

Global Silicon Ring Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Silicon Ring market size was valued at USD 341.2 million in 2023 and is forecast to a readjusted size of USD 736.9 million by 2030 with a CAGR of 11.6% during review period.

Silicon rings for etching are mainly used on 8-12 inches (i.e., 200mm-300mm) plasma etcher. In the manufacturing process of integrated circuits, high-purity silicon components and wafers are made of silicon, which makes the electrical properties of etching more uniform, so silicon rings are widely used in semiconductor etchers. The periodic consumption of silicon ring products has become an important consumable component in the wafer processing process, which directly affects the electrical properties of the wafer. The main technical requirements of the silicon ring include electrical parameters (i.e., conductivity type, resistivity, and radial resistivity change), geometric size, crystallographic orientation, and degree of deviation from crystallographic orientation, oxygen content, carbon content, crystal defects, surface quality, surface roughness.

Global main manufacturers of silicon ring include Silfex, Hana Silicon and CoorsTek, etc. The top three players hold a share about 65%. South Korea is the largest producer, holds a share around 29%, followed by North America and China, with share 28% and 20%, separately. The largest market is Asia-Pacific, has a share about 68%, followed by North America and Europe, with around 21% and 8% market share respectively.

The Global Info Research report includes an overview of the development of the Silicon Ring industry chain, the market status of RF and Power Semiconductors (8 Inches, 12 Inches), Logic IC and Storage IC (8 Inches, 12 Inches), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent,

hot applications and market trends of Silicon Ring.

Regionally, the report analyzes the Silicon 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 Silicon Ring market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Silicon 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 Silicon 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 Diameter (e.g., 8 Inches, 12 Inches).

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 Silicon Ring market.

Regional Analysis: The report involves examining the Silicon 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 Silicon 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 Silicon Ring:

Company Analysis: Report covers individual Silicon 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 Silicon Ring. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (RF and Power Semiconductors, Logic IC and Storage IC).

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

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Silicon 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

Silicon Ring market is split by Diameter and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Diameter, and by Application in terms of volume and value.

Market segment by Diameter

8 Inches

12 Inches

Others

Market segment by Application

RF and Power Semiconductors

Logic IC and Storage IC

Others

Major players covered

Silfex

Hana Silicon

CoorsTek

Thinkon Semiconductor

Worldex Industry & Trading

Grimm Semiconductor

Mitsubishi Materials

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 Silicon Ring product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Silicon Ring, with price, sales, revenue and global market share of Silicon Ring from 2019 to 2024.

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

Chapter 4, the Silicon Ring breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Diameter and application, with sales market share and growth rate by diameter, application, from 2019 to 2030.

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 2023. and Silicon Ring market forecast, by regions, diameter and application, with sales and revenue, from 2025 to 2030.

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 Silicon Ring.

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

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