

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

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Abstracts

The global Helium Leak Detector for Power Battery market size is expected to reach \$ 134 million by 2032, rising at a market growth of 6.5% CAGR during the forecast period (2026-2032).

A helium leak detector for power battery is a precision testing instrument used to detect micro-leaks in EV power battery cells, modules, packs, covers, weld seams, safety valves, cooling plates, and sealing structures by using helium as a tracer gas. It is mainly applied to lithium-ion power batteries, including prismatic, cylindrical, pouch, and blade-type cells. Power battery sealing quality is critical because leakage may cause electrolyte loss, moisture ingress, corrosion, capacity degradation, swelling, or safety risks. Helium leak detection is widely used in cell production, laser welding inspection, module assembly, pack sealing, and end-of-line quality control.

Global production capacity is approximately 8 thousand units.

In 2025, global sales reached approximately 4.1 thousand units, with an average price of around KUS\$ 20.6 per unit, gross margin around 48%.

The helium leak detectors for power batteries represent a high-growth application within the leak detection equipment market. Their demand is strongly supported by EV production expansion, battery safety standards, and the need for reliable, traceable quality control. Compared with pressure decay or visual inspection methods, helium leak detection offers higher sensitivity and better ability to identify micro-leaks in cells and battery components. Although helium cost, equipment investment, and system integration complexity remain challenges, the technology remains important for high-end power battery manufacturing. Future growth will focus on faster testing, lower helium consumption, automation, helium recovery, and integration with smart battery

production lines.

Market Trend

The power battery helium leak detector market is developing toward automation, high-speed testing, dry-pump systems, helium recovery, and production-line integration. Battery manufacturers increasingly require customized leak detection systems for different cell formats, large battery packs, cooling plates, and thermal management components. Demand is rising for vacuum chamber testing, accumulation testing, automatic loading and unloading, robotic handling, data traceability, and MES connection. As EV battery factories expand, leak detection equipment is shifting from standalone instruments to complete automated testing stations. Future products will emphasize faster cycle time, stable sensitivity, lower helium consumption, clean operation, and flexible compatibility with multiple battery designs.

Market Drive

The main drivers of helium leak detectors for power batteries are the rapid growth of electric vehicles, stricter battery safety requirements, and increasing demand for high-reliability sealing inspection. Power batteries operate under complex thermal, vibration, and charging conditions, so small leaks may lead to moisture ingress, electrolyte leakage, internal corrosion, reduced service life, or thermal safety risks. Higher energy density battery designs also raise the importance of precise leak testing. In addition, large-scale battery production requires fast, repeatable, and traceable quality inspection. This supports demand for automated helium leak detection systems in cell manufacturing, module assembly, and battery pack production.

Upstream and Downstream

The upstream supply chain includes helium mass spectrometer modules, dry vacuum pumps, turbomolecular pumps, valves, pressure gauges, helium sensors, vacuum chambers, sealing fixtures, automation modules, PLC systems, robotic handling systems, software, hoses, fittings, and helium gas suppliers. Key upstream companies include vacuum equipment suppliers, sensor manufacturers, precision machining firms, automation equipment providers, and industrial gas companies. Downstream customers mainly include power battery cell manufacturers, EV battery pack producers, automotive OEMs, energy storage companies, battery equipment integrators, cooling plate manufacturers, and R&D laboratories. These users apply helium leak detectors for cell sealing inspection, weld quality validation, pack airtightness testing, and failure analysis.

This report studies the global Helium Leak Detector for Power 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 Power 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 Power Battery that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Helium Leak Detector for Power 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 Power 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 Power Battery Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

Benchtop

Mobile

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

Vacuum Method

Sniffer Method

Others

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

Fully Automatic

Semi-automatic

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

Prismatic Cell

Cylindrical Cell

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

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