

New Automation Technology

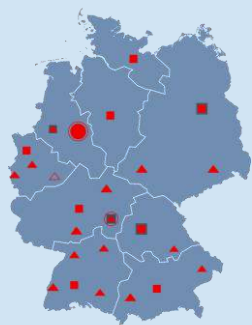
Beckhoff Automation

BECKHOFF



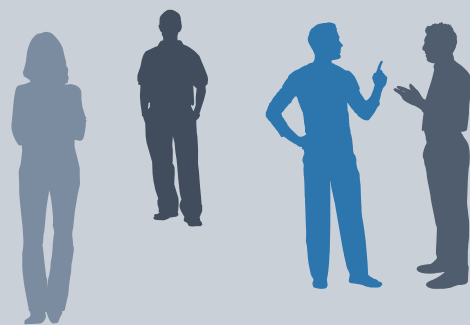
- 1. Beckhoff Automation**
2. PC-based control
3. Products and system solutions
4. Applications

Verl, Germany



Headquarters

6,000



Employees worldwide

2,200



Engineers

24



Sales/business
locations in Germany

40



Subsidiaries/
representative offices

> 75

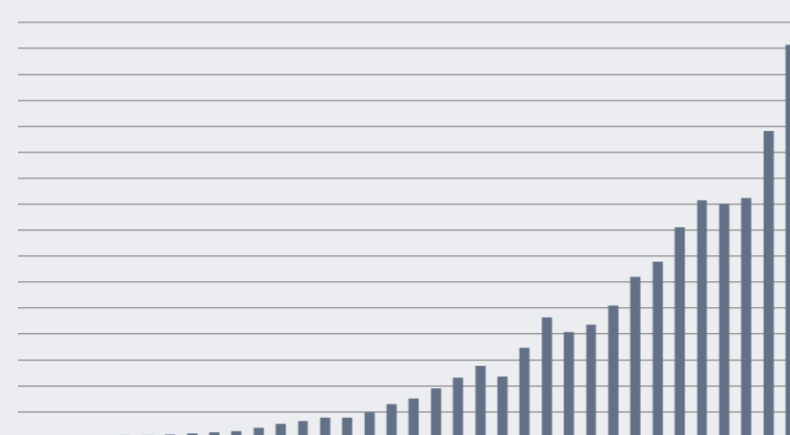


Representatives
worldwide

€1.515
billion

+28%

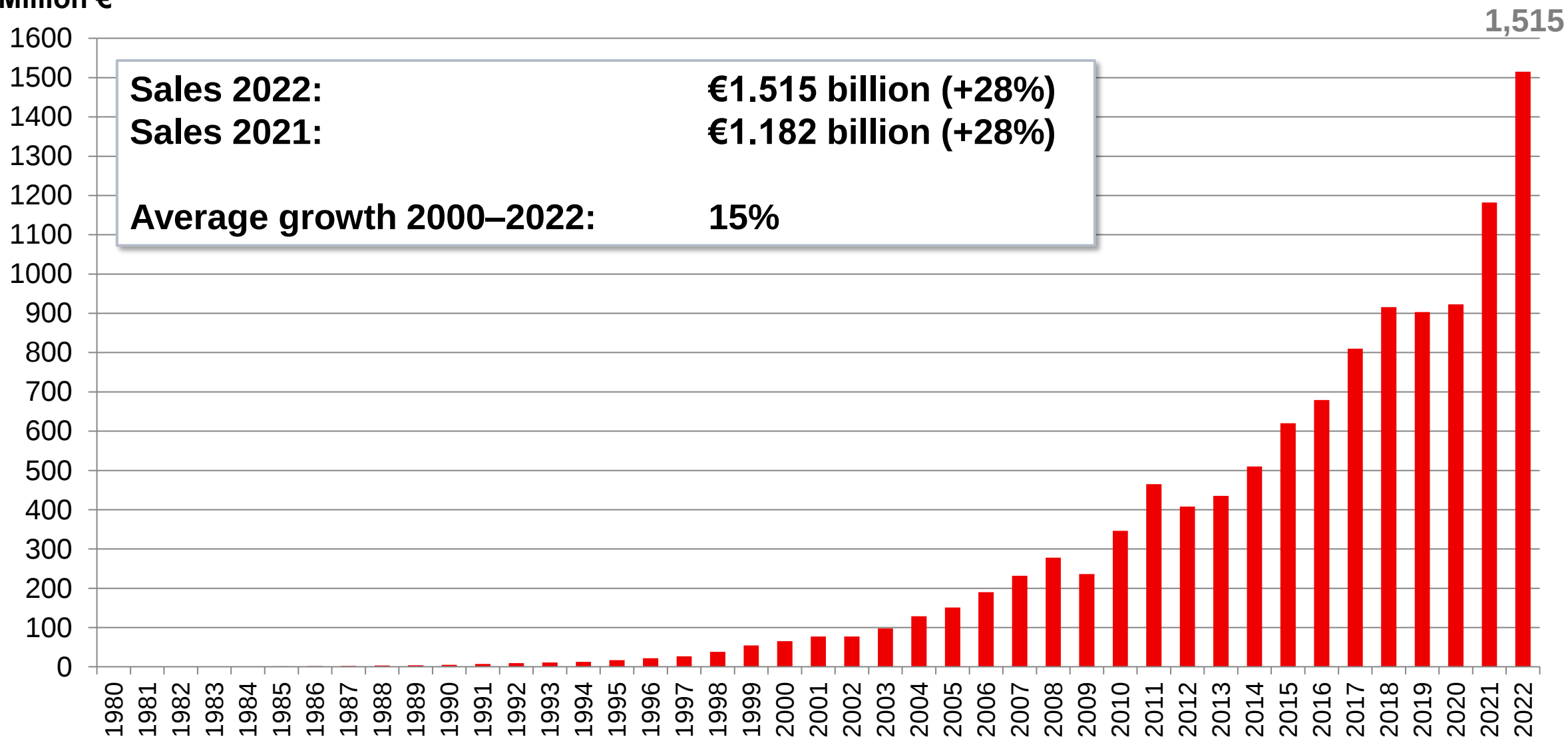
Sales
worldwide 2022



Sales 1980–2022

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Million €



Sales network Germany

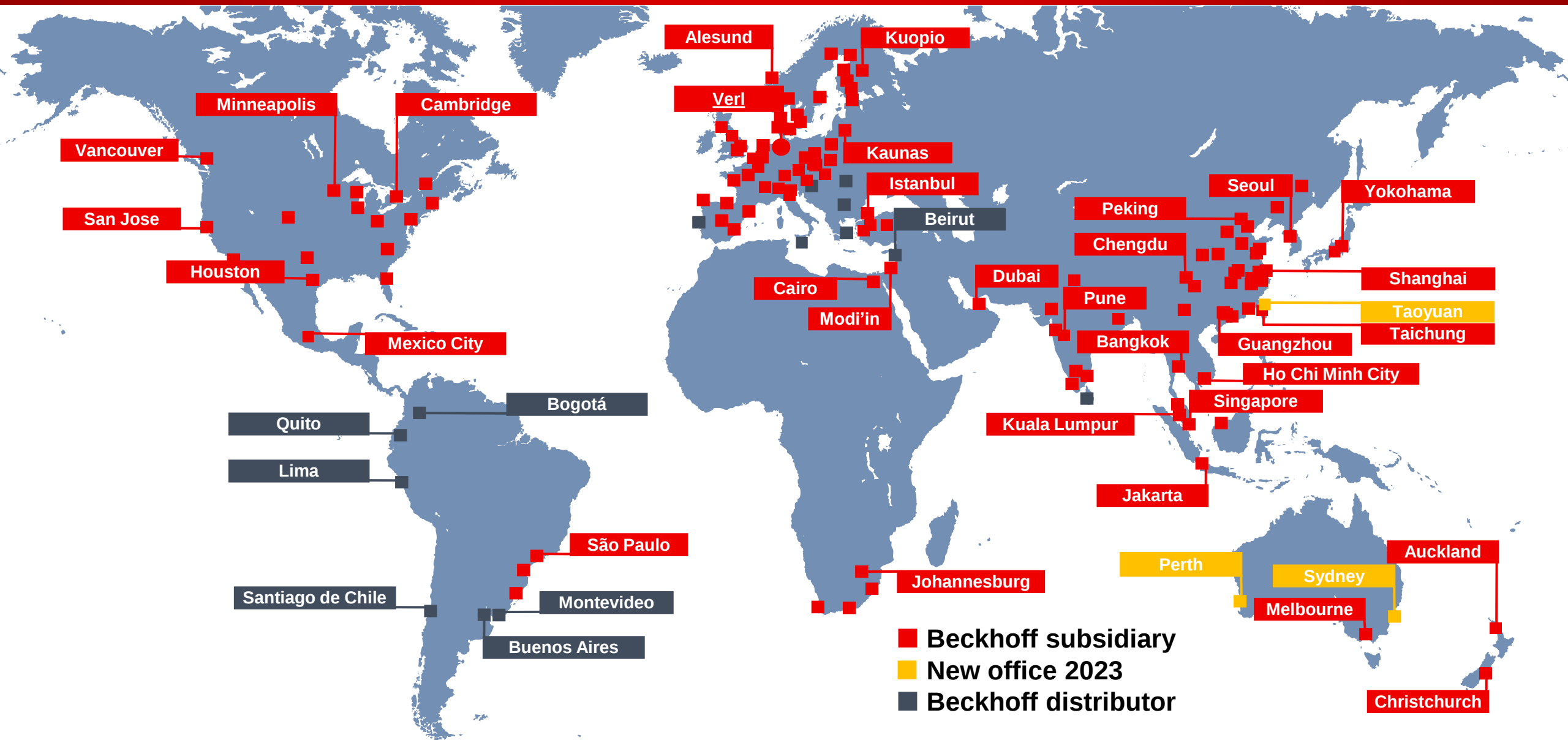
BECKHOFF

- Headquarters
- Office
- Development Center
- ▲ Sales Office
- △ Technical Office
- Production



