

Global Semiconductor Process Components Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

<https://marketpublishers.com/r/G8C65B55F44CEN.html>

Date: August 2025

Pages: 199

Price: US\$ 3,480.00 (Single User License)

ID: G8C65B55F44CEN

Abstracts

According to our (Global Info Research) latest study, the global Semiconductor Process Components market size was valued at US\$ 255 million in 2024 and is forecast to a readjusted size of USD 400 million by 2031 with a CAGR of 6.7% during review period.

This report studies the process components for semiconductor production equipment, including the heaters, Showerhead, Chamber, Chamber Liner, and Electrostatic Chuck (ESC), etc.

A showerhead is a component that evenly supplies gas to the wafer substrate as needed in the semiconductor production process. It, therefore, has many high precision pores and a complex arrangement of gas channels inside it.

An electrostatic chuck (E-Chuck, ESC) is a chuck that absorbs and fixes (chucks) a workpiece by using an electrical force that causes objects to attract each other with static electricity. E-Chucks are primarily used in semiconductor manufacturing equipment to semiconductor wafer clamping. When positive and negative voltages are applied to the internal electrodes of the chuck while the workpiece is placed on the chuck, the electric charges in the workpiece move so that they are attracted to the internal electrodes. This generates a Coulomb force between the electrodes and the workpiece, and the workpiece is adsorbed to the chuck.

WSTS has adjusted its Spring 2024 forecast upwards, projecting a 16.0 percent growth in the global semiconductor market compared to the previous year. The updated market valuation for 2024 is estimated at US\$611 billion. This revision reflects stronger performance in the last two quarters, particularly in computing end-markets.

For 2024, mainly two Integrated Circuit categories are anticipated to drive the growth for the year with double digit increase, Logic with 10.7 percent and Memory with 76.8 percent. Conversely, other categories such as Discrete, Optoelectronics, Sensors, and Analog Semiconductors are expected to experience single-digit declines.

The Americas and Asia Pacific regions are projected to see significant growth, with increases of 25.1 percent and 17.5 percent, respectively. In contrast, Europe is expected to show marginal growth of 0.5 percent, while Japan is forecasted to see a slight decline of 1.1 percent.

Looking ahead to 2025, WSTS forecasts a 12.5 percent growth in the global semiconductor market, reaching an estimated valuation of US\$687 billion. This growth is expected to be driven primarily by the Memory and Logic sectors, which are on track to soar to over US\$200 billion in 2025 each, representing an upward trend of over 25 percent for Memory and over 10 percent for Logic from the previous year. All other segments are anticipated to record single-digit growth rates.

In 2025, all regions are poised for continued expansion. The Americas and Asia Pacific are expected to maintain their double-digit growth on a year-over-year basis.

This report is a detailed and comprehensive analysis for global Semiconductor Process Components market. Both quantitative and qualitative analyses are presented by company, 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 Process Components market size and forecasts, in consumption value (\$ Million), 2020-2031

Global Semiconductor Process Components market size and forecasts by region and country, in consumption value (\$ Million), 2020-2031

Global Semiconductor Process Components market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2020-2031

Global Semiconductor Process Components market shares of main players, in revenue (\$ Million), 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 Process Components

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 Process Components market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Fiti Group, VERSA CONN CORP (VCC), NHK Spring, Calitech, Ferrotec, Ultra Clean Hldgs, Durex Industries, Cast Aluminum Solutions (CAS), Fralock (Oasis Materials), Tempco Electric Heater Corporation, etc.

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

Market segmentation

Semiconductor Process Components 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. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Metal and Ceramic Heaters

Chamber

Showerhead

Chamber Liner

Electrostatic Chuck (ESC)

Others

Market segment by Application

Etching Equipment

Deposition (PVD & CVD)

Semiconductor Inspection Equipment

Coater & Developer

Lithography Machine

Cleaning Equipment

Ion Planter

CMP Equipment

Others

Market segment by players, this report covers

Fiti Group

VERSA CONN CORP (VCC)

NHK Spring

Calitech

Ferrotec

Ultra Clean Hldgs

Durex Industries

Cast Aluminum Solutions (CAS)

Fralock (Oasis Materials)

Tempco Electric Heater Corporation

Backer AB

MBE-Komponenten GmbH

Thermocoax

Marumae Co., Ltd

TTS Co., Ltd.

Nanotech Co. Ltd.

Mecaro

KSM Component

CoorsTek

SemiXicon

NGK Insulators (NTK Cerasec)

Kyocera

Shinko Electric Industries

MiCo Ceramics

Sumitomo Electric

Momentive Technologies

Shin-Etsu MicroSi

Technetics Semi

Duratek Technology Co., Ltd.

Sprint Precision Technologies Co., Ltd

Tolerance

Zhejiang Longji Lier Semiconductor Technology

Sanyue Semiconductor Technology

Suzhou KemaTek?Inc.

KFMI

Shenyang Fortune Precision Equipment Co., Ltd

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Semiconductor Process Components product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Semiconductor Process Components, with revenue, gross margin, and global market share of Semiconductor Process Components from 2020 to 2025.

Chapter 3, the Semiconductor Process Components competitive situation, revenue, and

global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2020 to 2031

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2020 to 2025.and Semiconductor Process Components market forecast, by regions, by Type and by Application, with consumption value, from 2026 to 2031.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Semiconductor Process Components.

Chapter 13, to describe Semiconductor Process Components research findings and conclusion.

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