

# Global Capacitive?Film?Vacuum?Gauges Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Capacitive Film Vacuum Gauges market size is expected to reach \$ 205 million by 2032, rising at a market growth of 6.0% CAGR during the forecast period (2026-2032).

In 2025, global Capacitive Film Vacuum Gauge sales reached approximately 128,995 Units, with an average global market price of around US\$ 1,025 per Unit.

Capacitive Film Vacuum Gauge is an absolute pressure vacuum gauge that measures vacuum level by detecting changes in capacitance. Its core sensing element consists of a flexible diaphragm coated with a metallic film and a fixed electrode. When the process gas pressure acts on the diaphragm, it causes a tiny deflection, changing the distance between the electrodes and thus the capacitance. High-precision electronics convert this capacitance change into a pressure reading. Unlike thermal conductivity gauges, capacitive film gauges are essentially gas-independent and offer high accuracy, wide measurement range, good long-term stability, and digital outputs, making them widely used in semiconductor fabrication, vacuum coating, analytical instruments, vacuum furnaces, and other precision vacuum process monitoring and control applications.

The production model of Capacitive Film Vacuum Gauges combines precision sensor fabrication with advanced assembly and calibration processes. The core stages include metal diaphragm forming, capacitance chamber machining, electronic signal amplification and processing integration, and final assembly with metrological calibration. Upstream inputs mainly consist of high-purity stainless steel, diaphragms, electrode bases, electronic components, and vacuum fittings. Midstream manufacturing requires cleanroom-level environments for precision welding, laser sealing, and capacitance differential calibration. Downstream applications span semiconductor tools, vacuum coating systems, photovoltaic production, pharmaceuticals, and research laboratories.

Industry gross margins typically range between 35% and 50%, with high-end heated

models for semiconductor processes exceeding 55%, while industrial-grade unheated variants average 25-35%. The value chain follows a clear hierarchy?upstream precision materials and sensors ? midstream gauge manufacturing and integration ? downstream vacuum process equipment and end-use applications?with high technological concentration. Leading global players include MKS Instruments, Inficon, while Chinese manufacturers are accelerating localization and smart interface innovations to narrow the gap.

#### Market Development Opportunities & Main Driving Factors

Driven by a new wave of semiconductor and display investments underpinned by artificial-intelligence computing demand, vacuum process windows are tightening and process stability requirements are rising sharply. Vacuum pressure has evolved from an auxiliary parameter into a key lever that directly determines yield and cost per wafer or panel. In critical process steps such as etching, CVD, PVD, ALD and vacuum annealing, capacitive film vacuum gauges, with their gas-independent absolute pressure measurement, high accuracy and long-term stability, are moving from ?standard components? inside tools to strategic sensors closely scrutinized by manufacturers. As high-end manufacturing capex continues to concentrate in semiconductors, displays, photovoltaics and vacuum coating, capacitive film vacuum gauges are steadily capturing a share of this long-term growth.

#### Technology Evolution and Competitive Landscape

From a technology perspective, capacitive film vacuum gauges are continuously evolving around diaphragm design, heated versions, corrosion-resistant materials and digital interfaces. They are expanding measurement range and accuracy to meet the stringent vacuum-control demands of advanced processes, while improving temperature compensation, zero-drift control and self-diagnostics to reduce maintenance frequency and unplanned downtime. Leading global vacuum-technology and semiconductor-equipment vendors highlight these products in their annual reports and product materials, bundling them with vacuum pumps, mass flow controllers and process-monitoring systems into integrated solutions to enhance customer stickiness and system-level pricing power. At the same time, regional manufacturers are leveraging localization and service advantages to penetrate general industrial vacuum, photovoltaics and certain mature semiconductor processes, creating a multi-layered competitive pattern of 'a few global leaders plus regional specialists.'

#### Downstream Demand Trends and Application Extension

On the demand side, the most important growth driver remains the expansion and technical upgrade of advanced fabs and display lines, where precise high-vacuum control has become essential for boosting yield and reducing process variation. In photovoltaics, vacuum coating and precision vacuum heat treatment, stock-line retrofits and process optimization are pushing capacitive film vacuum gauges into more

replacement, upgrade and new-tool projects. Meanwhile, as more manufacturers roll out smart-factory and equipment-connectivity initiatives, gauges featuring digital communication interfaces and seamless integration with MES and equipment-management platforms are evolving from single measurement points into critical process-data collection nodes. In this way, vacuum pressure ? a fundamental physical quantity ? is being transformed into a usable, analyzable and optimizable process data asset, opening up 'hardware + software + service' growth opportunities for instrument and equipment suppliers beyond pure hardware sales.

This report studies the global Capacitive Film Vacuum Gauges production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Capacitive Film Vacuum 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 Capacitive Film Vacuum Gauges that contribute to its increasing demand across many markets.

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

Global Capacitive Film Vacuum Gauges total production and demand, 2021-2032, (Units)

Global Capacitive Film Vacuum Gauges total production value, 2021-2032, (USD Million)

Global Capacitive Film Vacuum Gauges production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Capacitive Film Vacuum Gauges consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Capacitive Film Vacuum Gauges domestic production, consumption, key domestic manufacturers and share

Global Capacitive Film Vacuum Gauges production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Capacitive Film Vacuum Gauges production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Capacitive Film Vacuum Gauges production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Capacitive Film Vacuum 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 MKS Instruments, INFICON, Atlas Copco (Leybold and Edwards), ZHENTAI INSTRUMENT, Chengdu Zhenghua Electronic Instrument, Setra Systems, Brooks Instrument, Azbil, Pfeiffer Vacuum+Fab Solutions (Busch), Horiba, 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 Capacitive Film Vacuum Gauges market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Capacitive Film Vacuum Gauges Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Capacitive Film Vacuum Gauges Market, Segmentation by Type:

Unheated Type

Heated Type

Global Capacitive Film Vacuum Gauges Market, Segmentation by Scale Range:

0.01-1 Torr

1-10 Torr

10-100 Torr

100-1000 Torr

More than 1000 Torr

**Global Capacitive Film Vacuum Gauges Market, Segmentation by Measurement Principle:**

Absolute CDG

Differential CDG

**Global Capacitive Film Vacuum Gauges Market, Segmentation by Diaphragm Material:**

Metal

Ceramic

**Global Capacitive Film Vacuum Gauges Market, Segmentation by Application:**

Semiconductor Equipment

Photovoltaics and Displays

Medical and Pharmaceutical

Food Industry

Others

**Companies Profiled:**

*Global Capacitive?Film?Vacuum?Gauges Supply, Demand and Key Producers, 2026-2032*

MKS Instruments

INFICON

Atlas Copco (Leybold and Edwards)

ZHENTAI INSTRUMENT

Chengdu Zhenghua Electronic Instrument

Setra Systems

Brooks Instrument

Azbil

Pfeiffer Vacuum+Fab Solutions (Busch)

Horiba

Canon Anelva

ULVAC

Chengdu Reborn

Agilent

Kurt J. Lesker

EBARA

Shanghai chenyi-pmi

ASAIR

Atovac

SATO VAC

Qingdao Xinnovis Microsystem Technology

VMT Instrument

**Key Questions Answered:**

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

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