■ Beckhoff subsidiary
■ Beckhoff distributor





1. Beckhoff Automation
- 2. PC-based control**
3. Products and system solutions
4. Applications



Components for industrial automation

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The IPC Company



The I/O Company



The Motion Company



The Automation Company



The System Company

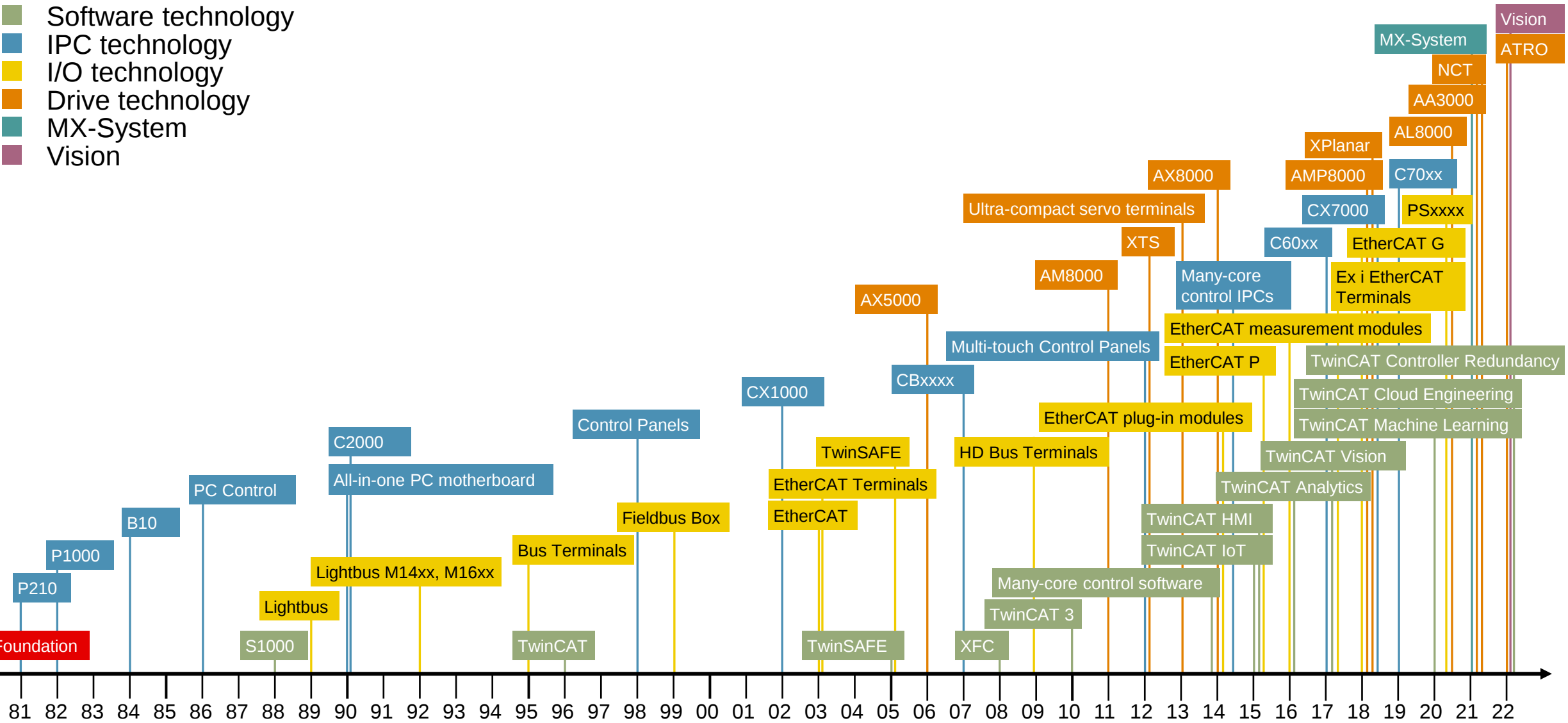


The Vision Company



