

Global Single-Electrode DC Electric Arc Furnace Market Growth 2026-2032

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Abstracts

The global Single-Electrode DC Electric Arc Furnace market size is predicted to grow from US\$ 99 million in 2025 to US\$ 174 million in 2032; it is expected to grow at a CAGR of 8.4% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the “Single-Electrode DC Electric Arc Furnace Industry Forecast” looks at past sales and reviews total world Single-Electrode DC Electric Arc Furnace sales in 2025, providing a comprehensive analysis by region and market sector of projected Single-Electrode DC Electric Arc Furnace sales for 2026 through 2032. With Single-Electrode DC Electric Arc Furnace sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Single-Electrode DC Electric Arc Furnace industry.

This Insight Report provides a comprehensive analysis of the global Single-Electrode DC Electric Arc Furnace landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Single-Electrode DC Electric Arc Furnace portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Single-Electrode DC Electric Arc Furnace market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Single-Electrode DC Electric Arc Furnace and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Single-Electrode DC

Electric Arc Furnace.

This report presents a comprehensive overview, market shares, and growth opportunities of Single-Electrode DC Electric Arc Furnace market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

?30 t

30–70 t

70–150 t

>150 t

Segmentation by Operating Type:

Left-hand Operation

Right-hand Operation

Segmentation by Power:

Standard Power

High Power

Ultra-high Power

Segmentation by Application:

Ferrous Metal Smelting

Nonferrous Metal Smelting

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Single-Electrode DC Electric Arc Furnace market?

What factors are driving Single-Electrode DC Electric Arc Furnace market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Single-Electrode DC Electric Arc Furnace market opportunities vary by end market size?

How does Single-Electrode DC Electric Arc Furnace break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Single-Electrode DC Electric Arc Furnace Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Single-Electrode DC Electric Arc Furnace by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Single-Electrode DC Electric Arc Furnace by Country/Region, 2021, 2025 & 2032

2.2 Single-Electrode DC Electric Arc Furnace Segment by Type

- 2.2.1 <30 t
- 2.2.2 30–70 t
- 2.2.3 70–150 t
- 2.2.4 >150 t
- 2.2.5 Single-Electrode DC Electric Arc Furnace Sales by Type
 - 2.2.5.1 Global Single-Electrode DC Electric Arc Furnace Sales Market Share by Type (2021-2026)
 - 2.2.5.2 Global Single-Electrode DC Electric Arc Furnace Revenue and Market Share by Type (2021-2026)
 - 2.2.5.3 Global Single-Electrode DC Electric Arc Furnace Sale Price by Type (2021-2026)

2.3 Single-Electrode DC Electric Arc Furnace Segment by Operating Type

- 2.3.1 Left-hand Operation
- 2.3.2 Right-hand Operation
- 2.3.3 Single-Electrode DC Electric Arc Furnace Sales by Operating Type
 - 2.3.3.1 Global Single-Electrode DC Electric Arc Furnace Sales Market Share by Operating Type (2021-2026)

2.3.3.2 Global Single-Electrode DC Electric Arc Furnace Revenue and Market Share by Operating Type (2021-2026)

2.3.3.3 Global Single-Electrode DC Electric Arc Furnace Sale Price by Operating Type (2021-2026)

2.4 Single-Electrode DC Electric Arc Furnace Segment by Power

2.4.1 Standard Power

2.4.2 High Power

2.4.3 Ultra-high Power

2.4.4 Single-Electrode DC Electric Arc Furnace Sales by Power

2.4.4.1 Global Single-Electrode DC Electric Arc Furnace Sales Market Share by Power (2021-2026)

2.4.4.2 Global Single-Electrode DC Electric Arc Furnace Revenue and Market Share by Power (2021-2026)

2.4.4.3 Global Single-Electrode DC Electric Arc Furnace Sale Price by Power (2021-2026)

2.5 Single-Electrode DC Electric Arc Furnace Segment by Application

2.5.1 Ferrous Metal Smelting

2.5.2 Nonferrous Metal Smelting

2.5.3 Others

2.5.4 Single-Electrode DC Electric Arc Furnace Sales by Application

2.5.4.1 Global Single-Electrode DC Electric Arc Furnace Sale Market Share by Application (2021-2026)

2.5.4.2 Global Single-Electrode DC Electric Arc Furnace Revenue and Market Share by Application (2021-2026)

2.5.4.3 Global Single-Electrode DC Electric Arc Furnace Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Single-Electrode DC Electric Arc Furnace Breakdown Data by Company

