

# Global Spin Cleaning Equipment for Semiconductors Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Spin Cleaning Equipment for Semiconductors market size is expected to reach \$ 6721 million by 2032, rising at a market growth of 5.3% CAGR during the forecast period (2026-2032).

Spin cleaning equipment for semiconductor typically refers to specialized process equipment that performs wet chemical cleaning, rinsing, and drying of wafers using a single-wafer rotation method. It is a standard configuration for many critical front-end and back-end processes in wafer manufacturing. Its typical form is a single-wafer cleaning system, which uses high-speed rotation combined with chemical spraying, ultrapure water rinsing, and spin drying or auxiliary drying to remove particles, metal residues, and organic residues from the wafer surface, while controlling interfacial tension to prevent pattern collapse and watermarks. Before and after processes such as photolithography, etching, and deposition, the rotation combined with chemical spraying, rinsing, and spin drying achieves selective decontamination of the single-wafer surface without damaging the device structure.

In 2025, global Spin Cleaning Equipment for Semiconductors sale reached approximately 1,493 Units, with an average global market price of around 3,032 K US\$/Unit. Production capacity reached 2,000 Units, with a gross profit margin of approximately 44%.

As device structures evolve towards three-dimensionality and high aspect ratios, single-wafer rotary cleaning must simultaneously meet the requirements of stronger defect removal capabilities and gentler interfacial interactions. ACM Research demonstrated its non-destructive cleaning capabilities on fragile or complex patterned wafers using novel ultrasonic bubble oscillation technologies such as TEBO. Tokyo Electron employed low-temperature aerosol technology in ANTARES to achieve dry particle removal using only inert gases, without the need for ultrapure water and large amounts of chemicals, providing a new process window for sensitive thin films and downstream

processes. SCREEN, in its SU series, emphasized improving single-wafer cleaning performance and productivity through optimized gas-liquid interface control, reflecting the industry's iterative development around interface control, flow field design, and multiphysics coupling. Environmental and cost pressures are driving equipment manufacturers to continuously optimize chemical recovery, low-consumption formulations, and waste reduction. NAURA Technology, in its single-wafer cleaning platform, highlights the simultaneous recovery of multiple chemicals and high recovery efficiency to reduce the overall operating costs for users.

This report studies the global Spin Cleaning Equipment for Semiconductors production, demand, key manufacturers, and key regions.

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

### **Highlights and key features of the study**

Global Spin Cleaning Equipment for Semiconductors total production and demand, 2021-2032, (Units)

Global Spin Cleaning Equipment for Semiconductors total production value, 2021-2032, (USD Million)

Global Spin Cleaning Equipment for Semiconductors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Spin Cleaning Equipment for Semiconductors consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Spin Cleaning Equipment for Semiconductors domestic production, consumption, key domestic manufacturers and share

Global Spin Cleaning Equipment for Semiconductors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Spin Cleaning Equipment for Semiconductors production by Equipment Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Spin Cleaning Equipment for Semiconductors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Spin Cleaning Equipment for Semiconductors 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 Tokyo Electron, SEMES, Chemical Art Technology, TAKADA Corporation, TAZMO Co., Ltd,

DALTON Corporation, SCREEN Semiconductor Solutions, Mimasu Semiconductor (Shin-Etsu), Daikin Finetech, Ramgraber GmbH, 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 Spin Cleaning Equipment for Semiconductors 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 Equipment 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 Spin Cleaning Equipment for Semiconductors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Spin Cleaning Equipment for Semiconductors Market, Segmentation by Equipment Type:

Batch Type

Single Piece Type

Combination Type

Global Spin Cleaning Equipment for Semiconductors Market, Segmentation by Number of Chamber:

4 Chamber and Below

4-8 Chamber

Above 8 Chamber

Global Spin Cleaning Equipment for Semiconductors Market, Segmentation by Type:

Manual

Semi-automatic

Fully Automatic

Global Spin Cleaning Equipment for Semiconductors Market, Segmentation by Application:

Integrated Circuit

Advanced Packaging

Others

**Companies Profiled:**

Tokyo Electron

SEMES

Chemical Art Technology

TAKADA Corporation

TAZMO Co., Ltd

DALTON Corporation

SCREEN Semiconductor Solutions

Mimasu Semiconductor (Shin-Etsu)

Daikin Finetech

Ramgraber GmbH

Shibaura Mechatronics

Dan Science Co., Ltd

C&D Semiconductor

Lam Research

PRE-TECH Co., Ltd

AP&S International GmbH

Ultra T Equipment

PSK Inc

Semix Semiconductor

Suzhou Zhicheng Semiconductor Technology

NAURA Technology

KINGSEMI Co., Ltd

Shanghai Zhiwei Semiconductor

GKC Technology

Holding Electronics

Shanghai Zhonghong Electronic

**Key Questions Answered:**

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

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