

# Global High-Power DC Electric Arc Furnace Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global High-Power DC Electric Arc Furnace market size is expected to reach \$ 145 million by 2032, rising at a market growth of 7.9% CAGR during the forecast period (2026-2032).

A High-Power DC Electric Arc Furnace (High-Power DC EAF) is a direct-current arc-melting steelmaking furnace engineered to operate with a high electrical input, converting large-scale DC power into intense arc energy for rapid melting and metallurgical refining. It typically integrates a high-capacity rectifier transformer, rectification (and associated power-electronics) equipment, DC buswork and protection systems, and fast-response electrode regulation with process practices such as oxygen and carbon injection and slag management to sustain high-throughput, tightly controlled operation. The main problems it addresses are maintaining arc stability under variable scrap/DRI/HBI feed conditions, achieving higher melting intensity and shorter cycle times without excessive process volatility, mitigating grid impact through engineered power-quality solutions, and preserving reliability of thermally stressed subsystems (refractory lining, roof and water-cooled components, and the bottom return path). Historically, DC EAF adoption and scaling toward higher power levels progressed in step with advances in high-power rectification, power semiconductor devices, digital control/protection, and refractory/conductive-hearth technologies; early deployments were constrained by rectifier robustness, harmonic/power-quality requirements, and bottom-circuit wear and maintenance economics, while modern systems benefit from improved power-electronics reliability, sophisticated control algorithms, better sensing, and more durable lining concepts. The upstream supply chain commonly spans structural steel and fabricated furnace components, refractory and lining systems (including conductive-bottom solutions), graphite electrodes and consumables; the electrical stack (rectifier transformer, rectifier/power modules, DC busbars and water-

cooled conductors, switchgear and protection, harmonic mitigation and reactive power compensation); automation and instrumentation (PLC/DCS, industrial software, sensors and temperature measurement, actuators and hydraulics); and off-gas and dust-collection equipment?together determining energy efficiency, operational stability, and lifecycle maintenance economics at high power operation. In 2025, the global production capacity of high-power DC electric arc furnaces reached 50 units, with total installed volume amounting to 24 units. The average selling price was approximately USD 3.46 million per unit, and manufacturers' gross margins generally ranged between 20% and 30%.

In today's market, high-power DC EAF adoption tends to be a structural choice made by leading steelmakers and sophisticated EAF operators, often tied to broader revamps, capacity replacement, and process-upgrade programs aimed at higher efficiency and repeatability. For many plants, moving to a high-power DC route is not a simple power-supply swap; it reshapes the entire operating envelope?power system integration, thermal and mechanical design margins, lining and conductive-hearth concepts, off-gas and dust handling, downstream refining synchronization, and automation and production discipline. As a result, procurement decisions are typically conservative and evidence-driven, placing heavy weight on proven engineering delivery, commissioning capability, and long-term operating references. On the supplier side, competition is increasingly ?solution-based?: differentiation often hinges on grid compliance and power-quality engineering (harmonics, flicker, reactive power, short-circuit strength matching), rectification and protection/control strategies, reliability of critical subsystems (bottom return path, water-cooled components, slag-line and roof refractories), and the strength of field service and maintenance support. Where grids are more constrained or feedstock variability is higher, the value of DC stability is easier to monetize; where AC EAF fleets are already optimized, adoption tends to require a clearer incremental case and tighter outage planning.

Looking ahead, the technology trajectory is likely to converge along three fronts. First, advances in power electronics and control will push ?high power? beyond brute-force input toward finer arc-shape regulation, energy distribution, and stability management, expanding operational tolerance to mixed feedstocks and varying operating practices while coordinating more tightly with continuous charging, preheating, injection, and slag control to smooth cycle-to-cycle variability. Second, digitalization will shift from visualization to optimization: data loops will be built around energy use, cycle time, alloy yield, lining life, and cooling-system risk, supported by soft sensing, model predictive control, and asset health management to reduce unplanned downtime and improve repeatable output across shifts and raw-material conditions. Third, deeper coupling with

evolving energy systems is expected: as renewables penetration rises and electricity markets become more dynamic, high-power DC EAFs are likely to be packaged with storage, flexible load strategies, on-site microgrids, and integrated power-quality solutions?moving vendor differentiation from single-furnace performance toward plant-level ?power + metallurgy? co-optimization.

Core demand drivers include decarbonization-led expansion of EAF steelmaking, tighter requirements for grid impact and compliance, and growing preference for automated, standardized operations amid labor and safety pressures; additionally, as feedstocks shift toward more complex blends of scrap and iron units, stable arc behavior and controllable heat input become more valuable. The principal barriers cluster around engineering complexity and execution capability: higher power intensifies thermal load and reliability demands, raising the design and maintenance bar for the bottom return path, lining systems, and water-cooled components?where weak links can amplify outage risk. Rectification and power-quality packages also require substantial system integration and site-specific grid adaptation, often extending front-end studies, civil/electrical modifications, and commissioning effort. Combined with path dependence in established process routes, supplier lock-in, and the cost of switching spares and maintenance ecosystems, market expansion becomes a competition in end-to-end system engineering?where advantages are realized only when technical design, delivery quality, and long-term operational support are simultaneously proven in the plant?s real operating context.

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

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

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

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

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

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

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

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

Global High-Power DC Electric Arc Furnace production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global High-Power DC Electric Arc Furnace production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global High-Power DC Electric Arc Furnace production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global High-Power 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 High-Power 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 High-Power DC Electric Arc Furnace Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global High-Power DC Electric Arc Furnace Market, Segmentation by Type:

70?100 t

100?150 t

>150 t

#### Global High-Power DC Electric Arc Furnace Market, Segmentation by Operating Type:

Left-hand Operation

Right-hand Operation

#### Global High-Power DC Electric Arc Furnace Market, Segmentation by Number of Electrode:

Single-Electrode Electric Arc Furnace

Dual-Electrode Electric Arc Furnace

#### Global High-Power 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 High-Power DC Electric Arc Furnace market?
2. What is the demand of the global High-Power DC Electric Arc Furnace market?
3. What is the year over year growth of the global High-Power DC Electric Arc Furnace market?
4. What is the production and production value of the global High-Power DC Electric Arc

Furnace market?

5. Who are the key producers in the global High-Power DC Electric Arc Furnace market?

6. What are the growth factors driving the market demand?

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