

Global Hydrofluoric Acid Vapor Phase Etcher Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Hydrofluoric Acid Vapor Phase Etcher market size is expected to reach \$ 158 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

In 2025, global sales volume of Hydrofluoric Acid Vapor Phase Etcher is estimated at approximately 105 units, with an average global market price of about USD 950,000 per unit. Gross margins of major manufacturers in the industry are generally around 35%-50%.

Hydrofluoric Acid Vapor Phase Etcher is a semiconductor/MEMS process equipment that uses HF vapor to selectively etch silicon oxide materials on wafers or microstructured substrates. It is mainly used to remove SiO₂, TEOS oxide layers, PECVD oxide layers, and SOI buried oxide layers. Unlike liquid HF wet etching, this equipment removes silicon oxide through a vapor-phase reaction, which can reduce the risk of microstructure stiction, collapse, and residues caused by liquid surface tension. Therefore, it is particularly suitable for MEMS sacrificial layer release, SOI structure release, micro/nano-structure fabrication, and high-precision oxide etching processes.

The upstream segment mainly includes vacuum chambers, HF liquid/gas supply systems, temperature control systems, exhaust gas treatment systems, automation control systems, corrosion-resistant valves and pipelines, and safety monitoring modules. The midstream segment covers the design, manufacturing, integration, and process tuning of Hydrofluoric Acid Vapor Phase Etcher equipment. Downstream applications mainly include MEMS device manufacturing, advanced packaging, semiconductor sensors, microfluidic chips, and R&D process development. Driven by the development of MEMS sensors, RF devices, microfluidic devices, and wafer-level

packaging processes, Hydrofluoric Acid Vapor Phase Etcher continues to gain application value in high-selectivity, low-damage, and stiction-free release processes.

This report studies the global Hydrofluoric Acid Vapor Phase Etcher production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Hydrofluoric Acid Vapor Phase Etcher 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 Hydrofluoric Acid Vapor Phase Etcher that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Hydrofluoric Acid Vapor Phase Etcher total production and demand, 2021-2032, (Units)

Global Hydrofluoric Acid Vapor Phase Etcher total production value, 2021-2032, (USD Million)

Global Hydrofluoric Acid Vapor Phase Etcher production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Hydrofluoric Acid Vapor Phase Etcher consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Hydrofluoric Acid Vapor Phase Etcher domestic production, consumption, key domestic manufacturers and share

Global Hydrofluoric Acid Vapor Phase Etcher production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Hydrofluoric Acid Vapor Phase Etcher production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Hydrofluoric Acid Vapor Phase Etcher production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Hydrofluoric Acid Vapor Phase Etcher 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 KLA, Idonus, Advanced Micromachining Tools, Memstar, Shellback Semiconductor Technology, Sumitomo Precision Products, Jiangsu Pangea Semiconductor Equipment 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 Hydrofluoric Acid Vapor Phase Etcher market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (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 Hydrofluoric Acid Vapor Phase Etcher Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Hydrofluoric Acid Vapor Phase Etcher Market, Segmentation by Type:

Single-wafer Type

Batch Type

Global Hydrofluoric Acid Vapor Phase Etcher Market, Segmentation by Automation:

Semi-automatic

Fully automatic

Global Hydrofluoric Acid Vapor Phase Etcher Market, Segmentation by Application:

MEMS Device Manufacturing

Advanced Packaging

Semiconductor Sensor

Microfluidic Chip

Other

Companies Profiled:

KLA

Idonus

Advanced Micromachining Tools

Memsstar

Shellback Semiconductor Technology

Sumitomo Precision Products

Jiangsu Pangea Semiconductor Equipment Technology

Key Questions Answered:

1. How big is the global Hydrofluoric Acid Vapor Phase Etcher market?

2. What is the demand of the global Hydrofluoric Acid Vapor Phase Etcher market?
3. What is the year over year growth of the global Hydrofluoric Acid Vapor Phase Etcher market?
4. What is the production and production value of the global Hydrofluoric Acid Vapor Phase Etcher market?
5. Who are the key producers in the global Hydrofluoric Acid Vapor Phase Etcher market?
6. What are the growth factors driving the market demand?

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