

BECKHOFF New Automation Technology

Main Catalog 2019

Volume 1 | IPC, Motion, Automation



Industrial PC
Embedded PC

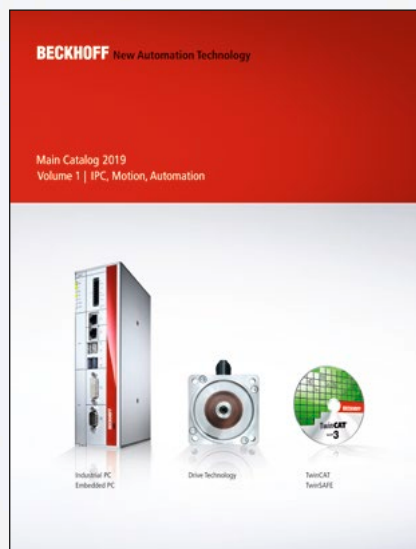


Drive Technology



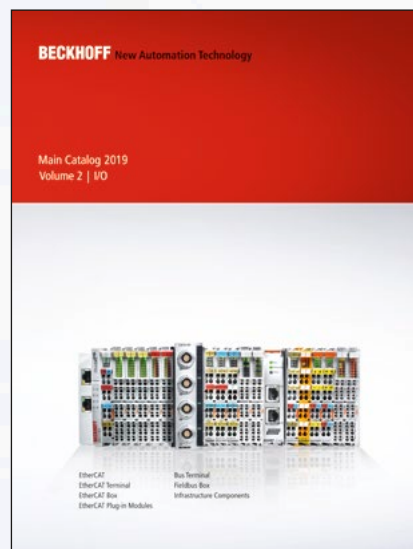
TwinCAT
TwinSAFE

Please find information on all Beckhoff IPC, Motion and Automation products in Volume **1**:



Industrial PC, Control Panel
Embedded PC
Drive Technology
TwinCAT
TwinSAFE

Please find information on all Beckhoff I/O products in Volume **2**:



EtherCAT
EtherCAT Terminal
EtherCAT Box
EtherCAT Plug-in Modules
Bus Terminal
Fieldbus Box
Infrastructure Components
Accessories

