

# Global Semiconductor Etching Quartz Ring Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Semiconductor Etching Quartz Ring market size is expected to reach \$ 429 million by 2032, rising at a market growth of 8.1% CAGR during the forecast period (2026-2032).

In 2025, the global production volume of semiconductor etching quartz rings is projected to reach 482,900 units, with an average selling price of \$507 per unit. The global annual production capacity for semiconductor etching quartz rings stands at approximately 675,000 units, with a gross margin of approximately 28.4%. A semiconductor etching quartz ring is a high-purity quartz component utilized within plasma dry etching equipment; it is typically installed at the focusing ring or edge ring positions along the periphery of a wafer. It is directly exposed to the plasma environment. Upstream raw materials for semiconductor etching quartz rings include high-purity quartz sand, silicon tetrachloride, and various auxiliary materials. The midstream segment consists of semiconductor etching quartz ring manufacturers, while the downstream market primarily comprises semiconductor equipment manufacturers and wafer fabrication plants.

The market for semiconductor etching quartz rings is currently characterized by a coexistence of high technological concentration and the accelerating advancement of domestic substitution. On a global scale, this market has long been dominated by Japanese and U.S. enterprises; these leading manufacturers have established deep 'moats' in areas such as high-purity quartz material processing, precision machining, surface treatment techniques, and customer certification, with their products having gained widespread entry into the etching equipment supply chains of major international wafer fabs. As advanced manufacturing processes impose increasingly stringent requirements on etching uniformity, particle control, and component longevity, the

barriers to entry for the design and manufacturing of quartz rings have risen even further. In the domestic market, driven by policies aimed at achieving independent control over the semiconductor supply chain, a cohort of local quartz processing enterprises is rapidly making breakthroughs in critical technologies—such as large-scale precision molding and low-defect surface treatment—and is gradually securing certification from select domestic wafer fabs to commence small-batch deliveries. However, a certain gap still persists between domestic capabilities and advanced international standards within the high-end product segment; consequently, the overall market landscape is currently undergoing a pivotal transition from heavy reliance on imports toward domestic substitution.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Semiconductor Etching Quartz Ring 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 Semiconductor Etching Quartz Ring 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 Semiconductor Etching Quartz Ring Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Semiconductor Etching Quartz Ring Market, Segmentation by Type:

150mm (6 Inches)

200mm (8 Inches)

300mm (12 Inches)

Others

### Global Semiconductor Etching Quartz Ring Market, Segmentation by Material:

Natural Quartz Ring

Synthetic Quartz Ring

### Global Semiconductor Etching Quartz Ring Market, Segmentation by Processing Method:

Standard Processing

High-Precision Processing

### Global Semiconductor Etching Quartz Ring 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

GL Sciences

Hanntek

Ningbo Yunde

Shanghai QH Quartz

Genori

#### Key Questions Answered:

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

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