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Global Vacuum Gauges for Semiconductor Equipment Market Research Report 2026(Status and Outlook)

https://marketpublishers.com/r/G7D10F293B77EN.html
Date: March 2026
Pages: 170
Price: US$ 2,980.00 (Single User License)
ID: G7D10F293B77EN

Abstracts

Vacuum measurement is the measurement of vacuum degree, and vacuum degree refers to the thinness of gas below atmospheric pressure. The pressure to express the degree of vacuum is not very reasonable because it has been used in history. High pressure means low vacuum; conversely, low pressure corresponds to high vacuum. Vacuum gauge (Vacuum Gauge), also known as vacuum gauge, is a vacuum sensor made according to various principles to measure the pressure in a vacuum state. It consists of a grid, a filament, and a collector. It is characterized by a mouse with upper and lower end grids. The cage grid, the ring filament, and the coaxial combination structure of the short collector inside the grid with the length of the Xiaoziyang grid, and the use of a vacuum connection tube.From a regional perspective, Europe and the United States occupy a dominant position, and both controls nearly 80% of the world's production of vacuum gauges for semiconductor equipment. Japan is also an important producer with a market share of approximately 11%. China is currently relatively weak in this field, mainly relying on imports from Europe and the United States.At present, the Chinese market is mainly dominated by MKS and Inficon. In semiconductor equipment such as PVD, CVD and ALD, Inficon can meet basic demand, but in a corrosive environment, only MKS products can be used. In etching equipment, it is mainly dominated by MKS.In terms of product type and technology, Capacitance diaphragm gauges are the largest segment, accounting for over 75%.At present, major global manufacturers include MKS (Granville-Phillips), Inficon, Atlas Copco (Leybold and Edwards), Canon ANELVA, Pfeiffer Vacuum GmbH, Teledyne Hastings Instruments, EBARA, Agilent, Setra and Kurt J. Lesker, among which Inficon and MKS (Granville-Phillips) is the world's two largest manufacturers, both accounts for more than 50% of the market share. In addition, Atlas Copco (Leybold and Edwards), Canon ANELVA and Pfeiffer Vacuum GmbH also play important roles. In recent years, leading companies have consolidated their market positions through investment, mergers, and acquisitions.

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For example, Inficon acquired InstruTech in 2016, MKS acquired Granville-Phillips from Brooks Automation in 2014, and Atlas Copco acquired the United Kingdom in 2013 and 2016, respectively.

The global Vacuum Gauges for Semiconductor Equipment market size was estimated at USD 109.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 6.90% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Vacuum Gauges for Semiconductor Equipment market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Vacuum Gauges for Semiconductor Equipment market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Vacuum Gauges for Semiconductor Equipment market.

Global Vacuum Gauges for Semiconductor Equipment Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their

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product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

MKS (Granville-Phillips)
Inficon
Canon ANELVA
Atlas Copco (Leybold?and Edwards)
Pfeiffer Vacuum GmbH
Agilent
ULVAC
SATO VAC INC
Azbil Corporation
Arun Microelectronics
Teledyne Hastings Instruments
Kurt J. Lesker
Setra Systems
EBARA
ATOVAC
Reborns
Shanghai Zhentai Instrument

Market Segmentation (by Type)

Capacitance Diaphragm Gauge
Pirani Vacuum Gauge
Ionization Vacuum Gauge
Others

Market Segmentation (by Application)

Deposition Equipment
Etching and Cleaning Equipment
Ion Implantation Equipment
Others

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Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Vacuum Gauges for Semiconductor Equipment Market
Overview of the regional outlook of the Vacuum Gauges for Semiconductor Equipment Market:

Customization of the Report

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Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Vacuum Gauges for Semiconductor Equipment Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the

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market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Vacuum Gauges for Semiconductor Equipment, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

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Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change
This enables you to anticipate market changes to remain ahead of your competitors
You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents
The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly
Provision of market value data for each segment and sub-segment
Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market
Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region
Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled
Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players
The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions
Includes in-depth analysis of the market from various perspectives through Porter?s five forces analysis
Provides insight into the market through Value Chain
Market dynamics scenario, along with growth opportunities of the market in the years to come
6-month post-sales analyst support

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