

Global Plasma Etch System for Wafer Processing Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Plasma Etch System for Wafer Processing market size is expected to reach \$ 8665 million by 2032, rising at a market growth of 7.0% CAGR during the forecast period (2026-2032).

In 2025, the global production of Plasma Etch System for Wafer Processing reached approximately 1120 units, with an average global market price of around US\$3 million -US \$20 million per unit. In the same year, the global total production capacity of Plasma Etch System for Wafer Processing reached 1120 units. The industry average gross profit margin of this product reached 44%. Plasma etching systems for wafer fabrication are key equipment in semiconductor manufacturing processes used to transfer photolithographic patterns to wafer material layers. They generate high-energy plasma by exciting gas in a vacuum environment, utilizing the synergistic effect of ion bombardment and chemical reactions to perform anisotropic or isotropic etching on silicon, metal, or dielectric thin films, thereby achieving nanoscale structure fabrication. This system typically consists of a vacuum chamber, RF power supply, gas control system, temperature control system, and process control software. It enables high aspect ratio, high selectivity, and low-damage processing in advanced processes, making it one of the core equipment for integrated circuits, MEMS, power devices, and advanced packaging manufacturing.

The Plasma Etch System for Wafer Processing industry chain can be divided into three main segments: upstream core components, midstream equipment manufacturing, and downstream applications. The upstream mainly includes vacuum systems, RF power supplies, gas supply, precision controllers, and key materials; the midstream consists of equipment manufacturers responsible for system integration, process development, and software control, representing the highest technology and added value segment; the

downstream covers wafer fabrication plants, packaging and testing plants, and MEMS/power device manufacturers, and is widely used in logic chips, memory chips, compound semiconductors, and advanced packaging. The overall industry chain is characterized by high concentration, high technological barriers, and a strong correlation with semiconductor capital expenditure.

As semiconductor processes evolve towards 3nm, 2nm, and GAA structures, and 3D NAND layer counts continue to increase and advanced packaging develops rapidly, the demand for high-precision etching continues to rise, driving plasma etching equipment towards high aspect ratio, atomic layer etching (ALE), low-damage control, and intelligentization. Meanwhile, AI, high-performance computing, automotive electronics, and new energy sectors are experiencing significant growth in chip demand. Coupled with the 'chip localization' policies of various countries, the industry is expected to maintain steady growth in the future, but it also faces challenges such as high equipment costs, extremely high technological barriers, and complex supply chains. Overall, this field is one of the core tracks in the semiconductor equipment industry with the strongest long-term certainty and the most active technological iteration.

This report studies the global Plasma Etch System for Wafer Processing production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Plasma Etch System for Wafer Processing 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 Plasma Etch System for Wafer Processing that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Plasma Etch System for Wafer Processing total production and demand, 2021-2032, (Units)

Global Plasma Etch System for Wafer Processing total production value, 2021-2032, (USD Million)

Global Plasma Etch System for Wafer Processing production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Plasma Etch System for Wafer Processing consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Plasma Etch System for Wafer Processing domestic production,

consumption, key domestic manufacturers and share
Global Plasma Etch System for Wafer Processing production by manufacturer,
production, price, value and market share 2021-2026, (USD Million) & (Units)
Global Plasma Etch System for Wafer Processing production by Process Types,
production, value, CAGR, 2021-2032, (USD Million) & (Units)
Global Plasma Etch System for Wafer Processing production by Application, production,
value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Plasma Etch System for Wafer Processing 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 Oxford Instruments, ULVAC, Lam Research, AMEC, PlasmaTherm, SAMCO, Applied Materials, Sentech, SPTS Technologies (an Orbotech Company), GigaLane, 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 Plasma Etch System for Wafer Processing 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 Process Types, 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 Plasma Etch System for Wafer Processing Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Plasma Etch System for Wafer Processing Market, Segmentation by Process Types:

Dry Etching

Reactive Ion Etching

Deep Reactive Ion Etching

ICP Etching

Wet Etching

Global Plasma Etch System for Wafer Processing Market, Segmentation by Equipment Types:

Single-Wafer Etching Equipment

Batch Etching Equipment

Global Plasma Etch System for Wafer Processing Market, Segmentation by Technology Nodes:

28nm

14nm / 7nm

5nm / 3nm / 2nm

Global Plasma Etch System for Wafer Processing Market, Segmentation by Application:

Integrated Circuits

MEMS

Power Devices

Optoelectronics

Companies Profiled:

Oxford Instruments

ULVAC

Lam Research

AMEC

PlasmaTherm

SAMCO

Applied Materials

Sentech

SPTS Technologies (an Orbotech Company)

GigaLane

CORIAL

Trion Technology

NAURA

Plasma Etch, Inc.

Tokyo Electron Limited

Key Questions Answered:

1. How big is the global Plasma Etch System for Wafer Processing market?
2. What is the demand of the global Plasma Etch System for Wafer Processing market?
3. What is the year over year growth of the global Plasma Etch System for Wafer Processing market?
4. What is the production and production value of the global Plasma Etch System for Wafer Processing market?
5. Who are the key producers in the global Plasma Etch System for Wafer Processing market?
6. What are the growth factors driving the market demand?

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