

Global Vacuum Induction Melting Furnace (VIM) Market Growth 2025-2031

<https://marketpublishers.com/r/GA33E2DCBAB4EN.html>

Date: March 2025

Pages: 118

Price: US\$ 3,660.00 (Single User License)

ID: GA33E2DCBAB4EN

Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

The global Vacuum Induction Melting Furnace (VIM) market size is predicted to grow from US\$ 118 million in 2025 to US\$ 142 million in 2031; it is expected to grow at a CAGR of 3.1% from 2025 to 2031.

Vacuum induction melting (VIM) utilizes electric currents to melt metal within a vacuum. The first prototype was developed in 1920. Induction heating induces eddy currents within conductors. Eddy currents create heating effects to melt the metal. Vacuum induction melting has been used in both the aerospace and nuclear industries.

The Vacuum Induction Melting Furnace (VIM) market is a critical segment within the metal and materials processing industry. Vacuum Induction Melting (VIM) is a process where metals, particularly high-performance alloys, are melted in a vacuum or inert atmosphere, offering precise control over the melting process. VIM is commonly used in the production of specialty metals, alloys, and materials that require strict control of chemical composition and low levels of impurities. VIM is used to produce high-performance alloys, such as titanium, superalloys, and other specialty metals. These alloys are essential in industries such as aerospace, automotive, medical, and energy, where performance under extreme conditions is critical. The aerospace sector is a significant consumer of VIM technology, as high-quality, high-strength alloys are needed for critical parts like turbine blades, engine components, and structural materials. Growth in the aerospace industry, including both commercial and defense sectors, directly contributes to the demand for VIM furnaces. Continuous advancements in VIM furnace technology, including improvements in vacuum systems, induction heating, and automation, have made VIM furnaces more efficient, accurate, and cost-effective. This

has expanded their application to a broader range of industries. Industries such as medical devices, automotive, and energy generation require metals and alloys with precise compositions and purity levels, which VIM furnaces can provide. This has led to increasing demand for VIM technology. With the growth of electric vehicles, demand for high-performance alloys used in batteries, motors, and other components has increased. VIM furnaces are capable of producing these high-performance materials, thereby boosting market growth.

LP Information, Inc. (LPI) ' newest research report, the “Vacuum Induction Melting Furnace (VIM) Industry Forecast” looks at past sales and reviews total world Vacuum Induction Melting Furnace (VIM) sales in 2024, providing a comprehensive analysis by region and market sector of projected Vacuum Induction Melting Furnace (VIM) sales for 2025 through 2031. With Vacuum Induction Melting Furnace (VIM) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Vacuum Induction Melting Furnace (VIM) industry.

This Insight Report provides a comprehensive analysis of the global Vacuum Induction Melting Furnace (VIM) 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 Vacuum Induction Melting Furnace (VIM) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Vacuum Induction Melting Furnace (VIM) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Vacuum Induction Melting Furnace (VIM) and breaks down the forecast by Size, 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 Vacuum Induction Melting Furnace (VIM).

This report presents a comprehensive overview, market shares, and growth opportunities of Vacuum Induction Melting Furnace (VIM) market by product type, application, key manufacturers and key regions and countries.

Segmentation by Size:

Below 100 Kg

100Kg - 500Kg

Above 500Kg

Segmentation by Application:

Aerospace

Military

Electronics

Power Engineering

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.

ALD Vacuum Technologies

ULVAC

ECM

Secowarwick

OTTO Junker GmbH

PVA IVS GmbH

Inductotherm Group (Consarc?

HHV

Therelek

Shanghai Xinlanhai Automation Technology

Hengjin

SIMUWU

Topcast

Ecco High Frequency

Shanghai XinYan Industrial Equipment

Key Questions Addressed in this Report

What is the 10-year outlook for the global Vacuum Induction Melting Furnace (VIM) market?

What factors are driving Vacuum Induction Melting Furnace (VIM) market growth, globally and by region?

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

How do Vacuum Induction Melting Furnace (VIM) market opportunities vary by end

market size?

How does Vacuum Induction Melting Furnace (VIM) break out by Size, by Application?

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