

Global Vacuum Gauges and Controllers Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Vacuum Gauges and Controllers market size was valued at US\$ 475 million in 2025 and is forecast to a readjusted size of US\$ 638 million by 2032 with a CAGR of 4.0% during review period.

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

Global Vacuum Gauges and Controllers 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 Vacuum Gauges and Controllers 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 Vacuum Gauges and Controllers 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 Vacuum Gauges and Controllers
- 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 Vacuum Gauges and Controllers 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, 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.

Market Segmentation

Vacuum Gauges and Controllers 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

Atmospheric ~ 1 mbar

1 mbar~ 10?? mbar

10?? ~ 10??? mbar

Market segment by Technology

Mechanical Gauges

Thermal Conductivity Gauges

Ionization Gauges

Capacitance Gauges

Market segment by Application

Semiconductor

Industrial Manufacturing

Medical

Others

Major players covered

MKS

Inficon

Atlas Copco

ULVAC

Busch

Azbil

Teledyne Hastings Instruments

Canon Anelva

Kurt J. Lesker

Brooks Instrument

Thyracont Vacuum Instruments

Zhentai

Agilent

Zhenghua

Ebara

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 Vacuum Gauges and Controllers product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Vacuum Gauges and Controllers 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 Vacuum Gauges and Controllers 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 Vacuum Gauges and Controllers.

Chapter 14 and 15, to describe Vacuum Gauges and Controllers sales channel, distributors, customers, research findings and conclusion.

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