

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

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## Abstracts

The global Vertical Melting Furnace market size is expected to reach \$ 2890 million by 2032, rising at a market growth of 4.9% CAGR during the forecast period (2026-2032). In 2025, global Vertical Melting Furnace production reached approximately 6,582 .The price range is from \$50,000 to \$1 million.Vertical Melting Furnace is an industrial metal smelting equipment with a vertical furnace structure, mainly used for the continuous or semi-continuous melting of aluminum and other non-ferrous metals. Its core feature is that the feeding, preheating, and melting processes are completed in a vertical direction. By utilizing the counter-current heat exchange mechanism of downward material flow and upward high-temperature flue gas flow, thermal efficiency is significantly improved and metal loss is reduced.

### Gross Profit Margin Level

Vertical smelting furnaces are typical 'heavy engineering' industrial equipment. Gross profit margin is determined by the degree of standardization, project delivery scope, energy efficiency and environmental protection configurations, and the proportion of digital/service contracts. In the industry, standard models with limited optional features typically have a gross profit margin of 18%?28%. When projects enter the engineering delivery stage, including customized furnace structure, automatic feeding closed-loop, melt quality control (temperature/level/degassing), and emission control (dust removal, flue gas treatment), the gross profit margin is more commonly between 25%?35%. If further upgraded to a 'turnkey smelting center/complete line' (including solution design, installation and commissioning, energy consumption KPI commitments, digital operation and maintenance, and spare parts services), and if customers are willing to pay for results such as metal yield, energy consumption (kWh/t or gas consumption), and downtime rate, the overall gross profit margin can reach 35%?45%+, exhibiting a structural increase of 'one-time equipment revenue + repurchase of operation and maintenance services/spare parts.'

## Industry Drivers

The core driver of vertical smelting furnaces lies in the quantifiable optimization of two major cost components: energy consumption and metal loss. Vertical shaft/tower structures utilize counter-current flue gas preheating, with upstream raw materials undergoing preheating and partial heat exchange during the sinking process, significantly improving unit energy consumption and oxidation loss. Industry data shows that the unit energy consumption of vertical smelting furnaces is often discussed in the range of 580-900 kWh/t under different schemes; leading manufacturers can reduce continuous operation energy consumption to even lower levels through structural and combustion control. Simultaneously, leading solutions emphasize 'high metal yield/low loss': for example, vertical smelting furnaces are used to pursue near-100% metal yield, or achieve yields close to 99.75% under actual operating conditions. Coupled with external factors: the increasing proportion of recycled aluminum, the growing demand for melt due to automotive lightweighting and integrated die casting, and increasingly stringent constraints on industrial emissions and energy efficiency in various regions, all will continue to drive the replacement and incremental investment 'from multiple inefficient small furnaces to centralized, high-efficiency vertical smelting systems.' This report studies the global Vertical Melting Furnace production, demand, key manufacturers, and key regions.

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

### **Highlights and key features of the study**

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

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

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

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

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

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

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

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

This report profiles key players in the global Vertical 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 StrikoWestofen, Hertwich Engineering, Sanken Sangyo, Tenova, OTTO JUNKER, Schaefer Group, Continuus-Properzi, Fives, Silcarb, Dynamo Furnaces, 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 Vertical Melting Furnace market

**Detailed Segmentation:**

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Vertical Melting Furnace Market, Segmentation by Type:

Manual Control Type

Semi-Automatic Control Type

Fully Intelligent Control System Type

Global Vertical Melting Furnace Market, Segmentation by Heat Source Type:

Coal-Fired Vertical Shaft Furnace

Gas-Fired Vertical Shaft Furnace

Electric Heating Vertical Shaft Furnace

Global Vertical Melting Furnace Market, Segmentation by Furnace Body Structure:

Single-Hearth Vertical Furnace

Double-Hearth Vertical Furnace

Multi-Stage Vertical Furnace

Global Vertical Melting Furnace Market, Segmentation by Application:

