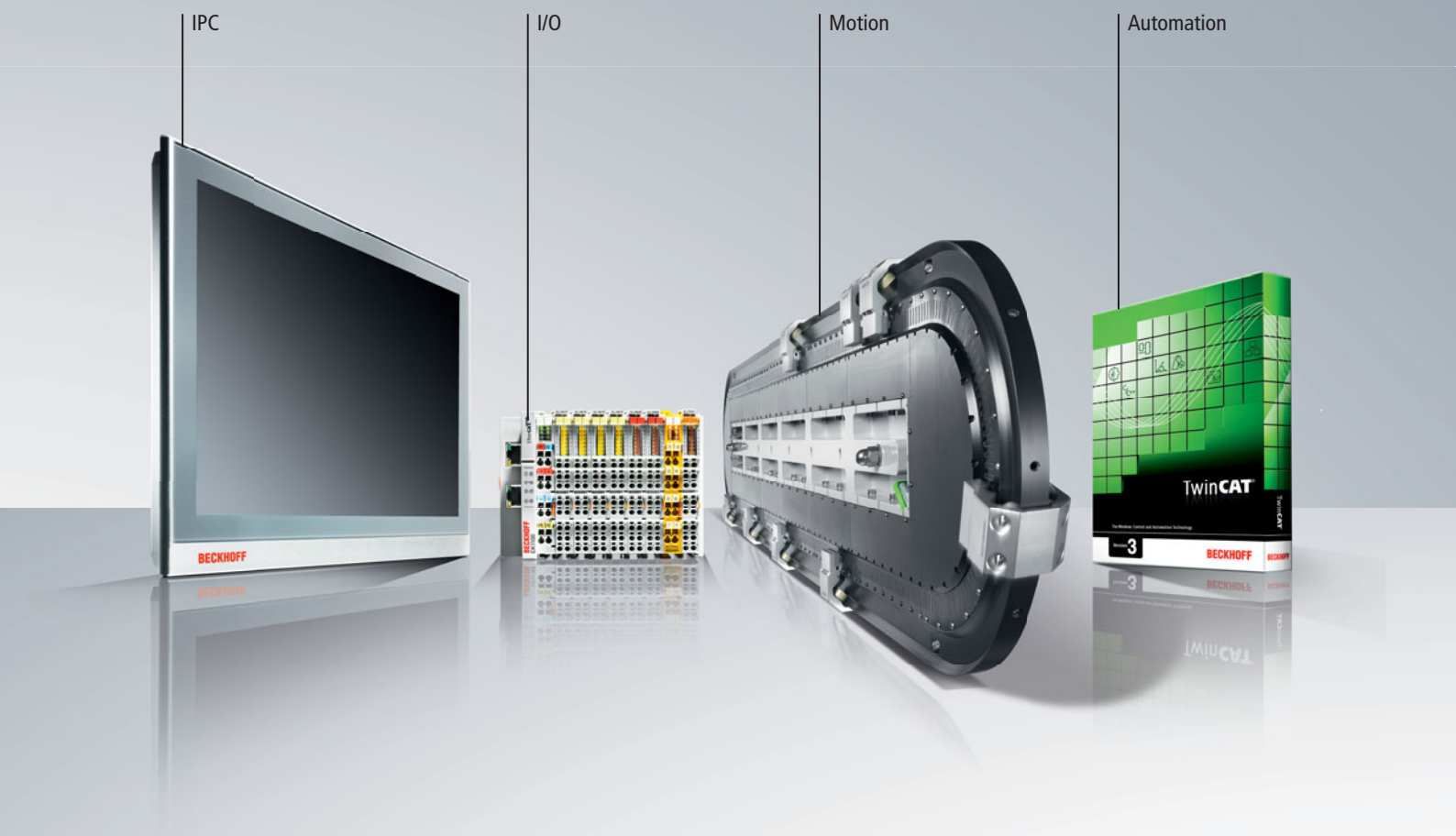
BECKHOFF New Automation Technology

Maximum efficiency and flexibility: PC-based control for the packaging industry

IPC
I/O
Motion
Automation

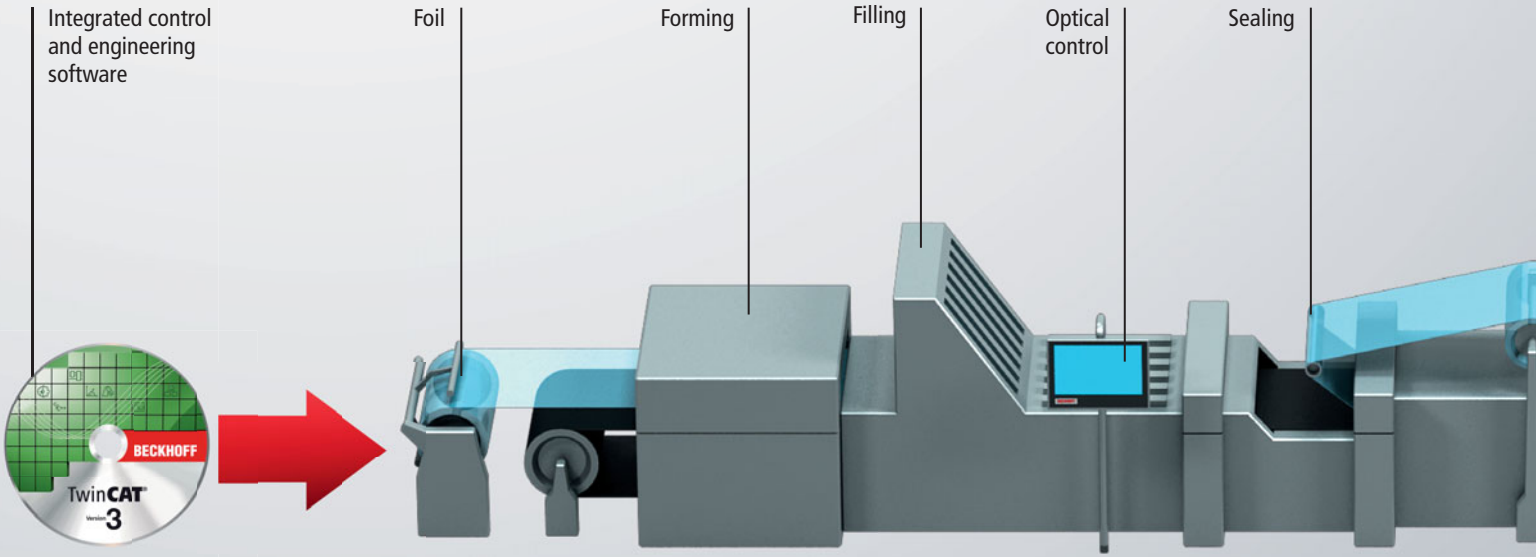


PC-based control, the integrated control platform …

With its PC- and EtherCAT-based technology, Beckhoff offers a control solution for highly efficient, flexible and compact packaging machines. Because of its openness and its universal design, PC-based control delivers technological and economical benefits. TwinCAT is the standardized software and engineering platform for all automation processes from PLC, motion control and robotics to condition monitoring. All control and drive components feature maximum scalability as well as open hardware and software interfaces for consistent communication from the sensor to the cloud. Other benefits include an integrated safety solution and support for common industry standards like FDA, EHEDG, Weihenstephaner Standards, OMAC, and GPM.

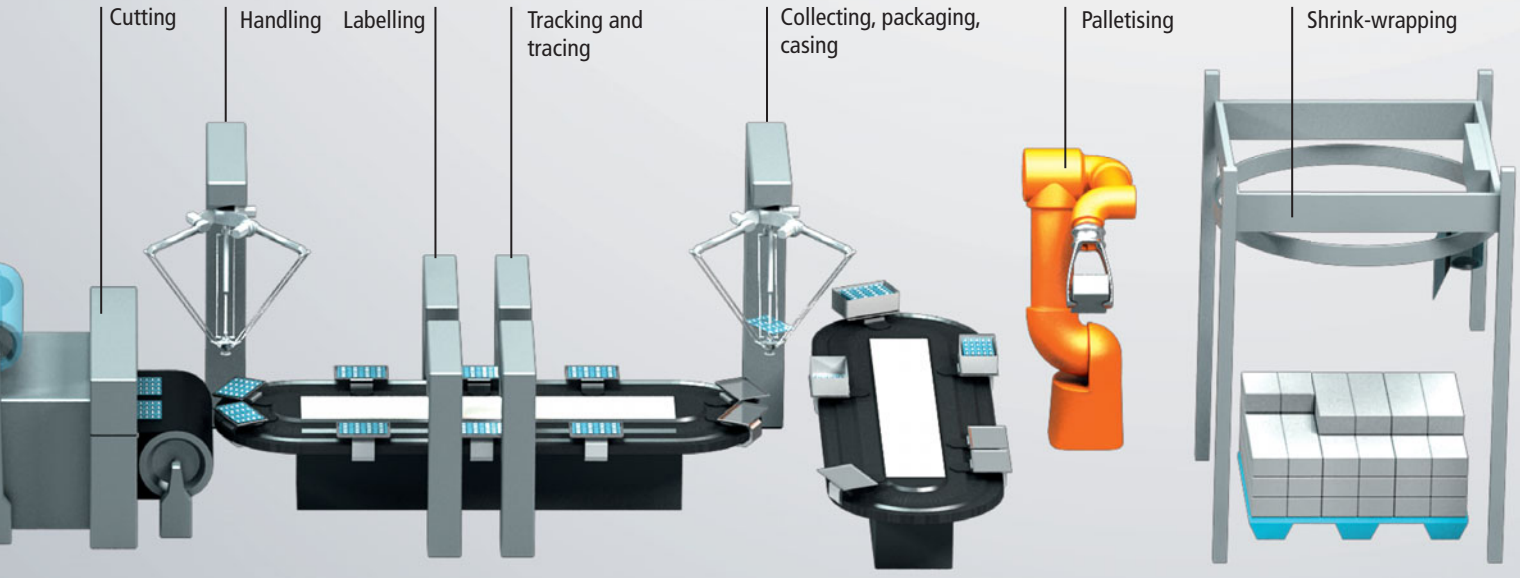
… for highly flexible, resource-efficient packaging machines

Packaging requirements vary from industry to industry and from product to product. What they all have in common, however, is that they focus more and more on quality, flexibility, and most of all resource efficiency. PC-based control technology from Beckhoff makes this possible with its exceptional performance and the openness of the TwinCAT software platform, which integrates all automation functions, including measurement technology and simulation. PC-based control is the ideal solution for applications involving high speed and precision or complex motion control interactions. It also delivers maximum flexibility for applications where packaging systems must be quickly adaptable to changing requirements or be able to easily accommodate new features.



