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

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Abstracts

The global Vacuum Gauges market size is expected to reach $ 625 million by 2032, rising at a market growth of 4.0% CAGR during the forecast period (2026-2032).

In 2025, global vacuum gauges production reached 457,600 units, with an average global market price of approximately $1,009 per unit and an industry average gross margin of 38.49%.

Key upstream raw materials include metal materials, non-metallic materials, and electronic components.

Upstream suppliers include CoorsTek, Ferrotec, Texas Instruments, and Analog Devices.

Downstream customers include Applied Materials, Lam, TEL, NAURA Technology Group Co., Ltd., and ASM.

A vacuum gauge is an instrument used to measure the degree of vacuum (or gas pressure). These are common tools in laboratories, industry, and scientific research for monitoring and controlling gas pressure within vacuum systems. Vacuum gauges come in various types, each with its own specific operating principle and application scenario. Based on the physical mechanisms employed for measurement, the primary types of vacuum gauges can be categorized into three main groups: those utilizing mechanical properties, those utilizing gas-dynamic effects, and those utilizing charged-particle effects. Typical examples of gauges utilizing mechanical properties include Bourdon gauges and diaphragm capacitance gauges; typical examples utilizing gas-dynamic effects include Pirani resistance gauges and thermocouple gauges; and typical

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examples utilizing charged-particle effects include hot-cathode ionization gauges and cold-cathode ionization gauges.

The global vacuum gauge market remains highly concentrated, dominated by companies from Europe, the United States, and Japan; leading manufacturers such as Inficon, Atlas Copco, and MKS Instruments collectively hold over 75.61% of the market share. While foreign enterprises have long monopolized the high-end product segment, the mid-to-low-end market faces a degree of commoditized competition where price remains a key factor, thereby squeezing overall industry profit margins.

The United States, Europe, and the Asia-Pacific region constitute the primary global markets. The U.S. maintains a leading edge in technology and industrial application, while Canada sustains steady demand driven by scientific research. Europe?s market strength relies on a robust manufacturing and research infrastructure, with Germany, Switzerland, and the UK serving as key hubs. The Asia-Pacific region is the most dynamic growth area; China is experiencing rapid demand growth, while Japan and South Korea generate stable demand for high-precision vacuum gauges driven by their advanced manufacturing sectors.

The semiconductor industry remains the primary engine of growth. Continuous upgrades in chip manufacturing processes demand greater stability and measurement precision in vacuum environments; this, combined with the rise of 5G, artificial intelligence, and the Internet of Things (IoT), has further amplified demand. Additionally, vacuum technology is widely used in medical and pharmaceutical processes?such as aseptic packaging, vacuum sterilization, and freeze-drying?where market expansion is fueled by aging populations and rising healthcare needs. In aerospace and defense, vacuum technology supports spacecraft manufacturing and environmental simulation testing, with increased investment driving demand for high-end gauges. Meanwhile, in the fields of new energy and materials science, the development of photovoltaics and energy storage materials relies on precise vacuum environment control, creating new growth opportunities for the industry.

Vacuum gauge technology is rapidly evolving toward intelligence and digitalization. The integration of IoT and data communication technologies enables remote monitoring, automated diagnostics, and system integration, thereby enhancing operational efficiency. High precision and stability remain key performance priorities, particularly given the increasingly stringent requirements for long-term reliability in extreme operating environments like those found in semiconductor manufacturing and aerospace. Trends toward multi-parameter integration and modular design are also

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emerging, allowing vacuum gauges to handle multidimensional measurements?such as pressure and temperature?simultaneously. Furthermore, the push for green manufacturing has drawn greater attention to energy conservation, consumption reduction, and the use of eco-friendly materials.

The vacuum gauge industry is currently experiencing a phase of simultaneous growth and structural upgrading. On one hand, the market size is steadily expanding, and the scope of applications continues to widen; on the other, technological competition is intensifying, with foreign enterprises still dominating the high-end market, even as opportunities for domestic substitution gradually emerge. Future industry growth will increasingly hinge on capabilities in technological innovation, product reliability, and breakthroughs in high-end application scenarios. At the same time, the industry faces challenges such as high technical barriers, fierce international competition, supply chain uncertainties, and a shortage of high-level talent. Against this backdrop, enterprises must?while maintaining continuous investment in technology?strengthen supply chain management and market positioning to enhance their overall competitiveness and achieve stable, long-term development.

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

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

Highlights and key features of the study
Global Vacuum Gauges total production and demand, 2021-2032, (K Units)
Global Vacuum Gauges total production value, 2021-2032, (USD Million)
Global Vacuum Gauges production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global Vacuum Gauges consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Vacuum Gauges domestic production, consumption, key domestic manufacturers and share
Global Vacuum Gauges production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Vacuum Gauges production by Type, production, value, CAGR, 2021-2032,

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

This report profiles key players in the global 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 Inficon, Atlas Copco, MKS Instruments, Busch, ULVAC, Teledyne Hastings Instruments, Azbil Corporation, Canon Anelva, Thyracont Vacuum Instruments, 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 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 Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

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India

Rest of World

Global Vacuum Gauges Market, Segmentation by Type:

Single-principle Vacuum Gauge

Compound Vacuum Gauge

Global Vacuum Gauges Market, Segmentation by Vacuum Range:

Vacuum Range: 10??10? Pa

Vacuum Range: 10??10?? Pa

Vacuum Range: 10???10?? Pa

Global Vacuum Gauges Market, Segmentation by Structural Form:

Portable Vacuum Gauge

Benchtop Vacuum Measurement System

In-line Embedded Vacuum Gauge

Global Vacuum Gauges Market, Segmentation by Application:

Semiconductor

Industrial Manufacturing

Medical

Others

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Companies Profiled:

Inficon

Atlas Copco

MKS Instruments

Busch

ULVAC

Teledyne Hastings Instruments

Azbil Corporation

Canon Anelva

Thyracont Vacuum Instruments

Brooks Instrument

Kurt J. Lesker

Agilent

Shanghai Zhentai

Ebara

Chengdu Zhenghua Electron Instrument

Key Questions Answered:
1. How big is the global Vacuum Gauges market?
2. What is the demand of the global Vacuum Gauges market?
3. What is the year over year growth of the global Vacuum Gauges market?

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4. What is the production and production value of the global Vacuum Gauges market?
5. Who are the key producers in the global Vacuum Gauges market?
6. What are the growth factors driving the market demand?

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