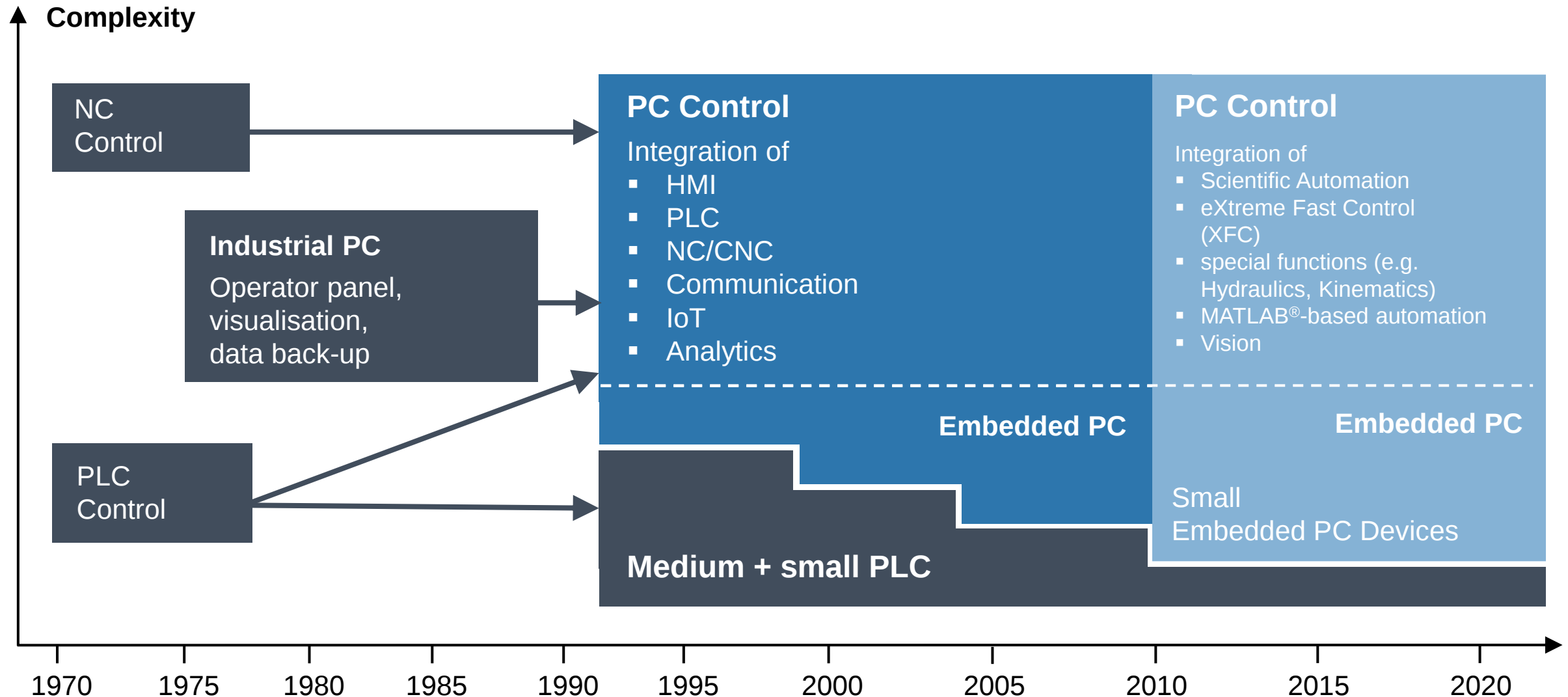
Milestones

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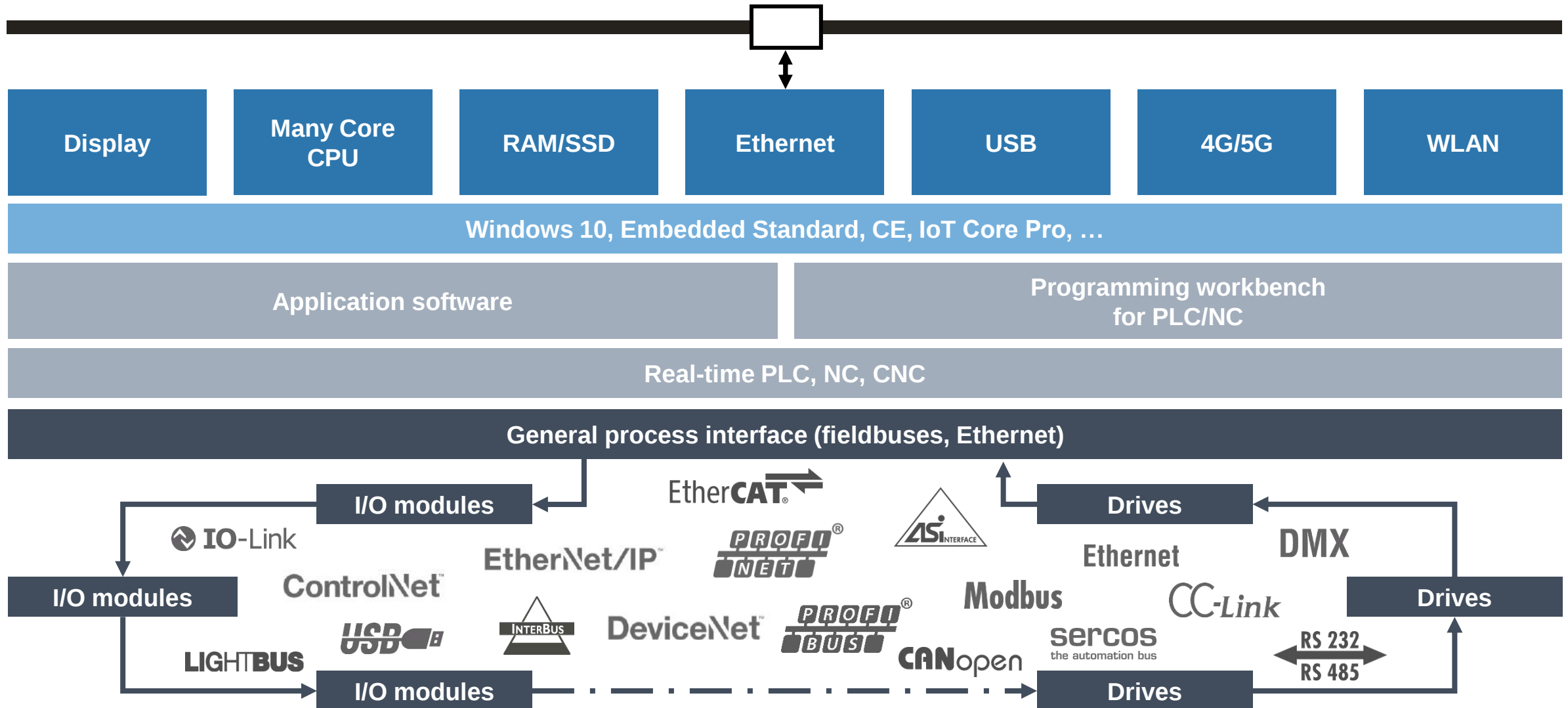
Development of electronic machine/plant control