Benefits along the entire line: Integrated PC-based control …

With PC- and EtherCAT-based control technology from Beckhoff you can automate individual packaging machines as well as entire lines. All steps such as forming, filling, sealing, labelling, collecting, boxing and palletising can be programmed and controlled via a single platform. Optimally coordinated hardware and software interfaces as well as extensive expertise in implementing each process step guarantee a high level of process stability. Applications can be realized by Beckhoff, a solution partner, or the customer himself. The Beckhoff portfolio comprises everything you need for a technologically and financially superior packaging solution.

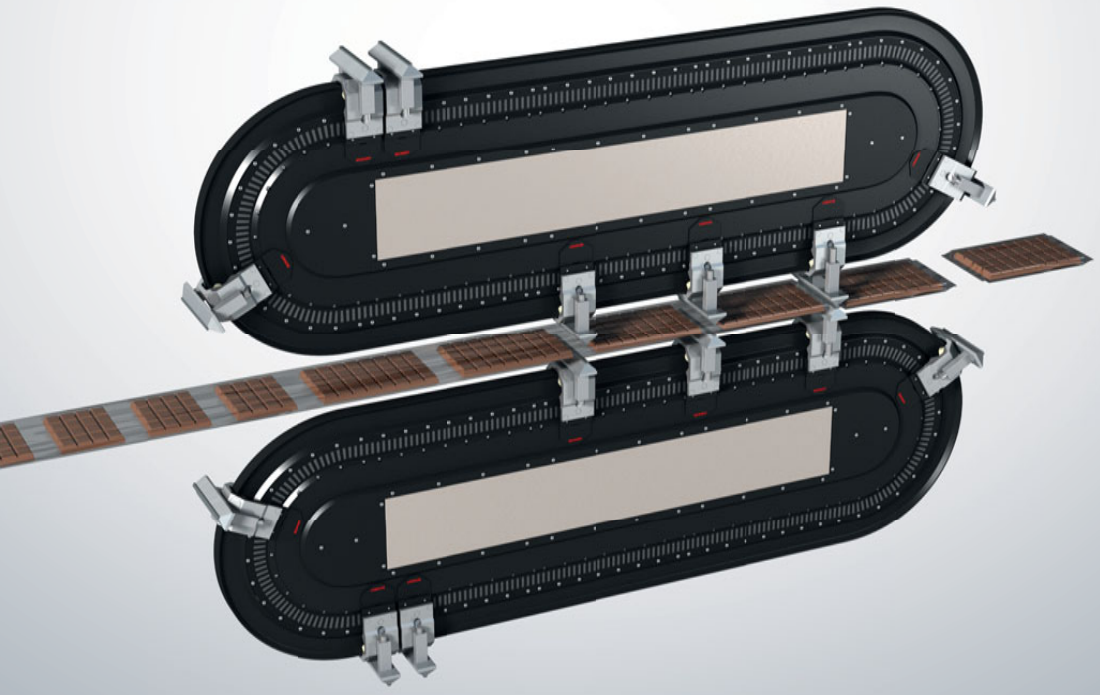


… from primary to secondary packaging

On the hardware side, Beckhoff offers a modular portfolio of Control Panels, control cabinet PCs and panel PCs, as well as a complete spectrum of I/O modules (also in high-protection versions) and highly dynamic servo drive solutions. On the software side, our TwinCAT control software with its many libraries for items like stepper control, cam plate functionality, fiducial checking or cross-cutting meets all the standard requirements you find in packaging machines. The PackML OMAC standard is also fully supported. With PC-based control, packaging machines are equipped for the needs of today and tomorrow. Requirements like track-and-trace and instant adaptation to variable characteristics of the goods being packaged can be implemented flexibly and economically. At the same time, the PC-based technology provides more computing performance and storage space to meet the constantly rising demands of increasingly complex machines with more and more features.

Resource-efficient packaging: Maximum process speed and precision …

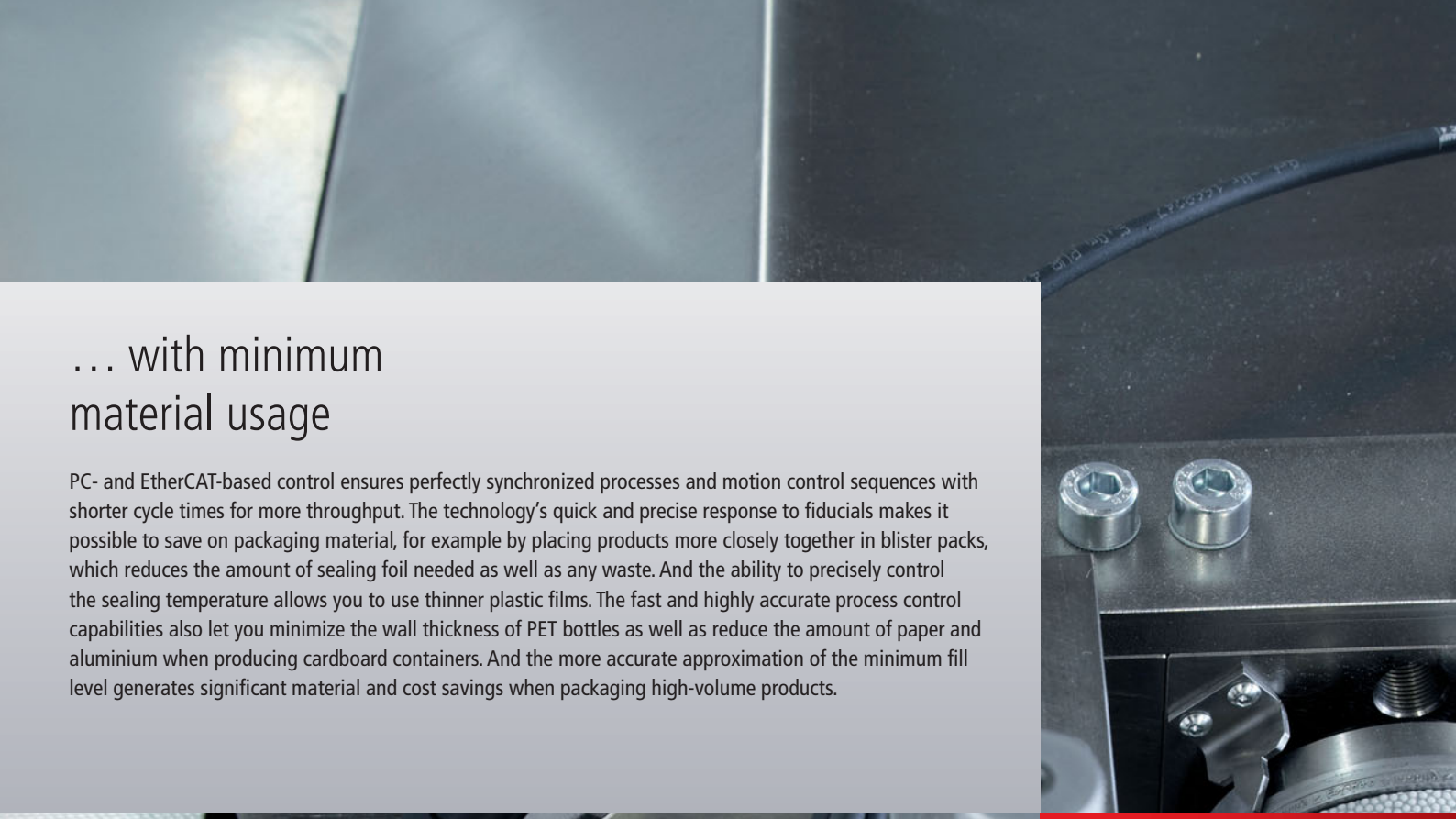
How can you implement packaging solutions that fill the correct amount while reducing the amount of packaging materials? How can you reduce the energy consumption of the entire process chain? Implementing PC Control ensures that the consumption of resources is reduced to the absolute minimum. What makes the difference is the XFC ("eXtreme Fast Control") technology. With I/O response times of less than 100 µs, the system scans the machine's status up to 10,000 times per second so that the process can be controlled with exceptional precision and repeat accuracy. With no need for special hardware, XFC implements extremely fast and accurate control solutions for packaging machines.



In combination with the XTS, PC-based control opens the door to new ways of saving on packaging material. The example shown combines the benefits of horizontal and vertical form, fill and seal machines to deliver high process speed and fast tool changes with no mechanical intervention. XFC and the XTS makes it possible to place the seal as closely to the product as possible by synchronizing printed fiducials with the sealing guillotine.

