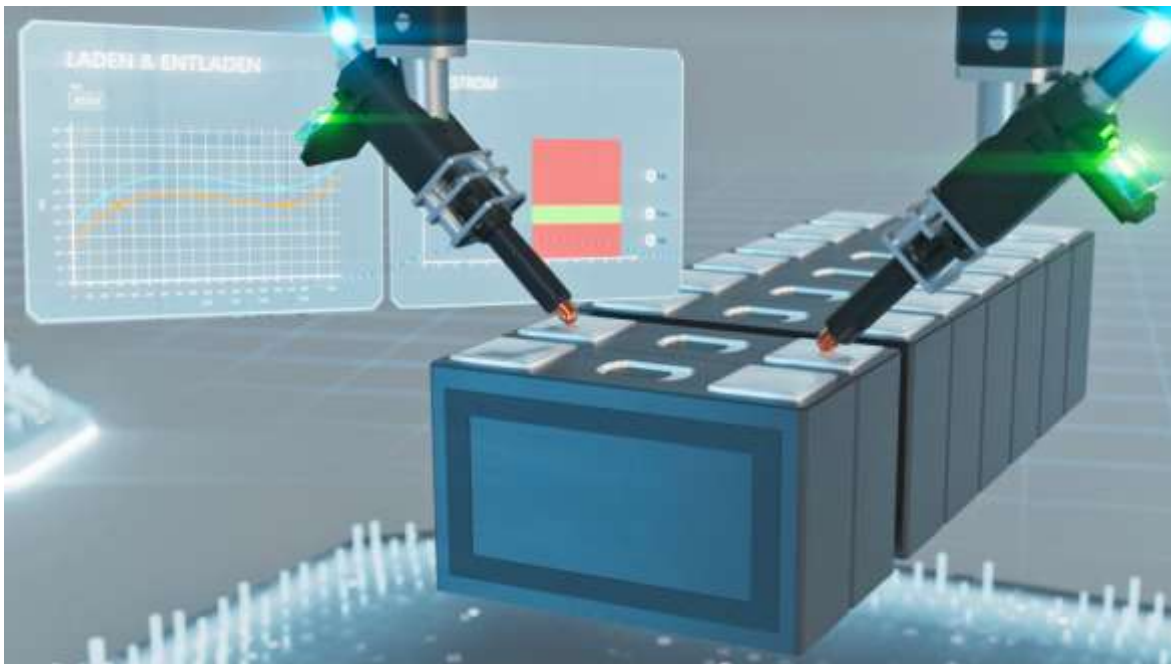


Press Release

Fast and flexible test device for safety and functional testing of battery cells

Automated testing and evaluation of cell condition and quality for greater reliability and quality assurance of high-voltage batteries

High-voltage batteries for e-mobility have become highly complex systems consisting of numerous components. The market for these batteries is becoming increasingly dynamic, and technologies are constantly evolving: innovative battery cells with new chemical compositions are being introduced. Automotive suppliers and manufacturers therefore require a tailored and flexible testing strategy for battery cell quality assurance, both in development and in production. Only in this way can suppliers compete in the market with more powerful batteries, higher levels of automation, and optimized workflows.



To address these challenges, GÖPEL electronic has developed a high-performance and quickly configurable battery cell tester that features a modular design and high flexibility. This allows for the quick and transparent determination of quality, charging efficiency, and reliability in up to five battery cells simultaneously. The tester complements the product portfolio, which includes, among

Press Contact:

GÖPEL electronic GmbH
Stefan Böttinger
Göschwitzer Straße 58/60
07745 Jena

Tel.: +49 (0)3641-6896-741
Fax: +49 (0)3641-6896-944
E-Mail: presse@goepel.com
Internet: www.goepel.com

other things, GÖPEL electronic's EOL battery test system, which performs comprehensive test routines for the entire battery pack.

The new battery cell tester covers standard safety tests that evaluate the condition of the cells: The OCV (Open Circuit Voltage) value indicates the voltage of a battery without a load (open circuit) and serves as an indicator of its state of charge. For the ACIR (Alternating Current Internal Resistance) measurement, the tester uses a test method to determine the internal resistance of the battery cells. This internal resistance under alternating current provides information about the performance, state of aging, and quality of the battery cell.

The main advantage of the new, smaller tester from GÖPEL electronic lies in its fast and reproducible test results: By interfacing with automated equipment, highly efficient batch testing can be performed in a matter of seconds. This is ideal, for example, for incoming inspection or cell grouping.

The new battery cell tester is now available from GÖPEL electronic.

About GÖPEL electronic

GÖPEL electronic develops and manufactures innovative electrical and optical test, measurement, and inspection equipment for electronic components and printed circuit board assemblies as well as industrial and automotive electronics systems. GÖPEL electronic has four business units:

- Automotive Test Solutions
- Embedded JTAG Solutions
- Inspection Solutions AOI-AXI-SPI-IVS
- Industrial Function Test

The company is active worldwide, with its own subsidiaries as well as through distributors, and generated sales of approximately 40 million euros in 2023 with 240 employees.

Further information: www.goepel.com/en

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E-Mail: presse@goepel.com
Internet: www.goepel.com