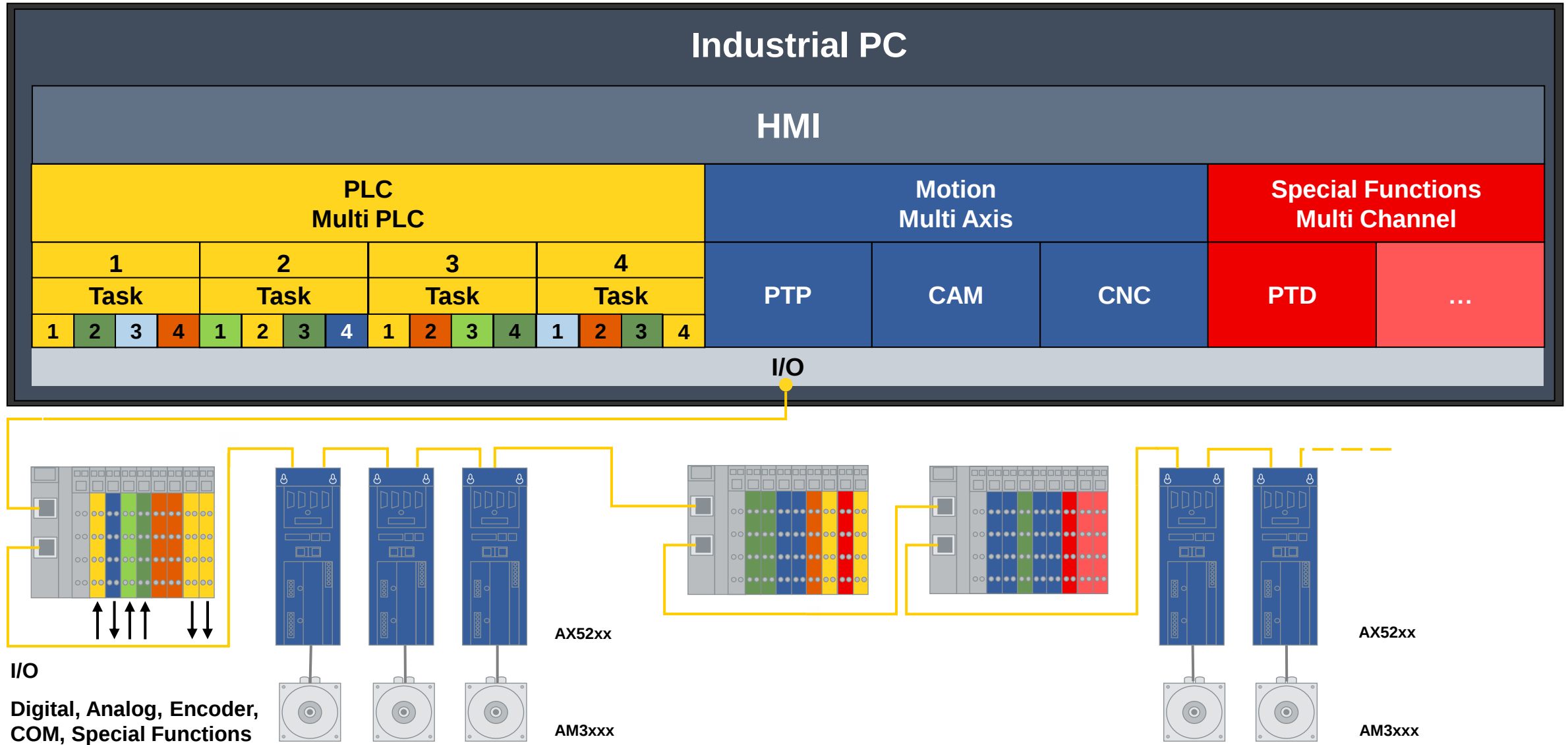
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The concept of open control technology

