. Danieli Basic Information, Manufacturing Base and Competitors
- Table 82. Danieli Major Business
- Table 83. Danieli Single-Electrode DC Electric Arc Furnace Product and Services
- Table 84. Danieli Single-Electrode DC Electric Arc Furnace Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. Danieli Recent Developments/Updates
- Table 86. Danieli Competitive Strengths & Weaknesses
- Table 87. Primetals Technologies Basic Information, Manufacturing Base and Competitors
- Table 88. Primetals Technologies Major Business
- Table 89. Primetals Technologies Single-Electrode DC Electric Arc Furnace Product and Services
- Table 90. Primetals Technologies Single-Electrode DC Electric Arc Furnace Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. Primetals Technologies Recent Developments/Updates
- Table 92. Primetals Technologies Competitive Strengths & Weaknesses
- Table 93. Paul Wurth IHI Basic Information, Manufacturing Base and Competitors
- Table 94. Paul Wurth IHI Major Business
- Table 95. Paul Wurth IHI Single-Electrode DC Electric Arc Furnace Product and Services
- Table 96. Paul Wurth IHI Single-Electrode DC Electric Arc Furnace Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. Paul Wurth IHI Recent Developments/Updates
- Table 98. Paul Wurth IHI Competitive Strengths & Weaknesses
- Table 99. Steel Plantech Basic Information, Manufacturing Base and Competitors
- Table 100. Steel Plantech Major Business
- Table 101. Steel Plantech Single-Electrode DC Electric Arc Furnace Product and Services
- Table 102. Steel Plantech Single-Electrode DC Electric Arc Furnace Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Steel Plantech Recent Developments/Updates
- Table 104. Steel Plantech Competitive Strengths & Weaknesses
- Table 105. SARRALLE Basic Information, Manufacturing Base and Competitors
- Table 106. SARRALLE Major Business

Table 107. SARRALLE Single-Electrode DC Electric Arc Furnace Product and Services

Table 108. SARRALLE Single-Electrode DC Electric Arc Furnace Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. SARRALLE Recent Developments/Updates

Table 110. SARRALLE Competitive Strengths & Weaknesses

Table 111. Tenova Basic Information, Manufacturing Base and Competitors

Table 112. Tenova Major Business

Table 113. Tenova Single-Electrode DC Electric Arc Furnace Product and Services

Table 114. Tenova Single-Electrode DC Electric Arc Furnace Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Tenova Recent Developments/Updates

Table 116. Tenova Competitive Strengths & Weaknesses

Table 117. Electrotherm Basic Information, Manufacturing Base and Competitors

Table 118. Electrotherm Major Business

Table 119. Electrotherm Single-Electrode DC Electric Arc Furnace Product and Services

Table 120. Electrotherm Single-Electrode DC Electric Arc Furnace Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Electrotherm Recent Developments/Updates

Table 122. Electrotherm Competitive Strengths & Weaknesses

Table 123. GEMKOM Basic Information, Manufacturing Base and Competitors

Table 124. GEMKOM Major Business

Table 125. GEMKOM Single-Electrode DC Electric Arc Furnace Product and Services

Table 126. GEMKOM Single-Electrode DC Electric Arc Furnace Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. GEMKOM Recent Developments/Updates

Table 128. GEMKOM Competitive Strengths & Weaknesses

Table 129. Anyang Younengde Electric Basic Information, Manufacturing Base and Competitors

Table 130. Anyang Younengde Electric Major Business

Table 131. Anyang Younengde Electric Single-Electrode DC Electric Arc Furnace Product and Services

Table 132. Anyang Younengde Electric Single-Electrode DC Electric Arc Furnace Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Anyang Younengde Electric Recent Developments/Updates

Table 134. Anyang Younengde Electric Competitive Strengths & Weaknesses

Table 135. Shaanxi Chengda Industry Furnaces Basic Information, Manufacturing Base and Competitors

Table 136. Shaanxi Chengda Industry Furnaces Major Business

Table 137. Shaanxi Chengda Industry Furnaces Single-Electrode DC Electric Arc Furnace Product and Services

Table 138. Shaanxi Chengda Industry Furnaces Single-Electrode DC Electric Arc Furnace Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Shaanxi Chengda Industry Furnaces Recent Developments/Updates

Table 140. Shaanxi Chengda Industry Furnaces Competitive Strengths & Weaknesses

Table 141. Jiangsu Lushoon Metallurgical Basic Information, Manufacturing Base and Competitors

Table 142. Jiangsu Lushoon Metallurgical Major Business

Table 143. Jiangsu Lushoon Metallurgical Single-Electrode DC Electric Arc Furnace Product and Services

Table 144. Jiangsu Lushoon Metallurgical Single-Electrode DC Electric Arc Furnace Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Jiangsu Lushoon Metallurgical Recent Developments/Updates

Table 146. Jiangsu Lushoon Metallurgical Competitive Strengths & Weaknesses

Table 147. Global Key Players of Single-Electrode DC Electric Arc Furnace Upstream (Raw Materials)

Table 148. Global Single-Electrode DC Electric Arc Furnace Typical Customers

Table 149. Single-Electrode DC Electric Arc Furnace Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Single-Electrode DC Electric Arc Furnace Picture

Figure 2. World Single-Electrode DC Electric Arc Furnace Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Single-Electrode DC Electric Arc Furnace Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Single-Electrode DC Electric Arc Furnace Production (2021-2032) & (Units)

