

Global 12-inch Wafer Edge Etcher Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G0D00A688147EN.html>

Date: April 2026

Pages: 93

Price: US\$ 3,480.00 (Single User License)

ID: G0D00A688147EN

Abstracts

According to our (Global Info Research) latest study, the global 12-inch Wafer Edge Etcher market size was valued at US\$ 499 million in 2025 and is forecast to a readjusted size of US\$ 913 million by 2032 with a CAGR of 9.0% during review period.

In 2025, global production capacity for 12-inch wafer edge etchers was approximately 1,320 systems, with actual shipments around 835 units. The average selling price was about USD 580,000 per tool. Gross margins typically ranged from 30% to 48%, supported by process control, gas chemistry optimization, and equipment uptime reliability. A 12-inch wafer edge etcher is a specialized etching tool designed to process the edge and backside regions of 300 mm (12?) silicon wafers. It removes residual edge beads, slurry particles, native oxide or other contaminants that can impact subsequent lithography, alignment, handling or yield. Techniques include non-contact plasma etching, focused ion or radical flux control optimized for edge geometry without damaging the active device area.

Upstream components include RF power supplies, edge plasma sources, vacuum chambers, wafer handling interfaces, endpoint detection and process monitoring sensors, and gas delivery subsystems. Midstream integration focuses on edge plasma uniformity design, low-damage etch chemistries, automated wafer transfer, and recipe development for various materials. Downstream customers include IDM fabs, foundries, MEMS manufacturers, and advanced packaging lines where edge cleanliness is critical to yield and defect density.

The 12-inch wafer edge etcher market is growing as semiconductor fabs emphasize yield enhancement and defect reduction. Edge and backside contaminants can interfere

with lithography and handling, making edge etch tools essential in front-end and back-end process flows, especially at advanced nodes. Compared with general etchers, edge etchers require tailored plasma sources and wafer handling to avoid damage to active regions. Adoption is rising in logic, memory and advanced packaging lines where edge cleanliness directly impacts device performance. While less capital-intensive than core etchers, edge etchers maintain steady demand with replacement cycles tied to fab expansions and node migrations. Overall, this is a specialized but resilient segment with moderate pricing and technology-driven differentiation.

This report is a detailed and comprehensive analysis for global 12-inch Wafer Edge Etcher market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global 12-inch Wafer Edge Etcher market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global 12-inch Wafer Edge Etcher market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global 12-inch Wafer Edge Etcher market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global 12-inch Wafer Edge Etcher market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for 12-inch Wafer Edge Etcher
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global 12-inch Wafer Edge Etcher market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Applied Materials, Lam Research, Tokyo Electron, SCREEN Semiconductor Solutions, Hitachi High-Tech, PSK Inc., SEMES, NAURA, AMEC, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

12-inch Wafer Edge Etcher market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Plasma Wafer Edge Etchers

Dry Chemical Wafer Edge Etchers

Market segment by Target Film Type

Silicon Edge Etchers

Dielectric Edge Etchers

Metal Edge Etchers

Others

Market segment by Application

logic Device

Memory Device

Power Device

Others

Major players covered

Applied Materials

Lam Research

Tokyo Electron

SCREEN Semiconductor Solutions

Hitachi High-Tech

PSK Inc.

SEMES

NAURA

AMEC

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 12-inch Wafer Edge Etcher product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 12-inch Wafer Edge Etcher, with price, sales quantity, revenue, and global market share of 12-inch Wafer Edge Etcher from 2021 to 2026.

Chapter 3, the 12-inch Wafer Edge Etcher competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 12-inch Wafer Edge Etcher breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

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 2021 to 2026. and 12-inch Wafer Edge Etcher market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 12-inch Wafer Edge Etcher.

Chapter 14 and 15, to describe 12-inch Wafer Edge Etcher sales channel, distributors, customers, research findings and conclusion.

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