

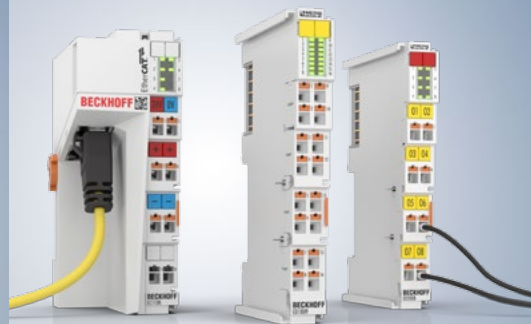
**BECKHOFF**

# News

05'2026



Efficiency in operation:  
The Next multi-touch panel generation



The ED series provides a smart I/O upgrade



Control cabinet-free design: The digital way

## CoAgent



Unlock optimization potential even more  
easily with advanced AI functions

# The IPC Company

The Industrial PC (IPC) is the hardware centerpiece of PC-based control technology. Beckhoff supplies Industrial PCs suitable for any application, which are based on open standards, enabling individual configuration to meet a wide range of control requirements.

Whether in the form of an Embedded PC with a compact form-factor for DIN rail mounting, a control cabinet PC, or as a Panel PC, in-house motherboard development enables Beckhoff to respond quickly to IT trends and customer-specific requirements.

► [www.beckhoff.com/ipc](http://www.beckhoff.com/ipc)

- large model variety of Industrial PCs and Embedded PCs
- high-performance PCs, featuring a wide range of processors, from Intel® Celeron® to top of the line Intel® Core™ 9 processors
- long-term availability of all Industrial PCs and Embedded PCs
- As the inventor of PC-based control technology, Beckhoff closely cooperates with global technology partners Intel and Microsoft.



3 | The IPC Company



6 | The I/O Company



10 | The Motion Company



14 | The Automation Company



18 | The System Company



20 | The Vision Company

22 | Beckhoff Automation

Discover all our product developments, extensions and innovations at

► [www.beckhoff.com/product-news](http://www.beckhoff.com/product-news)

# Efficiency in operation: The Next multi-touch panel generation

**i** The Next multi-touch panel series is advanced and cost-optimized, and further expands the diversity of Beckhoff's broad portfolio. As usual, this generation of control panels and panel PCs offers user-friendly operation thanks to advanced multi-touch technology, a high-quality design, and a wide choice of formats and options.

## Advantages:

- economic solutions that meet the demand for modern visualization and control
- elegant design and high-quality workmanship
- industrial-grade displays with multi-finger touch function
- developed and manufactured in-house, entirely in Germany
- flexibly scalable performance thanks to various multi-core architectures
- diagonals from 7 to 23.8 inches



red dot winner 2026  
industrial design

## The Next panel portfolio

Multi-core panel PCs with Arm® processor

- CP46xx as a built-in device
- CP56xx in an IP65 version

Multi-core panel PCs with Intel Atom® x7

- CP47xx as a built-in device
- CP57xx in an IP65 version

Multi-touch control panels in a smart design

- CP49xx as a built-in device
- CP59xx in an IP65 version

► [www.beckhoff.com/next-panel-generation](http://www.beckhoff.com/next-panel-generation)



**Ultra-compact Industrial PCs with new Intel Atom® CPU**  
Same form factor, more computing power: with Intel Atom® x7, the C60xx fanless Industrial PCs are suitable for automation projects in a wide range of applications, whether their requirements be complex or simple, from sophisticated automation and virtualization to implementation as an edge device or HMI platform.

- processor: new Intel Atom® x7 generation with up to 4 cores and 2.0 GHz
- C601x: the most compact automation, virtualization, and IoT on 82 x 82 x 40 mm
- C6025: expansion to up to 8 processor cores, high-performance SSDs, and USB-C

► [www.beckhoff.com/c60xx](http://www.beckhoff.com/c60xx)

