

PR242026
Battery Show

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***Beckhoff at the Battery Show Europe 2026:
Hall 1, Booth 1-G30***

More efficiency, more productivity, more quality: PC-based control in battery production

At the Battery Show Europe 2026 – held from June 9 to 11 in Stuttgart – Beckhoff will be demonstrating how flexible automation can improve battery production processes. Beckhoff's appearance at the exhibition will focus on topics including the virtualization of control technology as well as high-resolution measurement technology for test bench automation. This gives machine builders and end users the tools they need to increase output while reducing engineering and hardware costs.

The rapidly growing battery industry demands adaptable automation concepts for the entire supply chain – from raw material extraction to cell production and all the way to recycling. Visitors to Beckhoff's booth (Hall 1, Booth 1-G30) will experience how PC-based control creates the basis for flexible and resource-saving battery production processes. Highlights in this context include real-time controllers with TwinCAT for Linux® and the vPLC virtual controller. Distributing TwinCAT runtimes and control functions across containers makes it possible to tailor the machine architecture precisely to the respective requirements and to install software updates centrally.

Beckhoff will be presenting the EL3008-0003 (8 x ± 3 V) and EL3008-0005 (8 x ± 5 V) EtherCAT Terminals, which are specifically intended for demanding tests on battery test benches and for monitoring individual cell voltages in batteries and fuel cells. The high-resolution analog input terminals are designed for the precise

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measurement of stacked voltages up to 1,500 V CAT II. One advantage results from the cascaded wiring: when measuring large cell stacks, the effort, installation times, and potential sources of error are significantly reduced.

When it comes to handling, material transport, and positioning tasks in battery production, Beckhoff is focusing on the new economy drive system. The high-performance, cost-optimized drive family combines the AX1000 servo drives with the precisely matched AM1000 synchronous servomotors and covers rated powers of up to 1,000 W at 230 V AC and up to 1,700 W at 400 V AC. The corresponding AF1000 variable frequency drives address power ranges up to 5.5 kW. Robust connectors for fast motor installation and seamless integration into TwinCAT ensure accelerated commissioning and extensive diagnostic options.

With the Next multi-touch panel generation, Beckhoff offers a future-proof visualization platform for battery production plants. The CP46xx and CP56xx Panel PCs are equipped with a 6-core CPU from Arm® or with 2- or 4-core processors from the Intel Atom® series and cover display diagonals from 7 to 23.8 inches. Modern touch technology with an extended viewing angle and anti-ghosting effect guarantees safe, intuitive machine operation. The devices are available as built-in or IP65 support arm versions.

➔ www.beckhoff.com/battery-production

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Press picture:



Picture caption:

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Press kit:

www.beckhoff.com/media/downloads/press/2026/pr242026_beckhoff.zip