… with minimum material usage

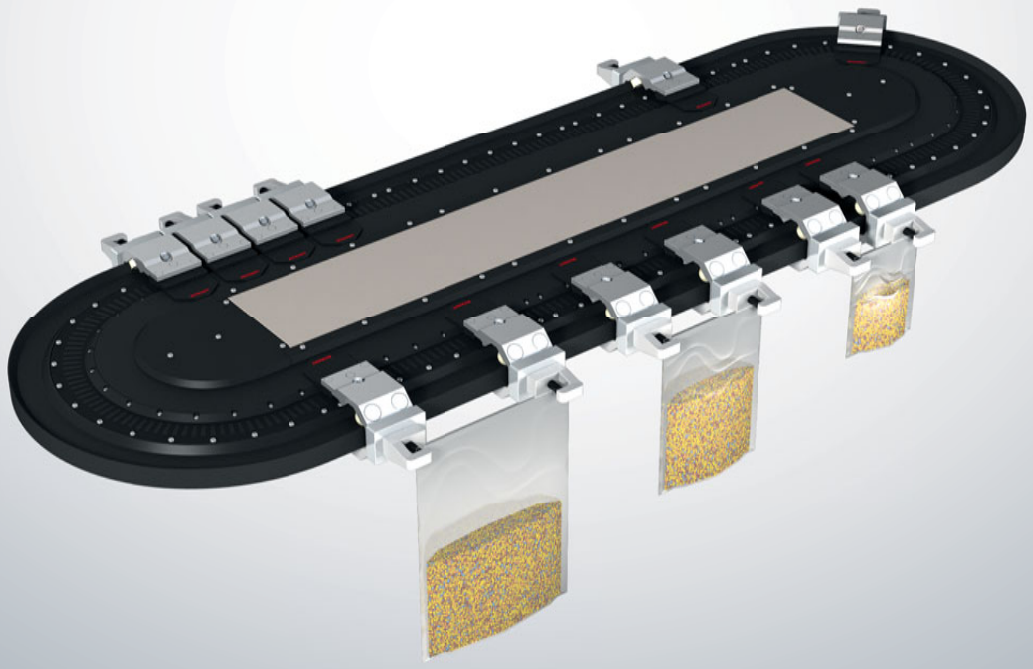
PC- and EtherCAT-based control ensures perfectly synchronized processes and motion control sequences with shorter cycle times for more throughput. The technology's quick and precise response to fiducials makes it possible to save on packaging material, for example by placing products more closely together in blister packs, which reduces the amount of sealing foil needed as well as any waste. And the ability to precisely control the sealing temperature allows you to use thinner plastic films. The fast and highly accurate process control capabilities also let you minimize the wall thickness of PET bottles as well as reduce the amount of paper and aluminium when producing cardboard containers. And the more accurate approximation of the minimum fill level generates significant material and cost savings when packaging high-volume products.



The closer the seal is to the product, the less packaging material is being used. Thanks to the high-precision capabilities of the control system, the temperature of the sealing bar does not affect the product being packaged. XFC makes it possible to perfectly synchronize the sealing knife with the process.

Flexible packaging: Fast and efficient product and format changeovers …

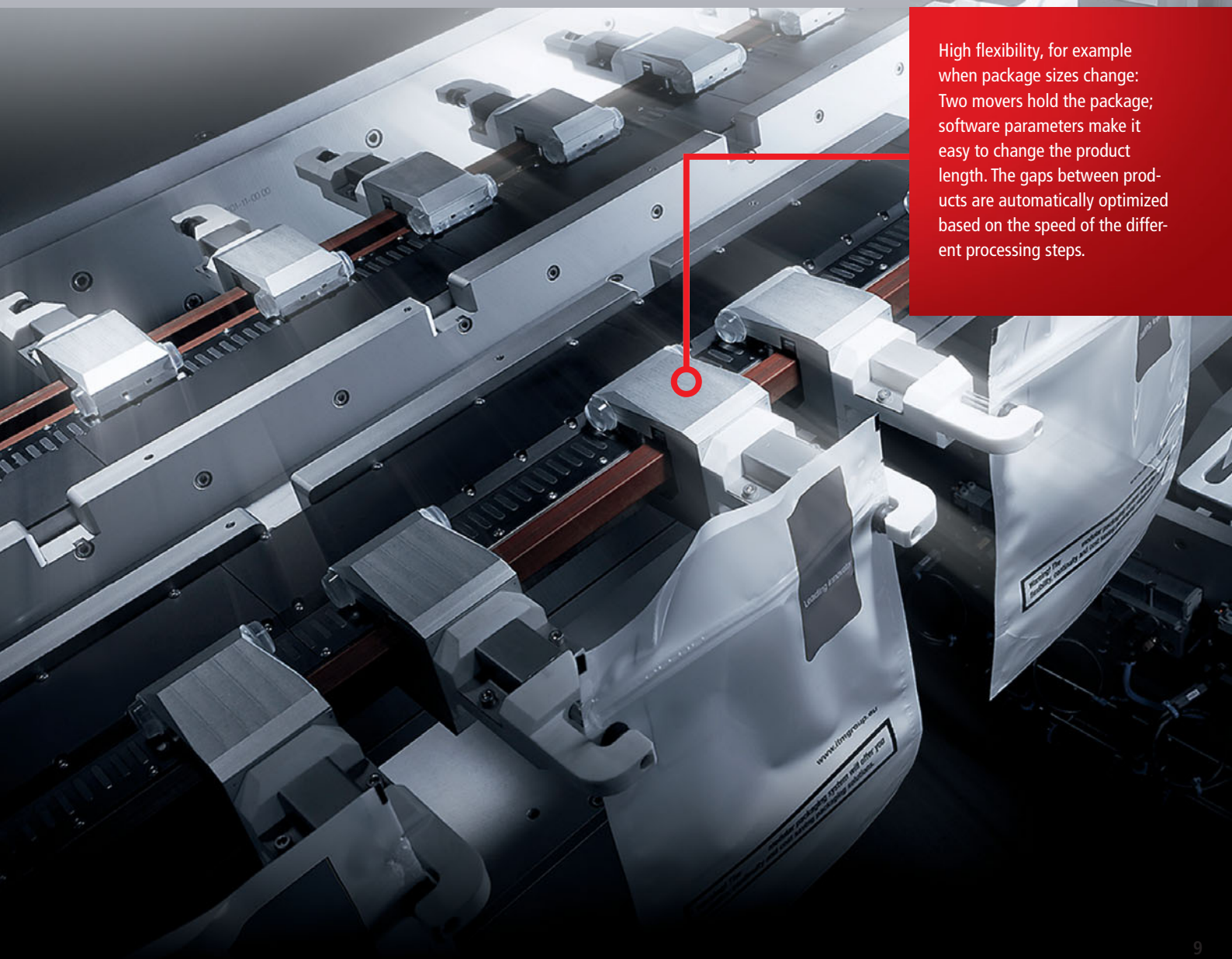
Faster format changeovers, shorter job runs, lot sizes of 1 for on-demand production and the ability to respond quickly to technical problems require a control solution that responds to new requirements with maximum flexibility and minimum effort. This is where the Beckhoff's PC Control philosophy truly shines. The PC-based control platform executes machine setup changeovers due to product or package changes essentially in software by adapting the process parameters. This speeds up the process considerably, resulting in faster product changes and more line efficiency for the operator. Easy format changeovers ensure more productivity even with many short runs.



The XTS lets you handle packages with varying fill levels or format sizes without having to change the machine's mechanics. To implement a special offer like "3 plus 1", you simply change the appropriate parameters with a mouse click so that four instead of three movers transport the items to the packaging station.

… are software-based with PC Control and the XTS

The compact eXtended Transport System (XTS) from Beckhoff delivers a unique advantage. It makes packaging machines more flexible by replacing complex and expensive mechanics with software. TwinCAT provides specially tested software function modules for typical XTS applications that only require you to set the parameters. For example, you can change the distance between the movers (i.e., the units being packaged) during runtime. If a filling station fails due to a defect, the system simply skips it, thus avoiding a line stop. The XTS also provides great flexibility in applications where different package sizes or temporary changes must be accommodated.

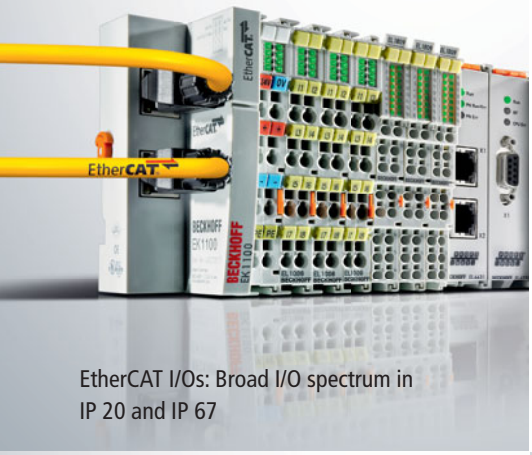


High flexibility, for example when package sizes change: Two movers hold the package; software parameters make it easy to change the product length. The gaps between products are automatically optimized based on the speed of the different processing steps.

Control Panel: Multitouch display and Control Panel

Industrial PC: Control cabinet and Panel PC

Embedded PC: IPC with integrated I/O level



EtherCAT I/Os: Broad I/O spectrum in IP 20 and IP 67

The Beckhoff system for more efficient packaging machines …

Beckhoff offers control solutions in all performance categories for all applications in the packaging industry – from rail-mounted Embedded PCs with integrated I/O units to high-end Industrial PCs with multi-core processors. A wide range of multitouch panels delivers state-of-the-art operating convenience. With the ability to handle over 400 signal types, the I/O components serve the full spectrum of sensors and actuators. And with TwinSAFE, an integrated safety solution is available for I/O and motion control applications. The drive technology portfolio ranges from compact servo terminals to powerful EtherCAT drives and highly dynamic servo motors with one-cable technology. TwinCAT integrates the engineering environment and the controller in a single software platform.

Highly dynamic servo Drive Technology

Servo terminals: Compact Drive Technology

XTS: Linear Transport System

TwinCAT: Software for engineering and runtime

TwinSAFE: Integrated safety solution

EtherCAT: Integrated real-time fieldbus for ultra-fast process communication

EtherCAT®

… also available in stainless steel for the food industry

For packaging applications in the food, beverage and pharmaceutical industries, Beckhoff offers a complete control solution in stainless steel with "hygienic design" that meets the strictest sanitation and cleanroom requirements. Control Panels and Panel PC series in high-quality stainless steel housings are suitable for IP 65 conditions. EtherCAT Box I/O modules are also available in stainless steel housings. They meet the requirements of the IP 69K protection class and are designed to be installed directly on the machine. The AM8800 stainless steel servo motors feature protection class IP 67 (IP 69K optional) for use in extremely harsh or corrosive environments.

