

Global Vertical Oxidation Furnace Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Vertical Oxidation Furnace market size will reach Million USD in 2025 and is projected to reach Million USD by 2032, with a CAGR of % (2025-2032). Notably, the China Vertical Oxidation Furnace 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

A Vertical Oxidation Furnace is a specialized furnace used in semiconductor manufacturing processes for the thermal oxidation of silicon wafers. Unlike horizontal furnaces, which load wafers onto a rotating quartz boat, a Vertical Oxidation Furnace loads wafers onto a vertical quartz rack. The furnace operates at high temperatures in controlled environments to grow oxide layers on the surface of silicon wafers, a critical step in the fabrication of integrated circuits and other semiconductor devices. The vertical design of the furnace allows for efficient space utilization in cleanroom environments and enables precise control over process parameters such as temperature, gas flow, and oxidation time. Vertical Oxidation Furnaces are essential tools in semiconductor fabrication facilities, enabling the production of high-quality oxide layers with uniform thickness and excellent electrical properties required for advanced semiconductor devices.

The major global manufacturers of Vertical Oxidation Furnace include Tokyo Electron Limited, Kokusai Electric Corporation, Koyo Thermo Systems, ASM International,

NAURA, Centrotherm Photovoltaics, Tempress, 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 Vertical Oxidation Furnace. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Vertical Oxidation Furnace 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 Vertical Oxidation Furnace 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 Vertical Oxidation Furnace 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.

Global Key Manufacturers of Vertical Oxidation Furnace Include:

Tokyo Electron Limited

Kokusai Electric Corporation

Koyo Thermo Systems

ASM International

NAURA

Centrotherm Photovoltaics

Tempress

Vertical Oxidation Furnace Product Segment Include:

200mm and Below

300mm

Vertical Oxidation Furnace Product Application Include:

Integrated Circuit

MEMS

Others

Chapter Scope

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