3.1.1 Global Single-Electrode DC Electric Arc Furnace Annual Sales by Company (2021-2026)

3.1.2 Global Single-Electrode DC Electric Arc Furnace Sales Market Share by Company (2021-2026)

3.2 Global Single-Electrode DC Electric Arc Furnace Annual Revenue by Company (2021-2026)

3.2.1 Global Single-Electrode DC Electric Arc Furnace Revenue by Company (2021-2026)

3.2.2 Global Single-Electrode DC Electric Arc Furnace Revenue Market Share by

Company (2021-2026)

3.3 Global Single-Electrode DC Electric Arc Furnace Sale Price by Company

3.4 Key Manufacturers Single-Electrode DC Electric Arc Furnace Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Single-Electrode DC Electric Arc Furnace Product Location Distribution

3.4.2 Players Single-Electrode DC Electric Arc Furnace Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR SINGLE-ELECTRODE DC ELECTRIC ARC FURNACE BY GEOGRAPHIC REGION

4.1 World Historic Single-Electrode DC Electric Arc Furnace Market Size by Geographic Region (2021-2026)

4.1.1 Global Single-Electrode DC Electric Arc Furnace Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Single-Electrode DC Electric Arc Furnace Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Single-Electrode DC Electric Arc Furnace Market Size by Country/Region (2021-2026)

4.2.1 Global Single-Electrode DC Electric Arc Furnace Annual Sales by Country/Region (2021-2026)

4.2.2 Global Single-Electrode DC Electric Arc Furnace Annual Revenue by Country/Region (2021-2026)

4.3 Americas Single-Electrode DC Electric Arc Furnace Sales Growth

4.4 APAC Single-Electrode DC Electric Arc Furnace Sales Growth

4.5 Europe Single-Electrode DC Electric Arc Furnace Sales Growth

4.6 Middle East & Africa Single-Electrode DC Electric Arc Furnace Sales Growth

5 AMERICAS

5.1 Americas Single-Electrode DC Electric Arc Furnace Sales by Country

5.1.1 Americas Single-Electrode DC Electric Arc Furnace Sales by Country (2021-2026)

5.1.2 Americas Single-Electrode DC Electric Arc Furnace Revenue by Country

(2021-2026)

5.2 Americas Single-Electrode DC Electric Arc Furnace Sales by Type (2021-2026)

5.3 Americas Single-Electrode DC Electric Arc Furnace Sales by Application

(2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Single-Electrode DC Electric Arc Furnace Sales by Region

6.1.1 APAC Single-Electrode DC Electric Arc Furnace Sales by Region (2021-2026)

6.1.2 APAC Single-Electrode DC Electric Arc Furnace Revenue by Region

(2021-2026)

6.2 APAC Single-Electrode DC Electric Arc Furnace Sales by Type (2021-2026)

6.3 APAC Single-Electrode DC Electric Arc Furnace Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Single-Electrode DC Electric Arc Furnace by Country

7.1.1 Europe Single-Electrode DC Electric Arc Furnace Sales by Country (2021-2026)

7.1.2 Europe Single-Electrode DC Electric Arc Furnace Revenue by Country

(2021-2026)

7.2 Europe Single-Electrode DC Electric Arc Furnace Sales by Type (2021-2026)

7.3 Europe Single-Electrode DC Electric Arc Furnace Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Single-Electrode DC Electric Arc Furnace by Country

8.1.1 Middle East & Africa Single-Electrode DC Electric Arc Furnace Sales by Country (2021-2026)

8.1.2 Middle East & Africa Single-Electrode DC Electric Arc Furnace Revenue by Country (2021-2026)

8.2 Middle East & Africa Single-Electrode DC Electric Arc Furnace Sales by Type (2021-2026)

8.3 Middle East & Africa Single-Electrode DC Electric Arc Furnace Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Single-Electrode DC Electric Arc Furnace

10.3 Manufacturing Process Analysis of Single-Electrode DC Electric Arc Furnace

10.4 Industry Chain Structure of Single-Electrode DC Electric Arc Furnace

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Single-Electrode DC Electric Arc Furnace Distributors

11.3 Single-Electrode DC Electric Arc Furnace Customer

12 WORLD FORECAST REVIEW FOR SINGLE-ELECTRODE DC ELECTRIC ARC

FURNACE BY GEOGRAPHIC REGION

12.1 Global Single-Electrode DC Electric Arc Furnace Market Size Forecast by Region

12.1.1 Global Single-Electrode DC Electric Arc Furnace Forecast by Region (2027-2032)

12.1.2 Global Single-Electrode DC Electric Arc Furnace Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Single-Electrode DC Electric Arc Furnace Forecast by Type (2027-2032)

12.7 Global Single-Electrode DC Electric Arc Furnace Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 SMS

13.1.1 SMS Company Information

13.1.2 SMS Single-Electrode DC Electric Arc Furnace Product Portfolios and Specifications

13.1.3 SMS Single-Electrode DC Electric Arc Furnace Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 SMS Main Business Overview