Metallurgical Industry

Semiconductor and Electronics Industry

Photovoltaic Industry

Others

### **Companies Profiled:**

StrikoWestofen

Hertwich Engineering

Sanken Sangyo

Tenova

OTTO JUNKER

Schaefer Group

Continuus-Properti

Fives

Silcarb

Dynamo Furnaces

Nabertherm

STOTEK

Krown

Furnace Engineering

ATM Atilim Teknik

### **Key Questions Answered:**

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

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Vertical Melting Furnace Introduction
- 1.2 World Vertical Melting Furnace Supply & Forecast
  - 1.2.1 World Vertical Melting Furnace Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Vertical Melting Furnace Production (2021-2032)
  - 1.2.3 World Vertical Melting Furnace Pricing Trends (2021-2032)
- 1.3 World Vertical Melting Furnace Production by Region (Based on Production Site)
  - 1.3.1 World Vertical Melting Furnace Production Value by Region (2021-2032)
  - 1.3.2 World Vertical Melting Furnace Production by Region (2021-2032)
  - 1.3.3 World Vertical Melting Furnace Average Price by Region (2021-2032)
  - 1.3.4 North America Vertical Melting Furnace Production (2021-2032)
  - 1.3.5 Europe Vertical Melting Furnace Production (2021-2032)
  - 1.3.6 China Vertical Melting Furnace Production (2021-2032)
  - 1.3.7 Japan Vertical Melting Furnace Production (2021-2032)
  - 1.3.8 South Asia Vertical Melting Furnace Production (2021-2032)
  - 1.3.9 India Vertical Melting Furnace Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Vertical Melting Furnace Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Vertical Melting Furnace Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Vertical Melting Furnace Demand (2021-2032)
- 2.2 World Vertical Melting Furnace Consumption by Region
  - 2.2.1 World Vertical Melting Furnace Consumption by Region (2021-2026)
  - 2.2.2 World Vertical Melting Furnace Consumption Forecast by Region (2027-2032)
- 2.3 United States Vertical Melting Furnace Consumption (2021-2032)
- 2.4 China Vertical Melting Furnace Consumption (2021-2032)
- 2.5 Europe Vertical Melting Furnace Consumption (2021-2032)
- 2.6 Japan Vertical Melting Furnace Consumption (2021-2032)
- 2.7 South Korea Vertical Melting Furnace Consumption (2021-2032)
- 2.8 ASEAN Vertical Melting Furnace Consumption (2021-2032)
- 2.9 India Vertical Melting Furnace Consumption (2021-2032)

### 3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Vertical Melting Furnace Production Value by Manufacturer (2021-2026)
- 3.2 World Vertical Melting Furnace Production by Manufacturer (2021-2026)
- 3.3 World Vertical Melting Furnace Average Price by Manufacturer (2021-2026)
- 3.4 Vertical Melting Furnace Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global Vertical Melting Furnace Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for Vertical Melting Furnace in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for Vertical Melting Furnace in 2025
- 3.6 Vertical Melting Furnace Market: Overall Company Footprint Analysis
  - 3.6.1 Vertical Melting Furnace Market: Region Footprint
  - 3.6.2 Vertical Melting Furnace Market: Company Product Type Footprint
  - 3.6.3 Vertical Melting Furnace Market: Company Product Application Footprint
- 3.7 Competitive Environment
  - 3.7.1 Historical Structure of the Industry
  - 3.7.2 Barriers of Market Entry
  - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

## **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

- 4.1 United States VS China: Vertical Melting Furnace Production Value Comparison
  - 4.1.1 United States VS China: Vertical Melting Furnace Production Value Comparison (2021 & 2025 & 2032)
  - 4.1.2 United States VS China: Vertical Melting Furnace Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Vertical Melting Furnace Production Comparison
  - 4.2.1 United States VS China: Vertical Melting Furnace Production Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: Vertical Melting Furnace Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Vertical Melting Furnace Consumption Comparison
  - 4.3.1 United States VS China: Vertical Melting Furnace Consumption Comparison (2021 & 2025 & 2032)
  - 4.3.2 United States VS China: Vertical Melting Furnace Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Vertical Melting Furnace Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Vertical Melting Furnace Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Vertical Melting Furnace Production Value (2021-2026)

4.4.3 United States Based Manufacturers Vertical Melting Furnace Production (2021-2026)

4.5 China Based Vertical Melting Furnace Manufacturers and Market Share

4.5.1 China Based Vertical Melting Furnace Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Vertical Melting Furnace Production Value (2021-2026)

4.5.3 China Based Manufacturers Vertical Melting Furnace Production (2021-2026)

4.6 Rest of World Based Vertical Melting Furnace Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Vertical Melting Furnace Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Vertical Melting Furnace Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Vertical Melting Furnace Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World Vertical Melting Furnace Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Manual Control Type

5.2.2 Semi-Automatic Control Type

5.2.3 Fully Intelligent Control System Type

5.3 Market Segment by Type

5.3.1 World Vertical Melting Furnace Production by Type (2021-2032)

5.3.2 World Vertical Melting Furnace Production Value by Type (2021-2032)

5.3.3 World Vertical Melting Furnace Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY HEAT SOURCE TYPE**

6.1 World Vertical Melting Furnace Market Size Overview by Heat Source Type: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Heat Source Type

