

Beckhoff short profile

Beckhoff implements open automation systems based on PC Control technology. The product range covers Industrial PCs, I/O and Fieldbus Components, Drive Technology and automation software. Products that can be used as separate components or integrated into a complete and seamless control system are available for all industries. The Beckhoff New Automation Technology philosophy represents universal and open control and automation solutions that are used worldwide in a wide variety of different applications, ranging from CNC-controlled machine tools to intelligent building automation.

Worldwide presence on all continents

The central divisions of Beckhoff, such as development, production, administration, distribution, marketing, support and service are located at the Beckhoff Automation GmbH & Co. KG headquarters in Verl, Germany. Rapidly growing presence in the international market is taking place through subsidiaries and branch offices. Through world-wide cooperation with partners, Beckhoff is represented in 75 countries.

Beckhoff milestones

Innovative products and a full range of services

Since the foundation of the company in 1980, continuous development of innovative products and solutions using PC-based control technology has been the basis for the continued success of Beckhoff. Many automation technology standards that are taken for granted today were conceptualised by Beckhoff at an early stage and successfully introduced to the market.

1982: P1000 – single-board motion controller

1986: PC Control – first PC-based machine controller

1988: S1000 – software PLC/NC on PC (DOS)

1989: Lightbus – high-speed fieldbus utilising optical fibre

1990: All-in-one PC motherboard

1995: Bus Terminal – fieldbus technology in terminal block format

1996: TwinCAT – real-time software package under Windows with PLC and motion control functions

1998: Control Panel – remote IPC Control Panels

1999: Fieldbus Box – the I/O system in IP 67

2002: CX1000 – modular Embedded PCs for DIN rail mounting

2003: EtherCAT – real-time Ethernet fieldbus system

2005: TwinSAFE – the compact safety solution

2005: AX5000 – EtherCAT Servo Drive

2007: Industrial Motherboards – made in Germany

2008: XFC – eXtreme Fast Control

2009: HD Bus Terminals – 16-channel terminals in 12 mm

2010: TwinCAT 3 – eXtended Automation Technology

2011: AM8000 – Synchronous Servomotors with One Cable Technology

2012: 2nd generation of Control Panels – Panel PCs and Control Panels with multi-touch technology

2012: XTS – eXtended Transport System

2014: Many-core control

2014: AX8000 – multi-axis servo system

2014: EtherCAT plug-in modules – Bus Terminals for circuit boards

2015: EtherCAT P – One Cable Automation

2015: TwinCAT HMI – for platform-independent user interfaces

2015: TwinCAT IoT – for simple cloud communication

2015: TwinCAT Analytics – recording and analysis of process data

2016: EtherCAT measurement modules – system-integrated high-end measurement technology

2017: Process technology – system-integrated solutions for explosion protection requirements

2017: C60xx – the generation of ultra-compact IPCs

2017: AMP8000 – Distributed Servo Drive system

2017: TwinCAT Vision – machine vision integrated into automation technology

Beckhoff technology sectors

Beckhoff | The Automation Company

Beckhoff offers comprehensive system solutions in different performance classes for all areas of automation. Beckhoff control technology is scalable – from high-performance Industrial PCs to mini PLCs – and can be adapted precisely to the respective application. TwinCAT automation software integrates real-time control with PLC, NC and CNC functions in a single package. All Beckhoff controllers are programmed using TwinCAT in accordance with the globally-recognised IEC 61131-3 programming standard. With TwinCAT 3 C/C++ and MATLAB®/Simulink® are available as programming languages in addition to IEC 61131-3.

Beckhoff | The IPC Company

Beckhoff supplies the right Industrial PC for every application. High-quality components based on open standards and the rugged construction of the device housings mean that the Industrial PCs are ideally equipped for all control requirements. Embedded PCs make modular IPC technology available in miniature format for DIN rail mounting. In addition to their application in automation, Beckhoff Industrial PCs are also ideally suited to other kinds of tasks – wherever reliable and robust PC technology is required.