IPC



16 Industrial PC, Control Panel

PC Control for all applications



184 Embedded PC

Modular DIN rail IPCs and Industrial Motherboards

I/O



262 Fieldbus Components

I/Os for all common fieldbus systems

Motion



306 Drive Technology

The drive system for highly dynamic positioning tasks

Automation



456 TwinCAT

PLC and Motion Control on the PC



542 TwinSAFE

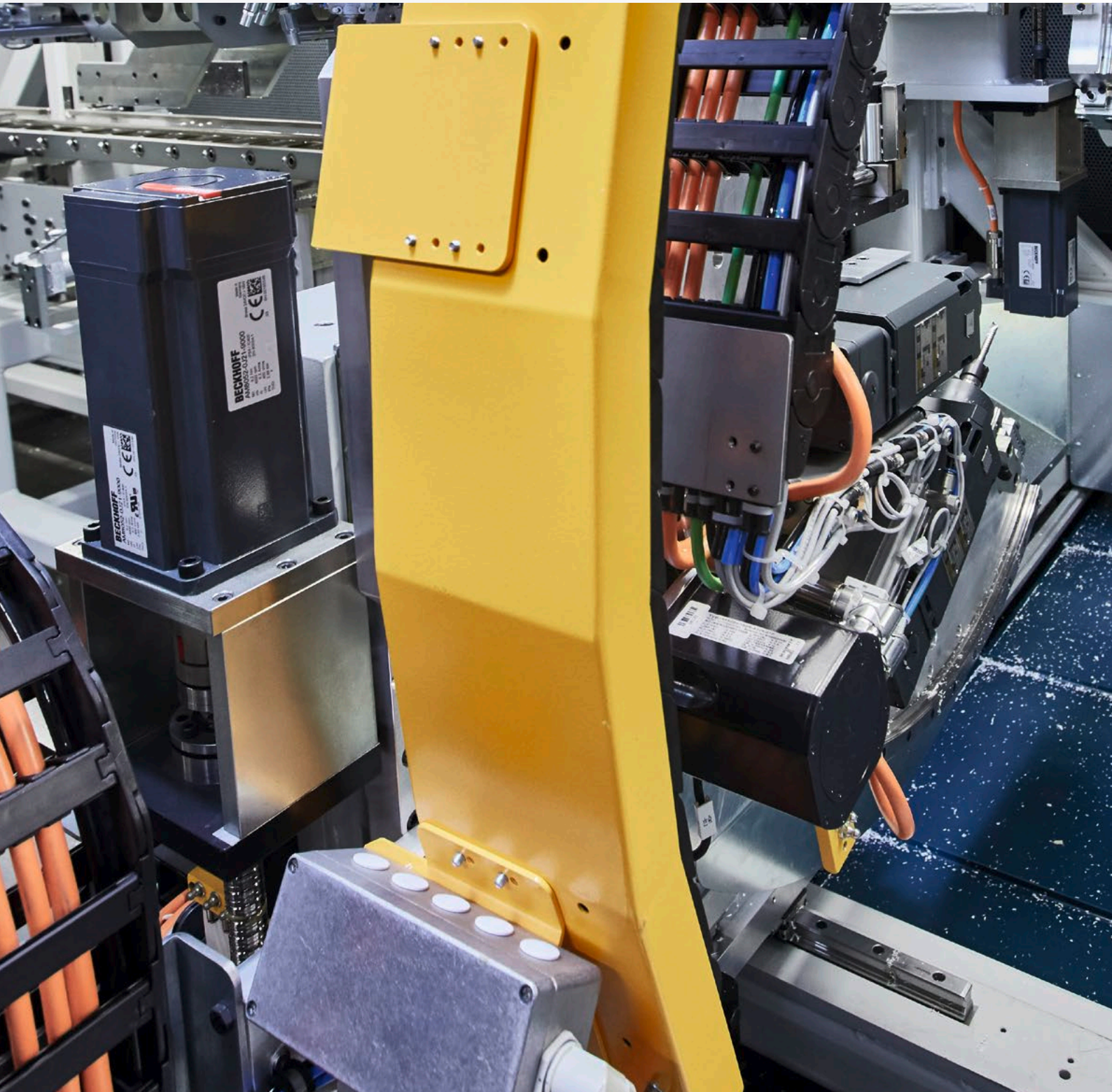
Open and scalable safety technology

572 Support, Service, Training

588 Product Index

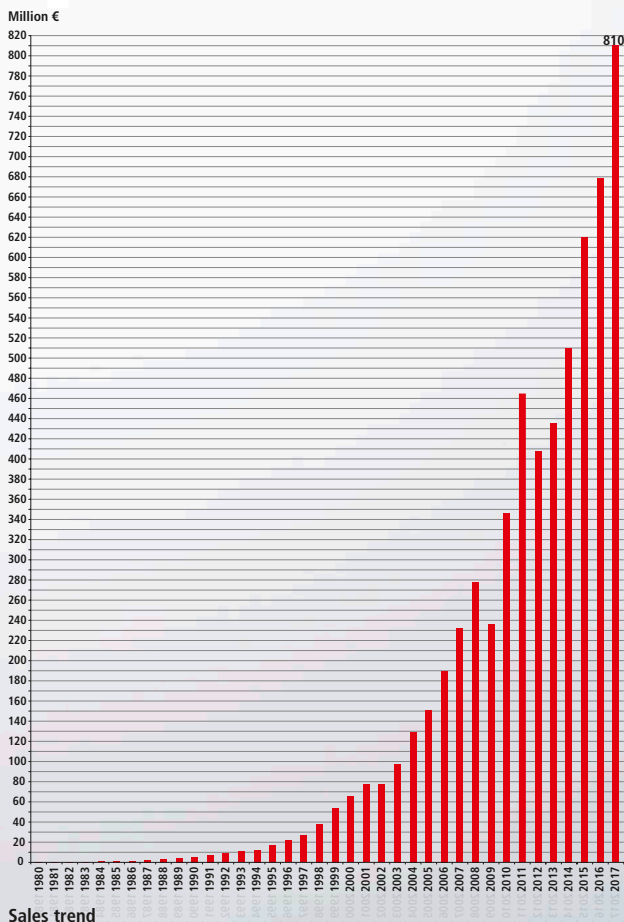


New Automation Technology





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 worldwide co-operation with partners, Beckhoff is represented in more than 75 countries.

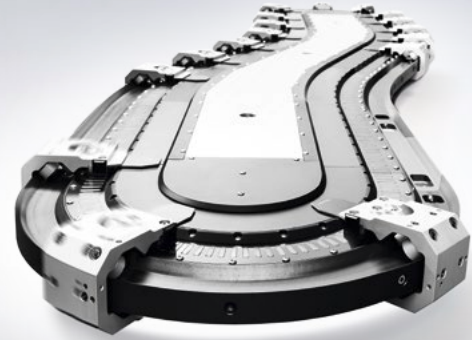
Beckhoff Automation

- Headquarters: Verl, Germany
- Sales 2017: **810 million € (+19 %)**
- Staff worldwide: **3,900 (+16 %)**
- Sales Offices Germany: **22**
- Subsidiaries/Branch Offices worldwide: **37**
- Distributors worldwide: **75**

(as of 04/2018)

PC-based control technology





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.

The Beckhoff PC Control philosophy and the invention of the Lightbus system, the Bus Terminals and TwinCAT automation software represent milestones in automation technology and have become accepted as high-performance alternatives to traditional control technology. EtherCAT, the real-time Ethernet solution, makes forward-looking, high-performance technology available for a new generation of leading edge control concepts.

Milestones

- | | | | |
|-------------|--|-------------|---|
| 1982 | P1000 – single-board motion controller | 2012 | 2 nd generation of Control Panels – Panel PCs and Control Panels with multi-touch technology |
| 1986 | PC Control – first PC-based machine controller | 2012 | XTS – eXtended Transport System |
| 1988 | S1000 – software PLC/NC on PC (DOS) | 2014 | Many-core control – Industrial server maximises industrial computing power |
| 1989 | Lightbus – high-speed fieldbus utilising optical fibre | 2014 | AX8000 – multi-axis servo system |
| 1990 | All-in-one PC motherboard | 2014 | EtherCAT Plug-in Modules – Bus Terminals for circuit boards |
| 1995 | Bus Terminal – fieldbus technology in terminal block format | 2015 | EtherCAT P – One Cable Automation |
| 1996 | TwinCAT – real-time software package under Windows with PLC and motion control functions | 2015 | TwinCAT HMI – for platform-independent user interfaces |
| 1998 | Control Panel – remote IPC Control Panels | 2015 | TwinCAT IoT – for simple cloud communication |
| 1999 | Fieldbus Box – the I/O system in IP 67 | 2015 | TwinCAT Analytics – recording and analysis of process data |
| 2002 | CX1000 – modular Embedded PCs for DIN rail mounting | 2016 | EtherCAT measurement modules – system-integrated high-end measurement technology |
| 2003 | EtherCAT – real-time Ethernet fieldbus system | 2017 | Process technology – system-integrated solutions for explosion protection requirement |
| 2005 | TwinSAFE – the compact safety solution | 2017 | C60xx – the generation of ultra-compact IPCs |
| 2005 | AX5000 – EtherCAT Servo Drives | 2017 | AMP8000 – Distributed Servo Drive system |
| 2007 | Industrial Motherboards – made in Germany | 2017 | TwinCAT Vision – machine vision integrated into automation technology |
| 2008 | XFC – eXtreme Fast Control Technology | | |
| 2009 | HD Bus Terminals – 16-channel terminals in 12 mm | | |
| 2010 | TwinCAT 3 – eXtended Automation Technology | | |
| 2011 | AM8000 – Synchronous Servomotors with One Cable Technology | | |

Four components, one system



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.

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 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 and the EtherCAT Box.

