Beckhoff at SPS 2026: Hall 7, Booth 406

One machine. Many automation functions. One system.

At SPS – Smart Production Solutions, taking place November 24 to 26, 2026, end-to-end integration will be center stage for Beckhoff. Right at the exhibition booth, themed walls and a real production machine will demonstrate how PLC, motion, safety, HMI, measurement technology, vision, AI, and connectivity come together with PC-based control to form an integrated, open, and scalable automation system. When it comes to reducing the number of interfaces, simplifying engineering and diagnostics, and implementing new machine functions without changing the architecture, this is the place to start.

This year, our appearance at the exhibition (Hall 7, Booth 406) is focusing on the automation system as a whole. After all, machine builders today need to master precision, dynamics, product variety, safe human-machine interaction, data acquisition, and IT integration all at the same time – something that cannot be achieved in the long term by treating these as separate, individual tasks.

Beckhoff provides the ideal end-to-end solution with PC-based control: Industrial PCs form a scalable hardware platform ranging from compact embedded PCs to multi-core industrial servers. TwinCAT serves as the common engineering and runtime environment, while EtherCAT ensures high-performance communication with a precise time reference all the way down to the field level. Instead of laboriously linking separate controllers, tool chains, and communication channels, users implement their machine functions within a holistic architecture.

Beckhoff Automation GmbH & Co. KG
Hülshorstweg 20
33415 Verl, Germany
Phone: +49 5246 963-140
press@beckhoff.com

Press contact
Mathis Bayerdörfer
Phone: +49 160 363 1127
m.bayerdoerfer@beckhoff.com
www.beckhoff.com/press

The advantages of the machine are set to be clearly illustrated in the highlight forum. The machine is a compact version of the actual final inspection used for EtherCAT Terminals in Beckhoff's manufacturing facility. Following identification via a Data Matrix code, XPlanar movers move the workpiece carriers individually to the respective stations required for functional testing, calibration, and documentation, without rigid interlinking. TwinCAT Vision handles identification, positioning, and LED inspection. TwinSAFE ensures the operation of the enclosed system, while the HMI displays processes and states. Process and test data is available to ensure complete traceability. Thematic displays surrounding the machine will provide in-depth information on each of these machine functions, in each case highlighting the interplay between hardware and software.

The highlight forum is deliberately not a rigid program. Beckhoff experts will be addressing the specific challenges faced by visitors, such as cycle time, quality assurance, safety architecture, and IT/OT convergence. Whether attendees have compact machines or complex production lines, they can discuss with Beckhoff in person how PC-based control can scale the added value for their specific application. In addition, guided highlight tours will provide a concise overview of selected topics. The daily Beckhoff Live + Interactive livestream will also be broadcasting all the highlights from the exhibition as usual.

➔ www.beckhoff.com/sps

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Press pictures:



Picture caption 1:

At SPS 2026, Beckhoff will demonstrate how PLC, motion, safety, vision, measurement technology, AI, and connectivity merge to form a single system with PC-based control.



Picture caption 2:

The production machine at the booth is a compact variant of the real end control used for EtherCAT Terminals in Beckhoff production.

Press kit:

www.beckhoff.com/media/downloads/press/2026/pr332026_beckhoff.zip

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