

Global High-NA EUV Mask Pellicle Frame Assembly Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global High-NA EUV Mask Pellicle Frame Assembly market size was valued at US\$ 185 million in 2025 and is forecast to a readjusted size of US\$ 1110 million by 2032 with a CAGR of 29.1% during review period.

In 2025, global High-NA EUV Mask Pellicle Frame Assembly production reached approximately 1,047 sets, with an average global market price of around USD 172,000 per set.

The gross profit margin of major companies in the industry is between 38.64%?64.58%.

In 2025, the global production capacity of High-NA EUV Mask Pellicle Frame Assembly was approximately 1,377 sets.

High-NA EUV Mask Pellicle Frame Assembly is a precision frame and support assembly used to mount and protect pellicles for high numerical aperture extreme ultraviolet lithography masks. It must provide dimensional stability, ultra-low contamination, thermal compatibility and mechanical reliability under EUV exposure and vacuum conditions. The product supports advanced semiconductor mask protection for leading-edge chip manufacturing. The market includes frame assemblies and precision support structures for High-NA EUV pellicles, but excludes complete photomasks, pellicle membranes alone and standard deep ultraviolet pellicle frames.

The industry chain includes precision metals, ceramic materials, ultra-clean coatings, bonding materials, microfabrication components, metrology tools, cleanroom

consumables and vacuum-compatible packaging. Midstream production covers precision machining, surface treatment, cleaning, bonding, dimensional inspection, particle control, thermal testing and cleanroom packaging. Downstream demand comes from advanced lithography mask shops, semiconductor fabs, EUV process development and leading-edge logic or memory manufacturing. Growth is driven by High-NA EUV adoption, tighter defect control, smaller process nodes and demand for highly reliable mask protection.

This report is a detailed and comprehensive analysis for global High-NA EUV Mask Pellicle Frame Assembly 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 High-NA EUV Mask Pellicle Frame Assembly market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global High-NA EUV Mask Pellicle Frame Assembly market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global High-NA EUV Mask Pellicle Frame Assembly market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global High-NA EUV Mask Pellicle Frame Assembly market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (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 High-NA EUV Mask Pellicle Frame Assembly

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 High-NA EUV Mask Pellicle Frame Assembly 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 ASML, Carl Zeiss SMT, HOYA Corporation, Toppan, FUJIFILM Corporation, AGC Inc., Entegris, S&S MicroTec, DuPont, 3M, etc.

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

Market Segmentation

High-NA EUV Mask Pellicle Frame Assembly 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

Silicon Frame Assemblies

Metal Alloy Frame Assemblies

Ceramic Composite Frame Assemblies

Market segment by Assembly Structure

Adhesive Bonded Frame Assemblies

Mechanical Clamping Frame Assemblies

Integrated Pellicle-Frame Assemblies

Market segment by Frame Height

Low Profile??2 mm?

Medium Profile?2.1?4 mm?

High Profile??4 mm?

Market segment by Application

High-NA EUV Logic Chip Manufacturing

High-NA EUV Memory Chip Manufacturing

Advanced Foundry Process Development

Other

Major players covered

ASML

Carl Zeiss SMT

HOYA Corporation

Toppan

FUJIFILM Corporation

AGC Inc.

Entegris

S?SS MicroTec

DuPont

3M

Canatu

Shenzhen Qingyi Photomask

Hubei Dinglong

Jiangsu Pacific Quartz

Beijing NMC Coating Technology

Shanghai Simgui Technology

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 High-NA EUV Mask Pellicle Frame Assembly product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of High-NA EUV Mask Pellicle Frame Assembly, with price, sales quantity, revenue, and global market share of High-

NA EUV Mask Pellicle Frame Assembly from 2021 to 2026.

Chapter 3, the High-NA EUV Mask Pellicle Frame Assembly competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the High-NA EUV Mask Pellicle Frame Assembly 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 High-NA EUV Mask Pellicle Frame Assembly 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 High-NA EUV Mask Pellicle Frame Assembly.

Chapter 14 and 15, to describe High-NA EUV Mask Pellicle Frame Assembly sales channel, distributors, customers, research findings and conclusion.

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