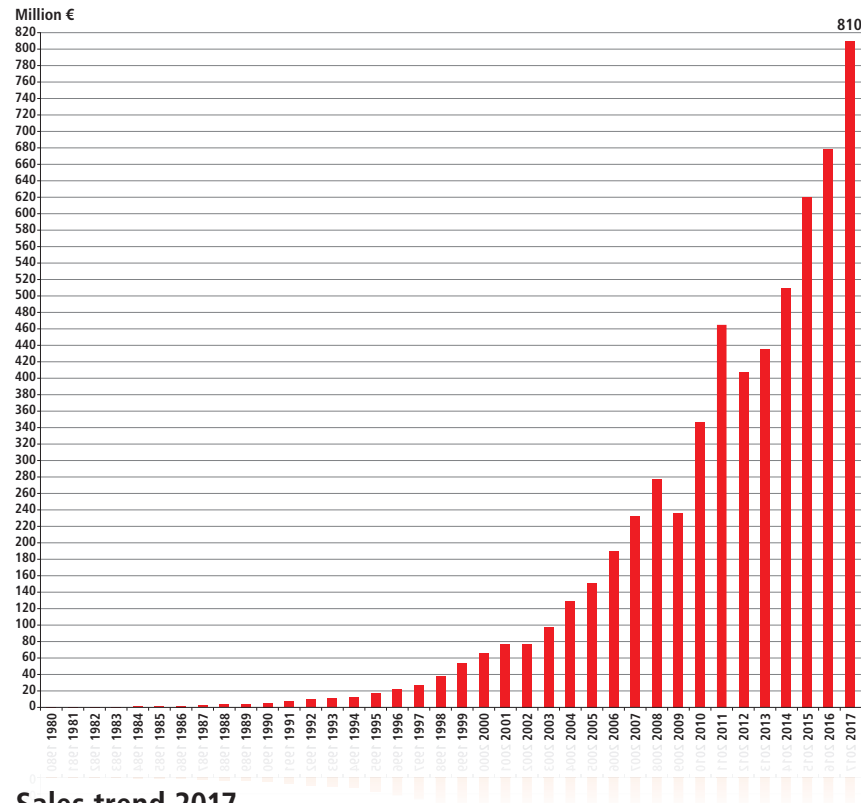
Beckhoff | The I/O Company

Beckhoff has the right technology for every signal and every fieldbus. Beckhoff supplies a complete range of Fieldbus Components for all common I/Os and over 15 major fieldbus systems. With the Bus Terminals in protection class IP 20, and the Fieldbus Box modules in IP 67, a complete range is available for all important signal types and fieldbus systems. In addition to conventional bus systems, Beckhoff offers a complete EtherCAT I/O range for the high-speed Ethernet fieldbus based on EtherCAT Terminals, the EtherCAT Box and the EtherCAT Plug-in Modules.

Beckhoff | The Motion Company

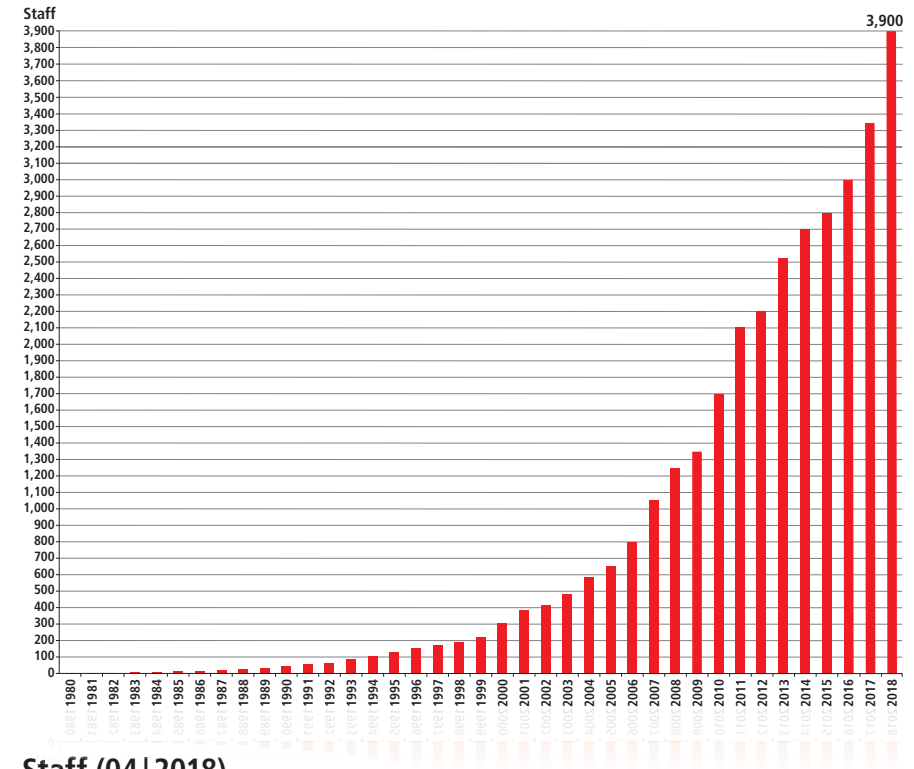
In combination with the Motion Control solutions offered by the TwinCAT automation software, Beckhoff Drive Technology represents an advanced and complete drive system. PC-based control technology from Beckhoff is ideally suited for single and multiple axis positioning tasks with highly dynamic requirements. The AX5000 Servo Drive series and the AX8000 multi-axis servo system with high-performance EtherCAT system communication offer maximum performance and dynamics. Servomotors with One Cable Technology, which combines power and feedback system in a standard motor cable, reduce material and commissioning costs. The drive system XTS (eXtended Transport System) replaces classic mechanical systems by innovative mechatronics. It enables individual product transport applications with a continuous flow of material.