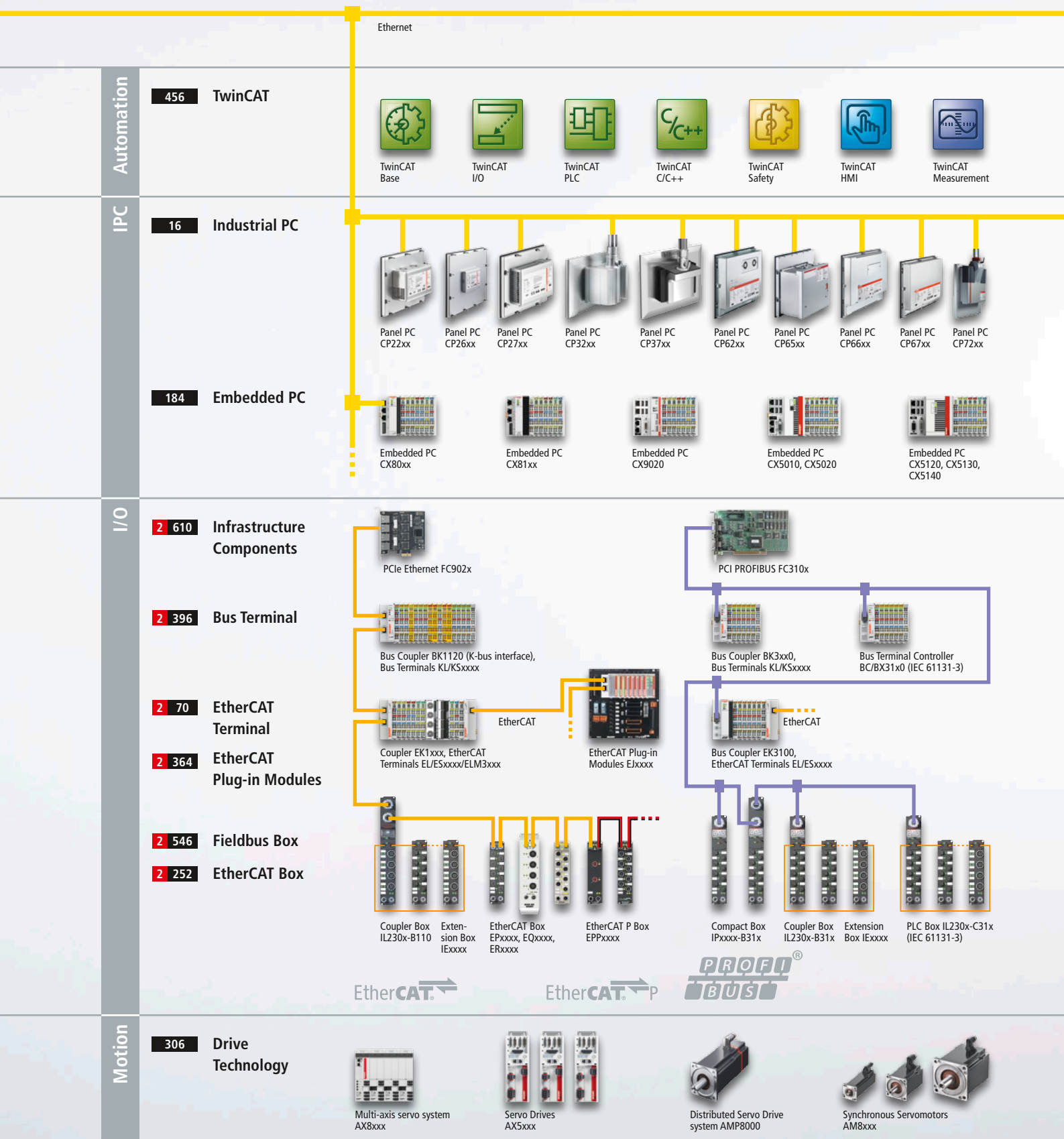
The Motion Company

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 and AX8000 Servo Drive series with high-performance EtherCAT 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.

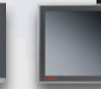
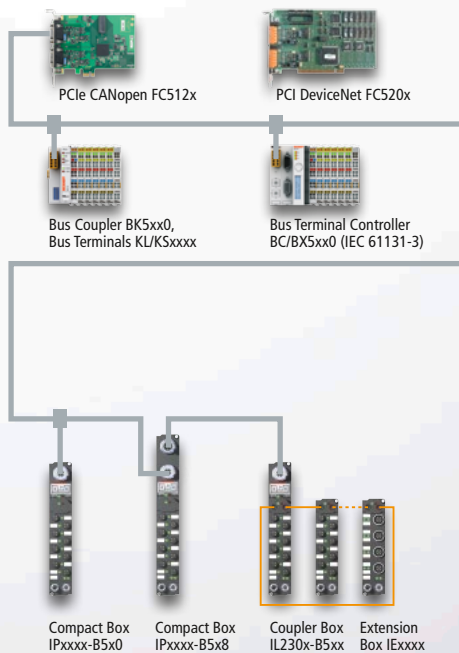
The Automation Company

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.

System overview

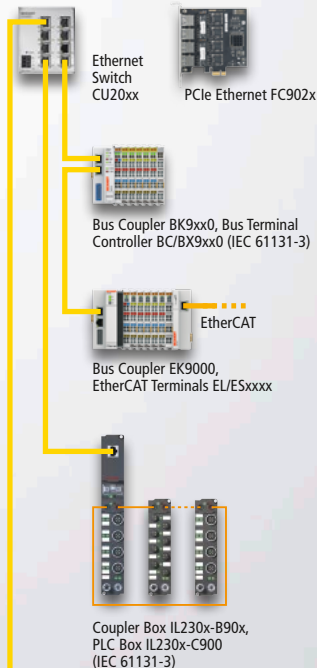


Detailed system and fieldbus information from page **2 24**

TwinCAT
SpeechTwinCAT
VisionTwinCAT
ControlTwinCAT
MotionTwinCAT
PTPTwinCAT
NC ITwinCAT
CNCTwinCAT
RoboticsTwinCAT
ConnectivityTwinCAT
Industrie 4.0TwinCAT
Industry specificPanel PC
CP77xxPanel PC
C36xx19-inch slide-in PC
C5xxControl cabinet PC
C61xxBuilt-in Industrial
PC C65xxControl cabinet PC
C66xxControl cabinet
PC C60xxBuilt-in Control
Panel CP29xxControl Panel
CP39xxBuilt-in Control
Panel CP69xxControl Panel
CP79xxEmbedded PC
CX2020, CX2030, CX2040Embedded PC
CX2042, CX2062, CX2072