- 6.2.1 Coal-Fired Vertical Shaft Furnace
- 6.2.2 Gas-Fired Vertical Shaft Furnace
- 6.2.3 Electric Heating Vertical Shaft Furnace
- 6.3 Market Segment by Heat Source Type
  - 6.3.1 World Vertical Melting Furnace Production by Heat Source Type (2021-2032)
  - 6.3.2 World Vertical Melting Furnace Production Value by Heat Source Type (2021-2032)
  - 6.3.3 World Vertical Melting Furnace Average Price by Heat Source Type (2021-2032)

## **7 MARKET ANALYSIS BY FURNACE BODY STRUCTURE**

- 7.1 World Vertical Melting Furnace Market Size Overview by Furnace Body Structure: 2021 VS 2025 VS 2032
- 7.2 Segment Introduction by Furnace Body Structure
  - 7.2.1 Single-Hearth Vertical Furnace
  - 7.2.2 Double-Hearth Vertical Furnace
  - 7.2.3 Multi-Stage Vertical Furnace
- 7.3 Market Segment by Furnace Body Structure
  - 7.3.1 World Vertical Melting Furnace Production by Furnace Body Structure (2021-2032)
  - 7.3.2 World Vertical Melting Furnace Production Value by Furnace Body Structure (2021-2032)
  - 7.3.3 World Vertical Melting Furnace Average Price by Furnace Body Structure (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

- 8.1 World Vertical Melting Furnace Market Size Overview by Application: 2021 VS 2025 VS 2032
- 8.2 Segment Introduction by Application
  - 8.2.1 Metallurgical Industry
  - 8.2.2 Semiconductor and Electronics Industry
  - 8.2.3 Photovoltaic Industry
  - 8.2.4 Others
- 8.3 Market Segment by Application
  - 8.3.1 World Vertical Melting Furnace Production by Application (2021-2032)
  - 8.3.2 World Vertical Melting Furnace Production Value by Application (2021-2032)
  - 8.3.3 World Vertical Melting Furnace Average Price by Application (2021-2032)

## 9 COMPANY PROFILES

### 9.1 StrikoWestofen

9.1.1 StrikoWestofen Details

9.1.2 StrikoWestofen Major Business

9.1.3 StrikoWestofen Vertical Melting Furnace Product and Services

9.1.4 StrikoWestofen Vertical Melting Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 StrikoWestofen Recent Developments/Updates

9.1.6 StrikoWestofen Competitive Strengths & Weaknesses

### 9.2 Hertwich Engineering

9.2.1 Hertwich Engineering Details

9.2.2 Hertwich Engineering Major Business

9.2.3 Hertwich Engineering Vertical Melting Furnace Product and Services

9.2.4 Hertwich Engineering Vertical Melting Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Hertwich Engineering Recent Developments/Updates

9.2.6 Hertwich Engineering Competitive Strengths & Weaknesses

### 9.3 Sanken Sangyo

9.3.1 Sanken Sangyo Details

9.3.2 Sanken Sangyo Major Business

9.3.3 Sanken Sangyo Vertical Melting Furnace Product and Services

9.3.4 Sanken Sangyo Vertical Melting Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Sanken Sangyo Recent Developments/Updates

9.3.6 Sanken Sangyo Competitive Strengths & Weaknesses

### 9.4 Tenova

9.4.1 Tenova Details

9.4.2 Tenova Major Business

9.4.3 Tenova Vertical Melting Furnace Product and Services

9.4.4 Tenova Vertical Melting Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Tenova Recent Developments/Updates

9.4.6 Tenova Competitive Strengths & Weaknesses

### 9.5 OTTO JUNKER

9.5.1 OTTO JUNKER Details

9.5.2 OTTO JUNKER Major Business

9.5.3 OTTO JUNKER Vertical Melting Furnace Product and Services

9.5.4 OTTO JUNKER Vertical Melting Furnace Production, Price, Value, Gross Margin

and Market Share (2021-2026)

9.5.5 OTTO JUNKER Recent Developments/Updates

9.5.6 OTTO JUNKER Competitive Strengths & Weaknesses

9.6 Schaefer Group

9.6.1 Schaefer Group Details

9.6.2 Schaefer Group Major Business

9.6.3 Schaefer Group Vertical Melting Furnace Product and Services

9.6.4 Schaefer Group Vertical Melting Furnace Production, Price, Value, Gross Margin

and Market Share (2021-2026)

