

# Global Capacitance Diaphragm Vacuum Gauges for Semiconductor Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Capacitance Diaphragm Vacuum Gauges for Semiconductor market size is expected to reach \$ 128 million by 2032, rising at a market growth of 6.0% CAGR during the forecast period (2026-2032).

??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 studies the global Capacitance Diaphragm Vacuum Gauges for Semiconductor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Capacitance Diaphragm Vacuum Gauges for Semiconductor and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year.

This report explores demand trends and competition, as well as details the characteristics of Capacitance Diaphragm Vacuum Gauges for Semiconductor that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Capacitance Diaphragm Vacuum Gauges for Semiconductor total production and demand, 2021-2032, (K Units)

Global Capacitance Diaphragm Vacuum Gauges for Semiconductor total production value, 2021-2032, (USD Million)

Global Capacitance Diaphragm Vacuum Gauges for Semiconductor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Capacitance Diaphragm Vacuum Gauges for Semiconductor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Capacitance Diaphragm Vacuum Gauges for Semiconductor domestic production, consumption, key domestic manufacturers and share

Global Capacitance Diaphragm Vacuum Gauges for Semiconductor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Capacitance Diaphragm Vacuum Gauges for Semiconductor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Capacitance Diaphragm Vacuum Gauges for Semiconductor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Capacitance Diaphragm Vacuum Gauges for Semiconductor market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Capacitance Diaphragm Vacuum Gauges for Semiconductor market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Capacitance Diaphragm Vacuum Gauges for Semiconductor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Capacitance Diaphragm Vacuum Gauges for Semiconductor Market,  
Segmentation by Type:

Unheated Type

Heated Type

Global Capacitance Diaphragm Vacuum Gauges for Semiconductor Market,  
Segmentation by Scale Range:

0.01-1 Torr

1-10 Torr

10-100 Torr

100-1000 Torr

More than 1000 Torr

Global Capacitance Diaphragm Vacuum Gauges for Semiconductor Market,  
Segmentation by Measurement Principle:

Absolute CDG

Differential CDG

Global Capacitance Diaphragm Vacuum Gauges for Semiconductor Market,  
Segmentation by Diaphragm Material:

Metal

Ceramic

Global Capacitance Diaphragm Vacuum Gauges for Semiconductor Market,  
Segmentation by Application:

Deposition

Etching and Cleaning

Ion Implantation

Others

**Companies Profiled:**

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

**Key Questions Answered:**

1. How big is the global Capacitance Diaphragm Vacuum Gauges for Semiconductor market?
2. What is the demand of the global Capacitance Diaphragm Vacuum Gauges for

Semiconductor market?

3. What is the year over year growth of the global Capacitance Diaphragm Vacuum Gauges for Semiconductor market?

4. What is the production and production value of the global Capacitance Diaphragm Vacuum Gauges for Semiconductor market?

5. Who are the key producers in the global Capacitance Diaphragm Vacuum Gauges for Semiconductor market?

6. What are the growth factors driving the market demand?

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