CANopen

DeviceNet



Ethernet TCP/IP

Stainless steel servomotors
AM88xxLinear Servomotors
ALxxxx

Compact Drive Technology



XTS | eXtended Transport System

Beckhoff worldwide



Headquarters

Beckhoff Automation GmbH & Co. KG

Hülshorstweg 20

33415 Verl

Germany

Phone: +49 52469630

Fax: +49 5246963198

info@beckhoff.com

www.beckhoff.com



Beckhoff worldwide

Headquarters

Beckhoff Automation GmbH & Co. KG

Hülshorstweg 20
33415 Verl
Germany
Phone: +49 52469630
info@beckhoff.de
www.beckhoff.de

Europe

Germany

Subsidiary Balingen
Beckhoff Automation GmbH & Co. KG
72336 Balingen
Phone: +49 7433260240
balingen@beckhoff.de
www.beckhoff.de

Subsidiary Berlin
Beckhoff Automation GmbH & Co. KG
10623 Berlin
Phone: +49 308871160
berlin@beckhoff.de
www.beckhoff.de

Sales office Crailsheim
Beckhoff Automation GmbH & Co. KG
74564 Crailsheim
Phone: +49 7951297670
crailsheim@beckhoff.de
www.beckhoff.de

Sales office Deggendorf
Beckhoff Automation GmbH & Co. KG
94469 Deggendorf
Phone: +49 99138312160
deggendorf@beckhoff.de
www.beckhoff.de

Sales office Dresden
Beckhoff Automation GmbH & Co. KG
01067 Dresden
Phone: +49 3514383320
dresden@beckhoff.de
www.beckhoff.de

Subsidiary Frankfurt
Beckhoff Automation GmbH & Co. KG
60327 Frankfurt
Phone: +49 696809880
frankfurt@beckhoff.de
www.beckhoff.de

Sales office Fulda
Beckhoff Automation GmbH & Co. KG
36037 Fulda
Phone: +49 6619015260
frankfurt@beckhoff.de
www.beckhoff.de

Subsidiary Hanover
Beckhoff Automation GmbH & Co. KG
30655 Hanover
Phone: +49 5118757580
hannover@beckhoff.de
www.beckhoff.de

Subsidiary Lüneburg
Beckhoff Automation GmbH & Co. KG
23552 Lüneburg
Phone: +49 4512039880
luebeck@beckhoff.de
www.beckhoff.de

Sales office Mannheim
Beckhoff Automation GmbH & Co. KG
68165 Mannheim
Phone: +49 6217185220
frankfurt@beckhoff.de
www.beckhoff.de

Sales office Marktheidenfeld
Beckhoff Automation GmbH & Co. KG
97828 Marktheidenfeld
Phone: +49 9391912700
marktheidenfeld@beckhoff.de
www.beckhoff.de

Subsidiary Moers
Beckhoff Automation GmbH & Co. KG
47445 Moers
Phone: +49 2841908166
rhein-ruhr@beckhoff.de
www.beckhoff.de

Sales office Monheim
Beckhoff Automation GmbH & Co. KG
40789 Monheim
Phone: +49 2173686730
monheim@beckhoff.de
www.beckhoff.de

Subsidiary Munich
Beckhoff Automation GmbH & Co. KG
82194 Gröbenzell
Phone: +49 8142410590
muenchen@beckhoff.de
www.beckhoff.de

Subsidiary Münster
Beckhoff Automation GmbH & Co. KG
48155 Münster
Phone: +49 2501963990
muenster@beckhoff.de
www.beckhoff.de

Subsidiary Nuremberg
Beckhoff Automation GmbH & Co. KG
90482 Nuremberg
Phone: +49 911540560
nuernberg@beckhoff.de
www.beckhoff.de

Sales office Pforzheim
Beckhoff Automation GmbH & Co. KG
75181 Pforzheim
Phone: +49 7231417650
balingen@beckhoff.de
www.beckhoff.de

Sales office Ravensburg
Beckhoff Automation GmbH & Co. KG
88212 Ravensburg
Phone: +49 7515693690
ravensburg@beckhoff.de
www.beckhoff.de

Sales office Regensburg
Beckhoff Automation GmbH & Co. KG
93051 Regensburg
Phone: +49 94128040780
regensburg@beckhoff.de
www.beckhoff.de

Austria
Headquarters
Beckhoff Automation GmbH
Hauptstraße 4
6706 Birs
Phone: +43 5552688130
info@beckhoff.at
www.beckhoff.at

Sales office Greinbach
Beckhoff Automation GmbH
8230 Greinbach
Phone: +43 3332646350
steiermark@beckhoff.at
www.beckhoff.at

Sales office Hagenberg
Beckhoff Automation GmbH
4232 Hagenberg
Phone: +43 7236209250
oesterreich@beckhoff.at
www.beckhoff.at

Sales office Innsbruck
Beckhoff Automation GmbH
6020 Innsbruck
Phone: +43 512236043
tirol@beckhoff.at
www.beckhoff.at

Sales office Salzburg
Beckhoff Automation GmbH
5081 Anif
Phone: +43 6246743600
salzburg@beckhoff.at
www.beckhoff.at

Sales office Vienna
Beckhoff Automation GmbH
1220 Vienna
Phone: +43 1263223840
wien@beckhoff.at
www.beckhoff.at

Belgium, Luxembourg
Headquarters
Beckhoff Automation bvba
Klaverbladstraat 11.2/2
3560 Lummen
Phone: +32 13252200
info@beckhoff.be
www.beckhoff.be

Sales office Kortrijk
Beckhoff Automation bvba
8500 Kortrijk
Phone: +32 56202037
info@beckhoff.be
www.beckhoff.be

Bulgaria
Distributor
Kastiva GmbH
68-72 Ami Bue Street
1612 Sofia
Phone: +359 29504431
office@kastiva.com
www.kastiva.com