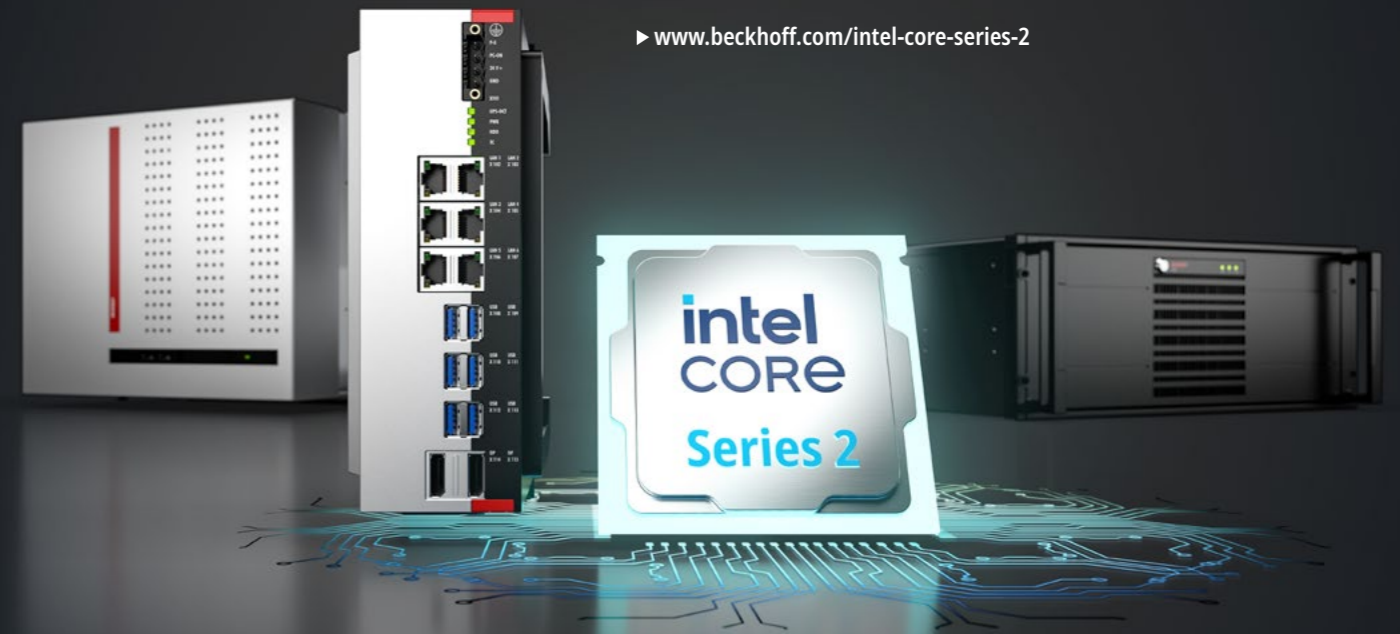


## Intel® Core™ Series 2 for more performance

Beckhoff integrates the Intel® Core™ Series 2 processors in the C6040 ultra-compact Industrial PC, the C6640, C6650 and C6675 ATX PCs and the C5240 19-inch slide-in Industrial PC. The CPU update offers a significant performance boost:

- up to 12 performance cores
  - up to a turbo frequency of 5.9 GHz and a base clock of 4 GHz
- The new processors are suitable for all applications with the highest demands on single-core computing power and/or highly parallelized applications that benefit from many powerful cores.

► [www.beckhoff.com/intel-core-series-2](http://www.beckhoff.com/intel-core-series-2)



# The I/O Company

Beckhoff supplies a complete range of fieldbus components for all common I/O and bus systems. With Bus Terminals offering IP20 protection and Fieldbus Box modules in IP67, a comprehensive range of devices is available for a wide variety of signal types and fieldbus systems. In addition to components for conventional bus systems, Beckhoff offers an integrated product range optimized for EtherCAT. Invented by Beckhoff, this real-time Ethernet solution for industrial automation has global acceptance and is characterized by outstanding performance and simple handling. The result is high-precision machine and plant control and significantly increased production efficiency.

- ▶ [www.beckhoff.com/io](http://www.beckhoff.com/io)
- ▶ [www.beckhoff.com/ethercat](http://www.beckhoff.com/ethercat) ▶ [www.ethercat.org](http://www.ethercat.org)

- comprehensive, modular I/O system for all signal types and fieldbus systems
- universal product range optimized for EtherCAT
- high investment security: mature I/O technology based on more than 25 years of success in the field
- EtherCAT communication has been proven in practice for 20 years and is a worldwide standard.



## MDR controllers for efficient intralogistics applications

**i** The EP741x EtherCAT Box modules are setting new standards for safety, efficiency, and modularity in an automated material flow. The IP54-protected modules are available with two or four outputs and, depending on requirements, also without safety functions. Integrated cables and standardized connectors reduce costs, eliminate wiring errors, and minimize installation time for system builders.

24 and 48 V BLDC motors from any manufacturer are controlled with update rates in the microsecond range, ensuring absolute synchronization, even with extensive conveyor lines and complex systems. As a highlight, the EP741x-9071 implements emergency stop requirements in an efficient manner: while conventional controllers require a complete shutdown of the power supply, the EP741x-9071 safely disconnects the motor power stage without affecting the control electronics.

- ▶ [www.beckhoff.com/ep7412-0071](http://www.beckhoff.com/ep7412-0071)
- ▶ [www.beckhoff.com/ep7412-9071](http://www.beckhoff.com/ep7412-9071)
- ▶ [www.beckhoff.com/ep7414-0071](http://www.beckhoff.com/ep7414-0071)
- ▶ [www.beckhoff.com/ep7414-9071](http://www.beckhoff.com/ep7414-9071)



### Angled M8 EtherCAT and EtherCAT P connectors for field installation

Connectors for field assembly are designed for quick, safe, and convenient installation in the plant. The angled M8 EtherCAT and EtherCAT P connectors with variable outlet orientation offer a compact solution for space-saving cable routing in the tightest installation situations.

