

Global Arc Melting Furnace Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Arc Melting Furnace market size is expected to reach \$ 1239 million by 2032, rising at a market growth of 3.6% CAGR during the forecast period (2026-2032).

Arc melting furnaces are metallurgical systems that utilize the high-temperature arc generated between an electrode and the furnace charge as a heat source to melt, refine, remelt, and homogenize metals, alloys, specialty materials, scrap steel, or research samples. Based on aggregate estimates covering laboratory arc melting furnaces, vacuum arc remelting (VAR) furnaces, plasma arc melting furnaces, and industrial arc furnaces, global sales volume in 2025 is projected to be approximately 10,400 units, with an average unit price of around \$90,800 and a capacity utilization rate of approximately 76%. Upstream suppliers operate in sectors such as high-power transformers, electrode materials, furnace steel structures, water-cooled copper components, vacuum systems, hydraulic systems, automation controls, power modules, refractory materials, and dust removal/environmental protection equipment.

Downstream applications span steelmaking, specialty alloys, titanium alloys, nickel-based alloys, aerospace materials, research institutes, metal materials laboratories, recycled metals, and high-end equipment manufacturing; the industry's average gross profit margin ranges from approximately 22% to 38%. The product cost structure is broken down as follows: power supply and transformer systems (approx. 24%), furnace steel structures and water-cooling systems (approx. 18%), electrode clamping and drive mechanisms (approx. 12%), vacuum and atmosphere control systems (approx. 11%), automation control and detection systems (approx. 10%), refractory materials and furnace linings (approx. 8%), assembly, commissioning, and installation (approx. 9%), packaging, logistics, and after-sales service (approx. 5%), and R&D and management expenses (approx. 3%). Regarding demand, downstream requirements include electric arc furnace (EAF) steelmaking using scrap, specialty alloy melting, vacuum remelting

and purification, laboratory alloy preparation, metal materials R&D, titanium alloy remelting, superalloy production, and upgrades to low-carbon metallurgical equipment; the customer base comprises steel enterprises, specialty steel plants, titanium alloy companies, aerospace material firms, research institutes, university laboratories, metal powder manufacturers, metallurgical engineering companies, and recycled metal processing enterprises. In terms of business opportunities, policy drivers stem from low-carbon metallurgy, scrap steel recycling, green steelmaking upgrades, and the localization of high-end materials; technological innovation is driven by advancements such as high-efficiency electric arc control, intelligent power distribution, vacuum metallurgy, plasma arc melting, automated feeding, and energy-efficient dust removal system upgrades; meanwhile, evolving customer demands are reflected in the increased emphasis placed by end-manufacturing enterprises on material purity, energy consumption control, product consistency, environmental compliance, and equipment full-lifecycle maintenance capabilities.

The arc melting furnace industry is undergoing a structural upgrade driven by the convergence of green metallurgy, high-end alloy manufacturing, and laboratory-scale materials R&D. Core demand stems not only from new equipment for traditional steel production lines but also from the retrofitting of existing high-energy-consuming metallurgical equipment, scrap steel recycling, the production of high-purity special alloys, and small-batch material testing for research purposes. In 2024, electric arc furnace (EAF) steelmaking accounted for 29.1% of global production?with total crude steel output reaching approximately 1.885 billion tonnes?underscoring the growing importance of the electric furnace route within a low-carbon steel ecosystem. Meanwhile, as the steel industry remains a major source of global carbon emissions, the shift toward electric furnaces, scrap recycling, and integration with green power will continue to drive equipment upgrades. Regarding the competitive landscape, industrial-grade EAFs prioritize high-power power supplies, dust collection and environmental compliance, automated charging, energy consumption control, and turnkey engineering capabilities; vacuum arc remelting (VAR) furnaces emphasize vacuum sealing, melt pool stability, compositional uniformity, and experience with high-end material certification; and laboratory-scale arc melting furnaces focus on flexibility for small batches, operational safety, and reach into research sectors. Industry differentiation will become more pronounced: large-scale steel projects will favor integrated line solutions and low-carbon retrofitting, while small-scale research and specialty material projects will prioritize high-precision, customizable, and multifunctional equipment. Enterprises possessing capabilities in power control, furnace design, vacuum systems, automation software, environmental protection integration, and engineering delivery will be better positioned to secure high-value orders, whereas those offering only standard furnace

bodies or low-end assembled equipment will face intense price competition and certification pressures. Overall, the arc melting furnace industry will continue to evolve toward low energy consumption, high automation, modularity, intelligent monitoring, high-purity melting, and green metallurgical practices.

This report studies the global Arc Melting Furnace production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Arc Melting Furnace total production and demand, 2021-2032, (Units)

Global Arc Melting Furnace total production value, 2021-2032, (USD Million)

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

Global Arc Melting Furnace consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Arc Melting Furnace domestic production, consumption, key domestic manufacturers and share

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

Global Arc Melting Furnace production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Arc Melting Furnace production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Arc Melting 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 Consarc Corporation, Inductotherm Group (US), ALD Vacuum Technologies GmbH (DE), Electrotherm India Ltd. (IN), Edmund Böhler GmbH (DE), Materials Research Furnaces LLC, MRF (US), Arcast Inc. (US), Hind High Vacuum Thermal Technologies Pvt. Ltd., HHV (IN), SECO/WARWICK S.A. (PL), Retech Systems LLC (US), Thermal Technology LLC (US), 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 Arc Melting Furnace market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K 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 Arc Melting Furnace Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Arc Melting Furnace Market, Segmentation by Type:

Non-consumable Melting Furnace

Consumable Melting Furnace

Global Arc Melting Furnace Market, Segmentation by Charge Capacity:

≤5kg

5-100 kg

100 kg-1 t

≥1 t

Global Arc Melting Furnace Market, Segmentation by Operating Atmosphere:

Plasma Arc Type

Vacuum Arc Type

Inert Gas Protected Type

Atmospheric Electric Arc Type

Global Arc Melting Furnace Market, Segmentation by Application:

Steelmaking and Metallurgy

Special Alloy Manufacturing

Aerospace Materials

Research Institutes and University Laboratories

Other

Companies Profiled:

Consarc Corporation, Inductotherm Group (US)

ALD Vacuum Technologies GmbH (DE)

Electrotherm India Ltd. (IN)

Edmund Böhler GmbH (DE)

Materials Research Furnaces LLC, MRF (US)

Arcast Inc. (US)

Hind High Vacuum Thermal Technologies Pvt. Ltd., HHV (IN)

SECO/WARWICK S.A. (PL)

Retech Systems LLC (US)

Thermal Technology LLC (US)

Centorr Vacuum Industries (US)

Across International LLC (US)

Shenyang Kejing Auto-instrument Co., Ltd. (CN)

Danieli & C. Officine Meccaniche S.p.A. (IT)

SMS group GmbH (DE)

Primetals Technologies Ltd. (GB)

Tenova S.p.A. (IT)

AMAZEMET Sp. z o.o. (PL)

Wuxi Dongxiong Heavy Electric Furnace Co., Ltd. (CN)

Yixing Yuyou Metallurgical Equipment Co., Ltd. (CN)

Xi'an Pengyuan Metallurgical Equipment Co., Ltd. (CN)

Xi'an Taoyuan Metallurgical Equipment Engineering Co., Ltd. (CN)

Xi'an Zhebang Electric Furnace Co., Ltd. (CN)

Xiye Technology Group Co., Ltd. (CN)

Key Questions Answered:

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

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