

Global Vacuum Gauges and Controllers Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Vacuum Gauges and Controllers market size is expected to reach \$ 638 million by 2032, rising at a market growth of 4.0% CAGR during the forecast period (2026-2032).

Vacuum gauges and controllers are instruments and systems used in vacuum technology to measure and manage pressure within a vacuum environment. Vacuum gauges measure pressure across a wide range?from atmospheric pressure down to ultra-high vacuum?by converting physical properties such as thermal conductivity, ionization, or capacitance into readable pressure signals. Vacuum controllers receive signals from one or multiple gauges and are used to monitor and regulate vacuum system components such as pumps and valves, enabling pressure display, data acquisition, and closed-loop control. In industrial and semiconductor applications, they are often used either as separate modules or integrated systems to ensure process stability and precision in vacuum environments.

In 2025, global Vacuum gauges and controllers production reached approximately 457.62 K units, average price was 1,009 USD/unit, with gross margin 40%.

The vacuum gauges and controllers market represents a critical yet relatively niche segment within the broader vacuum technology industry. It functions as the sensing and control layer that bridges vacuum pumping systems and process equipment, enabling precise measurement and regulation of vacuum environments. This capability is essential across semiconductor manufacturing (etching, thin-film deposition, ion implantation, and advanced packaging), industrial vacuum processes (coating, metallurgy, photovoltaics), scientific instrumentation, and selected high-end analytical and medical applications. Fundamentally, this market enables the transformation of

vacuum environments from ?physical conditions? into ?controllable and measurable process parameters,? directly impacting yield, process stability, and equipment performance.

From a technical perspective, the market consists of two major product categories. The first is vacuum gauges, which cover a wide pressure range from atmospheric pressure down to ultra-high vacuum, using technologies such as thermal conductivity gauges (Pirani), ionization gauges (hot and cold cathode), and capacitance manometers. The second is vacuum controllers, which integrate signals from one or multiple gauges and provide system-level functions such as pressure monitoring, data acquisition, and closed-loop control of pumps, valves, and process chambers. In modern semiconductor equipment, these components are increasingly evolving toward modular or system-level integration, forming complete solutions that combine multiple sensors, controllers, and tool interfaces.

Structurally, the industry is characterized by high technical barriers, moderate market size, and relatively high consolidation. The high-end segment is dominated by a small group of global players, including MKS Instruments (including Granville-Phillips), INFICON, Pfeiffer Vacuum (now part of Busch Group), and selected niche players such as Brooks Instrument in related process control domains. These companies increasingly compete not only at the device level but at the system level, offering integrated measurement, control, and software platforms, thereby strengthening customer lock-in and switching costs.

On the demand side, the semiconductor industry remains the primary growth driver. Advanced process nodes (7nm and below), as well as advanced packaging technologies, have significantly increased requirements for vacuum precision, response speed, and system stability. As a result, vacuum measurement and control systems are transitioning from auxiliary instrumentation to critical process enablers. At the same time, increasing equipment complexity is shifting value creation from standalone gauges toward integrated control architectures, where system-level coordination becomes more important than individual sensor performance.

In Conclusion, while the market is relatively small compared to major vacuum pumping or semiconductor equipment segments, it exhibits several structural characteristics: stable technology evolution, high customer switching costs, long product lifecycles, and strong OEM integration. As such, it is best described as a ?technology-driven cash-flow industry? rather than a high-growth volume market.

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

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

Highlights and key features of the study

Global Vacuum Gauges and Controllers total production and demand, 2021-2032, (K Units)

Global Vacuum Gauges and Controllers total production value, 2021-2032, (USD Million)

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

Global Vacuum Gauges and Controllers consumption by region & country, CAGR, 2021-2032 & (K Units)

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

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

Global Vacuum Gauges and Controllers production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Vacuum Gauges and Controllers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Vacuum Gauges and Controllers 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, Inficon, Atlas Copco, ULVAC, Busch, Azbil, Teledyne Hastings Instruments, Canon Anelva, Kurt J. Lesker, Brooks Instrument, 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 Vacuum Gauges and Controllers 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 Vacuum Gauges and Controllers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Vacuum Gauges and Controllers Market, Segmentation by Type:

Atmospheric ~ 1 mbar

1 mbar~ 10?? mbar

10?? ~ 10??? mbar

Global Vacuum Gauges and Controllers Market, Segmentation by Technology:

Mechanical Gauges

Thermal Conductivity Gauges

Ionization Gauges

Capacitance Gauges

Global Vacuum Gauges and Controllers Market, Segmentation by Application:

Semiconductor

Industrial Manufacturing

Medical

Others

Companies Profiled:

MKS

Inficon

Atlas Copco

ULVAC

Busch

Azbil

Teledyne Hastings Instruments

Canon Anelva

Kurt J. Lesker

Brooks Instrument

Thyracont Vacuum Instruments

Zhentai

Agilent

Zhenghua

Ebara

Key Questions Answered:

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

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