Croatia
Distributor
Krovel d.o.o.
Barutanski jarak 114
10000 Zagreb
Phone: +385 12305788
beckhoff@krovel.hr
www.krovel.hr

Czech Republic, Slovak Republic
Headquarters
Beckhoff Česká republika s.r.o.
Sochorova 23
61600 Brno
Phone: +420 511189250
info.cz@beckhoff.com
www.beckhoff.com/cz

Denmark, Iceland

Headquarters
Beckhoff Automation ApS
Birkemose allé 25
6000 Kolding
Phone: +45 43201570
info@beckhoff.dk
www.beckhoff.dk

Sales office Hobro
Beckhoff Automation ApS
9500 Hobro
Phone: +45 43201570
info@beckhoff.dk
www.beckhoff.dk

Sales office Solrød
Beckhoff Automation ApS
2680 Solrød
Phone: +45 43201570
info@beckhoff.dk
www.beckhoff.dk

Estonia

Representative office
Beckhoff Automation Oy
Valukoja 8, Öpiku 2
11415 Tallinn
Phone: +372 55971011
info@beckhoff.fi
www.beckhoff.fi

Finland

Headquarters
Beckhoff Automation Oy
Hakakalliontie 2
05460 Hyvinkää
Phone: +358 207423800
info@beckhoff.fi
www.beckhoff.fi

Sales office Oulu
Beckhoff Automation Oy
90590 Oulu
Phone: +358 207423800
info@beckhoff.fi
www.beckhoff.fi

Sales office Seinäjoki
Beckhoff Automation Oy
60320 Seinäjoki
Phone: +358 207423800
info@beckhoff.fi
www.beckhoff.fi

Sales office Tampere
Beckhoff Automation Oy
33720 Tampere
Phone: +358 207423800
info@beckhoff.fi
www.beckhoff.fi

France

Headquarters
Beckhoff Automation Sarl
19 bis, avenue du Québec
91140 Villebon-sur-Yvette
Phone: +33 169298370
info@beckhoff.fr
www.beckhoff.fr

Sales office Annecy
Beckhoff Automation Sarl
74940 Annecy
Phone: +33 450635000
info@beckhoff.fr
www.beckhoff.fr

Sales office Bras-sur-Meuse
Beckhoff Automation Sarl
55100 Bras-sur-Meuse
Phone: +33 384274604
info@beckhoff.fr
www.beckhoff.fr

Sales office Orvault
Beckhoff Automation Sarl
44700 Orvault
Phone: +33 228250815
info@beckhoff.fr
www.beckhoff.fr

Greece, Cyprus

Distributor
Industrial Automation Systems
241 EL Venizelou
17673 Kallithea
Phone: +30 2109510260
info@ias.gr

Hungary

Headquarters
Beckhoff Automation Kft.
Gubacsi út 6.
1097 Budapest
Phone: +36 15019940
info@beckhoff.hu
www.beckhoff.hu

Italy

Headquarters
Beckhoff Automation S.r.l.
Via Luciano Manara, 2
20812 Limbiate
Phone: +39 029945311
info@beckhoff.it
www.beckhoff.it

Sales office Bologna
Beckhoff Automation S.r.l.
40033 Casalecchio di Reno
Phone: +39 05119939200
bologna@beckhoff.it
www.beckhoff.it

Sales office Padua
Beckhoff Automation S.r.l.
35129 Padua
Phone: +39 0498073758
padova@beckhoff.it
www.beckhoff.it

Lithuania, Latvia

Distributor
UAB Santavilte
Europos pr. 121
46339 Kaunas
Phone: +370 37211360
info@santavilte.lt
www.santavilte.lt

Malta

Distributor
JMartans Automation Ltd
F10B Mosta Technopark
MST 3000 Mosta
Phone: +356 21420655
info@jmartans.com
www.jmartans.com

Netherlands

Headquarters
Beckhoff Automation B.V.
Küppersweg 71
2031 EB Haarlem
Phone: +31 235185140
sales@beckhoff.nl
www.beckhoff.nl

Sales office Eindhoven
Beckhoff Automation B.V.
5652 AM Eindhoven
Phone: +31 403032650
sales@beckhoff.nl
www.beckhoff.nl

Norway

Headquarters
Beckhoff Automation AS
Raveien 205
3184 Borre
Phone: +47 33504690
info@beckhoff.no
www.beckhoff.no

Poland

Headquarters
Beckhoff Automation Sp. z o.o.
Zabieniec, ul. Ruczajowa 15
05500 Piaseczno
Phone: +48 227504700
info@beckhoff.pl
www.beckhoff.pl

Sales office Katowice
Beckhoff Automation Sp. z o.o.
40476 Katowice
Phone: +48 727722700
info@beckhoff.pl
www.beckhoff.pl

Sales office Wrocław
Beckhoff Automation Sp. z o.o.
54616 Wrocław
Phone: +48 727722800
info@beckhoff.pl
www.beckhoff.pl

Portugal

Distributor
Bresimar Automação, S.A.
Quinta do Simão, EN109, Esqueira
3800230 Aveiro
Phone: +351 234303320
bresimar@bresimar.pt
www.bresimar.pt

Romania

Distributor
Kreatron Automation S.R.L.
Str. Octavian Fodor nr. 113, ap. 13
400434 Cluj-Napoca
Phone: +40 364401612
office@kreatron.ro
www.kreatron.ro

Russia, Belarus

Headquarters
Beckhoff Automation OOO
Staraya Basmannaya 14/2, Str. 2
105064 Moscow
Phone: +7 4957778366
russia@beckhoff.com
www.beckhoff.ru

Sales office Novosibirsk
Beckhoff Automation OOO
630054 Novosibirsk
Phone: +7 3833559951
novosibirsk@beckhoff.com
www.beckhoff.ru

Sales office Samara
Beckhoff Automation OOO
443010 Samara
Phone: +7 8462698067
samara@beckhoff.com
www.beckhoff.ru

Sales office St Petersburg
Beckhoff Automation OOO
199178 St Petersburg
Phone: +7 8123326205
st.petersburg@beckhoff.com
www.beckhoff.ru

