

# Global Epitaxial Growth Equipment 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 Epitaxial Growth Equipment market size was valued at US\$ 1796 million in 2025 and is forecast to a readjusted size of US\$ 3120 million by 2032 with a CAGR of 8.3% during review period.

In 2024, global Epitaxial Growth Equipment production capacity is 1,500 units, with production reached approximately 1,100 units, with an average global market price of around US\$ 1.5 million per unit. The market gross margin is mainly 40%-50%.

Epitaxial growth equipment refers to tools and machinery used to deposit thin layers of material onto a substrate in a highly controlled manner. The process, called epitaxy, typically involves the growth of crystalline layers of semiconductor materials on a semiconductor wafer. This is a critical process in the manufacturing of devices such as microchips, LEDs, and solar cells. Epitaxial growth can be performed using techniques like Molecular Beam Epitaxy (MBE) or Metal-Organic Chemical Vapor Deposition (MOCVD), and the equipment is designed to provide precise control over temperature, pressure, and material composition to ensure the high quality of the grown layers.

The epitaxial growth equipment industry chain is mainly divided into three levels: upstream materials and core components, midstream equipment manufacturing and process integration, and downstream compound semiconductor and power electronics manufacturers. The upstream segment includes high-purity metal-organic sources (TMGa, TMAI, TMIIn), ammonia/hydrogen, arsenic sources, silanes, and other precursors; ultra-high precision MFC mass flow controllers; high-temperature quartz devices; vacuum pumps and chamber materials; high-temperature susceptors; RF/electric heating systems; and gas distribution systems, which are crucial for

temperature uniformity. The midstream segment consists of equipment manufacturers such as MOCVD, MBE, HVPE, and SiC epitaxial furnaces. Typical manufacturers include Aixtron, Veeco, Riber, TEL, and Chinese companies such as AMEC and NAURA. Their competitive barriers lie in gas flow design, temperature control, chamber structure, material purification capabilities, and long-term process accumulation. Downstream customers cover LED, optical communication, RF front-end (GaAs/GaN), power devices (SiC/GaN), MicroLED, automotive LiDAR, quantum chip research institutions, etc. The wafer fabs and packaging and testing plants are highly dependent on epitaxial quality, yield and stability, and the upstream and downstream collaboration is close.

Continued innovation in epitaxial growth methods such as Molecular Beam Epitaxy (MBE) and Metal-Organic Chemical Vapor Deposition (MOCVD), along with the development of new materials like gallium nitride (GaN) and silicon carbide (SiC), will further expand the range of applications. These materials are crucial for next-generation devices, particularly in power electronics and high-frequency communication.

Epitaxial growth is essential in fabricating high-performance semiconductors, which are increasingly used in smartphones, computers, data centers, and Internet of Things (IoT) devices. The rapid expansion of 5G technology, AI, and autonomous vehicles is expected to further drive demand for advanced semiconductor components, boosting the demand for epitaxial growth equipment.

As semiconductors continue to become smaller and more integrated, epitaxial growth techniques will play a crucial role in ensuring high-quality and uniform layers, necessary for the production of cutting-edge devices.

Epitaxial growth is critical in manufacturing LEDs and laser diodes used in displays, lighting, and communications. The increasing adoption of energy-efficient LED lighting solutions and the growth of applications like OLED displays and laser-based technologies are expected to continue driving the demand for epitaxial growth equipment.

This report is a detailed and comprehensive analysis for global Epitaxial Growth Equipment 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 Epitaxial Growth Equipment market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Epitaxial Growth Equipment 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 Epitaxial Growth Equipment 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 Epitaxial Growth Equipment 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 Epitaxial Growth Equipment

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 Epitaxial Growth Equipment 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 AIXTRON, Advanced Micro-Fabrication Equipment Inc, Veeco, LPE (Italy), TAIYO NIPPON SAN SO, ASMI, Applied Material, NuFlare, Tokyo Electron, CETC, etc.

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

### **Market Segmentation**

Epitaxial Growth Equipment 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

MOCVD Equipment

Molecular Beam Epitaxy Equipment

CVD Equipment

#### Market segment by Capacity

R&D Type

Mass Production Type

#### Market segment by Reactor Type

Single-Wafer Reactor

Multi-Wafer Reactor

#### Market segment by Application

SiC / GaN Power Devices

RF Devices

Optoelectronics

Micro LED

Others

#### Major players covered

AIXTRON

Advanced Micro-Fabrication Equipment Inc

Veeco

LPE (Italy)

TAIYO NIPPON SANSO

ASMI

Applied Material

NuFlare

Tokyo Electron

CETC

NAURA

Riber

DCA

Scienta Omicron

Pascal

Dr. Eberl MBE-Komponenten GmbH

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 Epitaxial Growth Equipment product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Epitaxial Growth Equipment, with price, sales quantity, revenue, and global market share of Epitaxial Growth Equipment from 2021 to 2026.

Chapter 3, the Epitaxial Growth Equipment competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Epitaxial Growth Equipment 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 Epitaxial Growth Equipment 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 Epitaxial Growth Equipment.

Chapter 14 and 15, to describe Epitaxial Growth Equipment sales channel, distributors, customers, research findings and conclusion.

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