9.6.5 Schaefer Group Recent Developments/Updates

9.6.6 Schaefer Group Competitive Strengths & Weaknesses

9.7 Continuus-Properzi

9.7.1 Continuus-Properzi Details

9.7.2 Continuus-Properzi Major Business

9.7.3 Continuus-Properzi Vertical Melting Furnace Product and Services

9.7.4 Continuus-Properzi Vertical Melting Furnace Production, Price, Value, Gross

Margin and Market Share (2021-2026)

9.7.5 Continuus-Properzi Recent Developments/Updates

9.7.6 Continuus-Properzi Competitive Strengths & Weaknesses

9.8 Fives

9.8.1 Fives Details

9.8.2 Fives Major Business

9.8.3 Fives Vertical Melting Furnace Product and Services

9.8.4 Fives Vertical Melting Furnace Production, Price, Value, Gross Margin and

Market Share (2021-2026)

9.8.5 Fives Recent Developments/Updates

9.8.6 Fives Competitive Strengths & Weaknesses

9.9 Silcarb

9.9.1 Silcarb Details

9.9.2 Silcarb Major Business

9.9.3 Silcarb Vertical Melting Furnace Product and Services

9.9.4 Silcarb Vertical Melting Furnace Production, Price, Value, Gross Margin and

Market Share (2021-2026)

9.9.5 Silcarb Recent Developments/Updates

9.9.6 Silcarb Competitive Strengths & Weaknesses

9.10 Dynamo Furnaces

9.10.1 Dynamo Furnaces Details

9.10.2 Dynamo Furnaces Major Business

9.10.3 Dynamo Furnaces Vertical Melting Furnace Product and Services

- 9.10.4 Dynamo Furnaces Vertical Melting Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.10.5 Dynamo Furnaces Recent Developments/Updates
- 9.10.6 Dynamo Furnaces Competitive Strengths & Weaknesses
- 9.11 Nabertherm
  - 9.11.1 Nabertherm Details
  - 9.11.2 Nabertherm Major Business
  - 9.11.3 Nabertherm Vertical Melting Furnace Product and Services
  - 9.11.4 Nabertherm Vertical Melting Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.11.5 Nabertherm Recent Developments/Updates
  - 9.11.6 Nabertherm Competitive Strengths & Weaknesses
- 9.12 STOTEK
  - 9.12.1 STOTEK Details
  - 9.12.2 STOTEK Major Business
  - 9.12.3 STOTEK Vertical Melting Furnace Product and Services
  - 9.12.4 STOTEK Vertical Melting Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.12.5 STOTEK Recent Developments/Updates
  - 9.12.6 STOTEK Competitive Strengths & Weaknesses
- 9.13 Krown
  - 9.13.1 Krown Details
  - 9.13.2 Krown Major Business
  - 9.13.3 Krown Vertical Melting Furnace Product and Services
  - 9.13.4 Krown Vertical Melting Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.13.5 Krown Recent Developments/Updates
  - 9.13.6 Krown Competitive Strengths & Weaknesses
- 9.14 Furnace Engineering
  - 9.14.1 Furnace Engineering Details
  - 9.14.2 Furnace Engineering Major Business
  - 9.14.3 Furnace Engineering Vertical Melting Furnace Product and Services
  - 9.14.4 Furnace Engineering Vertical Melting Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.14.5 Furnace Engineering Recent Developments/Updates
  - 9.14.6 Furnace Engineering Competitive Strengths & Weaknesses
- 9.15 ATM Atilim Teknik
  - 9.15.1 ATM Atilim Teknik Details
  - 9.15.2 ATM Atilim Teknik Major Business

- 9.15.3 ATM Atilim Teknik Vertical Melting Furnace Product and Services
- 9.15.4 ATM Atilim Teknik Vertical Melting Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.15.5 ATM Atilim Teknik Recent Developments/Updates
- 9.15.6 ATM Atilim Teknik Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

- 10.1 Vertical Melting Furnace Industry Chain
- 10.2 Vertical Melting Furnace Upstream Analysis
  - 10.2.1 Vertical Melting Furnace Core Raw Materials
  - 10.2.2 Main Manufacturers of Vertical Melting Furnace Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Vertical Melting Furnace Production Mode
- 10.6 Vertical Melting Furnace Procurement Model
- 10.7 Vertical Melting Furnace Industry Sales Model and Sales Channels
  - 10.7.1 Vertical Melting Furnace Sales Model
  - 10.7.2 Vertical Melting Furnace Typical Distributors

