

Global Battery Cell Helium Leak Testing Systems Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Battery Cell Helium Leak Testing Systems market size is expected to reach \$ 428 million by 2032, rising at a market growth of 6.4% CAGR during the forecast period (2026-2032).

Battery Cell Helium Leak Testing Systems are high-precision inspection equipment used in lithium-ion battery manufacturing to detect micro-leaks in sealed battery cells using helium as a tracer gas. The system operates by filling or pressurizing the battery cell with helium and then using mass spectrometry or high-sensitivity sensors to identify leakage paths and quantify leak rates. This process ensures the sealing integrity, safety performance, and long-term reliability of battery cells. The equipment typically consists of vacuum chambers, helium injection systems, mass spectrometers, pressure control modules, robotic handling units, and data acquisition software. It is widely used in pouch, cylindrical, and prismatic battery production lines for quality assurance before final assembly or electrolyte filling. The industrial chain of Battery Cell Helium Leak Testing Systems includes upstream components such as mass spectrometers, helium supply systems, vacuum pumps, pressure sensors, sealing fixtures, robotic handling systems, control units, detection chambers, data acquisition systems, and industrial software. The midstream covers equipment design, leak detection system integration, vacuum chamber engineering, calibration development, detection algorithm optimization, automation integration, assembly, testing, and commissioning. Downstream users mainly include lithium-ion battery manufacturers, power battery producers, energy storage battery companies, consumer battery manufacturers, cylindrical/prismatic/pouch cell producers, and gigafactory production lines. Supporting services include helium supply management, calibration services, maintenance, software upgrades, spare parts supply, and operator training. In 2025, global Battery Cell Helium Leak Testing Systems production reached approximately 1,500 units, with

an average global market price of around US\$180,000 per unit. The gross profit margin of major companies in the industry is between 30%-55%. In 2025, the global production capacity of Battery Cell Helium Leak Testing Systems was approximately 2,000 units.

The Battery Cell Helium Leak Testing Systems market is growing steadily as lithium-ion battery manufacturers place increasing emphasis on safety, sealing integrity, and quality assurance. Helium leak detection has become a critical inspection step for high-end power batteries, energy storage systems, and premium consumer battery applications, especially where zero-leak performance is required. The technology provides extremely high sensitivity and accuracy compared with traditional pressure decay or bubble testing methods, enabling detection of micro-level leakage that directly impacts battery safety and lifecycle performance. Demand is driven by the expansion of gigafactory production, stricter quality standards for electric vehicles, and increasing export certification requirements. Equipment trends include higher automation levels, multi-station testing systems, faster cycle times, and integration with digital traceability platforms. However, challenges remain in helium consumption cost, system complexity, calibration requirements, and integration into high-speed battery production lines. Suppliers with strong vacuum technology, mass spectrometry expertise, and automation integration capabilities are more competitive.

This report studies the global Battery Cell Helium Leak Testing Systems production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Battery Cell Helium Leak Testing Systems total production and demand, 2021-2032, (Units)

Global Battery Cell Helium Leak Testing Systems total production value, 2021-2032, (USD Million)

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

Global Battery Cell Helium Leak Testing Systems consumption by region & country,

CAGR, 2021-2032 & (Units)

U.S. VS China: Battery Cell Helium Leak Testing Systems domestic production, consumption, key domestic manufacturers and share

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

Global Battery Cell Helium Leak Testing Systems production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Battery Cell Helium Leak Testing Systems production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Battery Cell Helium Leak Testing Systems 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 Marposs S.p.A., Pfeiffer Vacuum GmbH, INFICON Holding AG, Leybold GmbH, Agilent Technologies, Inc., ULVAC, Inc., Shimadzu Corporation, ZELTWANGER Holding GmbH, innomatec Test- und Sonderanlagen GmbH, JW Froehlich Maschinenfabrik GmbH, 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 Battery Cell Helium Leak Testing Systems 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 Battery Cell Helium Leak Testing Systems Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Battery Cell Helium Leak Testing Systems Market, Segmentation by Type:

Inline Battery Cell Helium Leak Testing System

Offline Automated Battery Cell Helium Leak Testing System

Global Battery Cell Helium Leak Testing Systems Market, Segmentation by Equipment Cavity Structure:

Single-Chamber Helium Leak Testing System

Dual-Chamber Helium Leak Testing System

Multi-Chamber Helium Leak Testing System

Global Battery Cell Helium Leak Testing Systems Market, Segmentation by Minimum Detectable Leak Rate:

Minimum Detectable Leak Rate Above 1×10^{-10} mbar·L/s

Minimum Detectable Leak Rate 1×10^{-10} to 1×10^{-11} mbar·L/s

Minimum Detectable Leak Rate Below 1×10^{-10} mbar·L/s

Global Battery Cell Helium Leak Testing Systems Market, Segmentation by Application:

Prismatic Battery Cells

Cylindrical Battery Cells

Pouch Battery Cells

Button and Specialty Battery Cells

Companies Profiled:

Marposs S.p.A.

Pfeiffer Vacuum GmbH

INFICON Holding AG

Leybold GmbH

Agilent Technologies, Inc.

ULVAC, Inc.

Shimadzu Corporation

ZELTWANGER Holding GmbH

innomatec Test- und Sonderanlagen GmbH

JW Froehlich Maschinenfabrik GmbH

Cincinnati Test Systems, Inc.

LACO Technologies, Inc.

ATEQ Group (Vacuum Instruments Corporation)

Anhui Wanyi Science and Technology Co., Ltd.

Wuxi Lead Intelligent Equipment Co., Ltd.

Yamaha Fine Technologies Co., Ltd.

Shanghai Tianyong Engineering Co.,Ltd.

COSMO Instruments Co., Ltd.

Key Questions Answered:

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

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