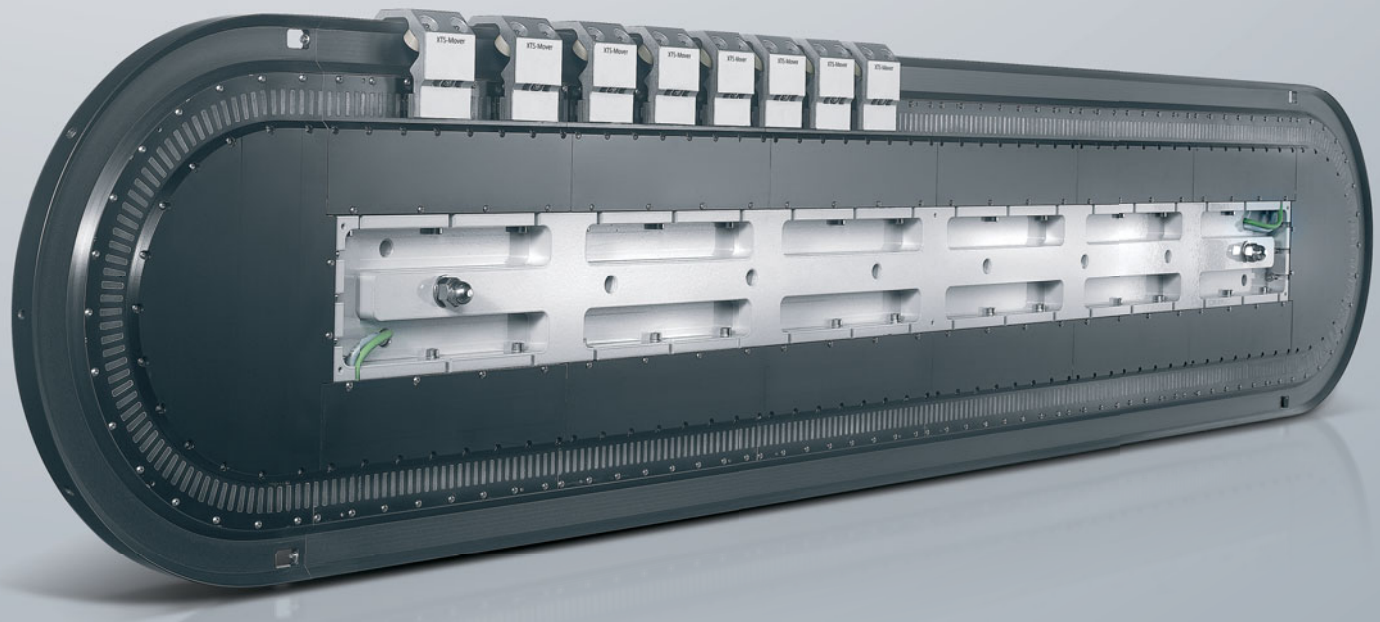
Stainless steel EtherCAT Box in IP 69K

Stainless steel servo motor in IP 67 or IP 69K

eXtended Transport System: Software replaces mechanical components …

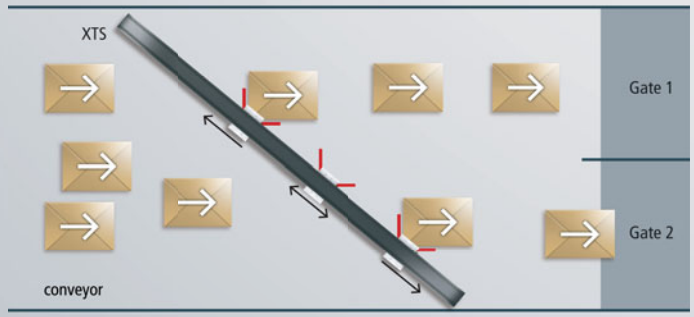
The linear XTS transport system from Beckhoff sets a new milestone in packaging technology. XTS combines the benefits of linear and rotary transport systems. The result: flexible routing that lets you use all the benefits of direct-drive such as high dynamics, positioning accuracy, low oscillation, lack of wear, and low power consumption. Since both straight sections and the curves are used for the material transport, there are no empty trips, making for a faster overall process. And the TwinCAT automation software makes the engineering process easy with its integrated standard features such as automatic accumu-lation, collision prevention and shock prevention.

▶ **www.beckhoff.com/XTS**

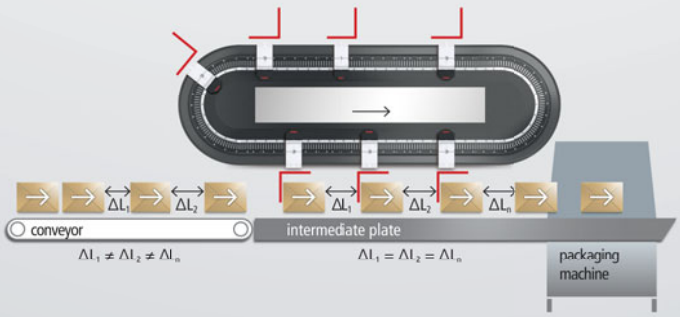


… and reduces the packaging machine's footprint

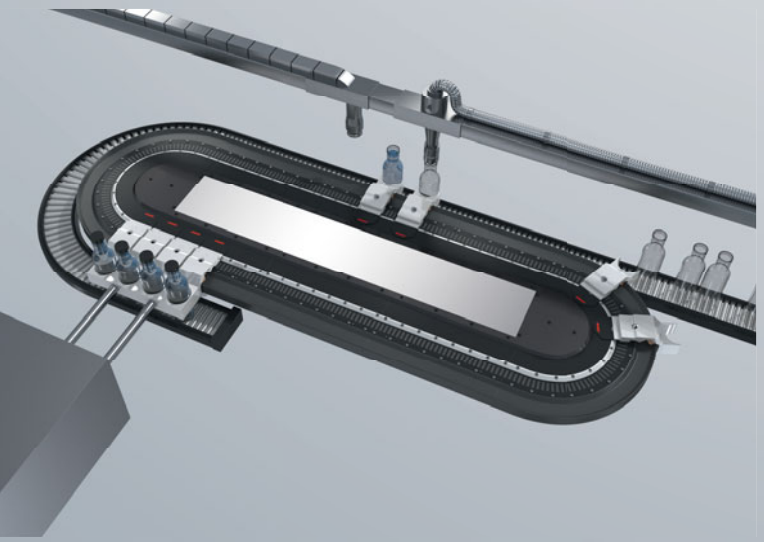
The XTS opens the door to completely new machine designs with smaller footprints. The travel profile no longer requires complex mechanical components, and up to 50 percent lower machine sizes deliver significant cost benefits. Most of all, however, the XTS improves the packaging process: Products can be moved independently, packaging steps can be perfectly synchronized avoid standstills, and function changes are quick and easy to implement because they are entirely software-based. Product changeovers and cleaning are easy. Maintenance activities are also very efficient, because the control software monitors all movers and recognizes any overloads instantly.



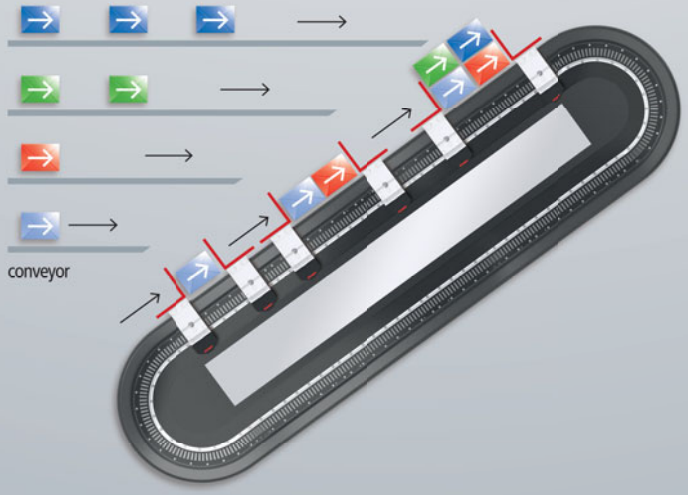
In a distribution system, the XTS splits an incoming product stream into multiple streams (two in this case) inexpensively and with great flexibility.



The XTS makes it easy to implement a feeder with distance adjustment that synchronizes products arriving at different intervals with the downstream process.



As a carousel-type solution, the XTS is ideal for bottling applications that must be able to process a continuous product steam in a discontinuous fashion.



Used as a grouping system, the XTS can easily combine products arriving on multiple conveyor belts into predefined and easily changed groups and move them to the next station.

