

# Global High-Power DC Electric Arc Furnace Market Growth 2026-2032

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## Abstracts

The global High-Power DC Electric Arc Furnace market size is predicted to grow from US\$ 81.27 million in 2025 to US\$ 142 million in 2032; it is expected to grow at a CAGR of 8.4% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the “High-Power DC Electric Arc Furnace Industry Forecast” looks at past sales and reviews total world High-Power DC Electric Arc Furnace sales in 2025, providing a comprehensive analysis by region and market sector of projected High-Power DC Electric Arc Furnace sales for 2026 through 2032. With High-Power 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 High-Power DC Electric Arc Furnace industry.

This Insight Report provides a comprehensive analysis of the global High-Power 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 High-Power 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 High-Power DC Electric Arc Furnace market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for High-Power 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 High-Power DC Electric Arc Furnace.

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

#### Segmentation by Type:

70–100 t

100–150 t

>150 t

#### Segmentation by Operating Type:

Left-hand Operation

Right-hand Operation

#### Segmentation by Number of Electrode:

Single-Electrode Electric Arc Furnace

Dual-Electrode Electric Arc Furnace

#### 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 High-Power DC Electric Arc Furnace market?

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

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

How do High-Power DC Electric Arc Furnace market opportunities vary by end market size?

How does High-Power DC Electric Arc Furnace break out by Type, by Application?

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