

Global Semiconductor Parts Cleaning & Coating, and Spare Parts Refurbishment Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Semiconductor Parts Cleaning & Coating, and Spare Parts Refurbishment market size was valued at US\$ 2501 million in 2025 and is forecast to a readjusted size of US\$ 3801 million by 2032 with a CAGR of 6.2% during review period.

Semiconductor Parts Cleaning, Coating, and Spare Parts Refurbishment refers to the specialized set of services and products designed to maintain, restore, and enhance critical semiconductor manufacturing components. These include chambers, chamber walls, electrostatic chucks (ESCs), gas distributors, quartz parts, ceramic components, and metallic parts. The core processes involve parts cleaning (removing deposits and particle contamination using chemical, plasma, or physical methods), protective coating (such as Y_2O_3 , Al_2O_3 , SiC, and TiN coatings to improve resistance against plasma erosion and chemical corrosion), and refurbishment (reconditioning worn or aged components to restore their functionality close to that of new parts). The statistical scope mainly covers parts used in wafer fabrication, including front-end processes such as deposition, etching, ion implantation, and cleaning, as well as certain back-end assembly and test applications.

The major global companies of Semiconductor Parts Cleaning & Coating, and Spare Parts Refurbishment include UCT (Ultra Clean Holdings, Inc), KoMiCo, TOCALO Co., Ltd., Enpro Industries (LeanTeq and NxEdge), Mitsubishi Chemical (Cleanpart), Kurita (Pentagon Technologies), Cinos, Frontken Corporation Berhad, Ferrotec (Anhui) Technology, WONIK QnC, Shih Her Technology, Hung Jie Technology Corporation, KERTZ HIGH TECH, and Hansol IONES, etc. In 2024, the world's top ten vendors accounted for approximately 53% of the revenue.

The key players of Semiconductor Parts Cleaning include UCT (Ultra Clean Holdings, Inc) , Kurita (Pentagon Technologies) , Enpro Industries (LeanTeq and NxEdge) , TOCALO Co., Ltd. , Mitsubishi Chemical (Cleanpart) , KoMiCo, Cinos, Frontken Corporation Berhad, Ferrotec (Anhui) Technology, and Shih Her Technology, etc. In 2024, the world's top ten vendors accounted for approximately 72% of the revenue.

The key players of Semiconductor Parts Coating include UCT (Ultra Clean Holdings, Inc) , Kurita (Pentagon Technologies) , Enpro Industries (LeanTeq and NxEdge), TOCALO Co., Ltd., Mitsubishi Chemical (Cleanpart), KoMiCo and Cinos, etc. In 2024, the world's top five vendors accounted for approximately 57% of the revenue.

At present, this industry has evolved into a specialized and large-scale service sector, playing a critical role in helping semiconductor fabs reduce costs, extend component lifetimes, and ensure stable line operations. With the continuous shrinking of technology nodes, the demand for higher cleanliness, stricter particle control, and longer component durability is driving the adoption of advanced coating technologies and precision refurbishment solutions. In the future, two main development trends can be identified: technological advancement, where high-performance coatings and next-generation cleaning processes will be key differentiators; and market consolidation, where leading third-party service providers and OEM-extended service divisions are expected to capture greater market share. Additionally, as sustainability becomes a key priority across the semiconductor value chain, eco-friendly cleaning solutions and circular refurbishment practices will gain increasing importance in the industry's development.

In the upstream segment of the semiconductor parts cleaning, coating, and refurbishment industry, the supply chain primarily includes high-performance chemical reagents and cleaning solutions providers, specialty coating material suppliers, manufacturers of vacuum deposition and plasma treatment equipment, as well as precision machining tools and inspection instrument companies. Cleaning processes rely on high-purity acids, bases, solvents, and deionized water systems, while coating processes demand advanced materials with high durability, corrosion resistance, and low particle generation, such as fluoropolymer coatings, ceramic coatings, and diamond-like carbon (DLC). In addition, technology service providers that support precision cleaning and coating processes play an essential role. Since these upstream inputs directly determine the cleanliness, performance, and lifespan of semiconductor equipment parts, the requirements for material purity and process stability are extremely stringent, creating significant technical barriers. On the downstream side, the primary

customers include semiconductor fabrication plants (IDMs and foundries), outsourced assembly and test (OSAT) companies, and semiconductor equipment manufacturers that serve these fabs. As wafer sizes shift from 200mm to 300mm and beyond, and as advanced process nodes demand higher yields and tool uptime, fabs increasingly rely on specialized third-party services for parts cleaning, coating, and refurbishment to reduce maintenance costs and minimize downtime. End-use applications span across logic ICs, memory chips, and power semiconductors, all of which require continuous and reliable equipment support. Looking ahead, the expansion of advanced process capacity, the rise of compound semiconductors, and the growing installed base of semiconductor equipment will drive sustained demand, positioning parts cleaning, coating, and refurbishment as a critical enabler for capacity optimization, cost reduction, and equipment lifetime extension.

