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Global Vacuum Inert Gas Atomization (VIGA) Processing Technology Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Vacuum Inert Gas Atomization (VIGA) Processing Technology market size will reach 106.05 Million USD in 2025 and is projected to reach 253.38 Million USD by 2032, with a CAGR of 13.25% (2025-2032). Notably, the China Vacuum Inert Gas Atomization (VIGA) Processing Technology market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

Vacuum Inert Gas Atomization (VIGA) processing technology is a method used in the production of metal powders, particularly for advanced materials and applications in industries such as aerospace, automotive, and medical devices. In VIGA, a high-pressure inert gas, such as argon, is introduced into a vacuum chamber along with molten metal. The molten metal is then atomized into fine droplets using a nozzle or rotating disk, and the inert gas rapidly solidifies these droplets into metal powders as they travel through the chamber. This process results in spherical-shaped metal powders with controlled particle sizes and high purity. VIGA technology offers several advantages over traditional powder production methods, including improved particle morphology, reduced contamination, and better control over composition and microstructure. These metal powders produced through VIGA are often used in additive manufacturing (3D printing), powder metallurgy, and surface coating applications, where precise material properties and performance are critical.

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The major global suppliers of Vacuum Inert Gas Atomization (VIGA) Processing Technology include ALD Vacuum Technologies, Hoganas, EasyFashion Industry, EIGA (Electrode Induction Melting Inert Gas Atomization), Tekna, Praxair, Heraeus, Consarc, Oerlikon, Satrindtech, SMS Group, VDM Metals, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Vacuum Inert Gas Atomization (VIGA) Processing Technology. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major suppliers, as well as the market status and trends of different product types and applications in the global Vacuum Inert Gas Atomization (VIGA) Processing Technology market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Vacuum Inert Gas Atomization (VIGA) Processing Technology market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Vacuum Inert Gas Atomization (VIGA) Processing Technology industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

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Global Key Suppliers of Vacuum Inert Gas Atomization (VIGA) Processing Technology Include:

ALD Vacuum Technologies

Hoganas

EasyFashion Industry

EIGA (Electrode Induction Melting Inert Gas Atomization)

Tekna

Praxair

Heraeus

Consarc

Oerlikon

Satrindtech

SMS Group

VDM Metals

Vacuum Inert Gas Atomization (VIGA) Processing Technology Product Segment Include:

Dynamic VIGA

Static VIGA

Vacuum Inert Gas Atomization (VIGA) Processing Technology Product Application Include:

Industrial Manufacturing

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Chemical Manufacturing

Metal Processing

Others

Chapter Scope

Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

Chapter 2: Global Vacuum Inert Gas Atomization (VIGA) Processing Technology Industry PESTEL Analysis

Chapter 3: Global Vacuum Inert Gas Atomization (VIGA) Processing Technology Industry Porter’s Five Forces Analysis

Chapter 4: Global Vacuum Inert Gas Atomization (VIGA) Processing Technology Major Regional Market Size and Forecast Analysis

Chapter 5: Global Vacuum Inert Gas Atomization (VIGA) Processing Technology Market Size and Forecast by Type and Application Analysis

Chapter 6: North America Passenger Vacuum Inert Gas Atomization (VIGA) Processing Technology Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 7: Europe Vacuum Inert Gas Atomization (VIGA) Processing Technology Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 8: China Vacuum Inert Gas Atomization (VIGA) Processing Technology Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

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