

Global Wafer Edge Ring Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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Abstracts

According to our (Global Info Research) latest study, the global Wafer Edge Ring market size was valued at USD 27 million in 2022 and is forecast to a readjusted size of USD 38 million by 2029 with a CAGR of 4.8% during review period.

The edge ring can be made of a conductive material such as silicon or silicon carbide and temperature control of the edge ring can be enhanced by supplying heat transfer gas such as helium between opposed surfaces of the edge ring and the edge ring chuck.

Semiconductor manufacturing equipment is a medium tool for achieving semiconductor manufacturing processes, playing an important role in all aspects. According to SEMI, worldwide sales of semiconductor manufacturing equipment increased 5% from \$102.6 billion in 2021 to an all-time record of \$107.6 billion in 2022.

In recent years, the localization process of China's semiconductor industry has further accelerated, and the performance of semiconductor equipment is more flexible than the overall industry. The localization of semiconductor equipment is ushering in a golden wave, and domestic semiconductor equipment is facing more opportunities for verification and trial use, technical cooperation, and import substitution. For the third consecutive year, China remained the largest semiconductor equipment market in 2022 despite a 5% slowdown in the pace of investments in the region year over year, accounting for \$28.3 billion in billings.

The record high for semiconductor manufacturing equipment sales in 2022 stems from the industry's drive to add the fab capacity required to support long-term growth and

innovations in key end markets including high-performance computing and automotive. Additionally, the results reflect investments and determination across regions to avoid future semiconductor supply chain constraints like those that surfaced during the pandemic.

The Global Info Research report includes an overview of the development of the Wafer Edge Ring industry chain, the market status of RTP Process (Ceramic (SiC, AlN, etc.) Edge Ring, Quartz Wafer Edge Ring), Etching Process (Ceramic (SiC, AlN, etc.) Edge Ring, Quartz Wafer Edge Ring), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Wafer Edge Ring.

Regionally, the report analyzes the Wafer Edge Ring markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Wafer Edge Ring market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Wafer Edge Ring market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Wafer Edge Ring industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Ceramic (SiC, AlN, etc.) Edge Ring, Quartz Wafer Edge Ring).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Wafer Edge Ring market.

Regional Analysis: The report involves examining the Wafer Edge Ring market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour

to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Wafer Edge Ring market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Wafer Edge Ring:

Company Analysis: Report covers individual Wafer Edge Ring manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Wafer Edge Ring. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (RTP Process, Etching Process).

Technology Analysis: Report covers specific technologies relevant to Wafer Edge Ring. It assesses the current state, advancements, and potential future developments in Wafer Edge Ring areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Wafer Edge Ring market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Wafer Edge Ring market is split by Type and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Ceramic (SiC, AlN, etc.) Edge Ring

Quartz Wafer Edge Ring

Metal Wafer Edge Ring

PI (Polyimide) Edge Ring

CFRP Composites Edge Ring

Plastic (PEEK/PPS) Edge Ring

Market segment by Application

RTP Process

Etching Process

Mocvd Process

PVD Process

Others

Major players covered

Tokai

Carbon

EPP

CoorsTek

SK enpulse

Schunk Xycarb Technology

3M

Engis Corporation

Shen-Yueh Technology

Greene Tweed

CALITECH

Top Seiko Co., Ltd.

Ensinger Grou

Sprint Precision Technologies Co., Ltd

KFMI

HCAT

KALLAX Company

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 Wafer Edge Ring product scope, market overview, market

estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Wafer Edge Ring, with price, sales, revenue and global market share of Wafer Edge Ring from 2018 to 2023.

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

Chapter 4, the Wafer Edge Ring breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

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 2017 to 2022. and Wafer Edge Ring market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends, Porters Five Forces analysis, and Influence of COVID-19 and Russia-Ukraine War.

Chapter 13, the key raw materials and key suppliers, and industry chain of Wafer Edge Ring.

Chapter 14 and 15, to describe Wafer Edge Ring sales channel, distributors, customers, research findings and conclusion.

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