TwinCAT: One software platform for engineering and runtime …

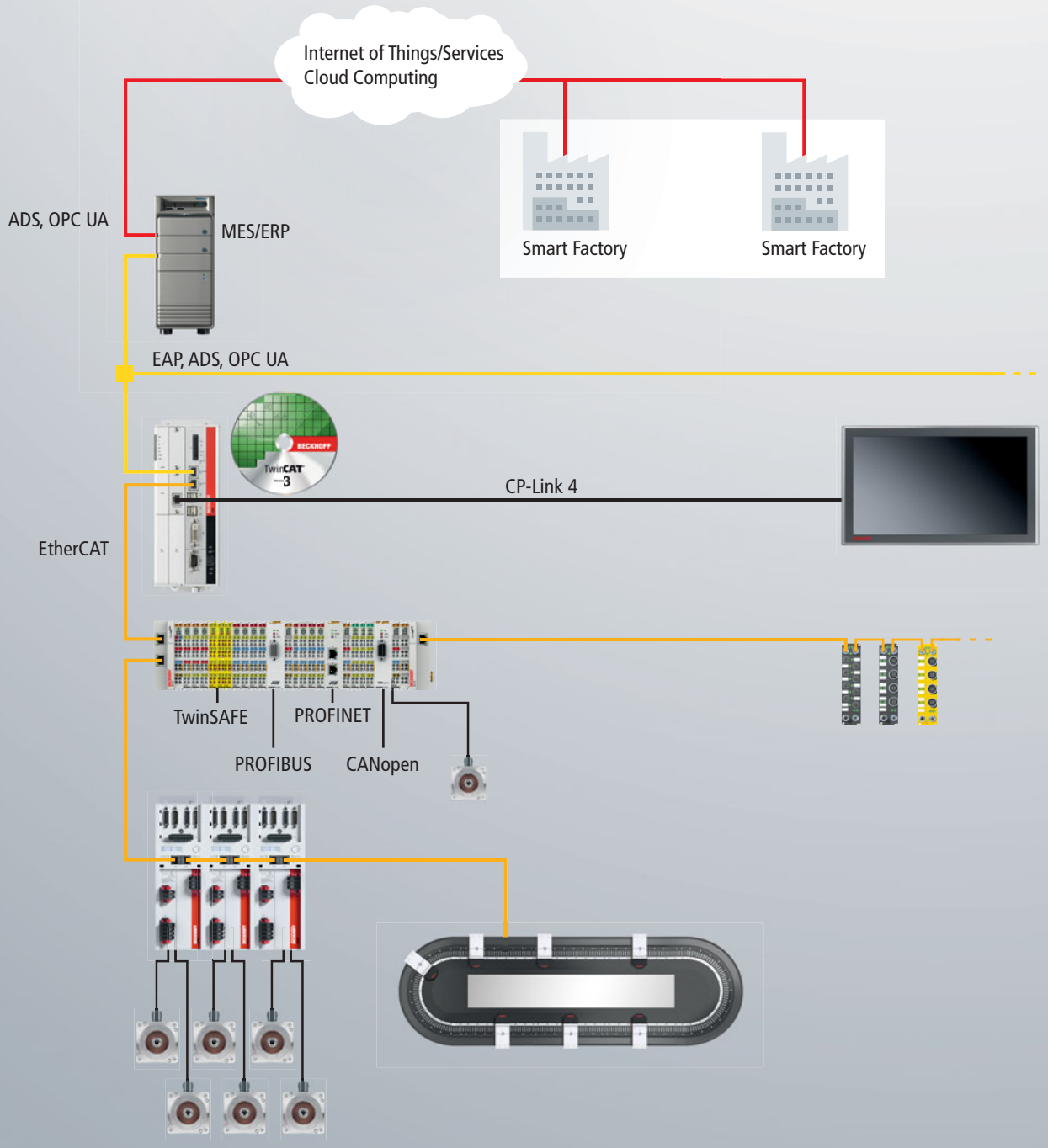
The TwinCAT automation software forms the core of the PC-based control platform for PLC and motion control. It consists of runtime systems for program execution and the engineering environments for programming, diagnostics and configuration. It features all major programming languages of IEC 61131-3, including its object-oriented enhancements for real-time applications. C/C++ and MATLAB®/Simulink® modules can be integrated into the IEC environment via interfaces or operated independently in the TwinCAT real-time context. Open interface provide easy integration into existing IT structures.

▶ **www.beckhoff.com/TwinCAT**

… for all machine types and entire lines

TwinCAT provides the packaging machine manufacturer with an integrated environment for any control task. By making full use of the processor cores, TwinCAT replaces additional hardware such as separate robotics controllers with software and integrates them into the central control environment. TwinCAT delivers the basic technology for "smart factories" already today. With the TwinCAT Automation Device Specification (ADS), the EtherCAT Automation Protocol (EAP) and OPC UA it has everything you need to implement the vertical and horizontal integration required for "Internet of Things" concepts.

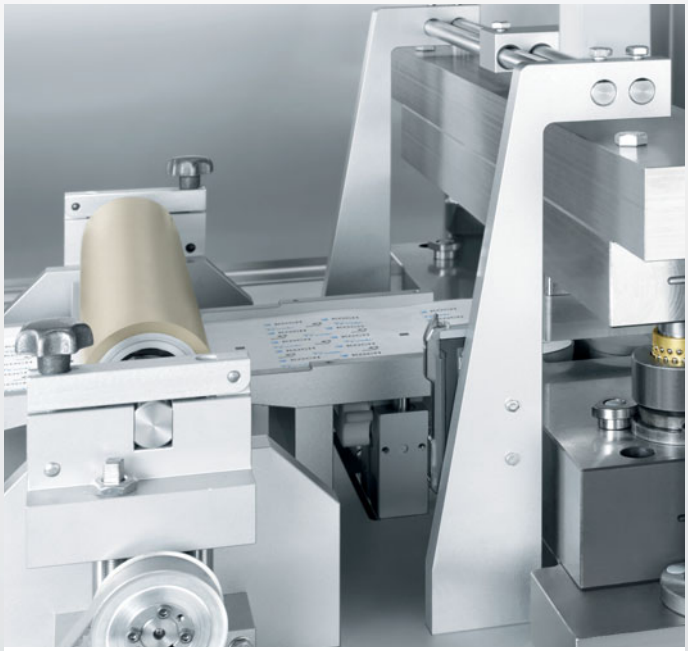
▶ www.beckhoff.com/industry40



On the factory floor: Packaging solutions from Beckhoff

PC-based control from Beckhoff is in use in packaging machines all over the world. The "Packaging Special 2014" issue of Beckhoff's PC Control magazine shows the diversity of applications on the basis of selected references.

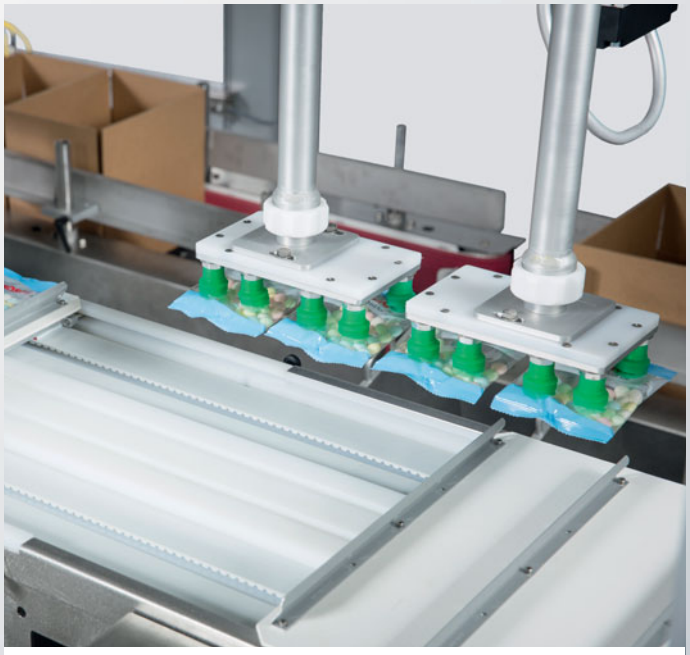
▶ **www.pc-control.net**



Koch Pac-Systeme

Modular control technology for compact packaging lines in cleanroom environments.

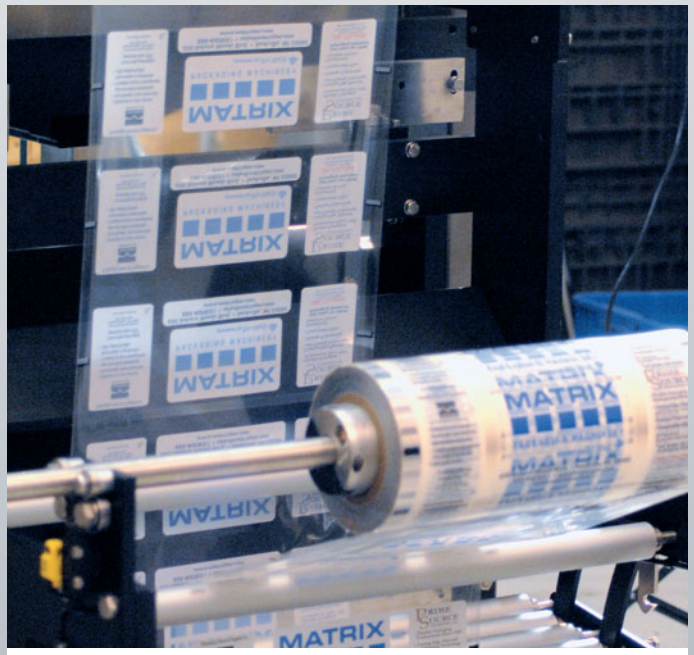
www.koch-pac-systeme.com



Bosch Packaging

PC- and EtherCAT-based technology increases the performance and flexibility of a modular case packing system for the food and candy industries.