13.1.5 SMS Latest Developments

13.2 Danieli

13.2.1 Danieli Company Information

13.2.2 Danieli Single-Electrode DC Electric Arc Furnace Product Portfolios and Specifications

13.2.3 Danieli Single-Electrode DC Electric Arc Furnace Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Danieli Main Business Overview

13.2.5 Danieli Latest Developments

13.3 Primetals Technologies

13.3.1 Primetals Technologies Company Information

13.3.2 Primetals Technologies Single-Electrode DC Electric Arc Furnace Product Portfolios and Specifications

13.3.3 Primetals Technologies Single-Electrode DC Electric Arc Furnace Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.3.4 Primetals Technologies Main Business Overview
- 13.3.5 Primetals Technologies Latest Developments
- 13.4 Paul Wurth IHI
 - 13.4.1 Paul Wurth IHI Company Information
 - 13.4.2 Paul Wurth IHI Single-Electrode DC Electric Arc Furnace Product Portfolios and Specifications
 - 13.4.3 Paul Wurth IHI Single-Electrode DC Electric Arc Furnace Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 Paul Wurth IHI Main Business Overview
 - 13.4.5 Paul Wurth IHI Latest Developments
- 13.5 Steel Plantech
 - 13.5.1 Steel Plantech Company Information
 - 13.5.2 Steel Plantech Single-Electrode DC Electric Arc Furnace Product Portfolios and Specifications
 - 13.5.3 Steel Plantech Single-Electrode DC Electric Arc Furnace Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Steel Plantech Main Business Overview
 - 13.5.5 Steel Plantech Latest Developments
- 13.6 SARRALLE
 - 13.6.1 SARRALLE Company Information
 - 13.6.2 SARRALLE Single-Electrode DC Electric Arc Furnace Product Portfolios and Specifications
 - 13.6.3 SARRALLE Single-Electrode DC Electric Arc Furnace Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 SARRALLE Main Business Overview
 - 13.6.5 SARRALLE Latest Developments
- 13.7 Tenova
 - 13.7.1 Tenova Company Information
 - 13.7.2 Tenova Single-Electrode DC Electric Arc Furnace Product Portfolios and Specifications
 - 13.7.3 Tenova Single-Electrode DC Electric Arc Furnace Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 Tenova Main Business Overview
 - 13.7.5 Tenova Latest Developments
- 13.8 Electrotherm
 - 13.8.1 Electrotherm Company Information
 - 13.8.2 Electrotherm Single-Electrode DC Electric Arc Furnace Product Portfolios and Specifications
 - 13.8.3 Electrotherm Single-Electrode DC Electric Arc Furnace Sales, Revenue, Price

and Gross Margin (2021-2026)

13.8.4 Electrotherm Main Business Overview

13.8.5 Electrotherm Latest Developments

13.9 GEMKOM

13.9.1 GEMKOM Company Information

13.9.2 GEMKOM Single-Electrode DC Electric Arc Furnace Product Portfolios and Specifications

13.9.3 GEMKOM Single-Electrode DC Electric Arc Furnace Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 GEMKOM Main Business Overview

13.9.5 GEMKOM Latest Developments

13.10 Anyang Younengde Electric

13.10.1 Anyang Younengde Electric Company Information

13.10.2 Anyang Younengde Electric Single-Electrode DC Electric Arc Furnace Product Portfolios and Specifications

13.10.3 Anyang Younengde Electric Single-Electrode DC Electric Arc Furnace Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Anyang Younengde Electric Main Business Overview

13.10.5 Anyang Younengde Electric Latest Developments

13.11 Shaanxi Chengda Industry Furnaces

13.11.1 Shaanxi Chengda Industry Furnaces Company Information

13.11.2 Shaanxi Chengda Industry Furnaces Single-Electrode DC Electric Arc Furnace Product Portfolios and Specifications

13.11.3 Shaanxi Chengda Industry Furnaces Single-Electrode DC Electric Arc Furnace Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Shaanxi Chengda Industry Furnaces Main Business Overview

13.11.5 Shaanxi Chengda Industry Furnaces Latest Developments

13.12 Jiangsu Lushoon Metallurgical

13.12.1 Jiangsu Lushoon Metallurgical Company Information

13.12.2 Jiangsu Lushoon Metallurgical Single-Electrode DC Electric Arc Furnace Product Portfolios and Specifications

13.12.3 Jiangsu Lushoon Metallurgical Single-Electrode DC Electric Arc Furnace Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Jiangsu Lushoon Metallurgical Main Business Overview

