

Global Semiconductor Precursor Delivery System Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

<https://marketpublishers.com/r/G1869AA535A9EN.html>

Date: September 2025

Pages: 142

Price: US\$ 3,132.00 (Single User License)

ID: G1869AA535A9EN

Abstracts

According to our (Global Info Research) latest study, the global Semiconductor Precursor Delivery System market size was valued at US\$ 482 million in 2024 and is forecast to a readjusted size of USD 784 million by 2031 with a CAGR of 6.7% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

The semiconductor precursor delivery system is a core subsystem in semiconductor manufacturing, used to safely and accurately deliver gaseous, liquid or solid precursors (such as silane, TEOS, tungsten hexafluoride, etc.) to the chemical vapor deposition (CVD) or atomic layer deposition (ALD) reaction chamber. Its core components include precursor storage sources (high-pressure gas cylinders, heated sublimation chambers), precision flow and pressure controllers (such as mass flow meters MFC), corrosion-resistant gas pipeline networks (stainless steel/inert coatings), safety isolation devices (gas cabinets, leak detection and exhaust gas treatment systems) and automated integration interfaces. The system ensures precursor purity (>6N) and delivery stability through temperature control, real-time monitoring and high-speed valve switching (such as ALD pulse sequences), while preventing the risk of leakage of toxic substances (such as arsenic). Its performance directly determines the uniformity of thin films, doping accuracy and device reliability, and is a key support for the mass production of advanced processes (3nm nodes, gate-all-around transistors) and new materials (high dielectric layers, two-dimensional semiconductors).

As semiconductor technology moves towards smaller nodes and complex structures, delivery systems continue to upgrade to meet challenges. For example, multi-precursor manifolds support multi-element nano-stacks (such as $\text{HfO}_2\text{-Al}_2\text{O}_3$), in-situ optical/mass spectrometry monitoring enables closed-loop process control, and cluster tools integrate multi-step processes to reduce contamination. The system must also be compatible with extreme process requirements, such as nickel-based alloy pipelines that are resistant to hydrogen fluoride corrosion, thermal oxidation exhaust gas treatment devices, etc. These innovations not only improve deposition efficiency and material properties, but also promote the industrialization of advanced logic chips, memory, and third-generation semiconductors (such as GaN and SiC). Any slight fluctuation may lead to film defects, so high-precision delivery systems have become an indispensable 'vascular network' in semiconductor equipment, supporting the continued evolution of Moore's Law.

The semiconductor precursor delivery system is a device used to deliver precursors. Depending on the type of precursor, the delivery system can be divided into a gas delivery system, a liquid delivery system (LDS), and a solid delivery system. With the growth of downstream application demand for precursors, the growth of the precursor delivery system market has been further promoted. It is expected that by 2031, the market size will exceed 700 million US dollars.

From the production side, the core production areas of semiconductor precursor delivery systems are mainly Europe, the United States, South Korea and Europe, among which Europe is the most important production area, accounting for 37.9% of the market share in 2024. There are still differences in the application, technology and product performance of Chinese semiconductor precursor delivery system companies and international leading companies (such as Merck and Air Liquide) in the field of advanced processes. However, as the localization process of Chinese local manufacturers accelerates, some Chinese local companies have also gained a certain market share in the precursor delivery system market, such as Jiangsu Yoke Technology and PNC Process Systems Co., Ltd. In addition, in recent years, there have been many new entrants from Chinese local enterprises, such as Shanghai Wisdom Technology, Hefei Adchem, etc., but at present, the scale is relatively small. With the development of China's semiconductor market in the future, it is expected that the global competition share of Chinese local manufacturers will gradually increase in the next few years, and China will maintain the fastest growth rate. With the advancement of domestic precursor delivery system technology, the emergence of cost advantages and the strengthening of policy support, it is expected that the share will reach 23.7% in 2031.

From the perspective of manufacturers, the core manufacturers of semiconductor precursor delivery systems worldwide mainly include Merck Group, Air Liquide, Entegris, CSK, Foures Co., Ltd (Jiangsu Yoke Technology), PNC Process Systems Co., Ltd, etc. In 2024, the world's first-tier manufacturers are mainly Merck Group and Air Liquide, with a market share of approximately 43.81%; the second-tier manufacturers include Entegris, CSK, Foures Co., Ltd (Jiangsu Yoke Technology), PNC Process Systems Co., Ltd, etc., with a total share of 42.9%.

This report is a detailed and comprehensive analysis for global Semiconductor Precursor Delivery System 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 Semiconductor Precursor Delivery System market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Semiconductor Precursor Delivery System market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Semiconductor Precursor Delivery System market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Semiconductor Precursor Delivery System market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2020-2025

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 Semiconductor Precursor Delivery System

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 Semiconductor Precursor Delivery System 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 Merck Group, Air Liquide, Entegris, CSK, Foures Co., Ltd, PNC Process Systems Co.,Ltd, Sempa Systems GmbH, Fujifilm, SMI Co., Ltd, Brooks Instrument, etc.

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

Market Segmentation

Semiconductor Precursor Delivery System market is split by Type and by Application. For the period 2020-2031, 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

Liquid Delivery System (LDS)

Solid Precursor Delivery Systems

Gas Delivery Systems

Market segment by Application

PVD/CVD/ALD Process

Epitaxial and Etching Process

Major players covered

Merck Group

Air Liquide

Entegris

CSK

Foures Co., Ltd

PNC Process Systems Co.,Ltd

Sempa Systems GmbH

Fujifilm

SMI Co., Ltd

Brooks Instrument

Ceres Technologies

HORIBA

CollabraTech (Exyte)

Stainless Design Concepts (SDC)

Bronkhorst

SVCS Process Innovation

Shanghai Wisdom 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 Semiconductor Precursor Delivery System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Semiconductor Precursor Delivery System, with price, sales quantity, revenue, and global market share of Semiconductor Precursor Delivery System from 2020 to 2025.

Chapter 3, the Semiconductor Precursor Delivery System competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Semiconductor Precursor Delivery System breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Semiconductor Precursor Delivery System market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Semiconductor Precursor Delivery System.

Chapter 14 and 15, to describe Semiconductor Precursor Delivery System sales channel, distributors, customers, research findings and conclusion.

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