

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

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Abstracts

The global Quartz Ring for Plasma Etching Processes 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 quartz rings used in plasma etching processes is projected to reach 482,900 units, with an average selling price of \$507 per unit. The global annual production capacity for these quartz rings stands at approximately 675,000 units, with a gross margin of approximately 28.4%. Quartz rings are critical components within semiconductor dry etching equipment, typically installed as part of the focus ring or edge ring assemblies within the etching chamber. Fabricated from high-purity fused quartz, these rings exhibit excellent resistance to plasma bombardment, high-temperature stability, and chemical inertness. Their primary functions include confining and focusing the plasma distribution to enhance etching uniformity, protecting the inner walls of the chamber from erosion, and supporting the wafer edge to facilitate process control. In the manufacturing of advanced logic chips and memory devices, quartz rings directly influence the consistency of etching rates, critical dimension accuracy, and levels of particulate contamination; consequently, there are extremely stringent requirements regarding the purity, dimensional precision, and service life of the materials used. The upstream raw materials for plasma etching quartz rings include high-purity quartz sand, silicon tetrachloride, and various auxiliary materials. The midstream segment consists of the manufacturers of these quartz rings, while the downstream market primarily comprises semiconductor equipment manufacturers and wafer fabrication plants.

Quartz rings, serving as critical consumables in plasma etching processes within semiconductor manufacturing, currently face a highly concentrated competitive

landscape dominated by a select few companies from Japan and the United States. These leading manufacturers have cultivated profound advantages regarding raw material purity, processing precision, and regulatory certification barriers. As advanced manufacturing processes impose increasingly stringent requirements on etching uniformity and particle control, market demand for high-purity, high-uniformity, and large-format quartz rings is steadily rising. Concurrently, domestic quartz processing enterprises are accelerating technological breakthroughs and capacity expansion to drive the localization of supply; however, they generally remain in a 'catching-up' phase, with existing gaps compared to international industry leaders in terms of high-end product certification and operational stability.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Quartz Ring for Plasma Etching Processes 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, CoorsTek, 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 Plasma Etching Processes 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 Plasma Etching Processes Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Quartz Ring for Plasma Etching Processes Market, Segmentation by Type:

150mm (6 Inches)

200mm (8 Inches)

300mm (12 Inches)

Others

Global Quartz Ring for Plasma Etching Processes Market, Segmentation by Material:

Natural Quartz Ring

Synthetic Quartz Ring

Global Quartz Ring for Plasma Etching Processes Market, Segmentation by Processing Method:

Standard Processing

High-Precision Processing

Global Quartz Ring for Plasma Etching Processes 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

CoorsTek

Ustron

GL Sciences

Hanntek

Ningbo Yunde

Shanghai QH Quartz

Genori

Key Questions Answered:

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

market?

6. What are the growth factors driving the market demand?

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