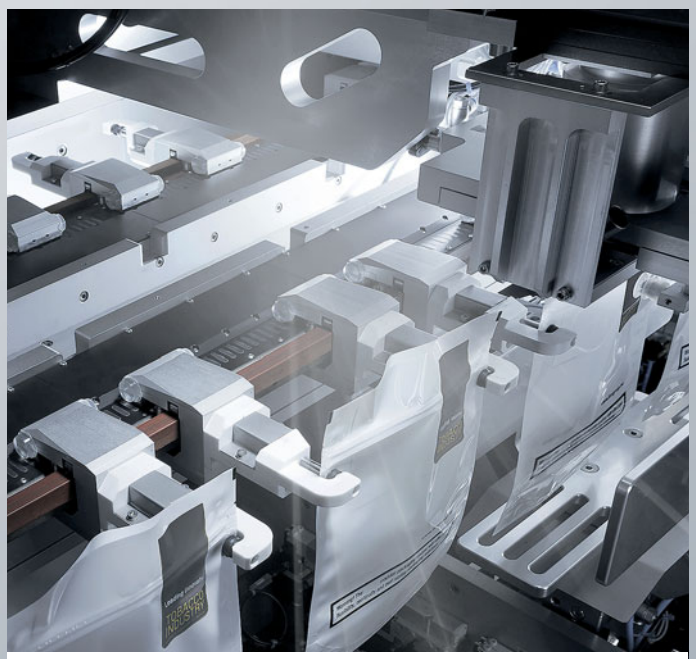
www.boschpackaging.com



Matrix Packaging

AM8000 Servo Drives with one-cable technology save on space and reduce costs in a vertical form/fill/seal machine.

www.matrixpm.com



Technical Development Corporation

One of the first applications based on the XTS Linear Transport System.

www.itmgroup.eu

Galdi

PC-based control meets all the requirements of a modular filling line for milk, dairy products and fruit juices in gable-top cartons.

www.galdi.it

Rohrer

PC-based control solution in a blister packaging machine for the pharmaceutical industry.

www.rohrerag.com

TVI Entwicklung & Produktion

Automation of flexible and precise meat processing centers.

www.tvi-gmbh.de

MULTIVAC Sepp Haggenmüller

TwinCAT robotic kinematics and Servo Drive technology for food packaging applications.

www.multivac.com

Beckhoff – present on all continents

Beckhoff is present in the international market with 33 Beckhoff subsidiaries and many distributors. The company is represented in all major industrial areas in over 60 countries to ensure fast service and support in the local language for its global customers. Beckhoff wants to be not just physically close to its customers, but understand the technical challenges they face down to the smallest detail. A creative corporate culture, enthusiasm for technology and expert knowledge characterize Beckhoff and its partners on all continents.

▶ **www.beckhoff.com**

Beckhoff at a glance

- Headquarters: Verl, Germany
- Turnover 2013: 435 million euros (+7 %)
- Staff worldwide: 2,510
- Subsidiaries/Branch Offices in Germany: 11
- Subsidiaries/Branch Offices worldwide: 33
- Distributors in over 60 countries

(April 2014)

More information

- For more information and industry solutions, visit:
  ▶ www.beckhoff.com/packaging
- To download Beckhoff catalogues and brochures, go to:
  ▶ www.beckhoff.com/media

Picture credits: Bosch Packaging Technology Inc. | Galdi S.r.l. | KÖRA-PACKMAT Maschinenbau GmbH | Matrix Packaging Machinery LLC | MULTIVAC Sepp Haggenmüller GmbH & Co. KG | Technical Development Corporation | TVI Entwicklung & Produktion GmbH, Deutschland

Headquarters

Beckhoff Automation GmbH
Eiserstraße 5
33415 Verl
Germany
Phone: +49 (0) 52 46 / 963 - 0
info@beckhoff.com
www.beckhoff.com

Europe

Germany

Office Balingen
Beckhoff Automation GmbH
Karlstraße 19
72336 Balingen
Phone: +49 (0) 74 33 / 2 60 24 - 0
balingen@beckhoff.de

Office Berlin
Beckhoff Automation GmbH
Fasanenstraße 81
10623 Berlin
Phone: +49 (0) 30 / 88 71 16 - 0
berlin@beckhoff.de

Sales Office Crailsheim
Beckhoff Automation GmbH
Hallerstraße 185
74564 Crailsheim
Phone: +49 (0) 79 51 / 29 76 7 - 0
crailsheim@beckhoff.de

Office Frankfurt
Beckhoff Automation GmbH
Torhaus Westhafen
Speicherstraße 59
60327 Frankfurt am Main
Phone: +49 (0) 69 / 68 09 88 - 0
frankfurt@beckhoff.de

Office Hanover
Beckhoff Automation GmbH
Podbielskistraße 342
30655 Hanover
Phone: +49 (0) 5 11 / 87 57 58 - 0
hannover@beckhoff.de

Office Lübeck
Beckhoff Automation GmbH
Wahmstraße 56
23552 Lübeck
Phone: +49 (0) 4 51 / 20 39 88 - 0
luebeck@beckhoff.de

Office Munich
Beckhoff Automation GmbH
Oppelner Straße 5
82194 Gröbenzell/Munich
Phone: +49 (0) 81 42 / 41 05 9 - 0
muenchen@beckhoff.de

Office Nuremberg
Beckhoff Automation GmbH
Ostendstraße 196
90482 Nuremberg
Phone: +49 (0) 9 11 / 5 40 56 - 0
nuernberg@beckhoff.de

Sales Office Pforzheim
Beckhoff Automation GmbH
Strietweg 72
75181 Pforzheim
Phone: +49 (0) 72 31 / 4 17 65 - 0

Sales Office Ravensburg
Beckhoff Automation GmbH
Parkstraße 48
88212 Ravensburg
Phone: +49 (0) 7 51 / 3 54 15 50
ravensburg@beckhoff.de

Office Rhein/Ruhr
Beckhoff Automation GmbH
Eurotec-Ring 7
47445 Moers
Phone: +49 (0) 28 41 / 90 81 6 - 6
rhein-ruhr@beckhoff.de

Austria

Headquarters
Beckhoff Automation GmbH
Hauptstraße 4
6706 Bürs
Phone: +43 (0) 55 52 / 68 81 3 - 0
info@beckhoff.at
www.beckhoff.at

Sales Office Oberösterreich
Beckhoff Automation GmbH
4232 Hagenberg
Phone: +43 (0) 72 36 / 2 09 25 - 0
oberoesterreich@beckhoff.at

Sales Office Niederösterreich
Beckhoff Automation GmbH
2542 Kottingbrunn
Phone: +43 (0) 22 52 / 251 723
niederoesterreich@beckhoff.at

Sales Office Salzburg
Beckhoff Automation GmbH
5400 Hallein
Phone: +43 (0) 62 45 / 7 00 96 11
salzburg@beckhoff.at

Sales Office Tirol
Beckhoff Automation GmbH
6020 Innsbruck
Phone: +43 (0) 512 / 236 043
tirol@beckhoff.at

Belgium, Luxembourg

Headquarters
Beckhoff Automation bvba
Kempische Steenweg 305 bus 202
3500 Hasselt
Belgium
Phone: +32 (0) 11 / 24 08 00
info@beckhoff.be
www.beckhoff.be

Sales Office West
Beckhoff Automation bvba
8500 Kortrijk
Phone: +32 (0) 56 / 20 20 37
info@beckhoff.be

Bulgaria
Kastiva GmbH
68-72 Ami Bue Str., 4. Floor
1612 Sofia
Phone: +359 (2) 9 50 44 31
office@kastiva.com
www.kastiva.com

Croatia
Krovel d.o.o.
Barutanski jarak 114
10000 Zagreb
Phone: +385 / 1 230 5788
beckhoff@krovel.hr
www.krovel.hr

Czech Republic, Slovac Republic
Beckhoff Česká republika s.r.o.
Sochorova 23
61600 Brno
Czech Republik
Phone: +420 511 189 250
info.cz@beckhoff.com
www.beckhoff.com/cz

Denmark, Iceland

Headquarters
Beckhoff Automation ApS
Naverland 2
2600 Glostrup
Denmark
Phone: +45 43 / 20 15 70
info@beckhoff.dk
www.beckhoff.dk

Office Hobro
Beckhoff Automation ApS
9500 Hobro
Phone: +45 43 / 20 15 70
info@beckhoff.dk

Office Kolding
Beckhoff Automation ApS
6000 Kolding
Phone: +45 43 / 20 15 70
info@beckhoff.dk

Finland, Estonia

Headquarters
Beckhoff Automation Oy
P.O. Box 23
Kankurinkatu 4-6
05801 Hyvinkää
Finland
Phone: +358 (0) 20 / 7 42 38 00
info@beckhoff.fi
www.beckhoff.fi

Sales Office Seinäjoki
Beckhoff Automation Oy
60320 Seinäjoki
Phone: +358 (0) 20 / 7 42 38 50
info@beckhoff.fi

Sales Office Tampere
Beckhoff Automation Oy
33720 Tampere
Phone: +358 (0) 20 / 7 42 38 70
info@beckhoff.fi

France

Headquarters
Beckhoff Automation Sarl
Immeuble "Le Montréal"
ZA de Courtaboeuf
19 bis, avenue du Québec
91140 Villebon-sur-Yvette Cedex
Phone: +33 (0) 1 69 29 83 70
info@beckhoff.fr
www.beckhoff.fr

Sales Office South-East
Beckhoff Automation Sarl
74370 Metz-Tessy
Phone: +33 (0) 4 50 23 22 75
info@beckhoff.fr

Greece, Cyprus
L. J. Skourgialos
Industrial Automation Systems
241 EL. Venizelou
176 73 Kallithea/Athens
Greece
Phone: +30 / 21 09 51 02 60
ias@otenet.gr

Hungary
Beckhoff Automation Kft.
Gubacsi út 6.
H-1097 Budapest
Phone: +36 1 501 9940
info@beckhoff.hu
www.beckhoff.hu

Italy

Headquarters
Beckhoff Automation S.r.l.
Via L. Manara, 2
20812 Limbiate (MB)
Phone: +39 02 / 99 45 31 11
info@beckhoff.it
www.beckhoff.it

Office Bologna
Beckhoff Automation S.r.l.
40011 Anzola dell'Emilia (BO)
Phone: +39 051 / 731 509
bologna@beckhoff.it

Office Padua
Beckhoff Automation S.r.l.
35127 Padua (PD)
Phone: +39 049 / 870 48 38
padova@beckhoff.it

Lithuania, Latvia, Belarus
UAB "Santavilte"
Europos pr. 121
LT-46339 Kaunas
Lithuania
Phone: +370 37 21 13 60
info@santavilte.lt
www.santavilte.lt

Malta
JMartans Automation
Ivy, Flat 1,
Salvu Barbara Street,
Mosta, MST 2433
Phone: +356 21 42 06 55
info@jmartans.com
www.jmartans.com

Netherlands
Industrial Automation Link
Küppersweg 71
2031 EB Haarlem
Phone: +31 23 / 5 18 51 40
sales@ial.nl
www.ial.nl

