

Global Vacuum Measuring Devices Market Growth 2026-2032

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Abstracts

The global Vacuum Measuring Devices market size is predicted to grow from US\$ 489 million in 2025 to US\$ 659 million in 2032; it is expected to grow at a CAGR of 4.2% from 2026 to 2032.

Vacuum measuring devices are instruments or sensing systems used to measure gas pressure below atmospheric pressure within a closed or controlled environment. They are essential in vacuum technology applications such as semiconductor manufacturing, scientific research, coating processes, and industrial vacuum systems. These devices cover a wide pressure range from rough vacuum to ultra-high vacuum and operate based on different physical principles, including mechanical deformation, thermal conductivity, and ionization of gases. Common examples include Pirani gauges for medium vacuum measurement and Bayard-Alpert ionization gauges for high and ultra-high vacuum applications.

In 2025, global Vacuum measuring devices production reached approximately 500 K units, average price was 1,000 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.

LP Information, Inc. (LPI) ' newest research report, the ?Vacuum Measuring Devices

Industry Forecast? looks at past sales and reviews total world Vacuum Measuring Devices sales in 2025, providing a comprehensive analysis by region and market sector of projected Vacuum Measuring Devices sales for 2026 through 2032. With Vacuum Measuring Devices sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Vacuum Measuring Devices industry.

This Insight Report provides a comprehensive analysis of the global Vacuum Measuring Devices landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Vacuum Measuring Devices portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Vacuum Measuring Devices market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Vacuum Measuring Devices and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Vacuum Measuring Devices.

This report presents a comprehensive overview, market shares, and growth opportunities of Vacuum Measuring Devices market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Standalone Gauge

Gauge Controller

Vacuum Subsystem

Segmentation by Pressure:

Atmospheric ~ 1 mbar

1 mbar~ 10?? mbar

10?? ~ 10??? mbar

Segmentation by Application:

Semiconductor

Industrial Manufacturing

Medical

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Vacuum Measuring Devices market?

What factors are driving Vacuum Measuring Devices market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Vacuum Measuring Devices market opportunities vary by end market size?

How does Vacuum Measuring Devices break out by Type, by Application?

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