This report is a detailed and comprehensive analysis for global Semiconductor Parts Cleaning & Coating, and Spare Parts Refurbishment market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Semiconductor Parts Cleaning & Coating, and Spare Parts Refurbishment market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Semiconductor Parts Cleaning & Coating, and Spare Parts Refurbishment market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Semiconductor Parts Cleaning & Coating, and Spare Parts Refurbishment market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Semiconductor Parts Cleaning & Coating, and Spare Parts Refurbishment market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

Global Semiconductor Parts Cleaning & Coating, and Spare Parts Refurbishment Market 2026 by Company, Regions,...

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Semiconductor Parts Cleaning & Coating, and Spare Parts Refurbishment

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Semiconductor Parts Cleaning & Coating, and Spare Parts Refurbishment market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include UCT (Ultra Clean Holdings, Inc), Kurita (Pentagon Technologies), Enpro Industries (LeanTeq and NxEdge), TOCALO Co., Ltd., Mitsubishi Chemical (Cleanpart), KoMiCo, Cinos, Hansol IONES, WONIK QnC, Dftech, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

Semiconductor Parts Cleaning & Coating, and Spare Parts Refurbishment market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Semiconductor Parts Cleaning

Semiconductor Parts Coating

Semiconductor Parts Refurbishment

Market segment by Equipment Size

300mm Equipment Parts

200mm Equipment Parts

150mm and Others

Market segment by Process Node

High End / Advanced %oO%14nm

Mid End 18/22/28-90nm

Low End >110nm

Market segment by Application

Semiconductor Etching Equipment Parts

Semiconductor Deposition (CVD/PVD)

Lithography Machines

Ion Implant

Diffusion Equipment Parts

CMP Equipment Parts

Others

Market segment by players, this report covers

UCT (Ultra Clean Holdings, Inc)

Kurita (Pentagon Technologies)

Enpro Industries (LeanTeq and NxEdge)

TOCALO Co., Ltd.

Mitsubishi Chemical (Cleanpart)

KoMiCo

Cinos

Hansol IONES

WONIK QnC

Dftech

TOPWINTeCH

FEMVIX

SEWON HARDFACING CO.,LTD

Frontken Corporation Berhad

KERTZ HIGH TECH

Hung Jie Technology Corporation

Oerlikon Balzers

Beneq

APS Materials, Inc.

SilcoTek

Alumiplate

Alcadyne

ASSET Solutions, Inc.

Jiangsu Kaiweitesi Semiconductor Technology Co., Ltd.

HCUT Co., Ltd

Ferrotec (Anhui) Technology Development Co., Ltd

Shanghai Companion

Value Engineering Co., Ltd

Shih Her Technology

Chongqing Genori Technology Co., Ltd

Neutron Technology Enterprise

GRAND HITEK

HTCSolar

ULVAC TECHNO, Ltd.

Suzhou Ever Distant Technology

Entegris

Inficon

Persys Group

MSR-FSR LLC

Simple Technical Solutions Ltd (STS)

Vivid Inc.

FM Industries

EBARA

KYODO INTERNATIONAL INC.

Wuhu Xintong Semiconductor Materials

Techno Quartz Inc.

Creative Technology Corporation

TTS Co., Ltd.

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Semiconductor Parts Cleaning & Coating, and Spare Parts Refurbishment product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Semiconductor Parts Cleaning & Coating, and Spare Parts Refurbishment, with revenue, gross margin, and global market share of Semiconductor Parts Cleaning & Coating, and Spare Parts Refurbishment from 2021 to 2026.

Chapter 3, the Semiconductor Parts Cleaning & Coating, and Spare Parts Refurbishment competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Semiconductor Parts Cleaning & Coating, and Spare Parts Refurbishment market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Semiconductor Parts Cleaning & Coating, and Spare Parts Refurbishment.

Chapter 13, to describe Semiconductor Parts Cleaning & Coating, and Spare Parts Refurbishment research findings and conclusion.

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