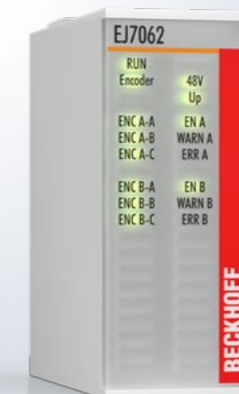


- ▶ [www.beckhoff.com/zs1090-1016](http://www.beckhoff.com/zs1090-1016)
- ▶ [www.beckhoff.com/zs1090-1017](http://www.beckhoff.com/zs1090-1017)
- ▶ [www.beckhoff.com/zs7000-0012](http://www.beckhoff.com/zs7000-0012)
- ▶ [www.beckhoff.com/zs7000-0014](http://www.beckhoff.com/zs7000-0014)

## 2-channel motion interface for the circuit board

**i** The EJ7062 EtherCAT plug-in module connects two stepper motors on a single module and thus significantly increases cost efficiency per channel – a decisive advantage for applications in which costs and space requirements are key considerations.

The compact module contains two digital inputs for limit switches and one encoder interface per channel. Parameterization in line with application requirements ensures incredibly quiet and accurate motor operation. In combination with stepper motors, the EJ7062 is an inexpensive and compact drive solution.

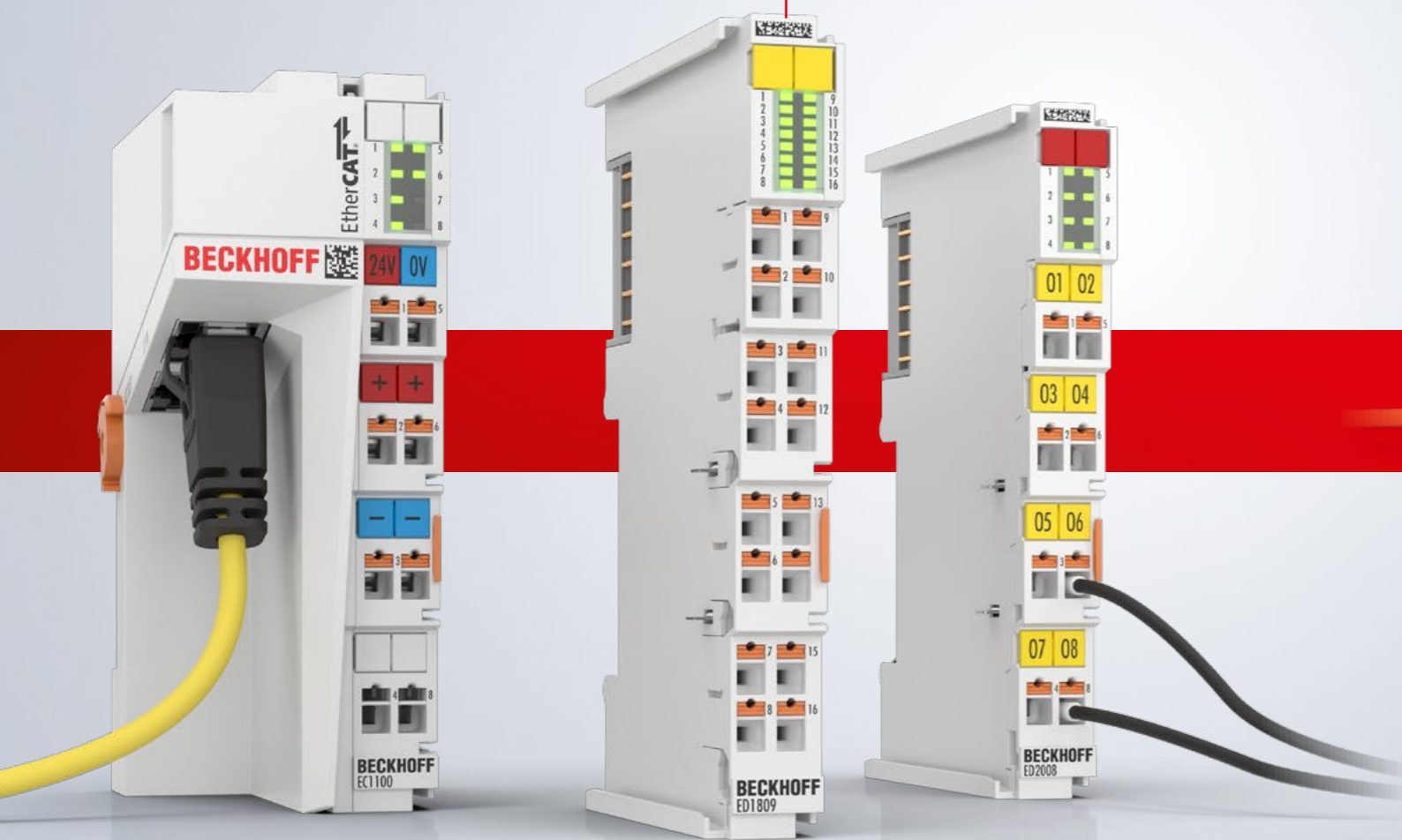


- ▶ [www.beckhoff.com/ej7062](http://www.beckhoff.com/ej7062)

