

Global Medium Frequency Induction Furnace Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G69E07626CD9EN.html>

Date: September 2026

Pages: 135

Price: US\$ 4,480.00 (Single User License)

ID: G69E07626CD9EN

Abstracts

The global Medium Frequency Induction Furnace market size is expected to reach \$ 697 million by 2032, rising at a market growth of 4.1% CAGR during the forecast period (2026-2032).

A medium frequency induction furnace is an industrial electric furnace that utilizes medium-frequency alternating current to generate electromagnetic induction; this induces eddy currents within the metal charge, causing it to heat up and enabling processes such as melting, temperature elevation, holding, and compositional adjustment. The equipment typically comprises a medium-frequency power supply, induction coil, furnace body, refractory lining, cooling system, and control system; it is characterized by rapid heating, precise temperature control, uniform molten metal composition, and the absence of direct combustion pollution.

Upstream components primarily include oxygen-free copper tubing, carbon steel plates, stainless steel, refractory materials, electrical steel, insulation materials, and power semiconductor devices. Oxygen-free copper tubing is used for induction coils and water-cooled cables; steel is used for the furnace shell, frame, and tilting mechanism; and refractory materials—such as silica, alumina, or magnesia—are used for the furnace lining. The medium-frequency power supply also requires thyristors or IGBT modules, transformers, and capacitors; the performance of these upstream materials directly impacts equipment efficiency, lining lifespan, and operational safety. Midstream enterprises handle the integration of power supply, furnace body, cooling, hydraulic, dust removal, and control systems. Downstream markets primarily consist of manufacturers producing cast iron, cast steel, stainless steel, and non-ferrous metals, utilizing the equipment for melting charges, adjusting alloys, holding temperatures, and pouring.

Global volume is approximately 4,300 units as of 2025. Prices vary significantly based on furnace capacity, power output, and automation configuration: small units typically cost around \$8,000–\$40,000 per set, medium units range from \$40,000 to \$140,000, and large units command higher prices. Major manufacturers typically achieve gross profit margins of approximately 20%–28%.

The development of the medium frequency induction furnace industry is primarily driven by the electrification of foundries, increased utilization of scrap steel and revert materials, the replacement of traditional fuel-fired furnaces, and rising standards for casting quality control. These furnaces offer rapid heating and flexible start-stop capabilities, allowing for precise control over the temperature and composition of molten metal; they are particularly well-suited for production involving diverse product varieties, small batch sizes, and frequent alloy grade changes, thereby maintaining steady demand in sectors such as cast iron, cast steel, non-ferrous metal smelting, and metal recycling. Key challenges facing the industry include high initial investment costs, sensitivity of operating expenses to industrial electricity prices, and critical safety considerations regarding furnace lining lifespan, water cooling systems, harmonic mitigation, and furnace leakage monitoring. Meanwhile, the market is characterized by significant technological homogeneity among low-to-mid-range products and intense price competition. Looking ahead, the industry is poised to evolve toward larger capacities, higher power densities, lower specific energy consumption, and greater intelligence.

Report Scope

This report studies the global Medium Frequency Induction Furnace production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Medium Frequency Induction Furnace total production and demand, 2021-2032, (Units)

Global Medium Frequency Induction Furnace total production value, 2021-2032, (USD Million)

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

Global Medium Frequency Induction Furnace consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Medium Frequency Induction Furnace domestic production, consumption, key domestic manufacturers and share

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

Global Medium Frequency Induction Furnace production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Medium Frequency Induction Furnace production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Medium Frequency Induction 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 Inductotherm Group, ABP Induction, OTTO JUNKER, Ajax TOCCO Magnethermic, Fuji Electric, FOMET, Electrotherm, Megatherm, EGES, Shandong Rongtai Induction Technology, 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 Medium Frequency Induction 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 Medium Frequency Induction Furnace Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Medium Frequency Induction Furnace Market, Segmentation by Type:

Small (<1 Ton)

Medium (1–10 Tons)

Large (>10 Tons)

Global Medium Frequency Induction Furnace Market, Segmentation by Furnace Body Structure:

Aluminum Shell

Steel Shell

Global Medium Frequency Induction Furnace Market, Segmentation by Rated Power:

Low Power (<1 MW)

Medium Power (1–5 MW)

High Power (>5 MW)

Global Medium Frequency Induction Furnace Market, Segmentation by Application:

Cast Iron

Steel and Stainless Steel

Aluminum and Aluminum Alloys

Copper and Copper Alloys

Other

Companies Profiled:

Inductotherm Group

ABP Induction

OTTO JUNKER

Ajax TOCCO Magnethermic

Fuji Electric

FOMET

Electrotherm

Megatherm

EGES

Shandong Rongtai Induction Technology

Shandong Huaxin Electric Furnace

Xi'an Electromechanical Research Institute

Shanghai Xinyan Industrial Equipment

Ningbo Shenguang Electric Furnace

Guangdong Hengyang Electric Furnace Manufacturing

Key Questions Answered:

1. How big is the global Medium Frequency Induction Furnace market?
2. What is the demand of the global Medium Frequency Induction Furnace market?
3. What is the year over year growth of the global Medium Frequency Induction Furnace market?
4. What is the production and production value of the global Medium Frequency Induction Furnace market?

5. Who are the key producers in the global Medium Frequency Induction Furnace market?
6. What are the growth factors driving the market demand?

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