

Global Helium Leak Detector for Battery Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Helium Leak Detector for Battery market size is expected to reach \$ 176 million by 2032, rising at a market growth of 6.7% CAGR during the forecast period (2026-2032).

A helium leak detector for battery is a precision testing instrument used to detect micro-leaks in battery cells, modules, packs, covers, weld seams, safety valves, cooling plates, and sealing structures by using helium as a tracer gas. It is applied to lithium-ion batteries, solid-state batteries, nickel-based batteries, button cells, cylindrical cells, prismatic cells, pouch cells, and battery thermal management components. Battery sealing quality is critical because leakage may cause electrolyte loss, moisture ingress, gas escape, corrosion, swelling, performance degradation, or safety risks. Helium leak detection is widely used in R&D validation, production inspection, welding quality control, and end-of-line testing.

Global production capacity is approximately 8 thousand units.

In 2025, global sales reached approximately 5.2 thousand units, with an average price of around KUS\$ 20.9 per unit, gross margin around 48%.

The helium leak detectors for battery applications are becoming increasingly important as battery products move toward higher energy density, stricter safety requirements, and larger-scale automated production. Compared with pressure decay or visual inspection methods, helium leak detection offers higher sensitivity and better reliability for micro-leak testing. Although the market faces challenges such as helium cost, equipment investment, and system integration complexity, demand remains strong in electric vehicles, energy storage, consumer electronics, and advanced battery manufacturing. In the future, battery helium leak detection systems will continue to

develop toward automation, faster testing speed, lower helium usage, and stronger data traceability.

Market Trend

The helium leak detector market for battery applications is developing toward higher automation, faster cycle time, dry-pump configuration, lower helium consumption, and stronger production-line integration. Battery manufacturers increasingly require customized leak detection systems for different cell formats, including cylindrical, prismatic, pouch, and button cells. Demand is also rising for vacuum chamber testing, accumulation testing, helium recovery systems, automatic loading and unloading, and digital traceability. As battery factories expand globally, leak detection equipment is shifting from standalone instruments to integrated testing stations. Future systems will emphasize high sensitivity, stable repeatability, clean operation, and compatibility with large-scale battery manufacturing lines.

Market Drive

The main drivers of helium leak detectors for battery applications include rapid growth in electric vehicles, energy storage systems, consumer electronics, power tools, and industrial battery products. Batteries require reliable sealing to ensure safety, long service life, and stable electrochemical performance. Even very small leaks may allow moisture ingress or electrolyte leakage, leading to capacity loss, swelling, corrosion, short circuit risk, or thermal runaway concerns. Stricter battery safety standards and higher energy density designs are increasing the need for accurate leak testing. Growth in automated battery production lines and quality traceability requirements further supports demand for helium leak detection equipment.

Upstream and Downstream

The upstream supply chain includes helium mass spectrometer modules, vacuum pumps, dry pumps, turbomolecular pumps, valves, pressure gauges, helium sensors, vacuum chambers, sealing fixtures, automation components, PLC systems, software, hoses, fittings, and helium gas suppliers. Key upstream participants include vacuum technology companies, sensor manufacturers, precision machining suppliers, automation equipment companies, and industrial gas providers. Downstream customers mainly include battery cell manufacturers, battery pack producers, EV battery suppliers, consumer electronics battery makers, energy storage system companies, battery equipment integrators, automotive OEMs, cooling plate manufacturers, and R&D

laboratories. These users apply helium leak detectors for sealing inspection, welding validation, pack testing, and failure analysis.

This report studies the global Helium Leak Detector for Battery production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Helium Leak Detector for Battery total production and demand, 2021-2032, (Units)

Global Helium Leak Detector for Battery total production value, 2021-2032, (USD Million)

Global Helium Leak Detector for Battery production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Helium Leak Detector for Battery consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Helium Leak Detector for Battery domestic production, consumption, key domestic manufacturers and share

Global Helium Leak Detector for Battery production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Helium Leak Detector for Battery production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Helium Leak Detector for Battery production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Helium Leak Detector for Battery 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 Shimadzu, Agilent, INFICON, Leybold, Pfeiffer Vacuum, ULVAC, Edwards Vacuum, Canon Anelva, VIC Leak Detection, LACO Technologies, 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 Helium Leak Detector for Battery market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K 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 Helium Leak Detector for Battery Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Helium Leak Detector for Battery Market, Segmentation by Type:

Benchtop

Mobile

Global Helium Leak Detector for Battery Market, Segmentation by Detection Method:

Vacuum Method

Sniffer Method

Others

Global Helium Leak Detector for Battery Market, Segmentation by Degree of Automation:

Fully Automatic

Semi-automatic

Global Helium Leak Detector for Battery Market, Segmentation by Application:

Power Battery

Energy Storage Battery

Consumer Electronics Battery

Others

Companies Profiled:

Shimadzu

Agilent

INFICON

Leybold

Pfeiffer Vacuum

ULVAC

Edwards Vacuum

Canon Anelva

VIC Leak Detection

LACO Technologies

Wanyi Technology

NOY

Ditea

Bowei

KYKY

REBORN

Keyi Vacuum

ALLIANCE CONCEPT

Key Questions Answered:

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

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