13.12.5 Jiangsu Lushoon Metallurgical Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

- Table 1. Single-Electrode DC Electric Arc Furnace Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Table 2. Single-Electrode DC Electric Arc Furnace Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)
- Table 3. Major Players of <30 t
- Table 4. Major Players of 30–70 t
- Table 5. Major Players of 70–150 t
- Table 6. Major Players of >150 t
- Table 7. Global Single-Electrode DC Electric Arc Furnace Sales by Type (2021-2026) & (Units)
- Table 8. Global Single-Electrode DC Electric Arc Furnace Sales Market Share by Type (2021-2026)
- Table 9. Global Single-Electrode DC Electric Arc Furnace Revenue by Type (2021-2026) & (\$ million)
- Table 10. Global Single-Electrode DC Electric Arc Furnace Revenue Market Share by Type (2021-2026)
- Table 11. Global Single-Electrode DC Electric Arc Furnace Sale Price by Type (2021-2026) & (US\$/Unit)
- Table 12. Major Players of Left-hand Operation
- Table 13. Major Players of Right-hand Operation
- Table 14. Global Single-Electrode DC Electric Arc Furnace Sales by Operating Type (2021-2026) & (Units)
- Table 15. Global Single-Electrode DC Electric Arc Furnace Sales Market Share by Operating Type (2021-2026)
- Table 16. Global Single-Electrode DC Electric Arc Furnace Revenue by Operating Type (2021-2026) & (\$ million)
- Table 17. Global Single-Electrode DC Electric Arc Furnace Revenue Market Share by Operating Type (2021-2026)
- Table 18. Global Single-Electrode DC Electric Arc Furnace Sale Price by Operating Type (2021-2026) & (US\$/Unit)
- Table 19. Major Players of Standard Power
- Table 20. Major Players of High Power
- Table 21. Major Players of Ultra-high Power
- Table 22. Global Single-Electrode DC Electric Arc Furnace Sales by Power (2021-2026) & (Units)

Table 23. Global Single-Electrode DC Electric Arc Furnace Sales Market Share by Power (2021-2026)

Table 24. Global Single-Electrode DC Electric Arc Furnace Revenue by Power (2021-2026) & (\$ million)

Table 25. Global Single-Electrode DC Electric Arc Furnace Revenue Market Share by Power (2021-2026)

Table 26. Global Single-Electrode DC Electric Arc Furnace Sale Price by Power (2021-2026) & (US\$/Unit)

Table 27. Global Single-Electrode DC Electric Arc Furnace Sale by Application (2021-2026) & (Units)

Table 28. Global Single-Electrode DC Electric Arc Furnace Sale Market Share by Application (2021-2026)

Table 29. Global Single-Electrode DC Electric Arc Furnace Revenue by Application (2021-2026) & (\$ million)

Table 30. Global Single-Electrode DC Electric Arc Furnace Revenue Market Share by Application (2021-2026)

Table 31. Global Single-Electrode DC Electric Arc Furnace Sale Price by Application (2021-2026) & (US\$/Unit)

Table 32. Global Single-Electrode DC Electric Arc Furnace Sales by Company (2021-2026) & (Units)

Table 33. Global Single-Electrode DC Electric Arc Furnace Sales Market Share by Company (2021-2026)

Table 34. Global Single-Electrode DC Electric Arc Furnace Revenue by Company (2021-2026) & (\$ millions)

Table 35. Global Single-Electrode DC Electric Arc Furnace Revenue Market Share by Company (2021-2026)

Table 36. Global Single-Electrode DC Electric Arc Furnace Sale Price by Company (2021-2026) & (US\$/Unit)

Table 37. Key Manufacturers Single-Electrode DC Electric Arc Furnace Producing Area Distribution and Sales Area

Table 38. Players Single-Electrode DC Electric Arc Furnace Products Offered

Table 39. Single-Electrode DC Electric Arc Furnace Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 40. New Products and Potential Entrants

Table 41. Market M&A Activity & Strategy

Table 42. Global Single-Electrode DC Electric Arc Furnace Sales by Geographic Region (2021-2026) & (Units)

Table 43. Global Single-Electrode DC Electric Arc Furnace Sales Market Share Geographic Region (2021-2026)

Table 44. Global Single-Electrode DC Electric Arc Furnace Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 45. Global Single-Electrode DC Electric Arc Furnace Revenue Market Share by Geographic Region (2021-2026)

Table 46. Global Single-Electrode DC Electric Arc Furnace Sales by Country/Region (2021-2026) & (Units)

Table 47. Global Single-Electrode DC Electric Arc Furnace Sales Market Share by Country/Region (2021-2026)

Table 48. Global Single-Electrode DC Electric Arc Furnace Revenue by Country/Region (2021-2026) & (\$ millions)

Table 49. Global Single-Electrode DC Electric Arc Furnace Revenue Market Share by Country/Region (2021-2026)

Table 50. Americas Single-Electrode DC Electric Arc Furnace Sales by Country (2021-2026) & (Units)

Table 51. Americas Single-Electrode DC Electric Arc Furnace Sales Market Share by Country (2021-2026)

