

New energy battery cabinet helium inspection equipment



**2MW / 5MWh
Customizable**





Overview

What is a helium test machine?

Machine designed to test complete cells before electrolyte filling and sealing. The same type of machine can be used to check finished cells after filling and sealing, in particular using the helium as tracer gas when it has been filled in the cell with the electrolyte.

What is HMI helium recovery system?

HMI is made by a touch-screen color monitor. The equipment provides separate outlet ports for helium and air discharge and it is suitable to be connected to a helium recovery system. Output rate: 1 piece each 5 secs. (8 pcs each 40 secs.).

Can helium be used as a tracer gas?

During the electrolyte filling and before sealing, it could be allowed to add an inert gas like Helium inside the cell or to perform the sealing operation in an environment saturated with Helium. In this condition a test with Helium as tracer gas in vacuum chamber can be performed.

How helium is used in a bombing cell?

The tested cell is firstly introduced into the bombing chamber, filled with high pressure Helium. In presence of a sealing defect in the housing, the helium will enter the cell. The cell is then moved to the vacuum chamber, where the helium will be free to exit from the cell through the same sealing defect.

How does a helium tracing machine work?

The same type of machine can be used to check finished cells after filling and sealing, in particular using the helium as tracer gas when it has been filled in the cell with the electrolyte. The machine provides two vacuum chambers, with automatic opening and closing, assembled on a welded and painted steel frame with movable panels.



What happens if helium leaks in a cell?

In presence of a sealing defect in the housing, the helium will enter the cell. The cell is then moved to the vacuum chamber, where the helium will be free to exit from the cell through the same sealing defect. The mass spectrometer will detect the presence of helium in the chamber and measure the size of the leakage



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- ✓ 100KWH/215KWH
- ✓ LIQUID/AIR COOLING
- ✓ IP54/IP55
- ✓ BATTERY 6000 CYCLES

New Energy Vehicle Battery Direct Cooling Plate Helium ...

This equipment is a direct cooling plate airtight helium leak detector, which mainly includes the processes of loading, scanning, vacuuming for gross leak detection, vacuuming again, helium ...

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SIMS 1915+ Helium Leak Detection System and its Applications

Each SIMS 1915+ helium leak testing equipment is built to the customer's specifications. SIMS 1915+ can do quantitative CCI analyses on packages with sensitivity as low as 1×10^{-10} mbar ...

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CE UN38.3 MSDS



Helium Sniffing Leak Test System

Helium leak testing is the most powerful in-line operation for quality control, and marposs' basic solution includes a modular design for easy upgrading of the leak testing station.

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New Energy Battery End Cap Helium Inspection Machine

Working Principle: The helium leak detection system utilizes helium as a tracer gas to detect leaks in battery end covers. By isolating the two sides of the cover and introducing ...



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Custom case-New energy-Square battery automatic ...

The equipment has high leak detection accuracy and low false detection rate, which is in line with customers' production requirements and suitable for ...

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Sniffer-type power battery pack sealing helium inspection equipment

The HJ181 suction gun helium inspection equipment is specially designed for new energy vehicle battery packs. With an extreme sensitivity of 0.001 ppm/s and a helium recovery rate of 95%, it ...

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Leak Testing Of Battery Cells By Helium Tracing

Double Chamber automatic machine for in-line leak testing of prismatic battery cells with central sliding cart for loading/unloading. Principle of measurement: ...

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New Energy Vehicle Battery Direct Cooling Plate Helium Inspection

This equipment is a direct cooling plate airtight helium leak detector, which mainly includes the processes of loading, scanning, vacuuming for gross leak detection, vacuuming again, helium ...



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New Energy Battery X-ray Inspection Equipment Market

The New Energy Battery X-ray Inspection Equipment market involves advanced technologies used to inspect batteries for defects and quality assurance using X-ray imaging.

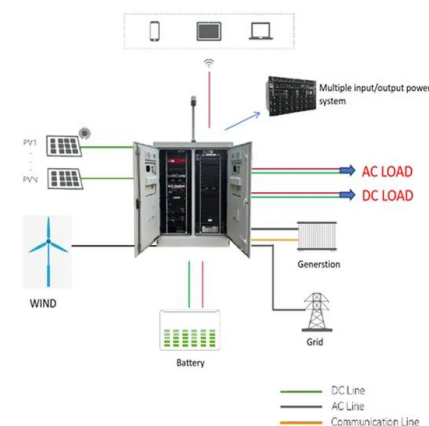
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Leak Testing Of Battery Cells By Helium Tracing

Double Chamber automatic machine for in-line leak testing of prismatic battery cells with central sliding cart for loading/unloading. Principle of measurement: global test in vacuum chamber ...

