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Global Dry Cleaning and Ashing Equipment for Semiconductor Processes Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Dry Cleaning and Ashing Equipment for Semiconductor Processes market size is expected to reach $ 2098 million by 2032, rising at a market growth of 6.0% CAGR during the forecast period (2026-2032).

In 2025, the shipment volume of semiconductor dry ashing equipment reached approximately 1,530 units, with an average selling price of about 560,000 US dollars per unit. The average selling price of dry cleaning equipment was 2.8 million US dollars per unit, and the average gross profit margin of the industry was approximately 40%.Dry Cleaning and Ashing Equipment for Semiconductor Processes is core dry-process equipment for wafer fabrication and advanced packaging. It uses plasma, UV, or microwave-excited reactive gases to perform high-efficiency, non-damaging treatment on silicon and compound semiconductor wafers in a vacuum environment. It mainly completes key processes including photoresist ashing and removal, surface organic cleaning, chamber cleaning, post-implant annealing (IPA), low-? film modification, and wafer surface activation. Featuring high uniformity, low particle contamination, and precise process controllability, it is widely applied in logic chips, memory chips, power devices, and advanced packaging, meeting strict cleanliness, uniformity, and yield requirements for advanced processes at 7nm and below.

Dry Cleaning and Ashing Equipment for Semiconductor Processes is critical process equipment for wafer fabrication and advanced packaging. The industry features high technical barriers and long qualification cycles, resulting in a concentrated market structure. Driven by advanced process scaling, the rapid adoption of third-generation semiconductors and advanced packaging, demand for low-damage, high-uniformity, and high-cleanliness dry processes keeps rising. Equipment is upgrading toward high

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throughput, high compatibility, intelligence, and green production. The sector offers huge potential for domestic substitution and represents a high-growth segment in the semiconductor equipment industry.

This report studies the global Dry Cleaning and Ashing Equipment for Semiconductor Processes production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Dry Cleaning and Ashing Equipment for Semiconductor Processes 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 Dry Cleaning and Ashing Equipment for Semiconductor Processes that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Dry Cleaning and Ashing Equipment for Semiconductor Processes total production and demand, 2021-2032, (Units)

Global Dry Cleaning and Ashing Equipment for Semiconductor Processes total production value, 2021-2032, (USD Million)

Global Dry Cleaning and Ashing Equipment for Semiconductor Processes production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Dry Cleaning and Ashing Equipment for Semiconductor Processes consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Dry Cleaning and Ashing Equipment for Semiconductor Processes domestic production, consumption, key domestic manufacturers and share

Global Dry Cleaning and Ashing Equipment for Semiconductor Processes production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Dry Cleaning and Ashing Equipment for Semiconductor Processes production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

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Global Dry Cleaning and Ashing Equipment for Semiconductor Processes production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Dry Cleaning and Ashing Equipment for Semiconductor Processes 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 NAURA Technology Group Co., Ltd, Beijing E-Town Semiconductor Technology Co., LTD, Shanghai Bangxin Semi Technology Co., Ltd, Wuxi Yiwen Electronic Technology Co., Ltd, Wisdom Semiconductor Technology Co., Ltd, JET PLASMA, Dongguan SINDIN Precision Instrument Co.,Ltd, Shenzhen Naen Tech Co.,Ltd, PSK Inc, Tokyo Electron, 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 Dry Cleaning and Ashing Equipment for Semiconductor Processes market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Units) and average price (K US$/Unit) by manufacturer, by Type, 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 Dry Cleaning and Ashing Equipment for Semiconductor Processes Market, By Region:

United States

China

Europe

Japan

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South Korea

ASEAN

India

Rest of World

Global Dry Cleaning and Ashing Equipment for Semiconductor Processes Market, Segmentation by Type:

Asher

Dry Cleaning Equipment

Global Dry Cleaning and Ashing Equipment for Semiconductor Processes Market, Segmentation by Wafer Processing Mode:

Single-wafer

Batch

Cluster?

Global Dry Cleaning and Ashing Equipment for Semiconductor Processes Market, Segmentation by Application:

200mm Wafer

300mm Wafer

Others

Companies Profiled:

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NAURA Technology Group Co., Ltd

Beijing E-Town Semiconductor Technology Co., LTD

Shanghai Bangxin Semi Technology Co., Ltd

Wuxi Yiwen Electronic Technology Co., Ltd

Wisdom Semiconductor Technology Co., Ltd

JET PLASMA

Dongguan SINDIN Precision Instrument Co.,Ltd

Shenzhen Naen Tech Co.,Ltd

PSK Inc

Tokyo Electron

Canon Inc

ULVAC

Shibaura Machine Co., Ltd

Jesagi Hankook Ltd

Plasma-Therm

Trion Technology

PVA TePla America

Plasma Etch

Yield Engineering Systems

Allwin21 Corp

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Nano-Master

Alpha Plasma

Trymax

SEMES

Key Questions Answered:

1. How big is the global Dry Cleaning and Ashing Equipment for Semiconductor Processes market?
2. What is the demand of the global Dry Cleaning and Ashing Equipment for Semiconductor Processes market?
3. What is the year over year growth of the global Dry Cleaning and Ashing Equipment for Semiconductor Processes market?
4. What is the production and production value of the global Dry Cleaning and Ashing Equipment for Semiconductor Processes market?
5. Who are the key producers in the global Dry Cleaning and Ashing Equipment for Semiconductor Processes market?
6. What are the growth factors driving the market demand?

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