

# Semiconductor Stepper Systems Market New Business Opportunities is Expected to Hit a CAGR of 9.5% by 2031

*Rapid technological developments and growing demand for electronic devices are the upcoming trends in the semiconductor stepper systems market in the world.*

WILMINGTON, DELAWARE, March 5, 2024 /EINPresswire.com/ -- Rise in demand for

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Micro-Electro-Mechanical System (MEMS) is the leading application of Semiconductor Stepper Systems Market.

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semiconductor stepper systems from end use industries such as automotive, medical, robotics, communication, consumer electronics, and others drive the growth of the global [semiconductor stepper systems market](#). Furthermore, the gradual increasing adoption of AI-enabled chips connected devices across the globe is anticipated to positively affect the semiconductor stepper systems market growth.

Moreover, major businesses in the semiconductor stepper

systems market offer a wide range of products, to meet customers' needs. They constantly innovate their offerings and expand their business by employing development strategies such as business expansion, product launch, and collaboration, which is presenting new opportunities in the coming years.

According to the report, the global semiconductor stepper systems industry generated \$18.2 billion in 2021, and is anticipated to generate \$45.0 billion by 2031, witnessing a CAGR of 9.5% from 2022 to 2031.

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Commonly the different types of semiconductor stepper systems available in the market are extreme ultraviolet (EUV), and deep ultraviolet (DUV). Out of these, the deep ultraviolet (DUV) segment accounted for the highest market share in 2021, owing to its relatively cheaper price, and vast usability. Further, the micro-electro-mechanical system (MEMS) segment under the application registered a higher revenue in 2021, owing to its wide-scale adoption.

In addition, the market is analyzed between the OEMs, and aftermarket businesses of

semiconductor stepper systems. The market is mainly driven by the growing market for semiconductor manufacturing, an increase in technological innovation in the electronics industry, and the rising adoption of steppers in the photolithography process. However, the high cost of semiconductor manufacturing equipment constraints the semiconductor stepper systems market growth.

Various businesses in the semiconductor stepper systems market had to stop their business in countries such as Canada, the U.S., China, and countries in Europe, during the pandemic lockdown. This break directly impacted the sales of companies involved in semiconductor stepper systems manufacturing. In addition, the lack of manpower and raw materials constricted the supply of raw materials for manufacturing various semiconductor stepper systems equipment; and negatively influenced the growth of the market for a short period. In addition, the shortage of raw materials also LED to the global shortage of semiconductors.

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The Deep ultraviolet (DUV) segment to maintain its leadership status throughout the forecast period

Based on product type, the Deep ultraviolet (DUV) segment held the highest market share in 2021, accounting for more than four-fifths of the global semiconductor stepper systems market, and is estimated to maintain its leadership status throughout the forecast period. It is extensively used for the production of chips with node sizes of 90, 65, 45, and 28 nanometers, making it ideal for the production of chips where extremely small node size is not an essential requirement. However, the Extreme ultraviolet (EUV) segment is projected to manifest the highest CAGR of 10.3% from 2022 to 2031. EUV is a relatively recent development in the semiconductor manufacturing industry. It can easily suffice the requirements for high volume manufacturing (HVM) of chips to the 7nm scale and even lower. EUV is considered to be a highly strategic machine to achieve dominance in the semiconductor manufacturing industry.

The OEM segment to maintain its leadership status throughout the forecast period

Based on business, the OEM segment held the highest market share in 2021, holding around three-fourths of the global semiconductor stepper systems market, and is estimated to maintain its leadership status throughout the forecast period. OEMs are typically known for their high-quality equipment, be it the entirely assembled semiconductor stepper systems or its spare parts. However, the aftermarket segment is projected to manifest the highest CAGR of 10.0% from 2022 to 2031. Aftermarket parts and services are known for their cheap prices, typically at an acceptable lower quality. Typically, aftermarket companies manufacture non-critical support devices and parts, such as monitoring systems, motors, and other electronic and mechanical systems.

The Micro-Electro-Mechanical System (MEMS) segment to maintain its lead position during the

forecast period

Based on application, the Micro-Electro-Mechanical System (MEMS) segment accounted for the largest share in 2021, contributing to nearly three-fifths of the global semiconductor stepper systems market, and is projected to maintain its lead position during the forecast period. Sensors and actuators are one of the primary building blocks of modern machinery, they are used in a variety of applications like controlling and handling equipment, such as automotive, industrial machinery, robots, AI systems, and others, which drives the segment. However, the advanced packaging segment is expected to portray the largest CAGR of 10.8% from 2022 to 2031. Companies offer a wide range of semiconductor stepper systems for advanced packaging, which boosts the segment

Asia-Pacific to maintain its dominance by 2031

Based on region, Asia-Pacific held the highest market share in terms of revenue in 2021, accounting for more than four-fifths of the global semiconductor stepper systems market, and is likely to dominate the market during the forecast period. This region is expected to witness the fastest CAGR of 9.8% from 2022 to 2031. The high concentration of semiconductor manufacturers is expected to drive the demand for semiconductor stepper systems in Asia-Pacific.

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## Competition Analysis

Key companies profiled in the semiconductor stepper systems market report include ASML Holdings N.V., Canon Inc., Carl Zeiss AG, JEOL Ltd., Nikon Corporation, Onto Innovation, Inc, S-Cubed, SUSS MicroTec SE, Veeco Instruments Inc., and Vistec Electron Beam GmbH.

David Correa

Allied Market Research

+1 5038946022

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