

# Global Chemical Gas Efficient Etching System Supply, Demand and Key Producers, 2023-2029

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## Abstracts

The global Chemical Gas Efficient Etching System market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

Chemical gas efficient etching system is a device used in microelectronics manufacturing, mainly for the production, processing, and etching of fine structures. It is one of the key process equipment in the field of integrated circuit manufacturing and nanomachining. The chemical gas efficient etching system uses chemical gas, plasma, and reaction control technology to etch and process the surface of materials. Its main principle is to generate high-energy particles in gas discharge plasma, and through the action of these particles, chemical reactions and physical etching are carried out on the material surface to form the required microstructure. The system usually consists of the following components: a reaction chamber: a sealed container containing an etching area, used to place material samples to be etched. The environmental control in the reaction chamber can ensure the stability and consistency of the etching process. Gas supply system: used to provide chemical gas mixtures required for etching, such as fluoride, chloride, etc. The gas supply system also includes gas purification and filtration devices to ensure the supply of high-purity gas. Plasma source: A device that generates plasma, usually using an RF or microwave power source. The plasma source generates high-energy particles for etching the material surface by ionizing the gas. Control system: Used to monitor and control parameters of the etching process, such as gas flow rate, pressure, power, etc. The control system can adjust parameters according to specific etching requirements to achieve the desired etching effect. Chemical gas efficient etching systems play an important role in microelectronic manufacturing, which can be used to manufacture semiconductor devices, integrated circuits, optical devices, sensors, and micro/nanostructures. Its high-precision and high-efficiency etching ability

makes the preparation of fine structures more precise and controllable, meeting the demand for microelectronic devices in today's high-tech field.

This report studies the global Chemical Gas Efficient Etching System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Chemical Gas Efficient Etching System, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Chemical Gas Efficient Etching System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Chemical Gas Efficient Etching System total production and demand, 2018-2029, (Units)

Global Chemical Gas Efficient Etching System total production value, 2018-2029, (USD Million)

Global Chemical Gas Efficient Etching System production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Units)

Global Chemical Gas Efficient Etching System consumption by region & country, CAGR, 2018-2029 & (Units)

U.S. VS China: Chemical Gas Efficient Etching System domestic production, consumption, key domestic manufacturers and share

Global Chemical Gas Efficient Etching System production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Units)

Global Chemical Gas Efficient Etching System production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Units)

Global Chemical Gas Efficient Etching System production by Application production, value, CAGR, 2018-2029, (USD Million) & (Units).

This reports profiles key players in the global Chemical Gas Efficient Etching System

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 Applied Materials, Inc., Lam Research Corporation, Tokyo Electron Limited, ASML Holding N.V., KLA Corporation, Hitachi High-Technologies Corporation, SCREEN Holdings Co., Ltd., Nikon Corporation and ASM International N.V., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Chemical Gas Efficient Etching System 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 Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

#### Global Chemical Gas Efficient Etching System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

## Global Chemical Gas Efficient Etching System Market, Segmentation by Type

Dry Etching System

Wet Etching System

## Global Chemical Gas Efficient Etching System Market, Segmentation by Application

Semiconductor Industry

Optoelectronics Industry

Mems Industry

Others

## Companies Profiled:

Applied Materials, Inc.

Lam Research Corporation

Tokyo Electron Limited

ASML Holding N.V.

KLA Corporation

Hitachi High-Technologies Corporation

SCREEN Holdings Co., Ltd.

Nikon Corporation

ASM International N.V.

Veeco Instruments Inc.

SPTS Technologies Ltd.

Mattson Technology, Inc.

TEL NEXX, Inc.

Axcelis Technologies, Inc.

### Key Questions Answered

1. How big is the global Chemical Gas Efficient Etching System market?
2. What is the demand of the global Chemical Gas Efficient Etching System market?
3. What is the year over year growth of the global Chemical Gas Efficient Etching System market?
4. What is the production and production value of the global Chemical Gas Efficient Etching System market?
5. Who are the key producers in the global Chemical Gas Efficient Etching System market?
6. What are the growth factors driving the market demand?

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