Global Dry Etching Equipment Market: Analysis By Type (Conductor Dry Etching, and Dielectric Dry Etching), By Region Size and Trends with Impact of COVID-19 and Forecast up to 2027

December 2022

Daedal Research

Global Dry Etching Equipment Market: Coverage

- Executive Summary and Scope
- Introduction/Market Overview
- Global Market Analysis
- Regional Market Analysis
- Impact of COVID
- Dynamics
- Competitive Landscape
- Company Profiling

Global Dry Etching Equipment Market: Coverage

Scope of the Report

Attributes	Details
Title	Global Dry Etching Equipment Market: Analysis By Type (Conductor Dry Etching, and Dielectric Dry Etching), By Region Size and Trends with Impact of COVID-19 and Forecast up to 2027
Coverage	Global and Regional
Regional Coverage	Asia Pacific (China, Japan, South Korea and Rest of Asia Pacific), North America (The US, Canada, and Mexico), Europe (Germany, Spain, UK, Italy, France, and the Rest of Europe), and Rest of the World
Market Influencing Variables	Growth Drivers, Challenges, Market Trends
Forecast Period of Market	2022-2027
Competition in the Market	Highly Concentrated
Key Players	Lam Research Corporation, Tokyo Electron Limited, Samsung Electronics Co., Ltd. (SEMES Co Ltd.), Hitachi, Ltd. (Hitachi High Tech Corporation), Oxford Instruments PLC, Applied Materials Inc., ULVAC Inc., KLA Corporation (SPTS Technologies), Advanced Micro-Fabrication Equipment Inc. China, NAURA Technology Group Co., Ltd., Giga Lane Co. Ltd., Plasma-Therm, Samco Inc., and Beijing's E-Town Capital (Mattson Technology, Inc.),

Global Dry Etching Equipment Market: Coverage

Executive Summary

Etching is the process of removing unsuitable materials off the surface of a wafer using chemical or physical means. Etching can be separated into two types: dry etching and wet etching. Dry etching is the process of exposing a surface to a bombardment of ions that dislodge portions of the material. Dry etching equipment has grown in popularity in recent years due to its ability to provide excellent isotropic control, greater precision, and overall safety. Dry etching can also provide a high etch rate while using less chemicals, depending on the procedure. The global dry etching equipment market in 2021 stood at US$17.76 billion, and is likely to reach US$26.47 billion by 2027, growing at a CAGR of 6.88% during the forecast period of 2022-2027.

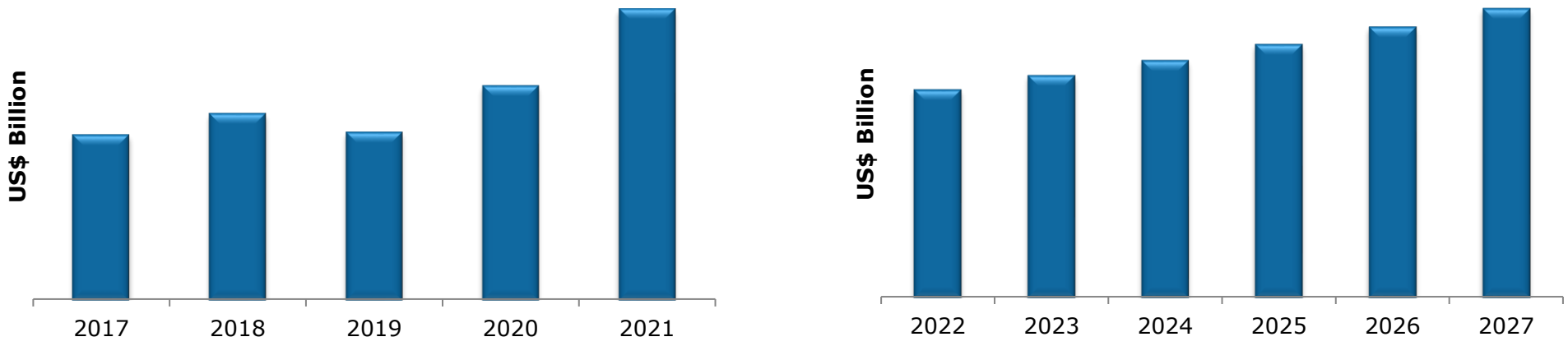
The dry etching equipment market can be segmented on the basis of type (conductor dry etching equipment, and dielectric dry etching equipment. The dielectric dry etching equipment segment is the fastest growing segment, during forecast period, attributable to increased demand for neuromorphic chips, and the emergence of 3D integrated circuits.