# Seamlessly optimized EtherCAT Terminals: The ED series provides a smart I/O upgrade

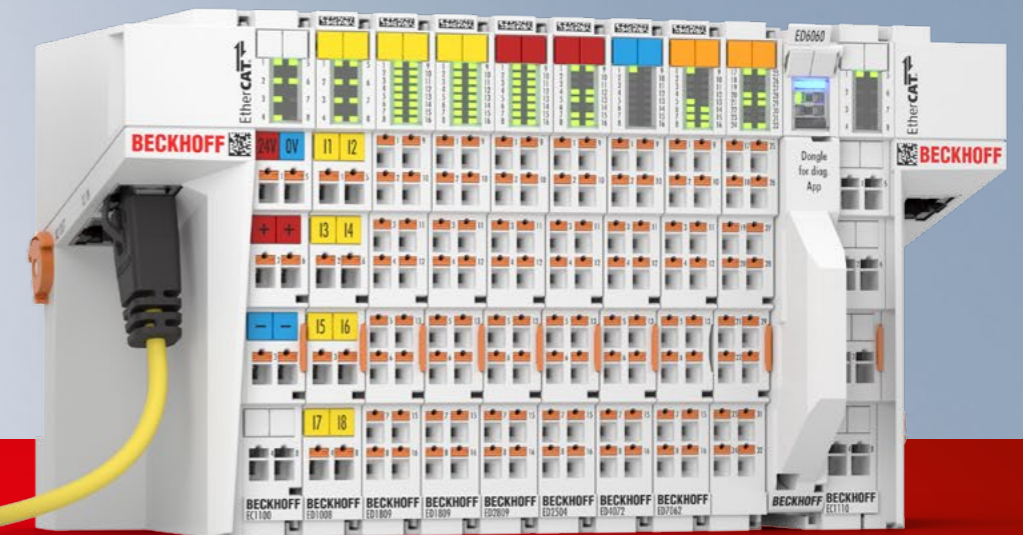
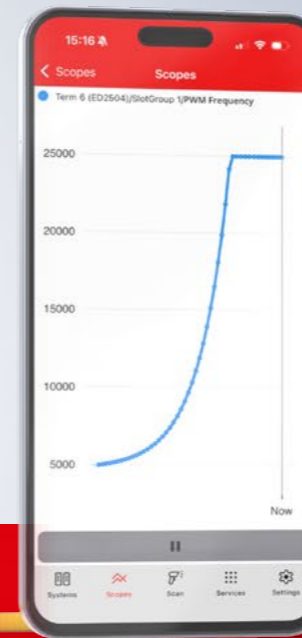


The DataMatrix code (DMC) contains product-specific information and enables app-based diagnostics on site.



## Benefits:

- future-proof investment protection thanks to flexible integration options
- faster installation, commissioning, and maintenance thanks to simplified handling
- simple terminal traceability for quality assurance and spare parts management
- I/O system can be uniquely adapted to a wide range of machine concepts
- very user-friendly thanks to quick and easy wiring
- high productivity and quality with fast reactions to process events
- reduce system costs without compromising on performance



## Live information on site with diagnostics app

**i** The Beckhoff diagnostics app offers mobile, immediately available diagnostic functions for Beckhoff EtherCAT devices. In combination with a compatible diagnostic gateway such as the ED6060, a smartphone or tablet becomes a powerful diagnostic tool for on-site service calls.

The app clearly displays the EtherCAT devices available in the system – including status, error, and diagnostic data. Thanks to the integrated scoping function, signal curves can be recorded directly on site. It can be used immediately and without additional programming.

### Main functions:

- automatic detection of supported EtherCAT devices
- display of error and diagnostic codes (CoE 0x10F3)
- device status and live information
- simple signal recording (scoping)
- read-only access for maximum security

► [www.beckhoff.com/ed6060](http://www.beckhoff.com/ed6060)



**i** **Continuous development of the I/O system for the control cabinet**  
Users have long appreciated Beckhoff's EtherCAT Terminals for their excellent performance, modular scalability, and user-friendliness. The entire portfolio has received a technological upgrade with the ED series: modernized design, tool-free assembly, and app-based diagnostics via DataMatrix code (DMC) make signal acquisition more efficient than ever. Existing series remain fully mechanically compatible: the user-friendly ED series sets a standard for the future.