## **11 RESEARCH FINDINGS AND CONCLUSION**

## **12 APPENDIX**

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Vertical Melting Furnace Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Vertical Melting Furnace Production Value by Region (2021-2026) & (USD Million)

Table 3. World Vertical Melting Furnace Production Value by Region (2027-2032) & (USD Million)

Table 4. World Vertical Melting Furnace Production Value Market Share by Region (2021-2026)

Table 5. World Vertical Melting Furnace Production Value Market Share by Region (2027-2032)

Table 6. World Vertical Melting Furnace Production by Region (2021-2026) & (Units)

Table 7. World Vertical Melting Furnace Production by Region (2027-2032) & (Units)

Table 8. World Vertical Melting Furnace Production Market Share by Region (2021-2026)

Table 9. World Vertical Melting Furnace Production Market Share by Region (2027-2032)

Table 10. World Vertical Melting Furnace Average Price by Region (2021-2026) & (USD/Unit)

Table 11. World Vertical Melting Furnace Average Price by Region (2027-2032) & (USD/Unit)

Table 12. Vertical Melting Furnace Major Market Trends

Table 13. World Vertical Melting Furnace Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Vertical Melting Furnace Consumption by Region (2021-2026) & (Units)

Table 15. World Vertical Melting Furnace Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Vertical Melting Furnace Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Vertical Melting Furnace Producers in 2025

Table 18. World Vertical Melting Furnace Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Vertical Melting Furnace Producers in 2025

Table 20. World Vertical Melting Furnace Average Price by Manufacturer (2021-2026) & (USD/Unit)

- Table 21. Global Vertical Melting Furnace Company Evaluation Quadrant
- Table 22. World Vertical Melting Furnace Industry Rank of Major Manufacturers, Based on Production Value in 2025
- Table 23. Head Office and Vertical Melting Furnace Production Site of Key Manufacturer
- Table 24. Vertical Melting Furnace Market: Company Product Type Footprint
- Table 25. Vertical Melting Furnace Market: Company Product Application Footprint
- Table 26. Vertical Melting Furnace Competitive Factors
- Table 27. Vertical Melting Furnace New Entrant and Capacity Expansion Plans
- Table 28. Vertical Melting Furnace Mergers & Acquisitions Activity
- Table 29. United States VS China Vertical Melting Furnace Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
- Table 30. United States VS China Vertical Melting Furnace Production Comparison, (2021 & 2025 & 2032) & (Units)
- Table 31. United States VS China Vertical Melting Furnace Consumption Comparison, (2021 & 2025 & 2032) & (Units)
- Table 32. United States Based Vertical Melting Furnace Manufacturers, Headquarters and Production Site (States, Country)
- Table 33. United States Based Manufacturers Vertical Melting Furnace Production Value, (2021-2026) & (USD Million)
- Table 34. United States Based Manufacturers Vertical Melting Furnace Production Value Market Share (2021-2026)
- Table 35. United States Based Manufacturers Vertical Melting Furnace Production (2021-2026) & (Units)
- Table 36. United States Based Manufacturers Vertical Melting Furnace Production Market Share (2021-2026)
- Table 37. China Based Vertical Melting Furnace Manufacturers, Headquarters and Production Site (Province, Country)
- Table 38. China Based Manufacturers Vertical Melting Furnace Production Value, (2021-2026) & (USD Million)
- Table 39. China Based Manufacturers Vertical Melting Furnace Production Value Market Share (2021-2026)
- Table 40. China Based Manufacturers Vertical Melting Furnace Production, (2021-2026) & (Units)
- Table 41. China Based Manufacturers Vertical Melting Furnace Production Market Share (2021-2026)
- Table 42. Rest of World Based Vertical Melting Furnace Manufacturers, Headquarters and Production Site (State, Country)
- Table 43. Rest of World Based Manufacturers Vertical Melting Furnace Production

Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Vertical Melting Furnace Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Vertical Melting Furnace Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Vertical Melting Furnace Production Market Share (2021-2026)

Table 47. World Vertical Melting Furnace Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Vertical Melting Furnace Production by Type (2021-2026) & (Units)

Table 49. World Vertical Melting Furnace Production by Type (2027-2032) & (Units)

Table 50. World Vertical Melting Furnace Production Value by Type (2021-2026) & (USD Million)

Table 51. World Vertical Melting Furnace Production Value by Type (2027-2032) & (USD Million)

Table 52. World Vertical Melting Furnace Average Price by Type (2021-2026) & (USD/Unit)

Table 53. World Vertical Melting Furnace Average Price by Type (2027-2032) & (USD/Unit)

