

# Semiconductor Plant Construction Market Set to Reach \$54.71 Billion by 2029

*The Business Research Company's  
Semiconductor Plant Construction Global  
Market Report 2025 – Market Size,  
Trends, And Global Forecast 2025-2034*

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Semiconductor Plant Construction Global Market  
Report 2025

What Is The Expected Cagr For The [Semiconductor Plant Construction Market](#) Through 2025?

Over the past few years, the size of the semiconductor plant construction market has seen significant growth. The prediction is for an increase from \$37.64 billion in 2024 to \$40.68 billion in 2025. This translates to a compound annual growth rate (CAGR) of 8.1%. The historical growth is attributed to such elements as the escalating demand for consumer electronics, the increasing need for sophisticated automotive electronics, a growing allotment for 5g infrastructure, rising government subsidies and incentives, and the heightened demand for data centers and cloud computing.

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The market size of semiconductor plant construction is

predicted to experience robust growth in the coming years, with projections estimated at \$54.71 billion by 2029 and a compound annual growth rate (CAGR) of 7.7%. The growth during the forecast period can be credited to a heightened focus on the resilience and localization of supply chains, a growing transition towards green and energy-efficient electronics, an increased global trend towards digitalization across various sectors, an expanding use of wearable technology and medical devices, and a rising demand for memory and storage devices. Notable trends for this period include progress in chip manufacturing technologies, advances in multifaceted integration and chiplet design, innovation in semiconductor materials, the technology-driven reduction in size of electronic components, and improvements in cleanroom and contamination

containment technologies.

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What Are The Key Factors Driving Growth In The Semiconductor Plant Construction Market?

A surge in the demand for consumer electronics is predicted to stimulate the expansion of the semiconductor plant construction industry in the future. Consumer electronics are electronic devices intended for regular use by individuals, including smartphones, laptops, televisions, and household appliances. The escalating demand for these devices is primarily fueled by rising disposable incomes, allowing consumers to invest more in electronic devices such as smartphones and laptops that enhance their lifestyle and provide them with increased connectivity. The construction of semiconductor plants promotes the development of consumer electronics by ensuring a constant supply of advanced chips required for devices like smartphones, laptops, and smart home appliances. As an example, the Japan Electronics and Information Technology Industries Association, located in Japan, reported in May 2023 that the production of electronic equipment in Japan reached 771,457 million yen (approximately \$5.6 billion), with the output of consumer electronics escalating to 32,099 million yen (approximately \$233 million), a rise from 25,268 million yen (\$183 million) in May 2022. Thus, the burgeoning demand for consumer electronics is bolstering the growth of the semiconductor plant construction industry.

What Are The Top Players Operating In The Semiconductor Plant Construction Market?

Major players in the Semiconductor Plant Construction Global Market Report 2025 include:

- Samsung Electronics Co. Ltd.
- Taiwan Semiconductor Manufacturing Company Limited
- Intel Corporation
- Mitsubishi Electric Corporation
- Micron Technology Inc.
- Texas Instruments Incorporated
- STMicroelectronics N.V.
- Bechtel Corporation
- Infineon Technologies AG
- Fluor Corporation

What Are The Major Trends That Will Shape The Semiconductor Plant Construction Market In The Future?

Semiconductor plant construction market bigwigs are concentrating on creating innovative manufacturing solutions such as AI-powered automation systems to augment production efficacy, lessen operational expenses, and boost precision in chip creation procedures. AI-assisted automation systems embody cutting-edge technologies that employ artificial intelligence for supervising, managing, and refining manufacturing processes with barely any human intervention needed. These systems contribute to the efficiency of semiconductor plants

by escalating production speed, decreasing errors, anticipating machinery malfunctions, and maintaining consistent product quality throughout the fabrication process. For instance, in December 2024, Tata Electronics Private Limited, an Indian manufacturing company, teamed up with Powerchip Semiconductor Manufacturing Corporation (PSMC), a Taiwan-based manufacturing company, to initiate the building of India's inaugural AI-assisted semiconductor fabrication plant in Dholera, Gujarat. The ultra-modern facility marks a pivotal progression in India's semiconductor capabilities and targets to generate 50,000 wafers every month by 2026. The plant is designed with futuristic AI-powered automation systems that will supervise and enhance all phases of the chip manufacturing process. These systems will assist in amplifying production efficiency, curtailing waste, reducing machinery downtime via predictive maintenance, and guaranteeing exceptional chip quality.

#### Comprehensive Segment-Wise Insights Into The Semiconductor Plant Construction Market

The semiconductor plant construction market covered in this report is segmented –

- 1) By Construction: New Construction, Expansion, Renovation
- 2) By Facility: Wafer Fabrication Facilities, Assembly And Test Facilities, Research And Development Facilities
- 3) By Equipment: Lithography, Deposition, Etching, Chemical Mechanical Planarization, Cleaning, Other Equipment
- 4) By Infrastructure: Electrical Infrastructure, Mechanical Infrastructure, Networking Infrastructure, Safety And Security systems, Other Infrastructure

#### Subsegments:

- 1) By New Construction: Greenfield Fabrication Facilities, Research And Development (R&D) And Innovation Centers, Cleanroom Infrastructure, Utility And Support Buildings, Administrative And Logistics Centers
- 2) By Expansion: Additional Fabrication Lines, Facility Footprint Extension, Capacity Enhancement Modules, Cleanroom Area Expansion, Equipment Installation Zones
- 3) By Renovation: Facility Modernization, Cleanroom Retrofitting, Energy Efficiency Upgrades, Safety And Compliance Renovation, System And Utility Refurbishment

View the full semiconductor plant construction market report:

<https://www.thebusinessresearchcompany.com/report/semiconductor-plant-construction-global-market-report>

#### [Global Semiconductor Plant Construction Market](#) - Regional Insights

In 2024, the Asia-Pacific region was the dominant region in the semiconductor plant construction market. It is anticipated that North America will exhibit the highest growth rate during the forecast period. The report on the semiconductor plant construction market includes regions like Asia-Pacific, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa.

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