Table 52. Americas Single-Electrode DC Electric Arc Furnace Revenue by Country (2021-2026) & (\$ millions)

Table 53. Americas Single-Electrode DC Electric Arc Furnace Sales by Type (2021-2026) & (Units)

Table 54. Americas Single-Electrode DC Electric Arc Furnace Sales by Application (2021-2026) & (Units)

Table 55. APAC Single-Electrode DC Electric Arc Furnace Sales by Region (2021-2026) & (Units)

Table 56. APAC Single-Electrode DC Electric Arc Furnace Sales Market Share by Region (2021-2026)

Table 57. APAC Single-Electrode DC Electric Arc Furnace Revenue by Region (2021-2026) & (\$ millions)

Table 58. APAC Single-Electrode DC Electric Arc Furnace Sales by Type (2021-2026) & (Units)

Table 59. APAC Single-Electrode DC Electric Arc Furnace Sales by Application (2021-2026) & (Units)

Table 60. Europe Single-Electrode DC Electric Arc Furnace Sales by Country (2021-2026) & (Units)

Table 61. Europe Single-Electrode DC Electric Arc Furnace Revenue by Country (2021-2026) & (\$ millions)

Table 62. Europe Single-Electrode DC Electric Arc Furnace Sales by Type (2021-2026) & (Units)

Table 63. Europe Single-Electrode DC Electric Arc Furnace Sales by Application

(2021-2026) & (Units)

Table 64. Middle East & Africa Single-Electrode DC Electric Arc Furnace Sales by Country (2021-2026) & (Units)

Table 65. Middle East & Africa Single-Electrode DC Electric Arc Furnace Revenue Market Share by Country (2021-2026)

Table 66. Middle East & Africa Single-Electrode DC Electric Arc Furnace Sales by Type (2021-2026) & (Units)

Table 67. Middle East & Africa Single-Electrode DC Electric Arc Furnace Sales by Application (2021-2026) & (Units)

Table 68. Key Market Drivers & Growth Opportunities of Single-Electrode DC Electric Arc Furnace

Table 69. Key Market Challenges & Risks of Single-Electrode DC Electric Arc Furnace

Table 70. Key Industry Trends of Single-Electrode DC Electric Arc Furnace

Table 71. Single-Electrode DC Electric Arc Furnace Raw Material

Table 72. Key Suppliers of Raw Materials

Table 73. Single-Electrode DC Electric Arc Furnace Distributors List

Table 74. Single-Electrode DC Electric Arc Furnace Customer List

Table 75. Global Single-Electrode DC Electric Arc Furnace Sales Forecast by Region (2027-2032) & (Units)

Table 76. Global Single-Electrode DC Electric Arc Furnace Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 77. Americas Single-Electrode DC Electric Arc Furnace Sales Forecast by Country (2027-2032) & (Units)

Table 78. Americas Single-Electrode DC Electric Arc Furnace Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 79. APAC Single-Electrode DC Electric Arc Furnace Sales Forecast by Region (2027-2032) & (Units)

Table 80. APAC Single-Electrode DC Electric Arc Furnace Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 81. Europe Single-Electrode DC Electric Arc Furnace Sales Forecast by Country (2027-2032) & (Units)

Table 82. Europe Single-Electrode DC Electric Arc Furnace Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 83. Middle East & Africa Single-Electrode DC Electric Arc Furnace Sales Forecast by Country (2027-2032) & (Units)

Table 84. Middle East & Africa Single-Electrode DC Electric Arc Furnace Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 85. Global Single-Electrode DC Electric Arc Furnace Sales Forecast by Type (2027-2032) & (Units)

Table 86. Global Single-Electrode DC Electric Arc Furnace Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 87. Global Single-Electrode DC Electric Arc Furnace Sales Forecast by Application (2027-2032) & (Units)

Table 88. Global Single-Electrode DC Electric Arc Furnace Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 89. SMS Basic Information, Single-Electrode DC Electric Arc Furnace Manufacturing Base, Sales Area and Its Competitors

Table 90. SMS Single-Electrode DC Electric Arc Furnace Product Portfolios and Specifications

Table 91. SMS Single-Electrode DC Electric Arc Furnace Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 92. SMS Main Business

Table 93. SMS Latest Developments

Table 94. Danieli Basic Information, Single-Electrode DC Electric Arc Furnace Manufacturing Base, Sales Area and Its Competitors

Table 95. Danieli Single-Electrode DC Electric Arc Furnace Product Portfolios and Specifications

Table 96. Danieli Single-Electrode DC Electric Arc Furnace Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 97. Danieli Main Business

Table 98. Danieli Latest Developments

Table 99. Primetals Technologies Basic Information, Single-Electrode DC Electric Arc Furnace Manufacturing Base, Sales Area and Its Competitors

