

Global Hydrofluoric Acid Vapor Phase Etcher Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G621C42F866AEN.html>

Date: July 2026

Pages: 94

Price: US\$ 3,480.00 (Single User License)

ID: G621C42F866AEN

Abstracts

According to our (Global Info Research) latest study, the global Hydrofluoric Acid Vapor Phase Etcher market size was valued at US\$ 103 million in 2025 and is forecast to a readjusted size of US\$ 158 million by 2032 with a CAGR of 6.3% during review period.

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 is a detailed and comprehensive analysis for global Hydrofluoric Acid Vapor Phase Etcher market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Hydrofluoric Acid Vapor Phase Etcher market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Hydrofluoric Acid Vapor Phase Etcher market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Hydrofluoric Acid Vapor Phase Etcher market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Hydrofluoric Acid Vapor Phase Etcher market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Hydrofluoric Acid Vapor Phase Etcher

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Hydrofluoric Acid Vapor Phase Etcher market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Hydrofluoric Acid Vapor Phase Etcher market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Single-wafer Type

Batch Type

Market segment by Automation

Semi-automatic

Fully automatic

Market segment by Application

MEMS Device Manufacturing

Advanced Packaging

Semiconductor Sensor

Microfluidic Chip

Other

Major players covered

KLA

Idonus

Advanced Micromachining Tools

Memsstar

Shellback Semiconductor Technology

Sumitomo Precision Products

Jiangsu Pangea Semiconductor Equipment Technology

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Hydrofluoric Acid Vapor Phase Etcher product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Hydrofluoric Acid Vapor Phase Etcher, with price, sales quantity, revenue, and global market share of Hydrofluoric Acid Vapor Phase Etcher from 2021 to 2026.

Chapter 3, the Hydrofluoric Acid Vapor Phase Etcher competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Hydrofluoric Acid Vapor Phase Etcher breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Hydrofluoric Acid Vapor Phase Etcher market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Hydrofluoric Acid Vapor Phase Etcher.

Chapter 14 and 15, to describe Hydrofluoric Acid Vapor Phase Etcher sales channel, distributors, customers, research findings and conclusion.

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