Sales office Vladimir
Beckhoff Automation OOO
600000 Vladimir
Phone: +7 4922464180
vladimir@beckhoff.com
www.beckhoff.ru

Sales office Yekaterinburg
Beckhoff Automation OOO
620049 Yekaterinburg
Phone: +7 3433799873
ekaterinburg@beckhoff.com
www.beckhoff.ru

Slovenia, Bosnia and Herzegovina, Kosovo, Macedonia, Montenegro, Serbia

Headquarters
Beckhoff Avtomatizacija d.o.o.
Zbiljska cesta 4
1215 Medvode
Phone: +386 13613080
info@beckhoff.si
www.beckhoff.si

Spain

Headquarters
Beckhoff Automation S.A.
Avda. Alcalde Barnils, 64-68
08174 Sant Cugat
Phone: +34 935844997
info@beckhoff.es
www.beckhoff.es

Sales office Madrid
Beckhoff Automation S.A.
28290 Madrid
Phone: +34 916364357
centro@beckhoff.com
www.beckhoff.es

Sales office Zamudio
Beckhoff Automation S.A.
48170 Zamudio
Phone: +34 944314075
norte@beckhoff.com
www.beckhoff.es

Sweden

Headquarters
Beckhoff Automation AB
Stenåldersgatan 2A
21376 Malmö
Phone: +46 406808160
info@beckhoff.se
www.beckhoff.se

Sales office Gothenburg
Beckhoff Automation AB
43360 Sövedalen
Phone: +46 406808160
info@beckhoff.se
www.beckhoff.se

Sales office Piteå
Beckhoff Automation AB
94141 Piteå
Phone: +46 406808160
info@beckhoff.se
www.beckhoff.se

Sales office Stockholm
Beckhoff Automation AB
16250 Vällingby
Phone: +46 406808160
info@beckhoff.se
www.beckhoff.se

Switzerland

Headquarters
Beckhoff Automation AG
Rheinweg 7
8200 Schaffhausen
Phone: +41 526334040
info@beckhoff.ch
www.beckhoff.ch

Sales office Arbon
Beckhoff Automation AG
9320 Arbon
Phone: +41 714401141
info@beckhoff.ch
www.beckhoff.ch

Sales office Losone
Beckhoff Automation AG
6616 Losone
Phone: +41 917922440
ticino@beckhoff.ch
www.beckhoff.ch

Sales office Lyssach
Beckhoff Automation AG
3421 Lyssach
Phone: +41 344474480
info@beckhoff.ch
www.beckhoff.ch

Sales office Yverdon-les-Bains
Beckhoff Automation AG
1400 Yverdon-les-Bains
Phone: +41 244472700
yverdon@beckhoff.ch
www.beckhoff.ch

Sales office Zürich
Beckhoff Automation AG
8052 Zürich
Phone: +41 526334040
info@beckhoff.ch
www.beckhoff.ch

Turkey, Azerbaijan

Headquarters
Beckhoff Otomasyon Ltd. Şti.
Gardenya-3 Plaza No: 18-19-20
34758 İstanbul
Phone: +90 2165809830
info@beckhoff.com.tr
www.beckhoff.com.tr

Sales office Ankara
Beckhoff Otomasyon Ltd. Şti.
06378 Ankara
Phone: +90 3123940346
info@beckhoff.com.tr
www.beckhoff.com.tr

Sales office Bursa
Beckhoff Otomasyon Ltd. Şti.
16110 Bursa
Phone: +90 2245010017
info@beckhoff.com.tr
www.beckhoff.com.tr

Sales office İzmir
Beckhoff Otomasyon Ltd. Şti.
35530 İzmir
Phone: +90 2324860350
info@beckhoff.com.tr
www.beckhoff.com.tr

United Kingdom, Ireland

Headquarters
Beckhoff Automation Ltd.
Station Road
Henley-on-Thames RG9 1AZ
Phone: +44 1491410539
info@beckhoff.co.uk
www.beckhoff.co.uk

Sales office Glasgow
Beckhoff Automation Ltd.
Glasgow G75 0QD
Phone: +44 1418471411
scotland@beckhoff.com
www.beckhoff.co.uk

Sales office Huntingdon
Beckhoff Automation Ltd.
Huntingdon PE29 6UA
Phone: +44 1491410539
info@beckhoff.co.uk
www.beckhoff.co.uk

North America**Canada**

Headquarters
Beckhoff Automation Ltd.
2900 Argentia Road
Mississauga ON L5N 7X9
Phone: +1 2896271900
canada@beckhoff.com
www.beckhoff.ca

Sales office London
Beckhoff Automation Ltd.
London ON
Phone: +1 5194947262
canada@beckhoff.com
www.beckhoff.ca

Sales office Montreal
Beckhoff Automation Ltd.
Laval QC
Phone: +1 5149223282
canada@beckhoff.com
www.beckhoff.ca

Sales office Toronto
Beckhoff Automation Ltd.
Toronto ON
Phone: +1 9054664371
canada@beckhoff.com
www.beckhoff.ca

Sales office Vancouver
Beckhoff Automation Ltd.
Surrey BC
Phone: +1 6043584782
canada@beckhoff.com
www.beckhoff.ca

Mexico

Distributor
Integra Automation, SA de CV
Av. Industrias 1482
San Luis Potosí
Phone: +52 4448222615
mexico@beckhoff.com
www.integra-automation.com

United States of America

Headquarters
Beckhoff Automation LLC
13130 Dakota Avenue
55378 Savage MN
Phone: +1 9528900000
beckhoff.usa@beckhoff.com
www.beckhoffautomation.com

Sales office Atlanta
Beckhoff Automation LLC
Atlanta GA
Phone: +1 7704038868
georgia.sales@beckhoff.com
www.beckhoffautomation.com

Sales office Austin
Beckhoff Automation LLC
Austin TX
Phone: +1 5122509809
southwest.sales@beckhoff.com
www.beckhoffautomation.com

Sales office Baltimore
Beckhoff Automation LLC
Havre de Grace MD
Phone: +1 4109379638
northeast.sales@beckhoff.com
www.beckhoffautomation.com

