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Upton Automation Systems Co., Ltd. (Kunshan/Guangzhou/Wuhan/Nanjing)

**Application of
Helium Mass Spectrometer
for Leak Detection**



ABOUT US

Upton Automation Systems Co., Ltd., established in 2005, is a high-tech intelligent equipment group enterprise mainly engaged in automated assembly and testing lines. We can provide complete solutions for Industry 4.0 and digital intelligent factories, and are a world-class supplier of assembly and testing solutions.

Our customers are mainly concentrated in the automotive industry. Since Upton establishment, we have successfully provided complete production line solutions for numerous automotive OEMs and component suppliers, becoming the best choice for domestic alternatives in the field of assembly and testing. At the same time, our products are also exported to Europe, America, and Southeast Asia.

The company has 11 authorized invention patents, more than 100 patent for utility model and more than 30 software copyrights currently, and now has three subsidiary factories, one CNAS laboratory and an annual revenue of more than 400 million RMB. In addition to providing complete industrial equipment and production lines, we also provide unique software services for major manufacturers, including a series of software products such as factory Manufacturing Execution Systems (MES), production scheduling, Andon, WMS, FMEA and production monitoring center.



Some Cases of Helium Leak Test for Die-casting Parts



Helium Leak Test Equipment for Thermal Shell



Helium Leak Test Equipment for PACK Box



Helium Leak Test Equipment for UQD Liquid Cooled Connector



Helium Leak Test Equipment for Motor Housing



Helium Leak Test Equipment for Oil Cooler



Helium Leak Test Equipment for Condenser

The Main Methods for Helium Leak Test

The helium mass spectrometer leak detector is a complete system based on the principle of mass spectrometry, using helium as a tracer gas to locate or measure the leakage of vacuum equipment and sealing devices quantitatively or qualitatively.

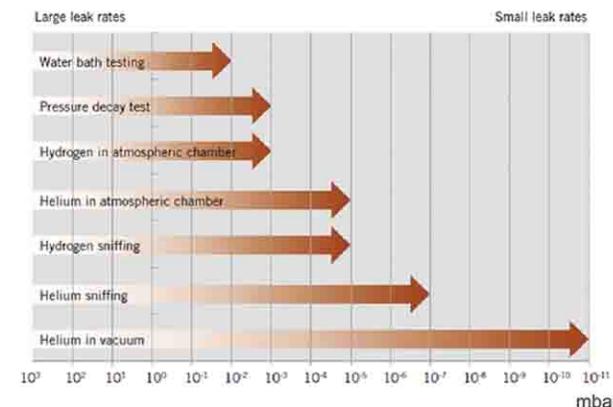


Vacuum Chamber Leak Test

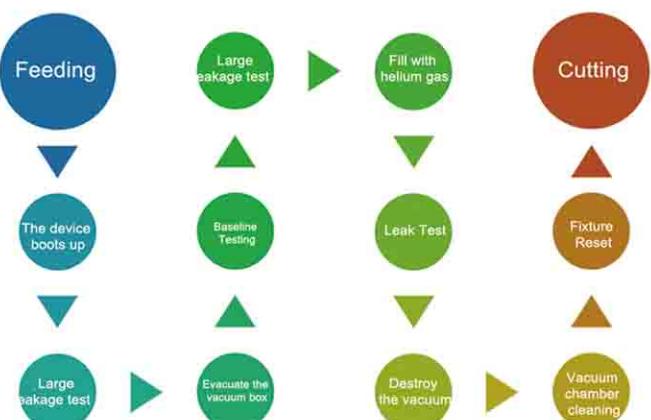
Sniffer Leak Test

Accumulation Leak Test

Leak levels of various test methods



The main process of helium leak test



Our Cases



Helium Leak Test System for Fuel Tank



Helium Leak Test System for Cylinder Cell



Helium Leak Test System for Car Rim



Helium Leak Test System for Fuel Filler Tube



Helium Leak Test System for Compressor



Helium Leak Test System for Air Bag



Sniffer Helium Leak Test System for Pack Housing



Helium Leak Test System for Pressure Transducer