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Global Pirani Vacuum Gauge Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Pirani Vacuum Gauge market size is expected to reach $ 106 million by 2032, rising at a market growth of 4.7% CAGR during the forecast period (2026-2032).

Pirani Vacuum Gauge is a thermal conductivity-based vacuum measurement instrument that measures gas pressure by utilizing the relationship between gas thermal conductivity and vacuum pressure. The device typically uses a heated wire or thin-film sensing element and determines pressure changes by detecting variations in heat transfer caused by changes in gas molecule density. As the vacuum level increases and gas pressure decreases, fewer gas molecules are available to transfer heat away from the sensing element, resulting in changes in temperature and electrical resistance. These changes are processed by electronic circuits and converted into corresponding vacuum pressure readings. Pirani Vacuum Gauges are characterized by simple construction, fast response time, long service life, cost-effectiveness, and easy maintenance. They typically operate over a pressure range of approximately 10? Pa to 10?? Pa and are widely used in vacuum pumping systems, semiconductor equipment, vacuum coating systems, vacuum furnaces, industrial vacuum processing, research instruments, and foreline vacuum monitoring applications. As one of the most commonly used basic vacuum measurement technologies, Pirani Vacuum Gauges play an essential role in modern vacuum systems.

In 2025, global Pirani Vacuum Gauge production reached 50 k units, and average price was 1500 US$/unit, with gross margin 40%.

The Pirani Vacuum Gauge market is experiencing steady growth driven by increasing demand from semiconductor manufacturing, industrial vacuum systems, vacuum coating, photovoltaic production, automation equipment, and scientific research

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applications. As one of the most widely used thermal conductivity-based vacuum measurement technologies, Pirani Vacuum Gauges offer advantages including simple design, cost-effectiveness, fast response, high reliability, and easy maintenance. They are widely used for foreline pressure monitoring, vacuum pump control, evacuation process monitoring, and system protection functions, making them essential components in many industrial vacuum applications.

The semiconductor industry is an important driver for technological development in Pirani Vacuum Gauges. With the expansion of wafer fabrication, etching, deposition processes such as CVD and PVD, cleaning equipment, and advanced packaging technologies, vacuum systems increasingly require more stable, faster, and intelligent pressure monitoring solutions. As a result, Pirani Vacuum Gauges are evolving toward digitalization, miniaturization, improved accuracy, and intelligent system integration. Modern semiconductor and industrial vacuum equipment increasingly adopts digital Pirani gauges combined with cold cathode or hot cathode ionization gauges to achieve wide-range pressure measurement from atmospheric pressure to high vacuum conditions. In addition, applications in vacuum coating, solar cell manufacturing, vacuum heat treatment, laboratory vacuum systems, and industrial packaging continue to support market demand.

Future competition in the Pirani Vacuum Gauge market will focus on sensor stability, contamination resistance, temperature compensation, digital communication capability, and integration with intelligent vacuum control platforms. Global vacuum technology companies maintain strong positions in premium industrial and semiconductor applications due to their advanced sensor technologies and established customer networks. Meanwhile, Chinese manufacturers are strengthening their capabilities as domestic vacuum equipment development, semiconductor localization, and industrial manufacturing upgrades continue. Although Pirani Vacuum Gauges generally have lower unit prices compared with advanced ionization gauges, their broad application range, high installation volume, and critical role in vacuum systems make them a stable and important segment within the global vacuum measurement industry.

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

This report is a detailed and comprehensive analysis of the world market for Pirani Vacuum Gauge 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 Pirani Vacuum Gauge that

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contribute to its increasing demand across many markets.

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

This report profiles key players in the global Pirani Vacuum Gauge 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 Pirani Vacuum Gauge 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 Pirani Vacuum Gauge Market, By Region:

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United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Pirani Vacuum Gauge Market, Segmentation by Type:

Wire Pirani Gauge

Thin Film Pirani Gauge

Global Pirani Vacuum Gauge Market, Segmentation by Heating Control Method:

Constant Temperature Pirani Gauge

Constant Current Pirani Gauge

Constant Voltage Pirani Gauge

Others

Global Pirani Vacuum Gauge Market, Segmentation by Output Method:

Analog Pirani Vacuum Gauge

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Digital Pirani Vacuum Gauge

Global Pirani Vacuum Gauge Market, Segmentation by Application:

Industrial

Business

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

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Ebara

Key Questions Answered:
1. How big is the global Pirani Vacuum Gauge market?
2. What is the demand of the global Pirani Vacuum Gauge market?
3. What is the year over year growth of the global Pirani Vacuum Gauge market?
4. What is the production and production value of the global Pirani Vacuum Gauge market?
5. Who are the key producers in the global Pirani Vacuum Gauge market?
6. What are the growth factors driving the market demand?

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