Sales office Boston
Beckhoff Automation LLC
Boston MA
Phone: +1 5087767167
newengland@beckhoff.com
www.beckhoffautomation.com

Sales office Charlotte
Beckhoff Automation LLC
Charlotte NC
Phone: +1 7049104367
southeast.usa@beckhoff.com
www.beckhoffautomation.com

Sales office Chicago
Beckhoff Automation LLC
Woodridge IL
Phone: +1 6306318467
midwest.usa@beckhoff.com
www.beckhoffautomation.com

Sales office Cincinnati
Beckhoff Automation LLC
Mason OH
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ohio.sales@beckhoff.com
www.beckhoffautomation.com

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southwest.sales@beckhoff.com
www.beckhoffautomation.com

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mountain.sales@beckhoff.com
www.beckhoffautomation.com

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Detroit MI
Phone: +1 2488285310
michigan@beckhoff.com
www.beckhoffautomation.com

Sales office Fond du Lac
Beckhoff Automation LLC
Fond du Lac WI
Phone: +1 9202512777
wisconsin@beckhoff.com
www.beckhoffautomation.com

Sales office Houston
Beckhoff Automation LLC
Houston TX
Phone: +1 9326104034
southwest.sales@beckhoff.com
www.beckhoffautomation.com

Sales office Los Angeles
Beckhoff Automation LLC
Los Angeles CA
Phone: +1 3109250006
losangeles@beckhoff.com
www.beckhoffautomation.com

Sales office Mechanicsburg
Beckhoff Automation LLC
Mechanicsburg PA
Phone: +1 8886160859
northeast.sales@beckhoff.com
www.beckhoffautomation.com

Sales office Milwaukee
Beckhoff Automation LLC
Milwaukee WI
Phone: +1 4146402112
wisconsin@beckhoff.com
www.beckhoffautomation.com

Sales office Nashville
Beckhoff Automation LLC
Nashville TN
Phone: +1 9315103629
tennessee.sales@beckhoff.com
www.beckhoffautomation.com

Sales office Phoenix
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Phoenix AZ
Phone: +1 3858311520
arizona@beckhoff.com
www.beckhoffautomation.com

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Raleigh NC
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southeast.sales@beckhoff.com
www.beckhoffautomation.com

Sales office Rochester
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Rochester NY
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www.beckhoffautomation.com

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south.usa@beckhoff.com
www.beckhoffautomation.com

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sandiego@beckhoff.com
www.beckhoffautomation.com

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San Francisco CA
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San Jose CA
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norcal@beckhoff.com
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Mill Creek WA
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northwest.sales@beckhoff.com
www.beckhoffautomation.com

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ohio.sales@beckhoff.com
www.beckhoffautomation.com

South America

Argentina
Distributor
eFALCOM
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Phone: +54 2374631151
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www.efalcom.com

Brazil
Headquarters
Beckhoff Automação Industrial Ltda.
Rua Caminho do Pilar, 1362
Santo André
Phone: +55 1141263232
info@beckhoff.com.br
www.beckhoff.com.br

Sales office Campinas
Beckhoff Automação Industrial Ltda.
Campinas
Phone: +55 1141263232
info@beckhoff.com.br
www.beckhoff.com.br

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Beckhoff Automação Industrial Ltda.
Joinville
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comando@comandonet.com
www.comandonet.com

Africa

Egypt
Representative office
Beckhoff Automation Contact
11/6 Said Zakaria Street
11471 Cairo
Phone: +20 1009156261
egypt@beckhoff.com
www.beckhoff.com

South Africa, Sub-Saharan
Headquarters
Beckhoff Automation (Pty) Ltd
7 Ateljee Street
2169 Gauteng
Phone: +27 117952898
info@beckhoff.co.za
www.beckhoff.co.za

Sales office Cape Town
Beckhoff Automation (Pty) Ltd
Cape Town
Phone: +27 117952898
info@beckhoff.co.za
www.beckhoff.co.za

Sales office Durban
Beckhoff Automation (Pty) Ltd
Durban
Phone: +27 117952898
info@beckhoff.co.za
www.beckhoff.co.za

Sales office Port Elizabeth
Beckhoff Automation (Pty) Ltd
Port Elizabeth
Phone: +27 117952898
info@beckhoff.co.za
www.beckhoff.co.za

Asia

China
Headquarters
Beckhoff Automation
(Shanghai) Co., Ltd.
No. 163 Jiang Chang San Road
200436 Shanghai
Phone: +86 2166312666
info@beckhoff.com.cn
www.beckhoff.com.cn

Sales office Beijing
Beckhoff Automation
(Shanghai) Co., Ltd.
Beijing
Phone: +86 1082200036
beijing@beckhoff.com.cn
www.beckhoff.com.cn

Sales office Changsha
Beckhoff Automation
(Shanghai) Co., Ltd.
Changsha
Phone: +86 73189608950
changsha@beckhoff.com.cn
www.beckhoff.com.cn

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Chengdu
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chengdu@beckhoff.com.cn
www.beckhoff.com.cn

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Guangzhou
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guangzhou@beckhoff.com.cn
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Hangzhou
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hangzhou@beckhoff.com.cn
www.beckhoff.com.cn

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(Shanghai) Co., Ltd.
Hefei
Phone: +86 55165543513
hefei@beckhoff.com.cn
www.beckhoff.com.cn

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(Shanghai) Co., Ltd.
Jinan
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jinan@beckhoff.com.cn
www.beckhoff.com.cn

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(Shanghai) Co., Ltd.
Kunming
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kunming@beckhoff.com.cn
www.beckhoff.com.cn

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Nanjing
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nanjing@beckhoff.com.cn
www.beckhoff.com.cn

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(Shanghai) Co., Ltd.
Ningbo
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ningbo@beckhoff.com.cn
www.beckhoff.com.cn

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Qingdao
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qingdao@beckhoff.com.cn
www.beckhoff.com.cn

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(Shanghai) Co., Ltd.
Shenyang
Phone: +86 2422788896
shenyang@beckhoff.com.cn
www.beckhoff.com.cn