Table 54. World Vertical Melting Furnace Production Value by Heat Source Type, (USD Million), 2021 & 2025 & 2032

Table 55. World Vertical Melting Furnace Production by Heat Source Type (2021-2026) & (Units)

Table 56. World Vertical Melting Furnace Production by Heat Source Type (2027-2032) & (Units)

Table 57. World Vertical Melting Furnace Production Value by Heat Source Type (2021-2026) & (USD Million)

Table 58. World Vertical Melting Furnace Production Value by Heat Source Type (2027-2032) & (USD Million)

Table 59. World Vertical Melting Furnace Average Price by Heat Source Type (2021-2026) & (USD/Unit)

Table 60. World Vertical Melting Furnace Average Price by Heat Source Type (2027-2032) & (USD/Unit)

Table 61. World Vertical Melting Furnace Production Value by Furnace Body Structure, (USD Million), 2021 & 2025 & 2032

Table 62. World Vertical Melting Furnace Production by Furnace Body Structure (2021-2026) & (Units)

Table 63. World Vertical Melting Furnace Production by Furnace Body Structure (2027-2032) & (Units)

- Table 64. World Vertical Melting Furnace Production Value by Furnace Body Structure (2021-2026) & (USD Million)
- Table 65. World Vertical Melting Furnace Production Value by Furnace Body Structure (2027-2032) & (USD Million)
- Table 66. World Vertical Melting Furnace Average Price by Furnace Body Structure (2021-2026) & (USD/Unit)
- Table 67. World Vertical Melting Furnace Average Price by Furnace Body Structure (2027-2032) & (USD/Unit)
- Table 68. World Vertical Melting Furnace Production Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 69. World Vertical Melting Furnace Production by Application (2021-2026) & (Units)
- Table 70. World Vertical Melting Furnace Production by Application (2027-2032) & (Units)
- Table 71. World Vertical Melting Furnace Production Value by Application (2021-2026) & (USD Million)
- Table 72. World Vertical Melting Furnace Production Value by Application (2027-2032) & (USD Million)
- Table 73. World Vertical Melting Furnace Average Price by Application (2021-2026) & (USD/Unit)
- Table 74. World Vertical Melting Furnace Average Price by Application (2027-2032) & (USD/Unit)
- Table 75. StrikoWestofen Basic Information, Manufacturing Base and Competitors
- Table 76. StrikoWestofen Major Business
- Table 77. StrikoWestofen Vertical Melting Furnace Product and Services
- Table 78. StrikoWestofen Vertical Melting Furnace Production (Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 79. StrikoWestofen Recent Developments/Updates
- Table 80. StrikoWestofen Competitive Strengths & Weaknesses
- Table 81. Hertwich Engineering Basic Information, Manufacturing Base and Competitors
- Table 82. Hertwich Engineering Major Business
- Table 83. Hertwich Engineering Vertical Melting Furnace Product and Services
- Table 84. Hertwich Engineering Vertical Melting Furnace Production (Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. Hertwich Engineering Recent Developments/Updates
- Table 86. Hertwich Engineering Competitive Strengths & Weaknesses
- Table 87. Sanken Sangyo Basic Information, Manufacturing Base and Competitors

- Table 88. Sanken Sangyo Major Business
- Table 89. Sanken Sangyo Vertical Melting Furnace Product and Services
- Table 90. Sanken Sangyo Vertical Melting Furnace Production (Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. Sanken Sangyo Recent Developments/Updates
- Table 92. Sanken Sangyo Competitive Strengths & Weaknesses
- Table 93. Tenova Basic Information, Manufacturing Base and Competitors
- Table 94. Tenova Major Business
- Table 95. Tenova Vertical Melting Furnace Product and Services
- Table 96. Tenova Vertical Melting Furnace Production (Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. Tenova Recent Developments/Updates
- Table 98. Tenova Competitive Strengths & Weaknesses
- Table 99. OTTO JUNKER Basic Information, Manufacturing Base and Competitors
- Table 100. OTTO JUNKER Major Business
- Table 101. OTTO JUNKER Vertical Melting Furnace Product and Services
- Table 102. OTTO JUNKER Vertical Melting Furnace Production (Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. OTTO JUNKER Recent Developments/Updates
- Table 104. OTTO JUNKER Competitive Strengths & Weaknesses
- Table 105. Schaefer Group Basic Information, Manufacturing Base and Competitors
- Table 106. Schaefer Group Major Business
- Table 107. Schaefer Group Vertical Melting Furnace Product and Services
- Table 108. Schaefer Group Vertical Melting Furnace Production (Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. Schaefer Group Recent Developments/Updates
- Table 110. Schaefer Group Competitive Strengths & Weaknesses
- Table 111. Continuus-Properzi Basic Information, Manufacturing Base and Competitors
- Table 112. Continuus-Properzi Major Business
- Table 113. Continuus-Properzi Vertical Melting Furnace Product and Services
- Table 114. Continuus-Properzi Vertical Melting Furnace Production (Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. Continuus-Properzi Recent Developments/Updates
- Table 116. Continuus-Properzi Competitive Strengths & Weaknesses
- Table 117. Fives Basic Information, Manufacturing Base and Competitors

