

Semiconductor Etch Equipment Market By Type (Wet etch equipment, Dry etch equipment), By Process (Conductor Etch, Dielectric Etch), By End User (Integrated device manufacturers, Foundry, Memory manufacturers): Global Opportunity Analysis and Industry Forecast, 2021-2031

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Report description:

The global semiconductor etch equipment market was valued at \$20,455.6 million in 2021, and is projected to reach \$46,382.5 million by 2031, registering a CAGR of 8.3% from 2022 to 2031.

The wet etching method or the dry etching method are both used with semiconductor etch equipment to remove certain materials from the surface of silicon wafer substrate. The selective material is removed from silicon wafer substrate using chemicals in the wet etch process. The selective material is removed from the silicon wafer substrate using plasma ions in the dry etch process. In order to develop patterns that are appropriate for the semiconductor's applications, the etching process removes material from the semiconductor's surface.

The market is primarily driven by the semiconductor industry's rapid growth. One of the most crucial requirements in the worldwide electronics sector is equipment for manufacturing semiconductors. A unique method to integrate Silicon Carbide (SiC)-powered semiconductors with contemporary weapons and equipment is being developed by U.S. Army researchers. Moreover, consumers' rising need for electronics devices increases the demand for chips, which is anticipated to indirectly increase demand for semiconductor etching equipment during the forecast period. The demand for semiconductor chips is being driven by a rise in the need for hybrid circuits in medical equipment as a result of an increase in patients. For instance, according to UN estimates, the number of people in the region who are 60 years of age or older might reach 806.55 million by 2024. The market for electric circuit boards is anticipated to be stimulated by shifting consumer electronics demand, which would then feed the demand for semiconductor etching equipment. Such instances are expected to augment the growth of the market. Government-led stringent laws, tariffs, and regulations against deforestation, metals, and other materials used in semiconductor etching system have declined revenues and profits of manufacturers to a substantial extent. For instance, in 2018, the U.S.

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government increased tariffs on import of metals (effective from February 2020) by 25% on steel and 10% on aluminum, which further escalated costs of these metals in the U.S. Hence, fluctuation in prices of metals and other materials is anticipated to restrict the growth of the semiconductor etch equipment market during the forecast period.

The demand for semiconductor etch equipment is also significantly influenced by the government authorities' shifting attention to the semiconductor industry. For instance, in February 2022, Bosch announced that it would expand the scale of its wafer fabrication facility in Reutlingen, Germany. By 2025, it intends to invest more than EUR 250 million (USD 278.2 million) in new production facilities and the amenities they are going to need. Such growth strategies are offering lots of growth opportunities and promoting the market for semiconductor etch equipment.

The semiconductor etch equipment market is segmented into type, process, end user industry, and region. On the basis of type, it is bifurcated into wet etch equipment and dry etch equipment. By process, it is segregated into conductor etch and dielectric etch. On the basis of end user industry, it is classified into integrated device manufacturers, foundry, and memory manufacturers. Region-wise, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Benefits For Stakeholders

- This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the semiconductor etch equipment market analysis from 2021 to 2031 to identify the prevailing semiconductor etch equipment market opportunities.
- The market research is offered along with information related to key drivers, restraints, and opportunities.
- Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.
- In-depth analysis of the semiconductor etch equipment market segmentation assists to determine the prevailing market opportunities.
- Major countries in each region are mapped according to their revenue contribution to the global market.
- Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.
- The report includes the analysis of the regional as well as global semiconductor etch equipment market trends, key players, market segments, application areas, and market growth strategies.

Key Market Segments

By Type

- Wet etch equipment
- Dry etch equipment

By Process

- Dielectric Etch
- Conductor Etch

By End User

- Integrated device manufacturers
- Foundry
- Memory manufacturers

By Region

- North America
- U.S.
- Canada
- Mexico
- Europe
- Germany
- France
- UK
- Italy

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- Rest of Europe
- Asia-Pacific
- China
- Japan
- Taiwan
- South Korea
- Rest of Asia-Pacific
- LAMEA
- Latin America
- Middle East
- Africa
- Key Market Players
- Applied Materials, Inc.
- Spts technologies ltd.
- Panasonic Industry Co., Ltd.
- EV Group (EVG)
- Samco inc.
- ASML Holding NV
- Hitachi High-Technologies Corp (HHT)
- Tokyo Electron Limited
- Shenzhen Delphi Laser & Robot Co., Ltd.
- Ulvac

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