Beckhoff at a glance



Sales trend 2017

- 810 million EUR (+19%)
- export share: 63.2%



Staff (04 | 2018)

- 3,900 worldwide
 - 2,900 in Germany
 - 2,600 in the headquarters in Verl, Germany
 - 1,400 engineers
 - 99 trainees in Verl, Germany
 - 81 students in Verl, Germany

Beckhoff worldwide

Global presence

- Beckhoff companies/branch offices in 37 countries
- subsidiaries and distributors in 75 countries

Subsidiary companies and representative offices

Beckhoff Automation AG (Switzerland)
Beckhoff Automation GmbH (Austria)
Beckhoff Automation S.r.l. (Italy)
Beckhoff Automation Oy (Finland)
Beckhoff Automation Sp. z o.o. (Poland)
Beckhoff Automation AB (Sweden)
Beckhoff Automation ApS (Denmark)
Beckhoff Automation Sarl (France)
Beckhoff Automation bvba (Belgium)
Beckhoff Automation S.A. (Spain)
Beckhoff Automation LLC (USA)

Beckhoff Automation Ltd. (Canada)
Beckhoff Automation Pty. Ltd. (Australia)
Beckhoff Automation (Pty) Ltd (South Africa)
Beckhoff Automação Industrial Ltda. (Brazil)
Beckhoff Automation FZE (United Arab Emirates)
Beckhoff Automation Pvt. Ltd. (India)
Beckhoff Automation (Shanghai) Co., Ltd. (China)
Beckhoff Otomasyon Ltd. şti. (Turkey)
Beckhoff Avtomatizacija d.o.o. (Slovenia)
Beckhoff Automation AS (Norway)
Beckhoff Automation OOO (Russia)
Beckhoff Automation Ltd. (United Kingdom)
Beckhoff Automation Ltd. (Israel)

Beckhoff Automation Sdn Bhd (889044-H)
(Malaysia)
Beckhoff Automation Pte. Ltd. (Singapore)
Beckhoff Automation K.K. (Japan)
Beckhoff Automation Limited (New Zealand)
Beckhoff Automation Kft. (Hungary)
Beckhoff Česká republika s.r.o. (Czech Republic)
Beckhoff Automation Contact (Egypt)
Beckhoff Automation Pte. Ltd. (Indonesia)
Beckhoff Automation B.V. (Netherlands)
Beckhoff de México, S.A. de C.V. (Mexico)
Beckhoff Automation Pte. Ltd. (Thailand)
Beckhoff Automation Oy (Estonia)

Distributors (Europe)

Belarus, Bulgaria, Croatia, Cyprus, Greece, Ireland, Latvia, Lithuania,
Luxembourg, Malta, Portugal, Romania, Slovakia

Distributors (worldwide)

Argentina, Bahrain, Bolivia, Chile, Colombia, Ecuador, Jordan, Kuwait, Lebanon, Oman,
Peru, Philippines, Qatar, South Korea, Syria, Taiwan, Thailand, Uruguay, Vietnam

Companies of the Beckhoff Group

Smyczek GmbH (Germany)
Fertig Motors GmbH (Germany)
Schirmer Maschinen GmbH (Germany)

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