- Table 118. Fives Major Business
- Table 119. Fives Vertical Melting Furnace Product and Services
- Table 120. Fives Vertical Melting Furnace Production (Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. Fives Recent Developments/Updates
- Table 122. Fives Competitive Strengths & Weaknesses
- Table 123. Silcarb Basic Information, Manufacturing Base and Competitors
- Table 124. Silcarb Major Business
- Table 125. Silcarb Vertical Melting Furnace Product and Services
- Table 126. Silcarb Vertical Melting Furnace Production (Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Silcarb Recent Developments/Updates
- Table 128. Silcarb Competitive Strengths & Weaknesses
- Table 129. Dynamo Furnaces Basic Information, Manufacturing Base and Competitors
- Table 130. Dynamo Furnaces Major Business
- Table 131. Dynamo Furnaces Vertical Melting Furnace Product and Services
- Table 132. Dynamo Furnaces Vertical Melting Furnace Production (Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. Dynamo Furnaces Recent Developments/Updates
- Table 134. Dynamo Furnaces Competitive Strengths & Weaknesses
- Table 135. Nabertherm Basic Information, Manufacturing Base and Competitors
- Table 136. Nabertherm Major Business
- Table 137. Nabertherm Vertical Melting Furnace Product and Services
- Table 138. Nabertherm Vertical Melting Furnace Production (Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 139. Nabertherm Recent Developments/Updates
- Table 140. Nabertherm Competitive Strengths & Weaknesses
- Table 141. STOTEK Basic Information, Manufacturing Base and Competitors
- Table 142. STOTEK Major Business
- Table 143. STOTEK Vertical Melting Furnace Product and Services
- Table 144. STOTEK Vertical Melting Furnace Production (Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 145. STOTEK Recent Developments/Updates
- Table 146. STOTEK Competitive Strengths & Weaknesses
- Table 147. Krown Basic Information, Manufacturing Base and Competitors
- Table 148. Krown Major Business
- Table 149. Krown Vertical Melting Furnace Product and Services
- Table 150. Krown Vertical Melting Furnace Production (Units), Price (USD/Unit),

Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Krown Recent Developments/Updates

Table 152. Krown Competitive Strengths & Weaknesses

Table 153. Furnace Engineering Basic Information, Manufacturing Base and Competitors

Table 154. Furnace Engineering Major Business

Table 155. Furnace Engineering Vertical Melting Furnace Product and Services

Table 156. Furnace Engineering Vertical Melting Furnace Production (Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Furnace Engineering Recent Developments/Updates

Table 158. Furnace Engineering Competitive Strengths & Weaknesses

Table 159. ATM Atilim Teknik Basic Information, Manufacturing Base and Competitors

Table 160. ATM Atilim Teknik Major Business

Table 161. ATM Atilim Teknik Vertical Melting Furnace Product and Services

Table 162. ATM Atilim Teknik Vertical Melting Furnace Production (Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. ATM Atilim Teknik Recent Developments/Updates

Table 164. ATM Atilim Teknik Competitive Strengths & Weaknesses

Table 165. Global Key Players of Vertical Melting Furnace Upstream (Raw Materials)

Table 166. Global Vertical Melting Furnace Typical Customers

Table 167. Vertical Melting Furnace Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Vertical Melting Furnace Picture

Figure 2. World Vertical Melting Furnace Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Vertical Melting Furnace Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Vertical Melting Furnace Production (2021-2032) & (Units)

Figure 5. World Vertical Melting Furnace Average Price (2021-2032) & (USD/Unit)

Figure 6. World Vertical Melting Furnace Production Value Market Share by Region (2021-2032)

Figure 7. World Vertical Melting Furnace Production Market Share by Region (2021-2032)

Figure 8. North America Vertical Melting Furnace Production (2021-2032) & (Units)

Figure 9. Europe Vertical Melting Furnace Production (2021-2032) & (Units)

Figure 10. China Vertical Melting Furnace Production (2021-2032) & (Units)