The COVID-19 pandemic helped the global dry etching equipment industry. Since dry etching is needed to grow semiconductors, its impact on semiconductor production has had a significant market impact. Furthermore, the employment of dry etching technology to produce an important component in the manufacturing of microelectronic devices, which were in high demand during the pandemic in the form of laptops, solar cells, smart phones, and so on, resulted in some good improvements throughout the pandemic. Understanding the demand drivers for dry etch end-applications would aid in determining COVID's impact on the global dry etching equipment market. The market is likely to grow faster in the next years as a result of changes brought about by the pandemic, such as increasing semiconductor demand.

The global dry etching equipment market has increased in 2021, and projections are made that the market would rise in the next five years i.e. 2022-2027 tremendously. Silicon wafers act as a substrate for microelectronic devices and are especially useful in building electronic circuits. Silicon wafer manufacturing process involves various steps, one of the most important ones is the etching process. Emergent global demand for silicon wafer market is aiding to bolster the growth of the global dry etching equipment market. Further, the market is expected to grow owing to growth of semiconductor market, rapid urbanization, increased demand for consumer electronic devices, etc. in recent years, yet the market faces some challenges such as manufacturing of machines outpaces the demand, geo political tension, etc.

Dry Etching Equipment Market: Global Analysis

Global Dry Etching Equipment Market by Value



CAGR	
2022-2027	xx%

The global dry etching equipment market valued at US$.... billion in 2021, increased as compared to US$... billion in 2020. Global dry etching equipment market is anticipated to reach up to US$... billion by 2027, at a CAGR of ….%, from US$... billion in 2022.

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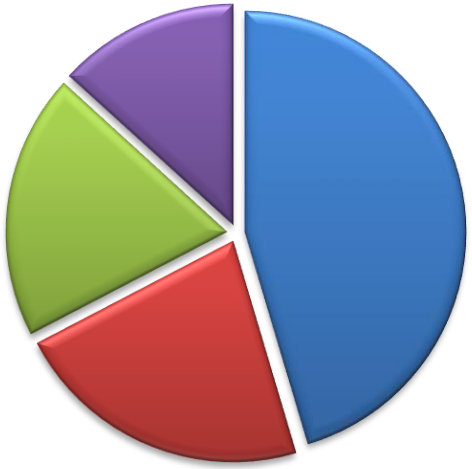
Dry Etching Equipment Market: Global Analysis

