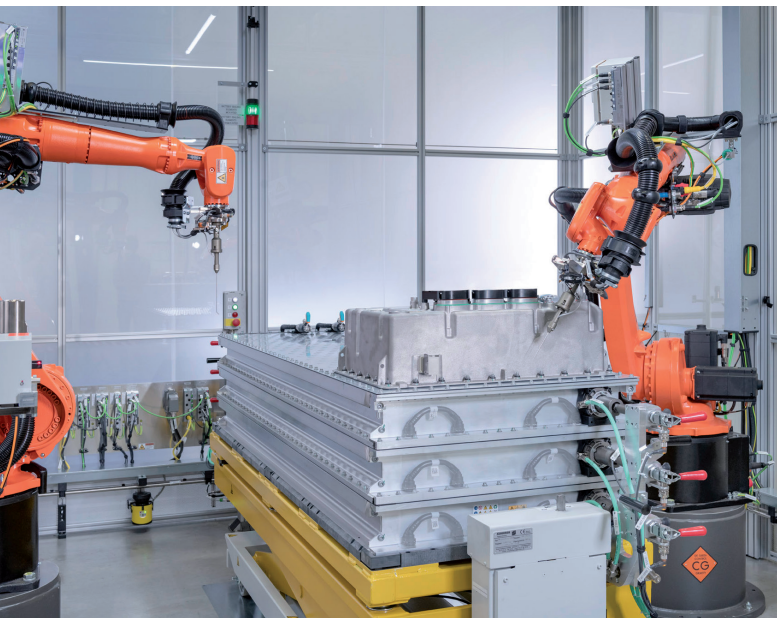


Helium Leak Testing for Batteries

Numerous measuring points.
Precise detection.

Test stands for helium leak testing



Reliable and efficient – thanks to extensive experience

Permanent leak tightness is a key prerequisite of batteries used in e-mobility. A German manufacturer required test stands which are able to safely test high quantities of components in very little time to start serial production. Their objective was: maximum product and process safety at optimum cost efficiency.

Test stand	Test stands for leak testing with helium
Test part	HGV batteries
Project duration	8 months to delivery

Helium leak testing is one of the most precise leak test methods available. It is the ideal approach when high precision really matters – such as with e-mobility. There is very little helium in the ambient air, enabling reliable test results even when only slightly increased concentrations of the gas can be detected. The concentration of the helium/gas mixture can vary depending on the task at hand, making it possible to use it cost-efficiently.



Test stands for helium leak testing



Finding more faults thanks to helium leak testing

Helium leak testing has a major advantage over air leak testing: It is able to detect even very small leaks. This method of testing uses a sniffer probe to scan all possible leakage points of a test part, enabling it to particularly reliably detect and later repair possible faults.

Cost-efficient solution for optimum quality control

The serial production of batteries requires automatic quality control. Testing must produce safe and reliable results to guarantee the leak tightness of a battery, avoiding for example short circuits due to splashing. The client also set the specification that JW Froehlich needed to come up with an economical solution.

Decade-long expertise and tailored support

As early as during the tender stage, JW Froehlich was able to provide expert support to the battery manufacturer as they had already conducted fundamental testing in this field. What's more, JW Froehlich can look back on decades of experience in helium leak testing. During a mapping, the test part was closely inspected and a solution was found in close cooperation with the client: tailor-made test stands for two different locations. Based on these developments, another 20 test stands were ordered at a later date.

Safe production and long-term product safety

An optimum solution could be found to implement the client's quality control requirements for their batteries thanks to JW Froehlich's decade-long expertise and the ability of helium leak tests to detect even very low leak rates. The solution delivered strong process and product safety as well as high product quality and was even cost-efficient.

Have we piqued your interest?

For questions about the project and its technical details, please refer to your direct contact:

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