► [www.beckhoff.com/edxxxx](http://www.beckhoff.com/edxxxx)

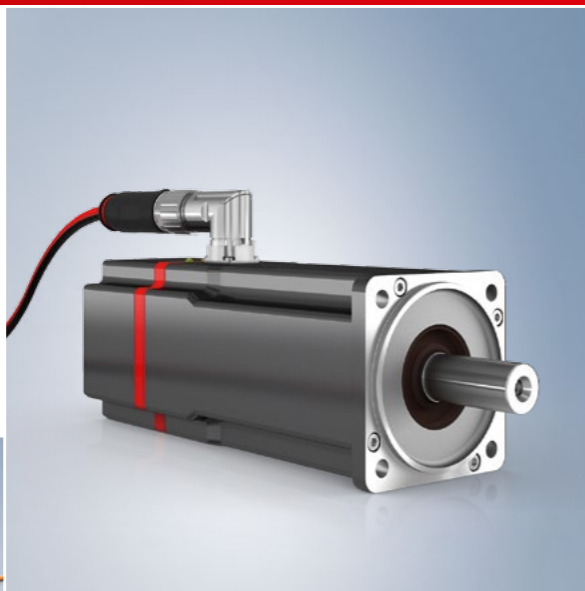
# The Motion Company

In combination with the motion control solutions offered by the company's TwinCAT automation software, Beckhoff Drive Technology provides an advanced, all-inclusive drive system. PC-based control technology from Beckhoff is ideally suited for single- and multi-axis positioning tasks with high dynamic requirements.

The servo drive series with high-performance EtherCAT communication offer the best-possible performance and dynamics. Servomotors with One Cable Technology (OCT), combining power and feedback systems into one standard motor cable, reduce material and commissioning costs.

► [www.beckhoff.com/motion](http://www.beckhoff.com/motion)

- scalable product range of servo drive technology
- integrated safety technology in compliance with safety performance level PL e, integrated into compact drive technology up to safety performance level PL d
- As the pioneer of One Cable Technology and the eXtended Transport System, Beckhoff specializes in manufacturing efficient, space-saving motion solutions.



XPlanar.



XTS.

## The economy drive system: An economical combination of high-performance drive technology

**i** Global cost pressure in machine building is forcing many designers to readjust the balance between performance and affordability. Beckhoff is responding to this situation with the economy drive system: a coordinated platform of servomotors, servo drives, and variable frequency drives enables compact, cost-efficient machine concepts that are fully integrated into the world of PC-based control. With the economy drive system, Beckhoff is underlining the fact that "Made in Germany" and cost efficiency are not contradictions in terms.

### Benefits:

- optimized price/performance ratio
- takes up minimal space in the control cabinet and machine due to compact designs
- available as a single-axis or highly cost-effective dual-axis version
- convenient design, commissioning, and diagnostics with TwinCAT

► [www.beckhoff.com/economy-drive-system](http://www.beckhoff.com/economy-drive-system)



### **i** Everything from a single source: Braking resistors and mains filters for complete drive solutions

As a full-range supplier of system components, Beckhoff supplies suitable external braking resistors and mains filters for the new economy drive system. The AX2090-BW10-xxxx external braking resistors are available in different variants for devices with 1-phase and 3-phase supply and different power ratings. This ensures that the braking resistors are optimally adapted to the application. In addition, the high-quality AX2090-NF1x-xxxx mains filters ensure outstanding interference suppression for the devices in the economy drive system. When the components are combined, they meet industry standards up to category C2 in accordance with EN 61800-3.



► [www.beckhoff.com/ax2090-bw10](http://www.beckhoff.com/ax2090-bw10)  
 ► [www.beckhoff.com/ax2090-nf1x](http://www.beckhoff.com/ax2090-nf1x)



# The Automation Company

Beckhoff offers comprehensive system solutions in numerous performance classes for all areas of automation. The control technology is exceptionally scalable – from high-performance Industrial PCs to mini-PLCs – and can be adapted precisely to application-specific requirements. TwinCAT automation software integrates real-time control with PLC, NC and CNC functions in a single feature-filled package.

► [www.beckhoff.com/automation](http://www.beckhoff.com/automation)

- efficient, universal engineering
- programming in different languages
- Open, hardware-independent control system gives freedom of choice in terms of automation and control components.
- scalable control platform from single- to multi-core CPUs
- all control functions on a single, centralized platform: PLC, motion control, robotics, measurement technology, a.o.



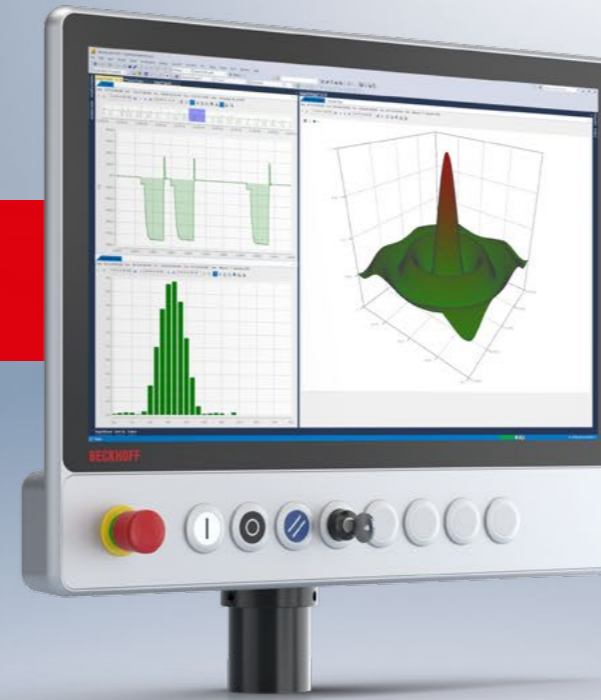
## TwinCAT Runtime for Simulation and CI/CD

**i** The TwinCAT 3 Restricted Runtime license was specially developed to run over many hours in continuous integration, continuous deployment, and simulation processes. It enables flexible, recurrent use in development and test environments, but is not suitable for live operation.

