

Global CMP Wafer Retaining Rings Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global CMP Wafer Retaining Rings market size was valued at US\$ 98 million in 2024 and is forecast to a readjusted size of USD 171 million by 2031 with a CAGR of 7.3% during review period.

The CMP retaining ring (or carrier ring) is a crucial component in CMP equipment. Its primary functions include:

1. Wafer Fixation: Ensuring that the wafer is securely positioned on the polishing table during the polishing process.
2. Uniform Pressure Distribution: Helping to distribute pressure evenly across the entire surface of the wafer to ensure consistent and high-quality polishing.
3. Edge Effect Prevention: Reducing defects caused by uneven pressure at the edges of the wafer, thereby improving the overall polishing quality.

Global key players of CMP wafer retaining rings include Willbe S&T, CALITECH, Cnus Co., Ltd., UIS Technologies, etc. Global top five manufacturers hold a share over 47%. South Korea is the largest producer of CMP wafer retaining rings holds a share over 39%. In terms of product, polyetheretherketone (peek) type is the largest segment, with a share over 80%. And in terms of application, the largest application is 300mm wafer, with a share over 76%.

Drivers:

1. Continuous Growth of the Semiconductor Industry: With the development and popularization of technologies such as 5G, Internet of Things (IoT), and Artificial Intelligence (AI), the demand for high-performance semiconductor devices is continuously increasing, thereby driving the growth of the CMP retaining ring market.

2. Technological Advancements: To meet the requirements of smaller node sizes and higher integration in chip production, manufacturers are continuously developing new technologies to improve the efficiency and quality of the CMP process. This directly promotes the demand for related components, such as retaining rings.

3. Increased Environmental Awareness: In recent years, consumers' preference for environmentally friendly products has been growing, prompting companies within the industry to place more emphasis on using sustainable materials for manufacturing components like retaining rings.

Trends:

1. Material Innovation: To adapt to increasingly stringent processing conditions and extend service life, researchers are exploring the use of new composite materials or ceramic materials to replace traditional metal materials in the manufacture of retaining rings.

2. Customized Services: Facing the diverse specific needs of different customers across various application scenarios, suppliers are beginning to offer more personalized solutions and services, such as designing specialized retaining ring products based on customer-specific requirements.

3. Intelligent Management: By utilizing IoT technology and big data analytics, it is possible to monitor and predict the maintenance of various tools, including retaining rings, during the CMP process. This helps to improve overall production efficiency while reducing operational costs.

This report is a detailed and comprehensive analysis for global CMP Wafer Retaining Rings market. Both quantitative and qualitative analyses are presented by manufacturers, 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 CMP Wafer Retaining Rings market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global CMP Wafer Retaining Rings market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global CMP Wafer Retaining Rings market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global CMP Wafer Retaining Rings market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

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

To assess the growth potential for CMP Wafer Retaining Rings

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 CMP Wafer Retaining Rings market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Willbe S&T, CALITECH, Cnus Co., Ltd., UIS Technologies, Euroshore, PTC, Inc., AKT Components Sdn Bhd, Ensinger, ARCPE, Semplastics, etc.

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

Market Segmentation

CMP Wafer Retaining Rings market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Polyphenylene Sulfide (PPS)

Polyetheretherketone (PEEK)

Polyethylene Terephthalate (PET)

Others

Market segment by Application

300mm Wafer Processing

200mm Wafer Processing

Others

Major players covered

Willbe S&T

CALITECH

Cnus Co., Ltd.

UIS Technologies

Euroshore

PTC, Inc.

AKT Components Sdn Bhd

Ensinger

ARCPE

Semplastics

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe CMP Wafer Retaining Rings product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of CMP Wafer Retaining Rings, with price, sales quantity, revenue, and global market share of CMP Wafer Retaining Rings from 2020 to 2025.

Chapter 3, the CMP Wafer Retaining Rings competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the CMP Wafer Retaining Rings breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and CMP Wafer Retaining Rings market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of CMP Wafer Retaining Rings.

Chapter 14 and 15, to describe CMP Wafer Retaining Rings sales channel, distributors, customers, research findings and conclusion.

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