Figure 5. World Single-Electrode DC Electric Arc Furnace Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Single-Electrode DC Electric Arc Furnace Production Value Market Share by Region (2021-2032)

Figure 7. World Single-Electrode DC Electric Arc Furnace Production Market Share by Region (2021-2032)

Figure 8. North America Single-Electrode DC Electric Arc Furnace Production (2021-2032) & (Units)

Figure 9. Europe Single-Electrode DC Electric Arc Furnace Production (2021-2032) & (Units)

Figure 10. China Single-Electrode DC Electric Arc Furnace Production (2021-2032) & (Units)

Figure 11. Japan Single-Electrode DC Electric Arc Furnace Production (2021-2032) & (Units)

Figure 12. Single-Electrode DC Electric Arc Furnace Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Single-Electrode DC Electric Arc Furnace Consumption (2021-2032) & (Units)

Figure 15. World Single-Electrode DC Electric Arc Furnace Consumption Market Share by Region (2021-2032)

Figure 16. United States Single-Electrode DC Electric Arc Furnace Consumption (2021-2032) & (Units)

Figure 17. China Single-Electrode DC Electric Arc Furnace Consumption (2021-2032) & (Units)

Figure 18. Europe Single-Electrode DC Electric Arc Furnace Consumption (2021-2032) & (Units)

Figure 19. Japan Single-Electrode DC Electric Arc Furnace Consumption (2021-2032) & (Units)

Figure 20. South Korea Single-Electrode DC Electric Arc Furnace Consumption (2021-2032) & (Units)

Figure 21. ASEAN Single-Electrode DC Electric Arc Furnace Consumption (2021-2032) & (Units)

Figure 22. India Single-Electrode DC Electric Arc Furnace Consumption (2021-2032) & (Units)

Figure 23. Producer Shipments of Single-Electrode DC Electric Arc Furnace by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Single-Electrode DC Electric Arc Furnace Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Single-Electrode DC Electric Arc Furnace Markets in 2025

Figure 26. United States VS China: Single-Electrode DC Electric Arc Furnace Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Single-Electrode DC Electric Arc Furnace Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Single-Electrode DC Electric Arc Furnace Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Single-Electrode DC Electric Arc Furnace Production Market Share 2025

Figure 30. China Based Manufacturers Single-Electrode DC Electric Arc Furnace Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Single-Electrode DC Electric Arc Furnace Production Market Share 2025

Figure 32. World Single-Electrode DC Electric Arc Furnace Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Single-Electrode DC Electric Arc Furnace Production Value Market Share by Type in 2025

Figure 34. ?30 t

Figure 35. 30?70 t

Figure 36. 70?150 t

Figure 37. >150 t

Figure 38. World Single-Electrode DC Electric Arc Furnace Production Market Share by Type (2021-2032)

Figure 39. World Single-Electrode DC Electric Arc Furnace Production Value Market Share by Type (2021-2032)

Figure 40. World Single-Electrode DC Electric Arc Furnace Average Price by Type (2021-2032) & (US\$/Unit)

Figure 41. World Single-Electrode DC Electric Arc Furnace Production Value by

Operating Type, (USD Million), 2021 & 2025 & 2032

Figure 42. World Single-Electrode DC Electric Arc Furnace Production Value Market Share by Operating Type in 2025

Figure 43. Left-hand Operation

Figure 44. Right-hand Operation

Figure 45. World Single-Electrode DC Electric Arc Furnace Production Market Share by Operating Type (2021-2032)

Figure 46. World Single-Electrode DC Electric Arc Furnace Production Value Market Share by Operating Type (2021-2032)

Figure 47. World Single-Electrode DC Electric Arc Furnace Average Price by Operating Type (2021-2032) & (US\$/Unit)

Figure 48. World Single-Electrode DC Electric Arc Furnace Production Value by Power, (USD Million), 2021 & 2025 & 2032

Figure 49. World Single-Electrode DC Electric Arc Furnace Production Value Market Share by Power in 2025

Figure 50. Standard Power

Figure 51. High Power

Figure 52. Ultra-high Power

Figure 53. World Single-Electrode DC Electric Arc Furnace Production Market Share by Power (2021-2032)

Figure 54. World Single-Electrode DC Electric Arc Furnace Production Value Market Share by Power (2021-2032)

Figure 55. World Single-Electrode DC Electric Arc Furnace Average Price by Power (2021-2032) & (US\$/Unit)

Figure 56. World Single-Electrode DC Electric Arc Furnace Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World Single-Electrode DC Electric Arc Furnace Production Value Market Share by Application in 2025

Figure 58. Ferrous Metal Smelting

Figure 59. Nonferrous Metal Smelting

Figure 60. Others

Figure 61. World Single-Electrode DC Electric Arc Furnace Production Market Share by Application (2021-2032)

Figure 62. World Single-Electrode DC Electric Arc Furnace Production Value Market Share by Application (2021-2032)

Figure 63. World Single-Electrode DC Electric Arc Furnace Average Price by Application (2021-2032) & (US\$/Unit)

Figure 64. Single-Electrode DC Electric Arc Furnace Industry Chain

Figure 65. Single-Electrode DC Electric Arc Furnace Procurement Model

Figure 66. Single-Electrode DC Electric Arc Furnace Sales Model

Figure 67. Single-Electrode DC Electric Arc Furnace Sales Channels, Direct Sales, and Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

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