

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

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## Abstracts

The global Ultra-High Power Electric Arc Furnace market size is expected to reach \$ 269 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

In 2025, the global production volume of ultra-high-power electric arc furnaces is projected to reach 1,990 units, with an average selling price of \$85,000 per unit. The global annual production capacity for ultra-high-power electric arc furnaces stands at approximately 3,000 units, with a gross profit margin of approximately 28.5%. An ultra-high-power electric arc furnace is an energy-efficient device utilized for steelmaking, employing the principle of electric arc heating. Building upon the foundation of traditional electric arc furnaces, this technology achieves more efficient and rapid ironmaking or molten steel production by significantly increasing input power. The upstream segment of the ultra-high-power electric arc furnace industry encompasses inputs such as alloy raw materials, transformers, and water-cooling systems. The midstream segment consists of the manufacturers of these ultra-high-power electric arc furnaces, while the downstream segment primarily involves applications in industries such as metal smelting and ore processing.

The market for ultra-high-power electric arc furnaces is currently experiencing robust growth, driven by the global steel industry's steadfast commitment to low-carbon transition strategies. The primary catalyst for this trend lies in the technology's ability—compared to traditional blast furnaces—to utilize scrap steel as its primary feedstock, thereby significantly reducing carbon emissions; consequently, it has emerged as a pivotal pathway for steel enterprises worldwide to achieve their carbon neutrality objectives. Markets within the Asia-Pacific region, in particular, hold a dominant position—fueled by demands for infrastructure development and

industrialization—while regions such as Europe and North America are accelerating the retirement of obsolete production capacity and undertaking technological upgrades, bolstered by stringent environmental regulations and supportive policies. Looking ahead, the market is poised to evolve toward ultra-large capacities, heightened intelligence, and deep integration with green energy sources; technologically, this advancement will be driven by innovations in digitalization and power electronics, continuously enhancing both smelting efficiency and operational stability.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Ultra-High Power 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 Primetals Technologies, Danieli, SMS Group, TENOVA, Steel Plantech, Electrotherm, Sarralle, CVS Technologies, Xi'an Taoyuan Metallurgical Equipment Engineering, Xi'an Sanrui Electric Furnace, 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 Ultra-High Power 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 Ultra-High Power Electric Arc Furnace Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

AC

DC

Global Ultra-High Power Electric Arc Furnace Market, Segmentation by Capacity:

50-100 Tons

100-150 Tons

150 Tons and Above

Global Ultra-High Power Electric Arc Furnace Market, Segmentation by Power Supply Type:

Three-Phase

Single-Phase

Global Ultra-High Power Electric Arc Furnace Market, Segmentation by Application:

Metal Smelting

Ore Smelting

Others

Companies Profiled:

Primetals Technologies

Danieli

SMS Group

TENOVA

Steel Plantech

Electrotherm

Sarralle

CVS Technologies

Xi'an Taoyuan Metallurgical Equipment Engineering

Xi'an Sanrui Electric Furnace

XIYE

HUACHANG

RONTAI

GEILI MACHINERY

#### Key Questions Answered:

1. How big is the global Ultra-High Power Electric Arc Furnace market?
2. What is the demand of the global Ultra-High Power Electric Arc Furnace market?
3. What is the year over year growth of the global Ultra-High Power Electric Arc Furnace market?
4. What is the production and production value of the global Ultra-High Power Electric Arc Furnace market?
5. Who are the key producers in the global Ultra-High Power Electric Arc Furnace market?
6. What are the growth factors driving the market demand?

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