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(Shanghai) Co., Ltd.
Suzhou
Phone: +86 75523603232
shenzhen@beckhoff.com.cn
www.beckhoff.com.cn

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Beckhoff Automation
(Shanghai) Co., Ltd.
Suzhou
Phone: +86 51262852207
suzhou@beckhoff.com.cn
www.beckhoff.com.cn

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(Shanghai) Co., Ltd.
Tianjin
Phone: +86 2258291112
tianjin@beckhoff.com.cn
www.beckhoff.com.cn

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(Shanghai) Co., Ltd.
Wuhan
Phone: +86 2787711992
wuhan@beckhoff.com.cn
www.beckhoff.com.cn

Sales office Wuxi
Beckhoff Automation
(Shanghai) Co., Ltd.
Wuxi
Phone: +86 51085819306
wuxi@beckhoff.com.cn
www.beckhoff.com.cn

Sales office Xi'an
Beckhoff Automation
(Shanghai) Co., Ltd.
Xi'an
Phone: +86 2988499908
xian@beckhoff.com.cn
www.beckhoff.com.cn

Sales office Zhengzhou
Beckhoff Automation
(Shanghai) Co., Ltd.
Zhengzhou
Phone: +86 37161732582
zhengzhou@beckhoff.com.cn
www.beckhoff.com.cn

India
Headquarters
Beckhoff Automation Pvt. Ltd.
Suyog Platinum Tower
Naylor Road, Sangamvadi
411001 Pune
Phone: +91 2040004800
info@beckhoff.co.in
www.beckhoff.co.in

Sales office Ahmedabad
Beckhoff Automation Pvt. Ltd.
380015 Ahmedabad
Phone: +91 7940084800
info@beckhoff.co.in
www.beckhoff.co.in

Sales office Bangalore
Beckhoff Automation Pvt. Ltd.
560004 Bangalore
Phone: +91 8040084800
info@beckhoff.co.in
www.beckhoff.co.in

Sales office Chennai
Beckhoff Automation Pvt. Ltd.
600042 Chennai
info@beckhoff.co.in
www.beckhoff.co.in

Sales office Coimbatore
Beckhoff Automation Pvt. Ltd.
641009 Coimbatore
Phone: +91 4224508499
info@beckhoff.co.in
www.beckhoff.co.in

Sales office New Delhi
Beckhoff Automation Pvt. Ltd.
201301 New Delhi
info@beckhoff.co.in
www.beckhoff.co.in

Sales office Thane
Beckhoff Automation Pvt. Ltd.
400604 Thane
Phone: +91 2249718200
info@beckhoff.co.in
www.beckhoff.co.in

Indonesia
Representative office
Beckhoff Automation Pte. Ltd.
The Vida Office Tower
Jl. Raya Perjuangan No. 8, Rt.01/Rw.07
11530 Jakarta
Phone: + 62 2129661363
sales@beckhoff.co.id
www.beckhoff.co.id

Israel
Headquarters
Beckhoff Automation Ltd.
Beit Golan
Golan St.
7010000 Lod
Phone: +972 37764445
info@beckhoff.co.il
www.beckhoff.co.il

Japan
Headquarters
Beckhoff Automation K.K.
Nisseki Yokohama Building
1-1-8 Sakuragicho, Naka-ku
2310062 Yokohama
Phone: +81 456501612
info@beckhoff.co.jp
www.beckhoff.co.jp

Sales office Nagoya
Beckhoff Automation K.K.
4536123 Nagoya
Phone: +81 524332256
info@beckhoff.co.jp
www.beckhoff.co.jp

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Phone: +961 1491161
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Malaysia, Brunei
Headquarters
Beckhoff Automation Sdn. Bhd.
(889044-H)
Surian Tower
No. 1 Jalan PJU 7/3
47810 Petaling Jaya
Phone: +60 377318388
info@beckhoff.com.my
www.beckhoff.com.my

Sales office Kuching
Beckhoff Automation Sdn. Bhd.
(889044-H)
93450 Kuching
Phone: +60 377318388
info@beckhoff.com.my
www.beckhoff.com.my

Sales office Penang
Beckhoff Automation Sdn. Bhd.
(889044-H)
11950 Penang
Phone: +60 46460388
info@beckhoff.com.my
www.beckhoff.com.my

Singapore, Philippines, Vietnam
Headquarters
Beckhoff Automation Pte. Ltd.
#05-07/08 Nordic European Centre
609927 Singapore
Phone: +65 66976220
info@beckhoff.com.sg
www.beckhoff.com.sg

South Korea
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312A, Kandy Road
Kadawatha
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techmast@sltnet.lk
www.techmast-automation.com

Taiwan
Headquarters
Beckhoff Automation Co., Ltd.
Xitun District
No. 213 Chaofu Road
40757 Taichung
Phone: +886 422529900
info@beckhoff.com.tw
www.beckhoff.com.tw

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Phone: +886 285223237
jidien-taipei@jidien.com
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Thailand, Cambodia, Laos, Myanmar
Representative office
Beckhoff Automation Pte. Ltd.
SJ Infinite One
349 Vibhavadi Rangsit Road
10900 Bangkok
Phone: +66 021174900
sales@beckhoff.co.th
www.beckhoff.co.th

United Arab Emirates, Bahrain, Kuwait, Oman, Qatar, Saudi Arabia
Headquarters
Beckhoff Automation FZE
C# 608, Dubai Silicon Oasis
P.O. Box No. 341007
Dubai
Phone: +971 45015480
info@beckhoff.ae
www.beckhoff.ae

Australia and Oceania

Australia, Melanesia
Headquarters
Beckhoff Automation Pty. Ltd.
23 Edward Street
3166 Oakleigh
Phone: +61 399125430
info@beckhoff.com.au
www.beckhoff.com.au

Sales office Sydney
Beckhoff Automation Pty. Ltd.
2113 North Ryde
Phone: +61 280692333
info@beckhoff.com.au
www.beckhoff.com.au

New Zealand, Fiji, Polynesia
Headquarters
Beckhoff Automation Limited
59 Apollo Drive
0632 Auckland
Phone: +64 92812736
info@beckhoff.co.nz
www.beckhoff.co.nz