Norway
Beckhoff Automation AS
Stensarmen 16
3112 Tønsberg
Phone: +47 33 50 46 90
info@beckhoff.no
www.beckhoff.no

Poland
Beckhoff Automation Sp. z o.o.
Żabieniec, ul. Ruczajowa 15
05-500 Piaseczno
Phone: +48 22 / 7 50 47 00
info@beckhoff.pl
www.beckhoff.pl

Portugal
Bresimar Automação, S.A.
Quinta do Simão –
EN109 – Esgueira
Apartado 3080
3801-101 Aveiro
Phone: +351 234 / 30 33 20
bresimar@bresimar.pt
www.bresimar.pt

Romania
Kreatron Automation S.R.L.
Str. Octavian Fodor nr. 113, ap. 13
400434, Cluj-Napoca
jud. Cluj
Phone: +40 364 40 16 12
office@kreatron.ro
www.kreatron.ro

Russia

Headquarters
Beckhoff Automation OOO
Staraya Basmannaya 14/2 str. 2
105064 Moscow
Phone: +7 495 / 7 77 83 66
russia@beckhoff.com
www.beckhoff.ru

Office Ekaterinburg
Beckhoff Automation OOO
620049 Ekaterinburg
Phone: +7 343 / 3 79 98 73
ekaterinburg@beckhoff.com

Office Krasnodar
Beckhoff Automation OOO
350051 Krasnodar
Phone: +7 861 / 279 67 23
krasnodar@beckhoff.com

Office Nizhny Novgorod
Beckhoff Automation OOO
603057 Nizhny Novgorod
Phone: +7 831 / 422 86 87
n.novgorod@beckhoff.com

Office Novosibirsk
Beckhoff Automation OOO
630054 Novosibirsk
Phone: +7 383 / 355 99 51
novosibirsk@beckhoff.com

Office Samara
Beckhoff Automation OOO
443010 Samara
Phone: +7 846 / 2 69 80 67
samara@beckhoff.com

Office St. Petersburg
Beckhoff Automation OOO
199178 St. Petersburg
Phone: +7 812 / 332 62 05
st.petersburg@beckhoff.com

Office Vladimir
Beckhoff Automation OOO
600000 Vladimir
Phone: +7 4922 / 46 41 80
vladimir@beckhoff.com

Slovenia, Serbia, Bosnia and Herzegovina, Macedonia, Kosovo, Montenegro
Beckhoff Automatizacija d.o.o.
Zbiljska cesta 4
1215 Medvode
Slovenia
Phone: +386 / 13 61 30 80
info@beckhoff.si
www.beckhoff.si

Spain

Headquarters
Beckhoff Automation S.A.
Edificio Testa Sant Cugat
Avda. Alcalde Barnils, 64-68
08174 Sant Cugat (Barcelona)
Phone: +34 93 / 5 84 49 97
info@beckhoff.es
www.beckhoff.es

Sales Office Bilbao
Beckhoff Automation S.A.
48950 Erandio (Bilbao)
Phone: +34 94 / 4 31 40 75
info@beckhoff.es

Sales Office Madrid
Beckhoff Automation S.A.
28290 Las Matas (Madrid)
Phone: +34 91 / 6 36 43 57
madrid@beckhoff.es

Sweden

Headquarters
Beckhoff Automation AB
Stenåldersgatan 2A
21376 Malmö
Phone: +46 (0) 40 / 6 80 81 60
info@beckhoff.se
www.beckhoff.se

Sales Office Gothenburg
Beckhoff Automation AB
43363 Sävedalen
Phone: +46 (0) 40 / 6 80 81 60
info@beckhoff.se

Sales Office Stockholm
Beckhoff Automation AB
16250 Vällingby
Phone: +46 (0) 40 / 6 80 81 60
info@beckhoff.se

Sales Office Värnamo
Beckhoff Automation AB
33153 Värnamo
Phone: +46 (0) 40 / 6 80 81 60
info@beckhoff.se

Switzerland

Headquarters
Beckhoff Automation AG
Rheinweg 9
8200 Schaffhausen
Phone: +41 (0) 52 / 6 33 40 40
info@beckhoff.ch
www.beckhoff.ch

Office Zurich
Beckhoff Automation AG
8052 Zurich
Phone: +41 (0) 52 / 633 40 40
info@beckhoff.ch

Office Lyssach
Beckhoff Automation AG
Application/Software Development
3421 Lyssach
Phone: +41 (0) 34 / 447 44 80
info@beckhoff.ch

Sales + Support Center Suisse Romande
Beckhoff Automation AG
1442 Montagny-près-Yverdon
Phone: +41 (0) 24 / 447 27 - 00
yverdon@beckhoff.ch

Support Center Ticino
p.project sagl
Via Pianella 19
6596 Gordola
Phone: +41 (0) 91 / 745 01 11
ticino@beckhoff.ch

Turkey

Headquarters
Beckhoff Otomasyon ltd. şti.
Gardenya-3 Plaza No: 18-19-20
34758 Ataşehir Istanbul
Phone: +90 216 580 9830
info@beckhoff.com.tr
www.beckhoff.com.tr

Sales Office Bursa
Beckhoff Otomasyon ltd. şti.
16110 Nilüfer Bursa
Phone: +90 224 501 00 17
info@beckhoff.com.tr

Office İzmir
Beckhoff Otomasyon ltd. şti.
35530 Konak İzmir
Phone: +90 232 486 0350
info@beckhoff.com.tr

UK, Ireland
Beckhoff Automation Ltd.
The Boathouse
Station Road
Henley on Thames
Oxon RG9 1AZ
Great Britain
Phone: +44 1491 / 41 05 39
info@beckhoff.co.uk
www.beckhoff.co.uk

North America

USA

Headquarters and Training Center
Beckhoff Automation LLC
13130 Dakota Avenue
Savage, MN 55378
Phone: +1 952 / 890 0000
beckhoff.usa@beckhoff.com
www.beckhoffautomation.com

East Region Headquarters and Training Center
Beckhoff Automation LLC
Charlotte, NC
Phone: +1 704 / 910 4367
east.usa@beckhoff.com

East Region Sales
Beckhoff Automation LLC
Hyannis, MA
Phone: +1 952 / 212 6226
newengland@beckhoff.com

Beckhoff Automation LLC
Hanover, PA
Phone: +1 717 / 634 5536
northeast.sales@beckhoff.com

Beckhoff Automation LLC
Rochester Hills, MI
Phone: +1 248 / 828 5310
michigan@beckhoff.com

Beckhoff Automation LLC
Indianapolis, IN
Phone: +1 317 / 703 9115
midcentral.sales@beckhoff.com

Beckhoff Automation LLC
Lake Wylie, SC
Phone: +1 803 / 746 5491
east.usa@beckhoff.com

Beckhoff Automation LLC
Apex, NC
Phone: +1 952 / 428 7350
southeast.usa@beckhoff.com

Beckhoff Automation LLC
Atlanta, GA
Phone: +1 770 / 403 8868
georgia@beckhoff.com

Central Region Sales and Training Center
Beckhoff Automation LLC
Fond du Lac, WI
Phone: +1 920 / 251 2777
wisconsin@beckhoff.com

Central Region Sales and Technical Center
Beckhoff Automation LLC
Woodridge, IL
Phone: +1 317 / 703 9115
midwest.usa@beckhoff.com

Central Region Sales
Beckhoff Automation LLC
Savage, MN 55378
Phone: +1 952 / 890 0000
north.usa@beckhoff.com

Beckhoff Automation LLC
Rogers, AR
Phone: +1 479 / 925 2951
south.usa@beckhoff.com

Beckhoff Automation LLC
Cedar Park, TX
Phone: +1 512 / 250 9809
southwest.sales@beckhoff.com

Beckhoff Automation LLC
Justin, TX
Phone: +1 817 / 428 5314
southwest.sales@beckhoff.com

West Region Sales
Beckhoff Automation LLC
San Diego, CA
Phone: +1 858 / 546 1111
west.sales@beckhoff.com

Beckhoff Automation LLC
La Cañada, CA
Phone: +1 818 / 224 9065
losangeles@beckhoff.com

Beckhoff Automation LLC
San Francisco Bay Area, CA
Phone: +1 408 / 425 1025
norcal@beckhoff.com

Beckhoff Automation LLC
Phoenix, AZ
Phone: +1 602 / 354 0506
arizona@beckhoff.com

Beckhoff Automation LLC
Arvada, CO
Phone: +1 303 / 429 0758
mountain.sales@beckhoff.com

Beckhoff Automation LLC
Mill Creek, WA
Phone: +1 425 / 451 4444
northwest.sales@beckhoff.com

West Region Technical Center
Beckhoff Automation LLC
San Diego, CA
Phone: +1 858 / 546 1111
west.application@beckhoff.com

Canada

Headquarters Sales, Training Center and Application Development
Beckhoff Automation Canada Ltd.
2900 Argentia Road, Suite 7
Mississauga, ON L5N 7X9
Phone: +1 289 / 627 1900
canada@beckhoff.com

Canada Sales
Beckhoff Automation Canada Ltd.
Toronto, ON
Phone: +1 905 / 466 4371
canada@beckhoff.com

Beckhoff Automation Canada Ltd.
London, ON
Phone: +1 519 / 451 8572
canada@beckhoff.com

Beckhoff Automation Canada Ltd.
Laval, QC
Phone: +1 514 / 922 3282
canada@beckhoff.com

Mexico

Mexico Sales, Training and Application Development
Integra Automation, SA de CV
Av. Industrias 1482
78399 Fracc. Esmeralda
San Luis Potosí, S.L.P.
Phone: +52 444 / 822 2615 al 17
mexico@beckhoff.com
www.integra-automation.com

South America

Argentina
eFALCOM
Alcorta 2411
CPA B1744HFM
Moreno / Buenos Aires
Phone: +54 237 / 463 1151
info@efalcom.com
www.efalcom.com

