

Semiconductor Assembly Equipment Market Changing Market Trends with Potential Business Growth at a CAGR of 8.4% by 2030

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NEW CASTLE, DE, UNITED STATES, January 16, 2025 /EINPresswire.com/ -- [Semiconductor assembly equipment](#) refers to the machinery and tools used in the process of assembling individual semiconductor components into a complete integrated circuit (IC) or chip. This assembly process is a crucial step in semiconductor manufacturing, as it transforms individual components into functional electronic devices.

The semiconductor assembly equipment are utilized to manufacture semiconductor chips and hybrid. The semiconductor business is broad with a diverse set of uses. Semiconductor manufacturing equipment is a critical component in the assembly and fabrication of semiconductors. Manufacturing semiconductors is a time-consuming procedure that necessitates a high-quality fabrication facility. Diffusion system, ion production equipment, physical vapor and deposition systems are all examples of semiconductor assembly equipment.

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The global semiconductor assembly equipment market size was valued at \$3,599.8 million in 2020, and is projected to reach \$8,162.3 million by 2030, registering a CAGR of 8.4% from 2021 to 2030.

Technological advancements in UV lithography equipment will provide significant semiconductor assembly equipment market growth. EUV is a chip manufacturing technique that employs a spectrum of ultraviolet wavelengths. As a result, manufacturers are using EUV machines to assemble semiconductors. For example, ASML announced in February 2019 that it had delivered 18 high-end lithography equipment to Taiwan Semiconductor Manufacturing Company for \$2.16 billion. Technical developments, such as the utilization of plasma laser as a light source in EUV lithography device to create high-quality wavelengths, are always available to companies. This will help foundry operators save money on maintenance and operations.

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Top Players:

Key companies profiled in the semiconductor assembly equipment market report include AlsilMaterial, Applied Materials Inc., ASML Holdings N.V., Intel Corporation, Micron Technology Inc., Qualcomm Technologies, Inc., Samsung Group, Screen Holdings Co., Ltd., Teradyne Inc., Tokyo Electron Limited.

The semiconductor assembly equipment industry continuously evolves to meet the demands of Moore's Law, which drives the need for smaller, more powerful, and more complex electronic devices. Additionally, advancements in automation, precision, and process control play significant roles in improving the overall efficiency of semiconductor assembly.

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