The scope of delivery includes a defined selection of licenses for TwinCAT 3 products that are specifically tailored to simulation and automation tests without physical I/O systems such as EtherCAT.

After six hours, the integrated sanction function automatically switches the software to TwinCAT configuration mode and stops program execution. Restarting provides up to six additional hours of runtime, as often as necessary.

► [www.beckhoff.com/tc399x](http://www.beckhoff.com/tc399x)



**i** **Intuitive CNC HMIs with simulation functionality**  
With CNC HMI Base (TF5310) and CNC HMI Simulation Server (TF5320), the TwinCAT 3 automation software offers two new function libraries for CNC-specific user interfaces. These are used to create an advanced, intuitive HMI application specifically for CNC purposes and to simulate part machining using real-time data.

TwinCAT 3 CNC HMI Base is based on the TwinCAT 3 HMI Server and offers numerous CNC-specific control elements as well as a G-code editor for cycle-based programming. The real-time data is aggregated from TwinCAT PLC and CNC, which enables flexible, customer-specific user interfaces. Templates make engineering easier.

The CNC HMI Simulation Server integrates the 3D simulation control element, which is included in the TwinCAT 3 CNC HMI Base package, into the real-time data from TwinCAT CNC. The current tool's data and the blank definition stored in the NC program are accessed. The simulation runs either in sync with the actual machining (real-time simulation) or in fast forward (without actual axis movement). This allows 3 and 5-axis milling processes to be checked visually in advance.

### TwinCAT Scope 3D Chart for control data waterfall charts

The new Array Time Chart in TwinCAT Scope visualizes PLC data in three dimensions directly from the controller with precise timestamps and high performance. Time series, frequencies, or harmonics in arrays can be displayed as a waterfall chart or mesh with customizable grid and color gradient. Camera views can be saved and switched using smooth camera movements in order to analyze data from identical angles.

This is ideal for frequency and order analyses, FFT evaluations, vibration diagnostics, test bench data acquisition, plus condition and power monitoring – for quick detection and interpretation of patterns, peak values, and faults.

The chart will be included in TwinCAT Scope Base and in TE1300 Scope View Professional.

► [www.beckhoff.com/te1300](http://www.beckhoff.com/te1300)



► [www.beckhoff.com/tf5310](http://www.beckhoff.com/tf5310)  
► [www.beckhoff.com/tf5320](http://www.beckhoff.com/tf5320)

# TwinCAT CoAgent: Expanded AI functions for the entire automation process

# CoAgent



**i** TwinCAT CoAgent simplifies software engineering – and in future will also simplify machine operation – through the use of artificial intelligence and automated assistance functions.

TwinCAT 3 CoAgent for Engineering (TE1700) supports control programmers by working as a personal assistant to provide precise code suggestions, smart optimizations, and automatic documentation. Checked content can be transferred directly to projects. The CoAgent enables quick access to Beckhoff documentation, provides support with the development of user-friendly HMI controls, and simplifies

I/O configuration via chat or natural language. This saves time on routine tasks and creates more freedom for sophisticated automation tasks.

The new TwinCAT 3 CoAgent for Operations (TF1700) module brings agent technology into machine operation: The CoAgent monitors process values, detects deviations, and supports service technicians in diagnosing faults. Through intelligent alarm evaluation, the CoAgent reduces false alarms, prioritizes faults, and shortens the time it takes to rectify them. The CoAgent also supports the creation

# Machine Learning Creator: New feature enables further optimization

**i** TwinCAT 3 Machine Learning Creator (MLC) extends the engineering workflow in TwinCAT 3, adding the automated creation of AI models, and is aimed at automation and process experts, including those without prior knowledge of data science.

The AI model that has been trained with TwinCAT MLC can be exported in the ONNX open standard format and is optimally adapted to the real-time requirements of industrial control systems in terms of latency and accuracy. Until now, the focus has been on AI-supported image processing (TwinCAT 3 MLC Computer Vision). The new TwinCAT 3 MLC Signals and Time Series module extends the range of functions to include the analysis of time-based process signals. This is a key technology for industrial applications, as current, temperature, and vibration curves provide valuable information about the state of processes, components, and tools.

The models created with MLC Signals and Time Series detect patterns and deviations in real time, enabling predictive maintenance, process optimization, and anomaly detection directly in the control environment.

TwinCAT 3 Machine Learning Creator is a pure web application. As the engineering takes place entirely in the browser, no local computing power is required. AI model creation is made easier and more accessible.

