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Global Secondary Helium Leak Detection Machine Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Secondary Helium Leak Detection Machine market size was valued at US$ 123 million in 2025 and is forecast to a readjusted size of US$ 244 million by 2032 with a CAGR of 10.3% during review period.

Secondary Helium Leak Detection Machines are precision leak testing equipment used in battery manufacturing for secondary airtightness inspection after cell filling, sealing, welding, or aging processes. The equipment uses helium as a tracer gas and vacuum detection methods to identify micro-leakage in battery cells, sealing areas, injection ports, weld seams, and covers. It is mainly applied in prismatic cells, cylindrical cells, pouch cells, power batteries, energy storage batteries, and high-reliability battery production lines.The industrial chain of Secondary Helium Leak Detection Machines includes upstream suppliers of helium mass spectrometers, vacuum pumps, vacuum chambers, helium recovery systems, valves, pressure sensors, sealing fixtures, motion control modules, PLC systems, and industrial software. Midstream manufacturers integrate vacuum detection chambers, helium detection modules, cell loading and unloading systems, sealing fixtures, leak rate calculation software, helium recovery units, and automation control systems into complete equipment. Downstream applications include battery cell manufacturing, power battery production, energy storage battery production, cylindrical cell lines, prismatic cell lines, pouch cell lines, and battery quality inspection. Supporting services include installation, calibration, leak standard verification, fixture replacement, maintenance, software upgrades, and operator training.In 2025, global Secondary Helium Leak Detection Machine production reached approximately 500 units, with an average global market price of around US$240,000 per unit. The gross profit margin of major companies in the industry is

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between 35%?55%. In 2025, the global production capacity of secondary helium leak detection machines was approximately 694 units.

The Secondary Helium Leak Detection Machine market is driven by increasing battery safety requirements, rapid expansion of lithium battery production capacity, and stricter quality control in cell sealing processes. As power batteries and energy storage batteries require higher reliability, leakage detection after filling, sealing, welding, or aging has become an important inspection step. Helium leak testing offers high sensitivity, strong repeatability, and accurate micro-leak detection, making it suitable for high-value battery cells and automated production lines. Equipment suppliers are improving detection speed, leak rate accuracy, helium recovery efficiency, fixture compatibility, automation integration, and data traceability. Demand is supported by power battery factories, energy storage battery plants, cylindrical cell capacity expansion, and prismatic cell production upgrades. Overall, the market is expected to grow steadily with higher safety standards and battery manufacturing automation.

This report is a detailed and comprehensive analysis for global Secondary Helium Leak Detection Machine market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Secondary Helium Leak Detection Machine market size and forecasts, in consumption value ($ Million), sales quantity (Units), and average selling prices (K US$/Unit), 2021-2032

Global Secondary Helium Leak Detection Machine market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Units), and average selling prices (K US$/Unit), 2021-2032

Global Secondary Helium Leak Detection Machine market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Units), and average selling prices (K US$/Unit), 2021-2032

Global Secondary Helium Leak Detection Machine market shares of main players,

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shipments in revenue ($ Million), sales quantity (Units), and ASP (K US$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Secondary Helium Leak Detection Machine

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Secondary Helium Leak Detection Machine market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Wuxi Lead Intelligent Equipment Co., Ltd., Guangdong Pengjin Intelligent Equipment Co., Ltd., Shenzhen Utimes Intelligent Equipment Co., Ltd., Marposs S.p.A., Guangdong Aohong Intelligent Equipment Co., Ltd., Yamaha Fine Technologies Co., Ltd., ZELTWANGER Leaktesting & Automation GmbH, JW Froehlich Maschinenfabrik GmbH, innomatec Mess- und Schnellanschluss-Systeme GmbH, Vacuum Engineering Services UK Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Secondary Helium Leak Detection Machine market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Vacuum Chamber Secondary Helium Leak Detecting Machine

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Accumulation Chamber Secondary Helium Leak Detecting Machine

Sniffer Secondary Helium Leak Detecting Machine

Helium Bombing Secondary Leak Detecting Machine

Market segment by Equipment Integration Form

Manual Loading Helium Leak Test Workstation

Semi Automatic Standalone Secondary Helium Leak Detecting Machine

Automatic Standalone Secondary Helium Leak Detecting Machine

Market segment by Nominal Production Throughput Class

Low Throughput Secondary Helium Leak Detecting Machine, Less Than 10 Pieces Per Minute

Medium Throughput Secondary Helium Leak Detecting Machine, At Least 10 And Less Than 30 Pieces Per Minute

High Throughput Secondary Helium Leak Detecting Machine, At Least 30 And Less Than 60 Pieces Per Minute

Ultra High Throughput Secondary Helium Leak Detecting Machine, At Least 60 Pieces Per Minute

Market segment by Minimum Detectable Leak Rate Class

Standard Sensitivity Helium Leak Detecting Machine, Minimum Detectable Leak Rate More Than 1E-6 Pa Cubic Metre Per Second

High Sensitivity Helium Leak Detecting Machine, More Than 1E-8 And Not More Than 1E-6 Pa Cubic Metre Per Second

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Fine Sensitivity Helium Leak Detecting Machine, More Than 1E-10 And Not More Than 1E-8 Pa Cubic Metre Per Second

Ultra Fine Sensitivity Helium Leak Detecting Machine, Not More Than 1E-10 Pa Cubic Metre Per Second

Market segment by Application

Power Battery

Energy Storage Battery

Consumer Battery

Major players covered

Wuxi Lead Intelligent Equipment Co., Ltd.

Guangdong Pengjin Intelligent Equipment Co., Ltd.

Shenzhen Utimes Intelligent Equipment Co., Ltd.

Marposs S.p.A.

Guangdong Aohong Intelligent Equipment Co., Ltd.

Yamaha Fine Technologies Co., Ltd.

ZELTWANGER Leaktesting & Automation GmbH

JW Froehlich Maschinenfabrik GmbH

innomatec Mess- und Schnellanschluss-Systeme GmbH

Vacuum Engineering Services UK Ltd.

InterTech Development Company

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Sciemetric Instruments Inc.

LOGICS CORPORATION

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Secondary Helium Leak Detection Machine product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Secondary Helium Leak Detection Machine, with price, sales quantity, revenue, and global market share of Secondary Helium Leak Detection Machine from 2021 to 2026.

Chapter 3, the Secondary Helium Leak Detection Machine competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Secondary Helium Leak Detection Machine breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

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Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Secondary Helium Leak Detection Machine market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Secondary Helium Leak Detection Machine.

Chapter 14 and 15, to describe Secondary Helium Leak Detection Machine sales channel, distributors, customers, research findings and conclusion.

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