Figure 11. Japan Vertical Melting Furnace Production (2021-2032) & (Units)

Figure 12. South Asia Vertical Melting Furnace Production (2021-2032) & (Units)

Figure 13. India Vertical Melting Furnace Production (2021-2032) & (Units)

Figure 14. Vertical Melting Furnace Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World Vertical Melting Furnace Consumption (2021-2032) & (Units)

Figure 17. World Vertical Melting Furnace Consumption Market Share by Region (2021-2032)

Figure 18. United States Vertical Melting Furnace Consumption (2021-2032) & (Units)

Figure 19. China Vertical Melting Furnace Consumption (2021-2032) & (Units)

Figure 20. Europe Vertical Melting Furnace Consumption (2021-2032) & (Units)

Figure 21. Japan Vertical Melting Furnace Consumption (2021-2032) & (Units)

Figure 22. South Korea Vertical Melting Furnace Consumption (2021-2032) & (Units)

Figure 23. ASEAN Vertical Melting Furnace Consumption (2021-2032) & (Units)

Figure 24. India Vertical Melting Furnace Consumption (2021-2032) & (Units)

Figure 25. Producer Shipments of Vertical Melting Furnace by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for Vertical Melting Furnace Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Vertical Melting Furnace Markets in 2025

Figure 28. United States VS China: Vertical Melting Furnace Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Vertical Melting Furnace Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Vertical Melting Furnace Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Vertical Melting Furnace Production Market Share 2025

Figure 32. China Based Manufacturers Vertical Melting Furnace Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Vertical Melting Furnace Production Market Share 2025

Figure 34. World Vertical Melting Furnace Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World Vertical Melting Furnace Production Value Market Share by Type in 2025

Figure 36. Manual Control Type

Figure 37. Semi-Automatic Control Type

Figure 38. Fully Intelligent Control System Type

Figure 39. World Vertical Melting Furnace Production Market Share by Type (2021-2032)

Figure 40. World Vertical Melting Furnace Production Value Market Share by Type (2021-2032)

Figure 41. World Vertical Melting Furnace Average Price by Type (2021-2032) & (USD/Unit)

Figure 42. World Vertical Melting Furnace Production Value by Heat Source Type, (USD Million), 2021 & 2025 & 2032

Figure 43. World Vertical Melting Furnace Production Value Market Share by Heat Source Type in 2025

Figure 44. Coal-Fired Vertical Shaft Furnace

Figure 45. Gas-Fired Vertical Shaft Furnace

Figure 46. Electric Heating Vertical Shaft Furnace

Figure 47. World Vertical Melting Furnace Production Market Share by Heat Source Type (2021-2032)

Figure 48. World Vertical Melting Furnace Production Value Market Share by Heat Source Type (2021-2032)

Figure 49. World Vertical Melting Furnace Average Price by Heat Source Type (2021-2032) & (USD/Unit)

Figure 50. World Vertical Melting Furnace Production Value by Furnace Body Structure,

(USD Million), 2021 & 2025 & 2032

Figure 51. World Vertical Melting Furnace Production Value Market Share by Furnace Body Structure in 2025

Figure 52. Single-Hearth Vertical Furnace

Figure 53. Double-Hearth Vertical Furnace

Figure 54. Multi-Stage Vertical Furnace

Figure 55. World Vertical Melting Furnace Production Market Share by Furnace Body Structure (2021-2032)

Figure 56. World Vertical Melting Furnace Production Value Market Share by Furnace Body Structure (2021-2032)

Figure 57. World Vertical Melting Furnace Average Price by Furnace Body Structure (2021-2032) & (USD/Unit)

Figure 58. World Vertical Melting Furnace Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 59. World Vertical Melting Furnace Production Value Market Share by Application in 2025

Figure 60. Metallurgical Industry

Figure 61. Semiconductor and Electronics Industry

Figure 62. Photovoltaic Industry

Figure 63. Others

Figure 64. World Vertical Melting Furnace Production Market Share by Application (2021-2032)

Figure 65. World Vertical Melting Furnace Production Value Market Share by Application (2021-2032)

Figure 66. World Vertical Melting Furnace Average Price by Application (2021-2032) & (USD/Unit)

Figure 67. Vertical Melting Furnace Industry Chain

Figure 68. Vertical Melting Furnace Procurement Model

Figure 69. Vertical Melting Furnace Sales Model

Figure 70. Vertical Melting Furnace Sales Channels, Direct Sales, and Distribution

Figure 71. Methodology

Figure 72. Research Process and Data Source

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