Global Dry Etching Equipment Market by Type; 2021

Type	Share
Conductor Dry Etch	xx%
Dielectric Dry Etch	xx%

Dry Etching Equipment Market: Global Analysis

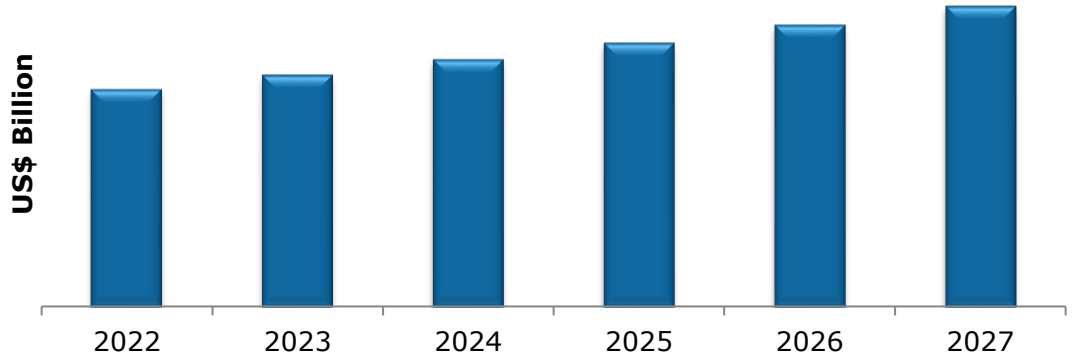
Global Dry Etching Equipment Market by Region; 2021



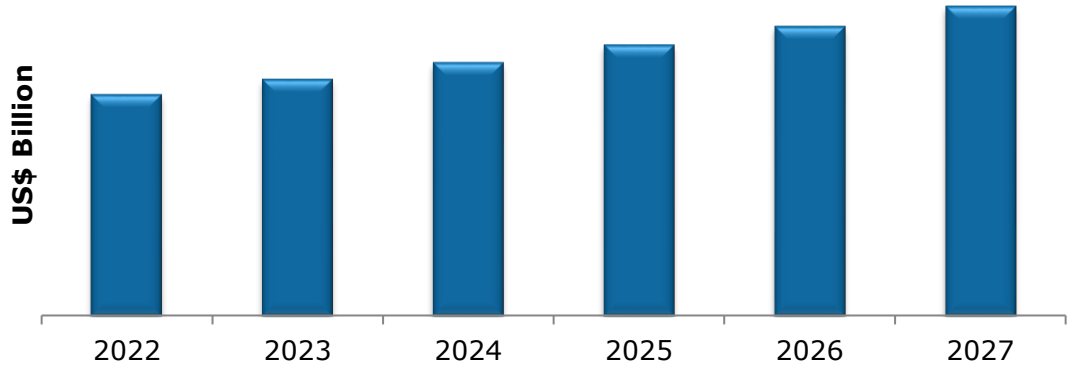
Region	Share
Asia Pacific	xx%
North America	xx%
Europe	xx%
Rest of the World	xx%

