

# Global Capacitance Diaphragm Vacuum Gauges for Semiconductor Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G6E3237DC1D4EN.html>

Date: January 2026

Pages: 140

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

ID: G6E3237DC1D4EN

## Abstracts

According to our (Global Info Research) latest study, the global Capacitance Diaphragm Vacuum Gauges for Semiconductor market size was valued at US\$ 83.99 million in 2025 and is forecast to a readjusted size of US\$ 128 million by 2032 with a CAGR of 6.0% during review period.

??In 2025, global Capacitance Diaphragm Vacuum Gauges for Semiconductor sales reached approximately 77,506 Units, with an average global market price of around US\$ 1,053 per Unit.

Capacitance Diaphragm Vacuum Gauges for Semiconductor?? are precision instruments used to measure low to medium vacuum levels in semiconductor manufacturing processes. These gauges operate by detecting minute deflections in a thin diaphragm caused by pressure changes, converting the displacement into an electrical capacitance signal for accurate readings. Known for their high sensitivity, stability, and resistance to corrosive gases, CDGs are critical in processes like etching, deposition, and lithography, ensuring precise pressure control for optimal wafer quality and yield in cleanroom environments.

Semiconductor capacitance diaphragm vacuum gauges (CDGs) are typically manufactured under an 'in-house core + tightly controlled critical steps + selective outsourcing of precision parts' model. Production is high-mix/low-volume and often configure-to-order, driven by range, fittings, thermal scheme (heated vs. ambient), and corrosion-resistant variants. Leading suppliers keep the sensing-head core in-house: a high-stability metal diaphragm and capacitor electrode set, vacuum sealing and insulation structures, thermal control hardware, analog front-end circuitry, and digital

compensation/linearization. Final build is completed in clean conditions with bake-out/outgassing, helium leak testing, burn-in screening, and multi-point calibration, shipped with traceable calibration certificates. Outsourced content is commonly limited to housings and some precision-machined components, wiring harnesses, and standard connectors, while final calibration/certification remains internal to protect performance consistency and IP. As an industry-practical range, gross margin is often ~40%?60% for mainstream models; premium heated, ultra-low-drift, corrosion-/high-temperature designs, or bundled solutions (controller/valves plus service) can reach ~55%?70%. Margin dispersion is mainly driven by material system and sealing complexity, cleanroom and calibration cost, yield/rework rates, and the share of aftermarket services. The upstream supply base includes 316L and high-Ni diaphragm alloys, ceramic or glass-to-metal seals, precision machining and surface finishing, electronics (op-amps, ADCs, MCUs, temperature devices), leak-test/vacuum consumables, plus metrology standards and calibration rigs. Midstream activities comprise sensing-head fabrication, clean assembly, thermal control and compensation implementation, full calibration, and final test. Downstream demand comes from fabs and equipment OEMs, supporting chamber pressure control in etch, CVD/ALD, and PVD, as well as gas delivery and subfab vacuum systems, with a strong extension into recalibration, refurbishment, and spares (MRO).

### Market Development Opportunities & Main Driving Factors

As advanced-node and advanced-packaging expansions run in parallel with productivity upgrades in existing fabs, capacitance diaphragm vacuum gauges (CDGs) ? the reference sensors in chamber pressure control loops ? benefit from both new-tool installations and recurring demand from spares replacement and periodic recalibration. Corporate filings highlight the semiconductor pull on vacuum metrology revenues: MKS disclosed that roughly 42% of its 2024 net revenues came from semiconductor markets, while INFICON?s 2024 annual reporting stated that 'Semiconductor & Vacuum Coating' contributed more than half of Group sales. Government-driven fab build-outs under U.S. CHIPS incentives and EU Chips Act?related state-aid approvals are further extending the demand runway for tools and critical components.

### Market Challenges, Risks, & Restraints

The real battleground is not 'whether it measures,' but whether it remains traceable and repeatable under contamination, corrosion, and thermal-drift stress. Materials, clean assembly discipline, full calibration, and field recalibration infrastructure form the barrier to entry ? and lengthen qualification cycles. When the cycle turns down, OEM order flow

and spares cadence typically soften together. Sell-side commentary broadly warns that localization pushes can intensify price and delivery negotiations; combined with cross-region compliance and supply-chain disruptions, volatility can rise. Ultimately, yield, rework, and calibration capability become hard constraints on gross margin resilience.

### Downstream Demand Trends

Demand is shifting from 'installation-led' to 'yield-and-uptime-led.' In critical steps such as etch and CVD/ALD, fabs increasingly value micro-drift control, digital connectivity, and remote diagnostics ? turning CDGs from standalone sensors into networked process-control nodes. As new fabs ramp across regions, standardized interfaces and fast recalibration become more important, lifting the revenue share of recalibration, refurbishment, and spares (MRO). Penetration of premium heated, corrosion-resistant, and higher-traceability-grade products is accelerating accordingly.

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

Global Capacitance Diaphragm Vacuum Gauges for Semiconductor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Capacitance Diaphragm Vacuum Gauges for Semiconductor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Capacitance Diaphragm Vacuum Gauges for Semiconductor market shares of

main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (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 Capacitance Diaphragm Vacuum Gauges for Semiconductor

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 Capacitance Diaphragm Vacuum Gauges for Semiconductor 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 MKS Instruments, INFICON, Atlas Copco (Leybold and Edwards), Pfeiffer Vacuum+Fab Solutions, Setra Systems, Canon Anelva, Brooks Instrument, ZHENTAI INSTRUMENT, ULVAC, Azbil, etc.

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

### **Market Segmentation**

Capacitance Diaphragm Vacuum Gauges for Semiconductor 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

Unheated Type

Heated Type

#### Market segment by Scale Range

0.01-1 Torr

1-10 Torr

10-100 Torr

100-1000 Torr

More than 1000 Torr

#### Market segment by Measurement Principle

Absolute CDG

Differential CDG

#### Market segment by Diaphragm Material

Metal

Ceramic

#### Market segment by Application

Deposition

Etching and Cleaning

Ion Implantation

Others

## Major players covered

MKS Instruments

INFICON

Atlas Copco (Leybold and Edwards)

Pfeiffer Vacuum+Fab Solutions

Setra Systems

Canon Anelva

Brooks Instrument

ZHENTAI INSTRUMENT

ULVAC

Azbil

Agilent

Kurt J. Lesker

EBARA

ASAIR

Atovac

SATO VAC

## 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 Capacitance Diaphragm Vacuum Gauges for Semiconductor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Capacitance Diaphragm Vacuum Gauges for Semiconductor, with price, sales quantity, revenue, and global market share of Capacitance Diaphragm Vacuum Gauges for Semiconductor from 2021 to 2026.

Chapter 3, the Capacitance Diaphragm Vacuum Gauges for Semiconductor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Capacitance Diaphragm Vacuum Gauges for Semiconductor 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 Capacitance Diaphragm Vacuum Gauges for Semiconductor 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 Capacitance Diaphragm Vacuum Gauges for Semiconductor.

Chapter 14 and 15, to describe Capacitance Diaphragm Vacuum Gauges for Semiconductor sales channel, distributors, customers, research findings and conclusion.

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