

Global Semiconductor Residual Gas Analyzer Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G3201F51CCCBEN.html>

Date: May 2026

Pages: 116

Price: US\$ 4,480.00 (Single User License)

ID: G3201F51CCCBEN

Abstracts

The global Semiconductor Residual Gas Analyzer market size is expected to reach \$ 172 million by 2032, rising at a market growth of 5.2% CAGR during the forecast period (2026-2032).

Residual Gas Analyzer (RGA) is an advanced diagnostic tool used to measure the partial pressure of different gases in a mixture, even at very low concentrations. RGA is an independent vacuum system that uses differential pumping technology to sample gases at atmospheric pressure. A small amount of sample is ionized, and then the ions are accelerated through a mass separation filter to generate a mass spectrum, where each peak represents the functional relationship between the partial pressure of gas substances and their mass (up to 100 m/z). In 2025, global Semiconductor Residual Gas Analyzer production reached approximately 4,361 Units , with an average global market price of around US\$ 26,654 per unit.

The semiconductor residual gas analyzer market belongs to the high-end analytical instrument segment, showing a steady growth trend overall, mainly driven by investment in semiconductor manufacturing equipment and the development of advanced processes. With the evolution of chip processes towards smaller nodes, the requirements for vacuum environment purity and process stability have significantly increased, driving the demand for high sensitivity and high stability RGA. From the perspective of application structure, wafer manufacturing equipment is the core market, while the demand for advanced packaging and vacuum coating is gradually increasing. In terms of technological trends, products are developing towards high sensitivity, miniaturization, online real-time monitoring, and intelligent data analysis. In terms of competitive landscape, European and American manufacturers dominate the high-end market with core mass spectrometry technology advantages, while Asian manufacturers

are gradually entering the mid-range market. Overall, the industry presents the characteristics of 'high technological barriers, relatively small market size but strong growth certainty'.

This report studies the global Semiconductor Residual Gas Analyzer production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Semiconductor Residual Gas Analyzer 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 Semiconductor Residual Gas Analyzer that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Semiconductor Residual Gas Analyzer total production and demand, 2021-2032, (Units)

Global Semiconductor Residual Gas Analyzer total production value, 2021-2032, (USD Million)

Global Semiconductor Residual Gas Analyzer production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Semiconductor Residual Gas Analyzer consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Semiconductor Residual Gas Analyzer domestic production, consumption, key domestic manufacturers and share

Global Semiconductor Residual Gas Analyzer production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Semiconductor Residual Gas Analyzer production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Semiconductor Residual Gas Analyzer production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Semiconductor Residual Gas Analyzer 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, ULVAC Technologies, MKS Instruments, Stanford Research Systems (SRS), Pfeiffer Vacuum, Edwards Vacuum, Extorr, Horiba, Process Insights(Extrel CMS), Hiden Analytical, 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 Semiconductor Residual Gas Analyzer 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 Semiconductor Residual Gas Analyzer Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Semiconductor Residual Gas Analyzer Market, Segmentation by Type:

Mass Number Range 1-100 amu

Mass Number Range 1-200 amu

Mass Number Range 1-300 amu

Global Semiconductor Residual Gas Analyzer Market, Segmentation by Structural Form:

Portable

Desktop

Global Semiconductor Residual Gas Analyzer Market, Segmentation by Detector Type:

FC

EM

Global Semiconductor Residual Gas Analyzer Market, Segmentation by Application:

IDM

Foundry

Companies Profiled:

Inficon

ULVAC Technologies

MKS Instruments

Stanford Research Systems (SRS)

Pfeiffer Vacuum

Edwards Vacuum

Extorr

Horiba

Process Insights(Extrel CMS)

Hiden Analytical

Leybold

Shanghai Accurate Technologies

Key Questions Answered:

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

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