- ▶ [www.beckhoff.com/machine-learning](http://www.beckhoff.com/machine-learning)
- ▶ [www.beckhoff.com/te3850](http://www.beckhoff.com/te3850)
- ▶ [www.beckhoff.com/te3851](http://www.beckhoff.com/te3851)
- ▶ [www.beckhoff.com/te3852](http://www.beckhoff.com/te3852)
- ▶ [www.beckhoff.com/te3860](http://www.beckhoff.com/te3860)

of automated evaluations and reports – for greater transparency and quality in operations.

In summary, Beckhoff TwinCAT CoAgent proves to be a powerful AI assistant over the entire automation lifecycle.

- ▶ [www.beckhoff.com/te1700](http://www.beckhoff.com/te1700)
- ▶ [www.beckhoff.com/tf1700](http://www.beckhoff.com/tf1700)

## Taking physical AI to the next level of automation

Physical AI is a current focal topic that merges artificial intelligence and classic machine control. This is a paradigm shift: LLMs are leaving the chat window to get to work on real-life motion sequences via standardized interfaces. The operator defines the goals in natural language, AI provides context-related suggestions and implements them directly in the process if desired.

This new class of control systems makes automation incredibly intuitive and allows complex solutions to be built without programming expertise.

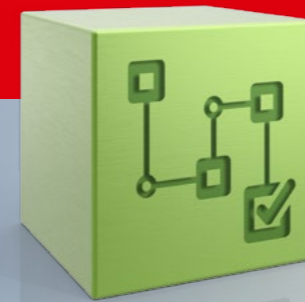
- ▶ [www.beckhoff.com/twincat-coagent](http://www.beckhoff.com/twincat-coagent)

# The System Company

For the first time in machine and system engineering, the MX-System enables completely control cabinet-free automation solutions. By consistently combining, applying and further developing Beckhoff's expertise, a holistic, modular pluggable system has been created. The combination of MX-System baseplate and MX-System function modules resulting from the modular construction kit combines all tasks and features of a control cabinet: energy supply, fuse protection and distribution, generation and monitoring of auxiliary voltages, sequence control with the inputs and outputs, control of motors and actuators as well as the connection level for the field devices. The full system integration of all machine functionalities is achieved via freely selectable IPC, coupler, I/O, drive, relay and system modules, which can be configured and combined suitable for the specific application.

► [www.beckhoff.com/mx-system](http://www.beckhoff.com/mx-system)

- distribution of voltage and EtherCAT via standardized connectors
- assembly and wiring in the shortest possible time thanks to the modular design principle
- flexible and precisely adaptable to application requirements
- quick and easy system diagnostics during operation via app
- three sizes and performance classes can be freely combined



## Control cabinet-free design: The digital way

The MX-System Designer is a web-based engineering tool for efficient planning and configuration of automation systems based on the MX-System. System architectures can be modeled graphically and checked for technical consistency early on in projects.

This tool can combine modules, define connections, and create complete system structures without requiring detailed parameterization of individual devices. The system-oriented approach makes functional relationships and dependencies between components visible, which makes complex systems easier to understand.

Impermissible combinations and inconsistent configurations can be detected at an early stage. This helps to prevent planning errors and cuts down on subsequent adjustments in the engineering process.

The structured display of the configuration is a good foundation for further implementation in engineering tools and supports consistent project planning.

The MX-System Designer is a web-based tool that does not need to be installed, thus allowing you to get started right away.

► [www.beckhoff.com/mx-system-designer](http://www.beckhoff.com/mx-system-designer)  
 ► [www.beckhoff.com/te1050](http://www.beckhoff.com/te1050)

# The Vision Company

As a specialist for PC-based control technology, Beckhoff consistently aims to integrate all machine functionalities into one control platform. With TwinCAT Vision, this has included image processing within software since 2017. The machine vision product spectrum is now complete thanks to the introduction of the comprehensive hardware range from Beckhoff. Machine builders and end users thus have a complete image processing system at their disposal that covers all the necessary components from software to illumination which, integrated into the system, provides users with significant competitive advantages.

► [www.beckhoff.com/vision](http://www.beckhoff.com/vision)

- complete hardware portfolio for industrial image processing
- ultra-fast EtherCAT performance and robust design
- perfect synchronization with any process
- simple, direct integration into the control
- open and scalable machine vision system



## More models, more precision

The Vision Unit Illuminated (VUI) is a compact unit comprising the camera, illumination, and focusable optics complete with liquid lens technology. The series has now been expanded with 16 devices with new image sensors.

