

Global Quartz Ring for Etching Process Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Quartz Ring for Etching Process market size is expected to reach \$ 438 million by 2032, rising at a market growth of 8.3% CAGR during the forecast period (2026-2032).

Quartz rings for etching processes are key process components used in semiconductor manufacturing, microelectronics processing, and optical device fabrication. Made of high-purity quartz, they are primarily used in various etching equipment and reaction chambers to ensure process stability and precision. In 2024, global production of quartz rings for etching processes reached 429,400 units, with an average selling price of \$513.32 per unit.

Quartz rings are mainly used in semiconductor silicon wafer etching and other processes. They have very high requirements for dimensional accuracy, cleanliness, appearance, etc. Some products are not allowed to be repaired and must be formed in one go. All have high requirements for processing capabilities. Etching is the process of removing unnecessary materials attached to the surface of the wafer by chemical or physical methods. Quartz products used in etching processes mainly include quartz rings and quartz protective covers. As the process technology is reduced, the number of etching processes in the wafer processing process gradually increases. According to SEMI statistics, the 65nm process requires about 20 etchings, and the 5nm process requires up to 160 etchings. As the number of etchings increases, the consumption of quartz products such as quartz rings will increase, driving the growth of demand for high-purity quartz materials.

This report studies the global Quartz Ring for Etching Process production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Quartz Ring for Etching Process 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 Quartz Ring for Etching Process that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Quartz Ring for Etching Process total production and demand, 2021-2032, (K Units)

Global Quartz Ring for Etching Process total production value, 2021-2032, (USD Million)

Global Quartz Ring for Etching Process production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Quartz Ring for Etching Process consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Quartz Ring for Etching Process domestic production, consumption, key domestic manufacturers and share

Global Quartz Ring for Etching Process production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Quartz Ring for Etching Process production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Quartz Ring for Etching Process production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Quartz Ring for Etching Process 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 WONIK QnC, Young Shin Quartz, Kumkang Quartz, BC&C, WORLDEX, Tosoh Quartz Corporation, Ferrotec, MARUWA, DG Technologies, Heraeus Covantics, 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 Quartz Ring for Etching Process market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by 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 Quartz Ring for Etching Process Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Quartz Ring for Etching Process Market, Segmentation by Type:

150mm (6 Inches)

200mm (8 Inches)

300mm (12 Inches)

Others

Global Quartz Ring for Etching Process Market, Segmentation by Application:

Semiconductor Equipment Manufacturers

Wafer Manufacturers

Companies Profiled:

WONIK QnC

Young Shin Quartz

Kumkang Quartz

BC&C

WORLDEX

Tosoh Quartz Corporation

Ferrotec

MARUWA

DG Technologies

Heraeus Covantics

Ustron

Techno Quartz

Hanntek

Ningbo Yunde

Shanghai QH Quartz

Genori

Key Questions Answered:

1. How big is the global Quartz Ring for Etching Process market?
2. What is the demand of the global Quartz Ring for Etching Process market?
3. What is the year over year growth of the global Quartz Ring for Etching Process market?
4. What is the production and production value of the global Quartz Ring for Etching Process market?
5. Who are the key producers in the global Quartz Ring for Etching Process market?
6. What are the growth factors driving the market demand?

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