Global Dry Etching Equipment Market: Type Analysis

Global Conductor Dry Etching Equipment Market by Value



Global Dielectric Dry Etching Equipment Market by Value



Type	CAGR
	(2022-2027)
Conductor Dry Etch	xx%
Dielectric Dry Etch	xx%

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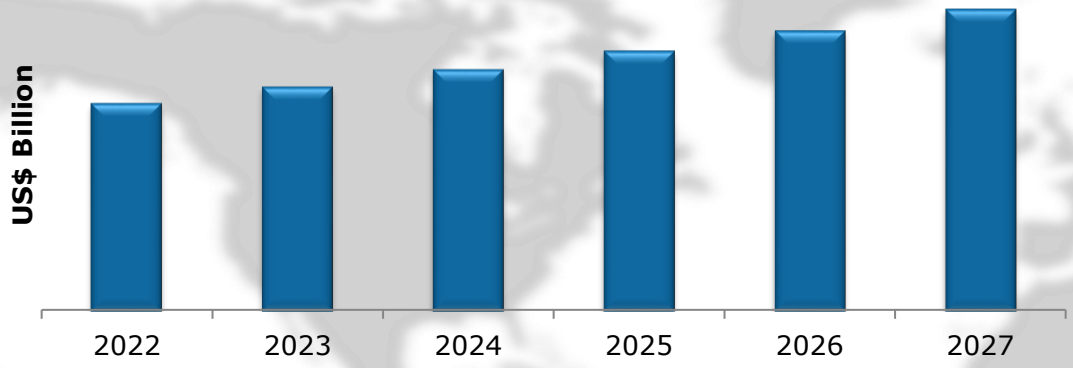
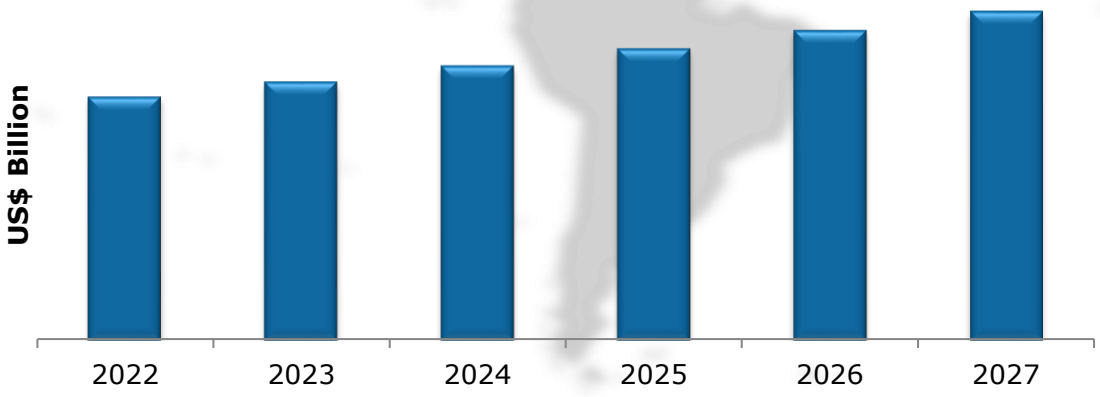
Dry Etching Equipment Market: Regional Analysis

Asia Pacific Dry Etching Equipment Market by Value



North America Dry Etching Equipment Market by Value



Region	CAGR
	(2022-2027)
Asia Pacific	xx%
North America	xx%
Europe	xx%
Rest of the World	xx%

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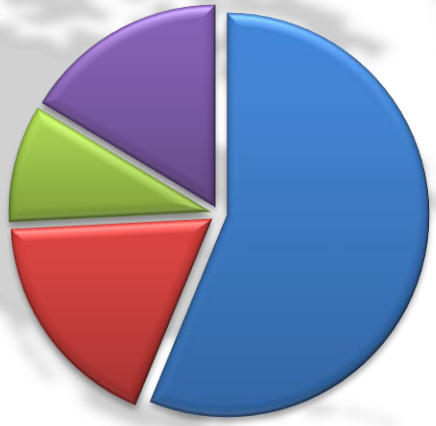
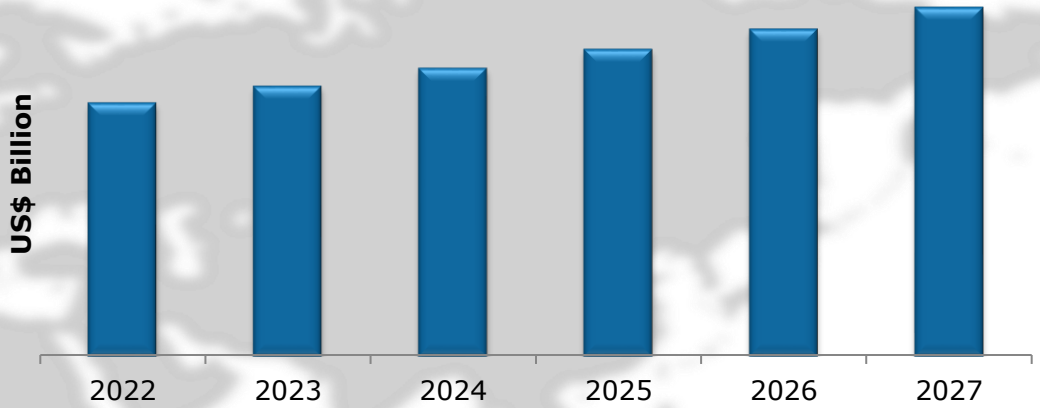
Asia Pacific Dry Etching Equipment Market: Analysis