Table 100. Primetals Technologies Single-Electrode DC Electric Arc Furnace Product Portfolios and Specifications

Table 101. Primetals Technologies Single-Electrode DC Electric Arc Furnace Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 102. Primetals Technologies Main Business

Table 103. Primetals Technologies Latest Developments

Table 104. Paul Wurth IHI Basic Information, Single-Electrode DC Electric Arc Furnace Manufacturing Base, Sales Area and Its Competitors

Table 105. Paul Wurth IHI Single-Electrode DC Electric Arc Furnace Product Portfolios and Specifications

Table 106. Paul Wurth IHI Single-Electrode DC Electric Arc Furnace Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 107. Paul Wurth IHI Main Business

Table 108. Paul Wurth IHI Latest Developments

Table 109. Steel Plantech Basic Information, Single-Electrode DC Electric Arc Furnace

Manufacturing Base, Sales Area and Its Competitors

Table 110. Steel Plantech Single-Electrode DC Electric Arc Furnace Product Portfolios and Specifications

Table 111. Steel Plantech Single-Electrode DC Electric Arc Furnace Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 112. Steel Plantech Main Business

Table 113. Steel Plantech Latest Developments

Table 114. SARRALLE Basic Information, Single-Electrode DC Electric Arc Furnace Manufacturing Base, Sales Area and Its Competitors

Table 115. SARRALLE Single-Electrode DC Electric Arc Furnace Product Portfolios and Specifications

Table 116. SARRALLE Single-Electrode DC Electric Arc Furnace Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 117. SARRALLE Main Business

Table 118. SARRALLE Latest Developments

Table 119. Tenova Basic Information, Single-Electrode DC Electric Arc Furnace Manufacturing Base, Sales Area and Its Competitors

Table 120. Tenova Single-Electrode DC Electric Arc Furnace Product Portfolios and Specifications

Table 121. Tenova Single-Electrode DC Electric Arc Furnace Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 122. Tenova Main Business

Table 123. Tenova Latest Developments

Table 124. Electrotherm Basic Information, Single-Electrode DC Electric Arc Furnace Manufacturing Base, Sales Area and Its Competitors

Table 125. Electrotherm Single-Electrode DC Electric Arc Furnace Product Portfolios and Specifications

Table 126. Electrotherm Single-Electrode DC Electric Arc Furnace Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 127. Electrotherm Main Business

Table 128. Electrotherm Latest Developments

Table 129. GEMKOM Basic Information, Single-Electrode DC Electric Arc Furnace Manufacturing Base, Sales Area and Its Competitors

Table 130. GEMKOM Single-Electrode DC Electric Arc Furnace Product Portfolios and Specifications

Table 131. GEMKOM Single-Electrode DC Electric Arc Furnace Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 132. GEMKOM Main Business

Table 133. GEMKOM Latest Developments

Table 134. Anyang Younengde Electric Basic Information, Single-Electrode DC Electric Arc Furnace Manufacturing Base, Sales Area and Its Competitors

Table 135. Anyang Younengde Electric Single-Electrode DC Electric Arc Furnace Product Portfolios and Specifications

Table 136. Anyang Younengde Electric Single-Electrode DC Electric Arc Furnace Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 137. Anyang Younengde Electric Main Business

Table 138. Anyang Younengde Electric Latest Developments

Table 139. Shaanxi Chengda Industry Furnaces Basic Information, Single-Electrode DC Electric Arc Furnace Manufacturing Base, Sales Area and Its Competitors

Table 140. Shaanxi Chengda Industry Furnaces Single-Electrode DC Electric Arc Furnace Product Portfolios and Specifications

Table 141. Shaanxi Chengda Industry Furnaces Single-Electrode DC Electric Arc Furnace Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 142. Shaanxi Chengda Industry Furnaces Main Business

Table 143. Shaanxi Chengda Industry Furnaces Latest Developments

Table 144. Jiangsu Lushoon Metallurgical Basic Information, Single-Electrode DC Electric Arc Furnace Manufacturing Base, Sales Area and Its Competitors

Table 145. Jiangsu Lushoon Metallurgical Single-Electrode DC Electric Arc Furnace Product Portfolios and Specifications

Table 146. Jiangsu Lushoon Metallurgical Single-Electrode DC Electric Arc Furnace Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 147. Jiangsu Lushoon Metallurgical Main Business

Table 148. Jiangsu Lushoon Metallurgical Latest Developments

List Of Figures

LIST OF FIGURES

Figure 1. Picture of Single-Electrode DC Electric Arc Furnace

Figure 2. Single-Electrode DC Electric Arc Furnace Report Years Considered

Figure 3. Research Objectives

Figure 4. Research Methodology

Figure 5. Research Process and Data Source

Figure 6. Global Single-Electrode DC Electric Arc Furnace Sales Growth Rate 2021-2032 (Units)

