

# Global Single-Electrode DC Electric Arc Furnace Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Single-Electrode DC Electric Arc Furnace market size was valued at US\$ 104 million in 2025 and is forecast to a readjusted size of US\$ 178 million by 2032 with a CAGR of 7.9% during review period.

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 is a detailed and comprehensive analysis for global Single-Electrode DC Electric Arc Furnace market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Single-Electrode DC Electric Arc Furnace market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Single-Electrode DC Electric Arc Furnace market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Single-Electrode DC Electric Arc Furnace market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Single-Electrode DC Electric Arc Furnace market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Single-Electrode DC Electric Arc Furnace

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Single-Electrode DC Electric Arc Furnace market based on the following parameters - company overview, sales quantity, revenue, 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.

### **Market Segmentation**

Single-Electrode DC Electric Arc Furnace market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

?30 t

30?70 t

70?150 t

>150 t

#### Market segment by Operating Type

Left-hand Operation

Right-hand Operation

#### Market segment by Power

Standard Power

High Power

Ultra-high Power

#### Market segment by Application

Ferrous Metal Smelting

Nonferrous Metal Smelting

Others

#### Major players covered

SMS

Danieli

Primetals Technologies

Paul Wurth IHI

Steel Plantech

SARRALLE

Tenova

Electrotherm

GEMKOM

Anyang Younengde Electric

Shaanxi Chengda Industry Furnaces

Jiangsu Lushoon Metallurgical

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Single-Electrode DC Electric Arc Furnace product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Single-Electrode DC Electric Arc Furnace, with price, sales quantity, revenue, and global market share of Single-Electrode DC

Electric Arc Furnace from 2021 to 2026.

Chapter 3, the Single-Electrode DC Electric Arc Furnace competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Single-Electrode DC Electric Arc Furnace breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Single-Electrode DC Electric Arc Furnace market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Single-Electrode DC Electric Arc Furnace.

Chapter 14 and 15, to describe Single-Electrode DC Electric Arc Furnace sales channel, distributors, customers, research findings and conclusion.

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