Asia Pacific Dry Etching Equipment Market by Region; 2021



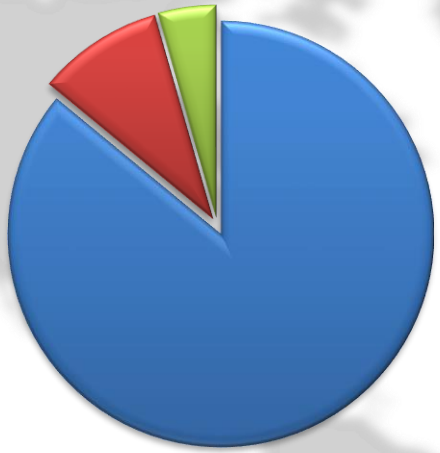
China Dry Etching Equipment Market by Value



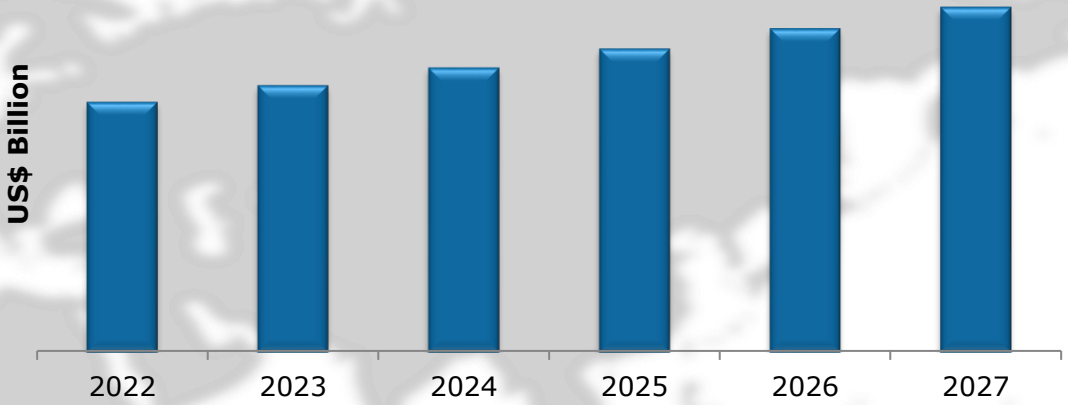
Region	Share	CAGR
		(2022-2027)
China	xx%	xx%
Japan	xx%	xx%
South Korea	xx%	xx%
Rest of Asia Pacific	xx%	xx%

North America Dry Etching Equipment Market: Analysis

North America Dry Etching Equipment Market by Region; 2021



The US Dry Etching Equipment Market by Value



Region	Share	CAGR
		(2022-2027)
The US	xx%	xx%
Canada	xx%	xx%
Mexico	xx%	xx%

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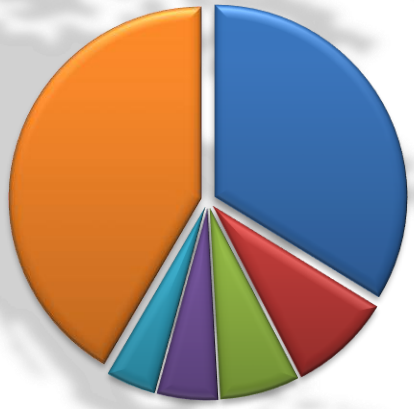
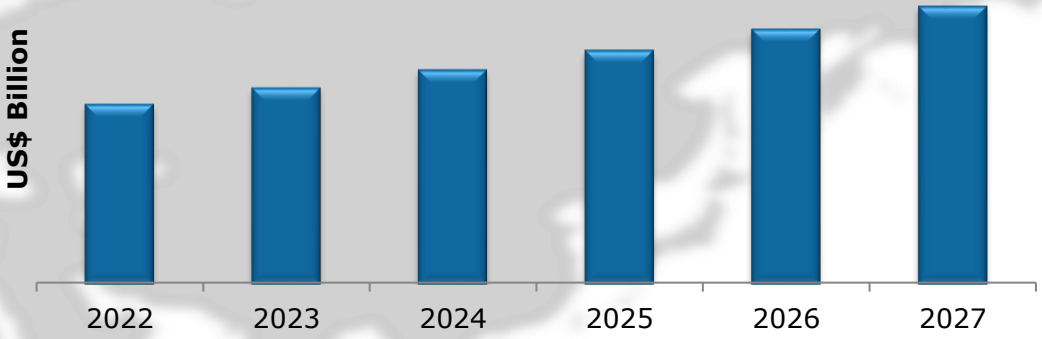
Europe Dry Etching Equipment Market: Analysis