Figure 7. Global Single-Electrode DC Electric Arc Furnace Revenue Growth Rate 2021-2032 (\$ millions)

Figure 8. Single-Electrode DC Electric Arc Furnace Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Figure 9. Single-Electrode DC Electric Arc Furnace Sales Market Share by Country/Region (2025)

Figure 10. Single-Electrode DC Electric Arc Furnace Sales Market Share by Country/Region (2021, 2025 & 2032)

Figure 11. Product Picture of ?30 t

Figure 12. Product Picture of 30–70 t

Figure 13. Product Picture of 70–150 t

Figure 14. Product Picture of >150 t

Figure 15. Global Single-Electrode DC Electric Arc Furnace Sales Market Share by Type in 2026

Figure 16. Global Single-Electrode DC Electric Arc Furnace Revenue Market Share by Type (2021-2026)

Figure 17. Product Picture of Left-hand Operation

Figure 18. Product Picture of Right-hand Operation

Figure 19. Global Single-Electrode DC Electric Arc Furnace Sales Market Share by Operating Type in 2026

Figure 20. Global Single-Electrode DC Electric Arc Furnace Revenue Market Share by Operating Type (2021-2026)

Figure 21. Product Picture of Standard Power

Figure 22. Product Picture of High Power

Figure 23. Product Picture of Ultra-high Power

Figure 24. Global Single-Electrode DC Electric Arc Furnace Sales Market Share by Power in 2026

Figure 25. Global Single-Electrode DC Electric Arc Furnace Revenue Market Share by

Power (2021-2026)

Figure 26. Single-Electrode DC Electric Arc Furnace Consumed in Ferrous Metal Smelting

Figure 27. Global Single-Electrode DC Electric Arc Furnace Market: Ferrous Metal Smelting (2021-2026) & (Units)

Figure 28. Single-Electrode DC Electric Arc Furnace Consumed in Nonferrous Metal Smelting

Figure 29. Global Single-Electrode DC Electric Arc Furnace Market: Nonferrous Metal Smelting (2021-2026) & (Units)

Figure 30. Single-Electrode DC Electric Arc Furnace Consumed in Others

Figure 31. Global Single-Electrode DC Electric Arc Furnace Market: Others (2021-2026) & (Units)

Figure 32. Global Single-Electrode DC Electric Arc Furnace Sale Market Share by Application (2025)

Figure 33. Global Single-Electrode DC Electric Arc Furnace Revenue Market Share by Application in 2025

Figure 34. Single-Electrode DC Electric Arc Furnace Sales by Company in 2025 (Units)

Figure 35. Global Single-Electrode DC Electric Arc Furnace Sales Market Share by Company in 2025

Figure 36. Single-Electrode DC Electric Arc Furnace Revenue by Company in 2025 (\$ millions)

Figure 37. Global Single-Electrode DC Electric Arc Furnace Revenue Market Share by Company in 2025

Figure 38. Global Single-Electrode DC Electric Arc Furnace Sales Market Share by Geographic Region (2021-2026)

Figure 39. Global Single-Electrode DC Electric Arc Furnace Revenue Market Share by Geographic Region in 2025

Figure 40. Americas Single-Electrode DC Electric Arc Furnace Sales 2021-2026 (Units)

Figure 41. Americas Single-Electrode DC Electric Arc Furnace Revenue 2021-2026 (\$ millions)

Figure 42. APAC Single-Electrode DC Electric Arc Furnace Sales 2021-2026 (Units)

Figure 43. APAC Single-Electrode DC Electric Arc Furnace Revenue 2021-2026 (\$ millions)

Figure 44. Europe Single-Electrode DC Electric Arc Furnace Sales 2021-2026 (Units)

Figure 45. Europe Single-Electrode DC Electric Arc Furnace Revenue 2021-2026 (\$ millions)

Figure 46. Middle East & Africa Single-Electrode DC Electric Arc Furnace Sales 2021-2026 (Units)

Figure 47. Middle East & Africa Single-Electrode DC Electric Arc Furnace Revenue

2021-2026 (\$ millions)

Figure 48. Americas Single-Electrode DC Electric Arc Furnace Sales Market Share by Country in 2025

Figure 49. Americas Single-Electrode DC Electric Arc Furnace Revenue Market Share by Country (2021-2026)

Figure 50. Americas Single-Electrode DC Electric Arc Furnace Sales Market Share by Type (2021-2026)

Figure 51. Americas Single-Electrode DC Electric Arc Furnace Sales Market Share by Application (2021-2026)

Figure 52. United States Single-Electrode DC Electric Arc Furnace Revenue Growth 2021-2026 (\$ millions)

Figure 53. Canada Single-Electrode DC Electric Arc Furnace Revenue Growth 2021-2026 (\$ millions)

