

Global Semiconductor Leak Detectors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Semiconductor Leak Detectors market size is expected to reach \$ 365 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

Semiconductor leak detectors are specialized precision testing instruments used in semiconductor manufacturing, packaging and testing, as well as supporting process steps. They are mainly applied to locate, quantitatively detect and perform online qualification of micro leaks in vacuum systems, high-purity gas pipelines, key components and packaged devices. The mainstream technology is helium mass spectrometry leak detection, which uses helium as a tracer gas and accurately identifies leaked helium molecules through a mass spectrometry module to achieve ultra-high-sensitivity detection. Hydrogen tracing, pressure differential method or mass flow method are also adopted in certain applications. Common configurations of the equipment include portable, benchtop and cabinet-mounted types. Core components consist of a mass spectrometry detection unit, high-sensitivity sensors, vacuum pumping systems, valve islands, calibrated leaks, a sniffer probe, as well as control and data acquisition modules. These instruments meet the stringent ultra-low leak rate requirements of semiconductor processes, effectively ensuring the sealing integrity and operational reliability of process vacuums, high-purity gas delivery, device packaging and thermal management circuits. In 2025, global shipments of Semiconductor Leak Detectors were approximately 5,500 units, with an average selling price of US\$43,600 per unit and an average industry gross margin of around 47%.

The semiconductor leak detector market is evolving along four main trajectories: technological optimization, intelligent integration, diversified application scenarios, and accelerated domestic substitution. Advanced process nodes, along with Chiplet, 3D

stacking and HBM packaging, have driven increasingly stringent leak control standards. Helium mass spectrometry dominates high-end applications, while hydrogen tracing, dry oil-free designs and in-situ online technologies are gaining rapid adoption. Equipment is shifting from standalone testing to process-integrated self-inspection. Products are becoming smarter and more connected, integrating AI-based leak rate analysis, predictive maintenance and data traceability, fully supporting MES/SECS/GEM protocols and factory automation. Applications have expanded from vacuum chambers and specialty gas pipelines to advanced packaging, liquid cooling systems and power devices. Multi-mode integration, fast changeover and high stability have become core competitive advantages. International suppliers hold the ultra-high-end segment, while domestic equipment is rapidly advancing in the mid-to-high-end market with significantly rising penetration in local fabs and packaging and testing facilities. The industry is clearly trending toward higher precision, deeper integration, faster response and stronger domestic competitiveness.

This report studies the global Semiconductor Leak Detectors production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Semiconductor Leak Detectors total production and demand, 2021-2032, (K Units)

Global Semiconductor Leak Detectors total production value, 2021-2032, (USD Million)

Global Semiconductor Leak Detectors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Semiconductor Leak Detectors consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Semiconductor Leak Detectors domestic production, consumption, key domestic manufacturers and share

Global Semiconductor Leak Detectors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Semiconductor Leak Detectors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Semiconductor Leak Detectors production by Application, production, value,

CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Semiconductor Leak Detectors 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 Atlas Copco Group, NOY, Agilent Technologies, Shimadzu, Pfeiffer Vacuum+Fab Solutions, ULVAC, INFICON, ATEQ, VIC Leak Detection, Kyky Technology Co., Ltd., 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 Leak Detectors 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 Semiconductor Leak Detectors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Semiconductor Leak Detectors Market, Segmentation by Type:

Portable Type

Benchtop Type

Global Semiconductor Leak Detectors Market, Segmentation by Detection Principle:

Helium Mass Spectrometer Leak Detector

Hydrogen Leak Detector

Air Leak Detector

Others

Global Semiconductor Leak Detectors Market, Segmentation by Application:

Chip Manufacturing

Electronic Packaging

Others

Companies Profiled:

Atlas Copco Group

NOY

Agilent Technologies

Shimadzu

Pfeiffer Vacuum+Fab Solutions

ULVAC

INFICON

ATEQ

VIC Leak Detection

Kyky Technology Co., Ltd.

Anhui Wanyi Science And Technology Co.,Ltd.

Innomatec

HAIRUISI

LACO Technologies

Key Questions Answered:

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

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