

# Global Power Supply for Arc Melting System Market Growth 2026-2032

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## Abstracts

The global Power Supply for Arc Melting System market size is predicted to grow from US\$ 8.80 million in 2025 to US\$ 12.41 million in 2032; it is expected to grow at a CAGR of 5.0% from 2026 to 2032.

In 2025, global Power Supply for Arc Melting System production reached approximately 600 units with an average price of USD \$15,000 per unit. This product is a dedicated high-current DC electrical subsystem used to ignite, stabilize and regulate the arc energy in vacuum or inert-atmosphere arc melting equipment. It occupies the power-control layer of manual arc melters, automatic arc melting systems, suction casting systems and glovebox-compatible metallurgical platforms. Unlike generic welding power supplies or industrial arc furnace transformers, it must support unstable arc-load conditions, rapid current adjustment, equipment interlocks, water-cooled cable interfaces and safe operation inside a sealed melting process. Typical commercial forms include embedded OEM modules, replacement units, retrofit packages and cabinet power subsystems. Its market value is tied to new arc-melter installations and the replacement or upgrading of installed laboratory and pilot systems.

Power Supplies for Arc Melting Systems should be treated as a narrow metallurgical equipment subsystem rather than as a broad industrial power-electronics market. The defining boundary is not simply high-current DC output, but proven suitability for vacuum or inert-gas arc melting, arc ignition, current stabilization, rapidly changing arc impedance, equipment interlocks and integration with water-cooled electrode circuits. This distinction excludes general welding machines, plasma cutting supplies and large electric arc furnace transformers, even when they share some electrical characteristics.

2) Demand expectations are linked to the installed base and new sales of laboratory and pilot arc melting systems. The main purchasing routes are embedded supply with a

new furnace, factory replacement for aging units, retrofit to add higher current or digital control, and occasional customization for automatic or glovebox-integrated systems. Because the subsystem is usually hidden inside the complete furnace bill of materials, the visible market is smaller than the functional installed base. Growth should remain moderate, supported by alloy discovery, high-entropy alloy research, additive manufacturing feedstock development and reactive-metal processing, but constrained by long equipment life and the limited number of new arc melting systems installed each year. 3) The current supplier structure is dominated by arc melter manufacturers and specialist vacuum-furnace builders rather than independent merchant power-supply brands. Some companies disclose dedicated replacement power supplies as identifiable SKUs, while others disclose current rating only within complete furnace specifications. This creates two commercial layers: a strict standalone and replacement layer with clearer product identity, and a larger embedded OEM layer where the power supply is sold as part of the furnace. For market research, the embedded layer should be counted only when the power subsystem is technically identifiable and tied to a qualifying arc melting system. 4) Growth factors are mainly technical rather than volume-led. Higher current ratings support larger alloy buttons, suction casting and pilot-scale sample preparation. Digital control supports repeatable arc recipes, safer automatic operation and better integration with programmable arc melting platforms. Replacement demand is also driven by aging analog power units, certification requirements, serviceability and the need for stable current control under difficult arc conditions. At the same time, the product faces substitution risk from generic industrial power supplies in low-end systems and from alternative melting routes such as induction melting, levitation melting and vacuum arc remelting in adjacent applications. 5) The market position of this product is best framed as a reliability and control component. It is rarely the headline equipment purchase, but it directly affects arc stability, sample quality, operator safety and uptime. Future differentiation will likely come from compact high-current IGBT architectures, programmable current profiles, better fault diagnostics, safety-interlock integration, remote serviceability and compatibility with automatic multi-station arc melting systems.]

LP Information, Inc. (LPI) ' newest research report, the "Power Supply for Arc Melting System Industry Forecast" looks at past sales and reviews total world Power Supply for Arc Melting System sales in 2025, providing a comprehensive analysis by region and market sector of projected Power Supply for Arc Melting System sales for 2026 through 2032. With Power Supply for Arc Melting System sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Power Supply for Arc Melting System industry.

This Insight Report provides a comprehensive analysis of the global Power Supply for Arc Melting System 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 Power Supply for Arc Melting System portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Power Supply for Arc Melting System market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Power Supply for Arc Melting System and breaks down the forecast by Output Current, 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 Power Supply for Arc Melting System.

This report presents a comprehensive overview, market shares, and growth opportunities of Power Supply for Arc Melting System market by product type, application, key manufacturers and key regions and countries.

## **Segmentation by Output Current:**

Up to 200 A

Above 200 to 400 A

Above 400 to 700 A

Above 700 A

## **Segmentation by Control Architecture:**

Constant Current Control

Pulsed Arc Control

Programmable Recipe Control

Microprocessor Control

Others

## **Segmentation by Integration Form:**

Embedded OEM Module

Replacement Power Unit

Retrofit Power Package

Cabinet Power Subsystem

Others

## **Segmentation by Application:**

Arc Melters

Vacuum Suction Casting Systems

Glovebox Arc Melting Platforms

Pilot Metallurgical Furnaces

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.

MTI Corporation

Materials Research Furnaces, LLC

Thermal Technology LLC

Shenyang Kejing Auto-instrument Co., Ltd.

Centorr Vacuum Industries

Diavac Limited

Zhengzhou CY Scientific Instrument Co., Ltd.

Kakoki Co., Ltd. (Nippon Tokushu Kikai Co., Ltd.)

Nissin Giken Co., Ltd.

Edmund Buhler GmbH

## **Key Questions Addressed in this Report**

What is the 10-year outlook for the global Power Supply for Arc Melting System market?

What factors are driving Power Supply for Arc Melting System market growth,

globally and by region?

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

How do Power Supply for Arc Melting System market opportunities vary by end market size?

How does Power Supply for Arc Melting System break out by Output Current, by Application?

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