

Global Capacitance Diaphragm Gauges Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Capacitance Diaphragm Gauges market size is expected to reach \$ 276 million by 2032, rising at a market growth of 9.7% CAGR during the forecast period (2026-2032).

A capacitance diaphragm gauge, commonly referred to as a CDG, measures vacuum gas pressure by direct measurement of the applied force on the surface of a thin diaphragm. A traditional capacitance vacuum transducer measures absolute pressure where one side of the diaphragm is exposed to a permanently sealed vacuum cavity integrated in the sensor element and the other side of the diaphragm is exposed to the process media. The mechanical deflection of the elastic sensor diaphragm is a function of the applied pressure. The diaphragm constitutes an electrode and together with an integrated auxiliary electrode it forms a pressure dependent capacitor that in an electrical measurement circuit converts the applied pressure to an electrical signal.

Market Drivers

Growing Demand in Semiconductor Manufacturing: Capacitance diaphragm gauges are critical in maintaining ultra-high vacuum (UHV) environments, especially in semiconductor fabrication, including deposition, etching, and lithography processes.

Expansion of Thin Film and OLED Industries: CDGs are widely used for precise pressure monitoring in thin film coating, OLED panel production, and solar PV manufacturing, where accurate low-pressure measurement is vital.

Advancements in Vacuum Technology: Continuous improvements in vacuum process equipment in R&D labs, pharmaceuticals, and aerospace have increased the demand

for high-accuracy, contamination-resistant pressure sensors like CDGs.

Industrial Automation and Process Control: Integration of CDGs into automated vacuum systems in chemical, food, and materials industries boosts demand due to their high repeatability and compatibility with control systems.

Growing Demand for Cleanroom Applications: With the rise of biotechnology and pharmaceutical manufacturing, CDGs are increasingly favored for use in cleanrooms, where precision and contamination-free design are essential.

Market Challenges

High Initial Cost and Maintenance: Compared to conventional gauges, CDGs have higher upfront costs and require periodic recalibration, which can be a barrier for small and medium enterprises.

Sensitivity to Corrosive Gases: Although modern CDGs have protective coatings, they are still susceptible to damage or drift when exposed to harsh chemicals, limiting their use in aggressive environments.

Competition from Alternative Sensor Technologies: Alternatives such as piezoresistive and thermal conductivity gauges offer lower cost or simpler design, which can appeal to cost-sensitive applications.

Supply Chain Disruptions for Precision Components: The production of CDGs requires high-precision diaphragms and electronics, which are affected by global semiconductor and materials shortages.

Technical Complexity in Integration: In some legacy systems, retrofitting CDGs requires adaptation in data communication, power supply, or mechanical fitting, slowing their replacement rate.

This report studies the global Capacitance Diaphragm Gauges production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Capacitance Diaphragm Gauges 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

Gauges that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Capacitance Diaphragm Gauges 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 Inficon, MKS, Agilent, Setra, Pferffer, Canon Anelva, Leybold GmbH, ULVAC, Nor-Cal, Brooks, 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 Gauges market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (USD/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 Gauges Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Capacitance Diaphragm Gauges Market, Segmentation by Type:

0.01-10 Torr

10-100 Torr

100-1000 Torr

More than 1000 Torr

Global Capacitance Diaphragm Gauges Market, Segmentation by Application:

Semiconductor Equipment

Thin-film Deposition Processes

Medical Equipment

Food Industry

Others

Companies Profiled:

Inficon

MKS

Agilent

Setra

Pferffer

Canon Anelva

Leybold GmbH

ULVAC

Nor-Cal

Brooks

Kurt J. Lesker

Thyracont

InstruTech

Azbil

Horiba

Atovac

Sens4 A/S

Edwards (Atlas Copco Group)

Shanghai chenyi-pmi

INSTRUE

Key Questions Answered:

1. How big is the global Capacitance Diaphragm Gauges market?
2. What is the demand of the global Capacitance Diaphragm Gauges market?
3. What is the year over year growth of the global Capacitance Diaphragm Gauges market?
4. What is the production and production value of the global Capacitance Diaphragm Gauges market?
5. Who are the key producers in the global Capacitance Diaphragm Gauges market?
6. What are the growth factors driving the market demand?

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