- resolutions: available in 5.1 MP, 8.1 MP and 12.4 MP for applications ranging from fast clock recording to detailed quality inspection
- industry-ready: developed for the constantly harsh machine construction environment – compact, robust, and designed for easy integration into the control solution

Six threads for flexible and robust mounting

EtherCAT P connection for power and synchronization

Grounding screw

2.5 Gbit LAN connection

Status LEDs

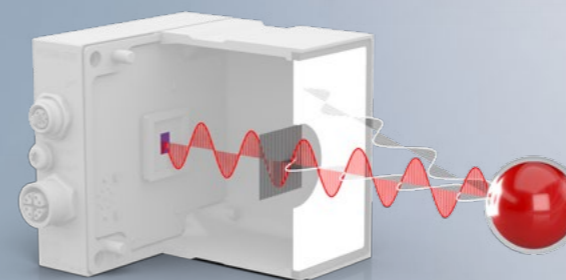


Variable light color from blue to IR850

Optics with integrated liquid lens focusing

Thermally hardened and anti-reflective glass

Anodized aluminum housing (IP65/67) for optimum heat dissipation



### New option for all area scan camera units: cross-polarization filters

For applications with near-axis illumination, this new option offers an effective solution that suppresses interfering reflections on smooth or shiny surfaces. The linearly polarized light from the illumination is reflected largely unchanged and filtered by the perpendicular filter on the image sensor. Surface shine is eliminated and contrast and detection accuracy are significantly increased – ideal for demanding inspection tasks.

► [www.beckhoff.com/units](http://www.beckhoff.com/units)

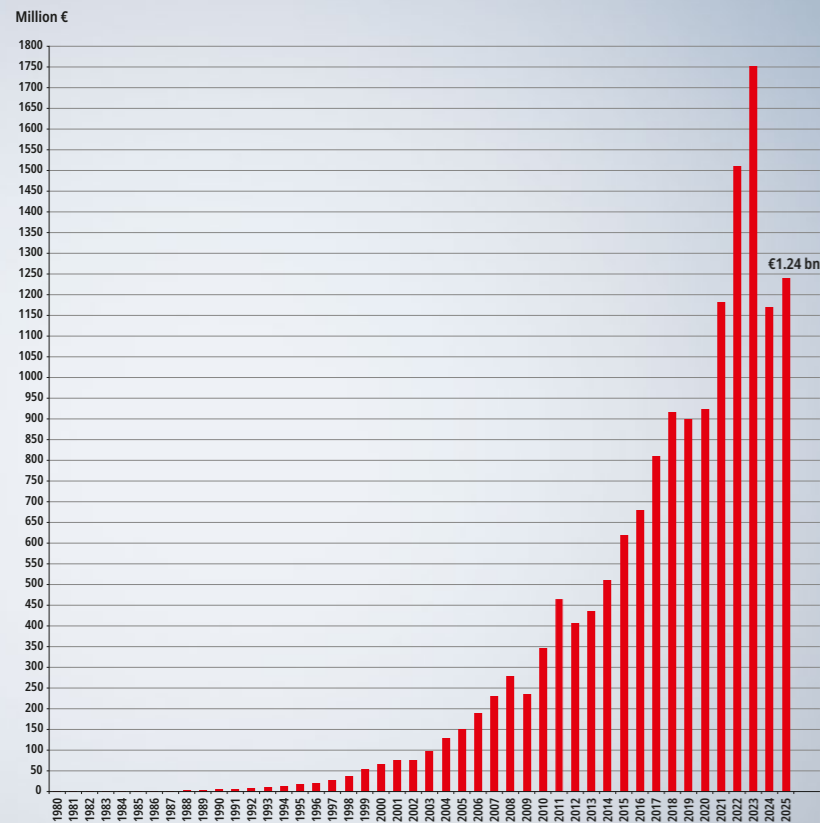
Beckhoff implements open automation systems using proven PC-based control technology. The main areas that the product range covers are industrial PCs, I/O and fieldbus components, drive technology, automation software, control cabinet-free automation, and hardware for machine vision. Product ranges that can be used as separate components or integrated into a complete and mutually compatible control system are available for all sectors. Our New Automation Technology stands for universal and industry-independent control and automation solutions that are used worldwide in a large variety of different applications, ranging from CNC-controlled machine tools to intelligent building control.

Since Beckhoff's foundation in 1980, the development of innovative products and solutions on the basis of PC-based control technology has been the foundation of the company's continued success. We recognized many standards in automation technology that are taken for granted today at an early stage and successfully introduced to the market as innovations. Beckhoff's philosophy of PC-based control as well as the invention of the Lightbus system and TwinCAT automation software are milestones in automation technology and have proven themselves as powerful alternatives to traditional control technology. EtherCAT, the real-time Ethernet solution, provides a powerful and future-oriented technology for a new generation of control concepts.



- Beckhoff Automation at a glance**
- 2025 global sales: €1.24 billion (+6%)
  - Headquarters: Verl, Germany
  - Managing owner: Hans Beckhoff
  - Employees worldwide: 5,450 (March 2026)
  - Engineers: 2,000
  - Subsidiaries/representative offices worldwide: 41
  - Sales offices in Germany: 23
  - Representatives worldwide: > 75

# Beckhoff Automation



Sales from 1980 through 2025.  
Status: March 2026

**Worldwide presence on all continents**  
The corporate headquarters of Beckhoff Automation GmbH & Co. KG in Verl, Germany, is the site of the central departments such as development, production, administration, sales, marketing, support and service. Beckhoff's presence in the international market is guaranteed by its subsidiaries. Beckhoff is represented in more than 75 countries by worldwide cooperation partners.





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