

Global Chemical Gas Dry Etching Machine Supply, Demand and Key Producers, 2023-2029

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Abstracts

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

Chemical gas dry etching machine is a device used in microelectronics manufacturing for the process of chemical etching of material surfaces. Compared with traditional wet etching, chemical gas dry etching machines use gas reactions instead of liquid solutions for etching, hence they are called 'dry' etching. The working principle of a chemical gas dry etching machine is to remove parts of the material surface by exposing the material to a specific atmosphere and utilizing chemical or physical reactions. It uses specific chemical gases (such as fluoride, chloride, etc.) and plasma generation technology to etch the material surface in the form of high-energy particles. The main components of the chemical gas dry etching machine include: a reaction chamber: a sealed container providing an etching area for placing 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 the chemical gas mixture required for etching. The gas supply system usually includes a gas source, gas control valve, and gas purification device 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 dry etching machines are widely used in fields such as integrated circuit manufacturing, nanomachining, and optical device manufacturing. It has high precision, high selectivity, and high efficiency etching ability, which can achieve micron level

structure and pattern preparation. In addition, dry etching has lower pollution and corrosion risks compared to wet etching, and has better adaptability to specific materials and structures.

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

This report is a detailed and comprehensive analysis of the world market for Chemical Gas Dry Etching Machine, 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 Dry Etching Machine that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Chemical Gas Dry Etching Machine total production and demand, 2018-2029, (Units)

Global Chemical Gas Dry Etching Machine total production value, 2018-2029, (USD Million)

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

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

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

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

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

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

This reports profiles key players in the global Chemical Gas Dry Etching Machine 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 Dry Etching Machine 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 Dry Etching Machine Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Chemical Gas Dry Etching Machine Market, Segmentation by Type

Flat Chemical Gas Dry Etching Machine

Barrel Chemical Gas Dry Etching Machine

Reaction Chamber Chemical Gas Dry Etching Machine

Global Chemical Gas Dry Etching Machine Market, Segmentation by Application

Semiconductor Industry

Optoelectronics Industry

Biomedical Industry

Nano 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.

Axcelis Technologies, Inc.

Key Questions Answered

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

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