Brazil

Headquarters
Beckhoff Automação Industrial Ltda.
Rua Caminho do Pilar, 1362
Vila Gilda, Santo André – SP
CEP: 09190-000
Phone: +55 (11) 41 26-3232
info@beckhoff.com.br
www.beckhoff.com.br

Office Campinas
Beckhoff Automação Industrial Ltda.
Campinas 13070-056 – SP
Phone: +55 (19) 3368-7288
info@beckhoff.com.br

Office Joinville
Beckhoff Automação Industrial Ltda.
Joinville 89221-006 – SC
Phone: +55 47 3439 - 0908
info@beckhoff.com.br

Office Novo Hamburgo
Beckhoff Automaçao Industrial Ltda.
Novo Hamburgo – RS
info@beckhoff.com.br

Chile
ELECDRIVE Proyectos
Industriales S.A.
Los Militares 4265,
Las Condes. Santiago
Phone: (+56-2) 2622 0167 - 2622 6472
Mobile: (+56-9) 9050 9581
elecdrive@elecdrive.cl
www.elecdrive.cl

Colombia
SENTRONIC S.A.S.
Calle 112 70-B-18
Bogotá
Phone: +57 1 533 4323
sensores@sentronic.com.co
www.sentronic.com.co

Peru
Techpro SAC
Jr. Contralmirante Montero
(Alberto del Campo) N°414
Dpto. 401 Magdalena del Mar
Lima
Phone: +01 551 9 89 43 58 54
techpro.peru@techprocorp.net
www.techprocorp.net

Uruguay
Comando Ltda.
Dr. J. de Salterain 1142
Montevideo 11200
Phone: +598 (2) / 400-7923
comando@comandonet.com
www.comandonet.com

Africa

South Africa

Headquarters
Beckhoff Automation (Pty) Ltd
6 Ateljee Street
Randpark Ridge
Randburg
Gauteng
2194
Phone: +27 (0) 11 795 2898
info@beckhoff.co.za
www.beckhoff.co.za

Office Cape Town
Beckhoff Automation (Pty) Ltd
Cape Town
Phone: +27 (0) 861 2325 4633
info@beckhoff.co.za

Office Durban
Beckhoff Automation (Pty) Ltd
Durban
Phone: +27 (0) 861 2325 4633
info@beckhoff.co.za

Asia

China

Headquarters
Beckhoff Automation (Shanghai) Co., Ltd.
5th Floor,
No. 163 JiangChang San Road
Shanghai Shibei Industrial Zone
Shanghai, 200436
Phone: +86 21 / 66 31 26 66
info@beckhoff.com.cn
www.beckhoff.com.cn

Office Beijing
Beckhoff Automation (Shanghai) Co., Ltd.
Beijing, 100044
Phone: +86 10 / 58 30 12 36
beijing@beckhoff.com.cn

Office Guangzhou
Beckhoff Automation (Shanghai) Co., Ltd.
Guangzhou, 510620
Phone: +86 20 / 38 01 03 00
guangzhou@beckhoff.com.cn

Office Chengdu
Beckhoff Automation (Shanghai) Co., Ltd.
Chengdu, Sichuan, 610016
Phone: +86 28 / 86 20 25 81
chengdu@beckhoff.com.cn

Office Wuhan
Beckhoff Automation (Shanghai) Co., Ltd.
Wuhan, Hubei Province
Phone: +86 27 / 87 71 19 92
wuhan@beckhoff.com.cn

Office Shenyang
Beckhoff Automation (Shanghai) Co. Ltd.
Shenyang City, 11013, Liaoning
Phone: +86 24 / 22 78 88 96
shenyang@beckhoff.com.cn

Office Qingdao
Beckhoff Automation (Shanghai) Co. Ltd.
Qingdao, Shandong Province
Phone: +86 532 / 55 66 38 57
qingdao@beckhoff.com.cn

Office Hefei
Beckhoff Automation (Shanghai) Co. Ltd.
Hefei, Anhui Province
Phone: +86 551 / 55 43 513
hefei@beckhoff.com.cn

Office Hangzhou
Beckhoff Automation (Shanghai) Co. Ltd.
Hangzhou, Zhejiang Province
Phone: +86 571 / 87 65 27 86
hangzhou@beckhoff.com.cn

Office Ningbo
Beckhoff Automation (Shanghai) Co. Ltd.
Ningbo, Zhejiang Province
Phone: +86 574 / 87 20 33 35
ningbo@beckhoff.com.cn

Office Shenzhen
Beckhoff Automation (Shanghai) Co. Ltd.
Shenzhen Province
Phone: +86 755 / 23 60 32 32
shenzhen@beckhoff.com.cn

Office Nanjing
Beckhoff Automation (Shanghai) Co. Ltd.
Nanjing, Jiangsu Province
Phone: +86 25 / 85 86 22 71

Office Wuxi
Beckhoff Automation (Shanghai) Co. Ltd.
Wuxi, Jiangsu Province
Phone: +86 510 / 85 81 93 06
wuxi@beckhoff.com.cn

Office Xi'an
Beckhoff Automation (Shanghai) Co. Ltd.
Xi'an, Shanxi Province
Phone: +86 29 / 88 49 99 08
xian@beckhoff.com.cn

Suzhou Technical Center
Beckhoff Automation (Shanghai) Co. Ltd.
Suzhou, Jiangsu Province
Phone: +86 512 / 62 85 22 07
suzhou@beckhoff.com.cn

India

Headquarters
Beckhoff Automation Pvt. Ltd.
Suite 4, Level 6, Muttha Towers
Don Bosco Marg
Pune – 411 006
Phone: +91 20 40 00 48 00
info@beckhoff.co.in
www.beckhoff.co.in

Sales Office Ahmedabad
Beckhoff Automation Pvt. Ltd.
Ahmedabad – 380015
Phone: +91 79 40 08 48 00
info@beckhoff.co.in

Sales Office Bangalore
Beckhoff Automation Pvt. Ltd.
Bangalore – 560004
bangalore@beckhoff.co.in

Sales Office Chennai
Beckhoff Automation Pvt. Ltd.
chennai@beckhoff.co.in

Sales Office Delhi
Beckhoff Automation Pvt. Ltd.
Film City Noida – 201301
delhi@beckhoff.co.in

Sales Office Mumbai
Beckhoff Automation Pvt. Ltd.
Thane – 400 601
Phone: +91 22 67 00 48 45
mumbai@beckhoff.co.in

Israel
Beckhoff Automation Ltd.
Beit Golan
Golan St. (corner of Tavor St.)
Airport City
Lod 70151
Phone: 972 3 7 76 44 45
info@beckhoff.co.il
www.beckhoff.co.il

Japan
Beckhoff Automation K.K.
Nisseki Yokohama Building
18th Floor
1-1-8 Sakuragicho, Naka-ku
Yokohama-shi Kanagawa-ken
231-0062
Phone: +81 45 650 1612
info@beckhoff.co.jp
www.beckhoff.co.jp

Lebanon, Jordan, Syria
Industrial Technologies (itec) S.A.L.
Afrah Plaza Center,
Blvd Fouad Chehab
Sin El Fil, Beirut
Lebanon
Phone: +961 (1) 49 11 61
info@iteclb.com
www.iteclb.com

Malaysia

Headquarters
Beckhoff Automation Sdn Bhd
(889044-H)
Unit 2.1, 2nd Floor, Surian Tower
No.1 Jalan PJU 7/3
Mutiara Damansara
47810 Petaling Jaya
Phone: +60 (3) 7731 8388
info@beckhoff.com.my
www.beckhoff.com.my

Office Penang
Beckhoff Automation Sdn Bhd
(889044-H)
Bayan Baru, 11950, Penang
Phone: +60 (4) 6460 388
info@beckhoff.com.my

Singapore, Philippines, Vietnam, Indonesia
Beckhoff Automation Pte. Ltd.
3 International Business Park
#05-07/08 Nordic European Centre
Singapore 609927
Phone: +65 6697 6220
info@beckhoff.com.sg
www.beckhoff.com.sg

Thailand
TDS Technology (Thailand) Co., Ltd.
50/962 Moo 2
Bengyeetos Thanyaburi
Pratumthanee
12130 Bangkok
Phone: +66 (0) 2569 5511
sales_th@tdstech.com
www.tdstech.com

T&R Electronic (Thailand) Co., Ltd.
120/62 Moo 8 Bang Sare
Sattahip
Chonburi 20250
Phone: +66 (0) 3873 7487
trthailand@trelectronic.co.th
www.trelectronic.co.th

South Korea
Tri-TEK Corp.
12F DaeRyung Technotown III
115 Gasan Digital2Ro
Gumcheon-gu
Seoul 153-772
Phone: +82 2 / 2107-32 42
tritek@tritek.co.kr
www.tritek.co.kr

Taiwan
JI-DIEN Co., Ltd.
9F., No. 22, Sec. 1,
Zhongshan Rd.
Xingzhuang City
Taipei County 242
Phone: +886 2 / 8522 3237
jidien-taipei@jidien.com
www.jidien.com

United Arab Emirates, Oman, Qatar, Bahrain, Kuwait, Saudi Arabia, Egypt
Beckhoff Automation FZE
C# 608, Dubai Silicon Oasis
P.O. Box No. 341007
Dubai
United Arab Emirates
Phone: +971 4 5015480
info@beckhoff.ae
www.beckhoff.ae

Australia

Australia

Headquarters
Beckhoff Automation Pty. Ltd.
23 Edward Street
Oakleigh, Victoria, 3166
Phone: +61 (3) 99 12 54 30
info@beckhoff.com.au
www.beckhoff.com.au

Sales Office Sydney
Beckhoff Automation Pty. Ltd.
North Ryde, NSW, 2113
Phone: +61 (2) 80 69-23 33
info@beckhoff.com.au

New Zealand
Beckhoff Automation Limited
Unit C2, 59 Apollo Drive
Albany, Auckland 0632
Phone: +64 (9) 281 2736
info@beckhoff.co.nz
www.beckhoff.co.nz