Figure 54. Mexico Single-Electrode DC Electric Arc Furnace Revenue Growth 2021-2026 (\$ millions)

Figure 55. Brazil Single-Electrode DC Electric Arc Furnace Revenue Growth 2021-2026 (\$ millions)

Figure 56. APAC Single-Electrode DC Electric Arc Furnace Sales Market Share by Region in 2025

Figure 57. APAC Single-Electrode DC Electric Arc Furnace Revenue Market Share by Region (2021-2026)

Figure 58. APAC Single-Electrode DC Electric Arc Furnace Sales Market Share by Type (2021-2026)

Figure 59. APAC Single-Electrode DC Electric Arc Furnace Sales Market Share by Application (2021-2026)

Figure 60. China Single-Electrode DC Electric Arc Furnace Revenue Growth 2021-2026 (\$ millions)

Figure 61. Japan Single-Electrode DC Electric Arc Furnace Revenue Growth 2021-2026 (\$ millions)

Figure 62. South Korea Single-Electrode DC Electric Arc Furnace Revenue Growth 2021-2026 (\$ millions)

Figure 63. Southeast Asia Single-Electrode DC Electric Arc Furnace Revenue Growth 2021-2026 (\$ millions)

Figure 64. India Single-Electrode DC Electric Arc Furnace Revenue Growth 2021-2026 (\$ millions)

Figure 65. Australia Single-Electrode DC Electric Arc Furnace Revenue Growth 2021-2026 (\$ millions)

Figure 66. China Taiwan Single-Electrode DC Electric Arc Furnace Revenue Growth 2021-2026 (\$ millions)

Figure 67. Europe Single-Electrode DC Electric Arc Furnace Sales Market Share by Country in 2025

Figure 68. Europe Single-Electrode DC Electric Arc Furnace Revenue Market Share by Country (2021-2026)

Figure 69. Europe Single-Electrode DC Electric Arc Furnace Sales Market Share by Type (2021-2026)

Figure 70. Europe Single-Electrode DC Electric Arc Furnace Sales Market Share by Application (2021-2026)

Figure 71. Germany Single-Electrode DC Electric Arc Furnace Revenue Growth 2021-2026 (\$ millions)

Figure 72. France Single-Electrode DC Electric Arc Furnace Revenue Growth 2021-2026 (\$ millions)

Figure 73. UK Single-Electrode DC Electric Arc Furnace Revenue Growth 2021-2026 (\$ millions)

Figure 74. Italy Single-Electrode DC Electric Arc Furnace Revenue Growth 2021-2026 (\$ millions)

Figure 75. Russia Single-Electrode DC Electric Arc Furnace Revenue Growth 2021-2026 (\$ millions)

Figure 76. Middle East & Africa Single-Electrode DC Electric Arc Furnace Sales Market Share by Country (2021-2026)

Figure 77. Middle East & Africa Single-Electrode DC Electric Arc Furnace Sales Market Share by Type (2021-2026)

Figure 78. Middle East & Africa Single-Electrode DC Electric Arc Furnace Sales Market Share by Application (2021-2026)

Figure 79. Egypt Single-Electrode DC Electric Arc Furnace Revenue Growth 2021-2026 (\$ millions)

Figure 80. South Africa Single-Electrode DC Electric Arc Furnace Revenue Growth 2021-2026 (\$ millions)

Figure 81. Israel Single-Electrode DC Electric Arc Furnace Revenue Growth 2021-2026 (\$ millions)

Figure 82. Turkey Single-Electrode DC Electric Arc Furnace Revenue Growth 2021-2026 (\$ millions)

Figure 83. GCC Countries Single-Electrode DC Electric Arc Furnace Revenue Growth 2021-2026 (\$ millions)

Figure 84. Manufacturing Cost Structure Analysis of Single-Electrode DC Electric Arc Furnace in 2026

Figure 85. Manufacturing Process Analysis of Single-Electrode DC Electric Arc Furnace

Figure 86. Industry Chain Structure of Single-Electrode DC Electric Arc Furnace

Figure 87. Channels of Distribution

Figure 88. Global Single-Electrode DC Electric Arc Furnace Sales Market Forecast by Region (2027-2032)

Figure 89. Global Single-Electrode DC Electric Arc Furnace Revenue Market Share Forecast by Region (2027-2032)

Figure 90. Global Single-Electrode DC Electric Arc Furnace Sales Market Share Forecast by Type (2027-2032)

Figure 91. Global Single-Electrode DC Electric Arc Furnace Revenue Market Share Forecast by Type (2027-2032)

Figure 92. Global Single-Electrode DC Electric Arc Furnace Sales Market Share Forecast by Application (2027-2032)

Figure 93. Global Single-Electrode DC Electric Arc Furnace Revenue Market Share Forecast by Application (2027-2032)

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