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VACUUM TECHNOLOGY? LEAK TIGHTNESS ...

Helium leak detection equipment can detect the overall leakage rate, fast detection tempo, no human factors interference, detection process can be ...

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Custom case-New energy-Square battery automatic helium leak ...

The equipment has high leak detection accuracy and low false detection rate, which is in line with customers' production requirements and suitable for modern production lines.

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Customized helium detection equipment for the new energy ...

The application of helium detection technology in the manufacture of power batteries is mainly reflected in its high sensitivity, fast response and non-destructive testing characteristics, thus ...

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New energy battery cabinet inspection and maintenance

At least once per year, the quarterly inspection will be augmented as follows: In the case of a lead-antimony battery, measure and record specific gravity and electrolyte temperature of all cells. ...

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Battery industry

In the new energy industry, we have developed a complete set of helium inspection equipment from cell to pack. UHT has provided industry customers ...

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Helium inspection equipment

Based on the traditional helium detection method, the back-pressure helium detection for sealing is introduced. The sealing, peripheral welding, and ...

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Lithium battery automatic helium inspection machine

Lithium battery automatic helium inspection machine 2024-10-31 share: Previous: New energy vacuum tank helium leak detection system Next: ...

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New Energy Battery X-ray Inspection Equipment Market

Rising adoption of electric vehicles (EVs) and energy storage systems is driving demand for advanced X-ray inspection equipment tailored to new energy battery manufacturing.

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Helium inspection equipment

Based on the traditional helium detection method, the back-pressure helium detection for sealing is introduced. The sealing, peripheral welding, and overall detection of the pole column are ...

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Lithium battery laser sealing helium inspection technology

The equipment mainly uses helium inspect method to complete the sealing test function of the battery after the welding of the top cover.
Advantage 1 tomatic helium cleaning to improve ...

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News

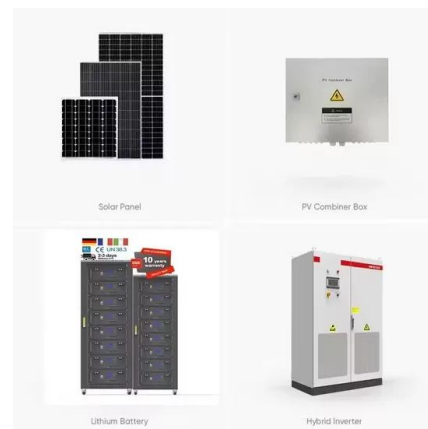
On November 28, 2023, the 8th International Summit on power battery applications (cbis2023) was grandly opened in Shanghai, announcing the official launch of the annual new ...

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????????????Helium inspection machine for new energy pow battery ...

31 Likes, TikTok video from New Energy Auto Parts Equipmen (@liuw42173):
"????????????Helium inspection machine for new energy pow battery

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Battery Inspection Checklist

This detailed Battery Inspection Checklist ensures battery performance and safety. This checklist, which includes both visual and ...

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Helium leak detection equipment

With the rapid development of new energy vehicles, the sealing of the battery cooling system is directly related to driving safety. The HJ173 automotive ...

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INTEGRATED DESIGN
EASY TO TRANSPORT AND INSTALL,
FLEXIBLE DEPLOYMENT



New energy battery safety testing must: Precision Engineering ...

This article introduces the Precision Industrial Technology helium detection breath burst comprehensive tester, which integrates helium detection, breath testing, bursting and ...

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New Energy Visual Inspection Equipment

This customizable visual inspection system is specifically designed for new energy components such as battery casings, electrode sheets, and motor parts.

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51.2V 300AH

New energy battery safety testing must: Precision Engineering helium

This article introduces the Precision Industrial Technology helium detection breath burst comprehensive tester, which integrates helium detection, breath testing, bursting and ...

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New energy lithium battery square aluminum shell ...

Bowei photoelectric new energy automobile lithium battery automatic He inspection machine manufacturers recently learned that in order ...

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Battery industry

In the new energy industry, we have developed a complete set of helium inspection equipment from cell to pack. UHT has provided industry customers with an original air tight helium ...

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