Europe Dry Etching Equipment Market by Region; 2021



Germany Dry Etching Equipment Market by Value



Region	Share	CAGR
		(2022-2027)
Germany	xx%	xx%
Spain	xx%	xx%
UK	xx%	xx%
Italy	xx%	xx%
France	xx%	xx%
Rest of Europe	xx%	xx%

Global Dry Etching Equipment Market: Dynamics

Growth Driver

- Growth of Semiconductor Market
- Rapid Urbanization

Challenges

- Manufacturing of Machines Outpaces the Demand
- Geo Political Tension

Market Trends

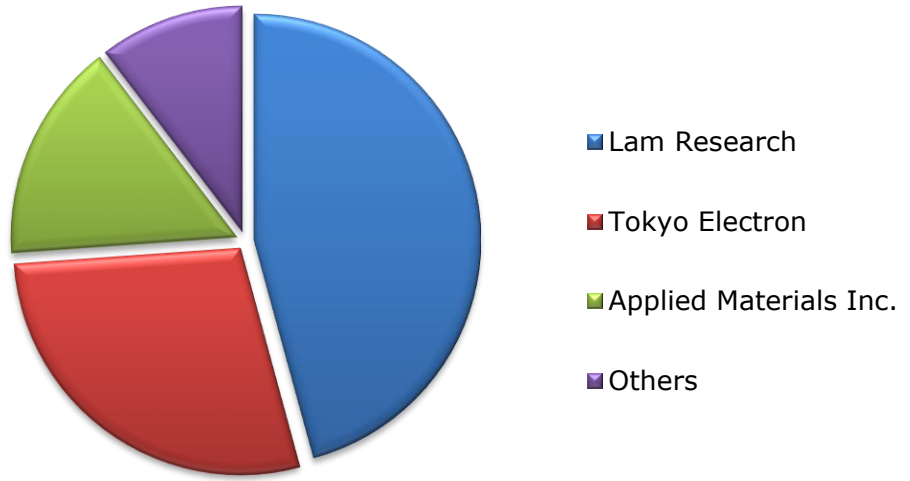
- Involvement of Artificial Intelligence
- Escalation of Internet of Things (IOT)

Global Dry Etching Equipment Market: Competitive Landscape

Players Profiled

- Lam Research Corporation,
- Tokyo Electron Limited,
- Samsung Electronics Co., Ltd. (SEMES Co Ltd.),
- Hitachi, Ltd. (Hitachi High Tech Corporation),
- Oxford Instruments PLC,
- Applied Materials Inc.,
- ULVAC Inc.,
- KLA Corporation (SPTS Technologies),
- Advanced Micro-Fabrication Equipment Inc. China,
- NAURA Technology Group Co., Ltd.,
- Giga Lane Co. Ltd.,
- Plasma-Therm,
- Samco Inc.,
- Beijing's E-Town Capital (Mattson Technology, Inc.).

Global Dry Etch Equipment Players by Market Share; 2021



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