

# Global Hydrofluoric Acid Vapor Phase Etcher Market Growth 2026-2032

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## Abstracts

The global Hydrofluoric Acid Vapor Phase Etcher market size is predicted to grow from US\$ 98 million in 2025 to US\$ 154 million in 2032; it is expected to grow at a CAGR of 6.7% from 2026 to 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 SiO<sub>2</sub>, 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.

United States market for Hydrofluoric Acid Vapor Phase Etcher is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Hydrofluoric Acid Vapor Phase Etcher is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Hydrofluoric Acid Vapor Phase Etcher is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Hydrofluoric Acid Vapor Phase Etcher players cover KLA, Idonus, Advanced Micromachining Tools, Memstar, Shellback Semiconductor Technology, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Hydrofluoric Acid Vapor Phase Etcher Industry Forecast" looks at past sales and reviews total world Hydrofluoric Acid Vapor Phase Etcher sales in 2025, providing a comprehensive analysis by region and market sector of projected Hydrofluoric Acid Vapor Phase Etcher sales for 2026 through 2032. With Hydrofluoric Acid Vapor Phase Etcher sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Hydrofluoric Acid Vapor Phase Etcher industry.

This Insight Report provides a comprehensive analysis of the global Hydrofluoric Acid Vapor Phase Etcher 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 Hydrofluoric Acid Vapor Phase Etcher portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Hydrofluoric Acid Vapor Phase Etcher market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Hydrofluoric Acid Vapor Phase Etcher and breaks down the forecast by Type, 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 Hydrofluoric Acid Vapor Phase Etcher.

This report presents a comprehensive overview, market shares, and growth opportunities of Hydrofluoric Acid Vapor Phase Etcher market by product type, application, key manufacturers and key regions and countries.

#### Segmentation by Type:

Single-wafer Type

Batch Type

#### Segmentation by Automation:

Semi-automatic

Fully automatic

#### Segmentation by Application:

MEMS Device Manufacturing

Advanced Packaging

Semiconductor Sensor

Microfluidic Chip

Other

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.

KLA

Idonus

Advanced Micromachining Tools

Memsstar

Shellback Semiconductor Technology

Sumitomo Precision Products

Jiangsu Pangea Semiconductor Equipment Technology

#### Key Questions Addressed in this Report

What is the 10-year outlook for the global Hydrofluoric Acid Vapor Phase Etcher market?

What factors are driving Hydrofluoric Acid Vapor Phase Etcher market growth, globally and by region?

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

How do Hydrofluoric Acid Vapor Phase Etcher market opportunities vary by end market size?

How does Hydrofluoric Acid Vapor Phase Etcher break out by Type, by Application?

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