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PC hardware is standardized and exchangeable.

- Independence from a hardware supplier

Fieldbus I/O is standardized via the fieldbus and therefore exchangeable.

- Independence from a hardware supplier

Intel® x86 processor family and Microsoft operating systems keep continuity.

- Software and know-how investments are protected on the long run.

PC Control offers PLC, NC, loop control, ... applications on standard hardware.

- Standard hardware for all machine types of a manufacturer.

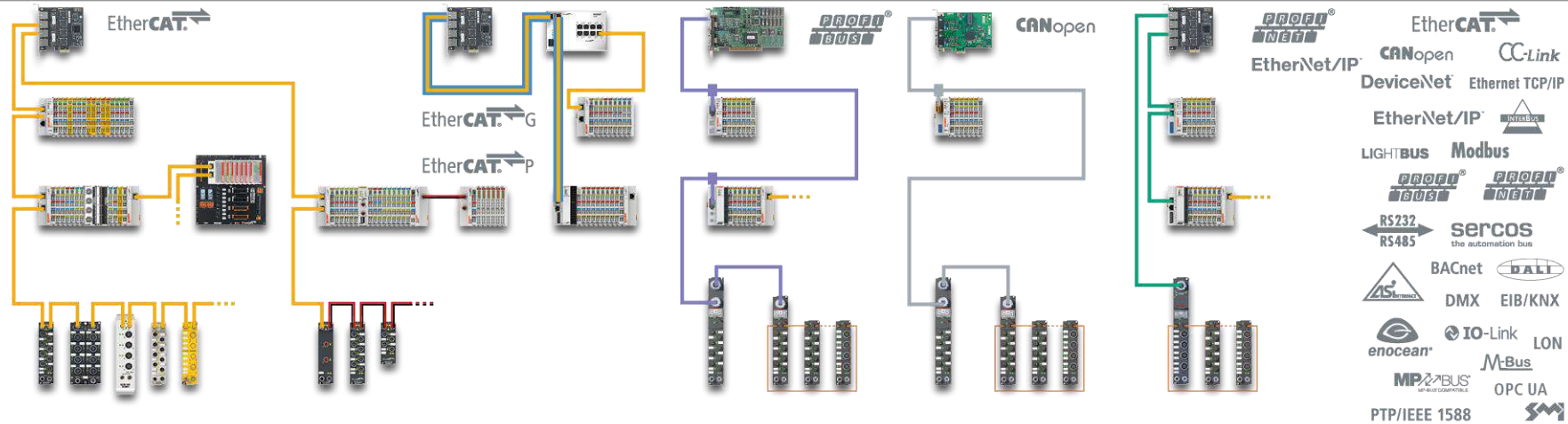
System overview

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IPC



I/O



Motion



Automation



MX-System



Vision



1. Beckhoff Automation
2. PC-based control
- 3. Products and system solutions**
4. Applications

Products and system solutions

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Industrial PC and Embedded PC



EtherCAT



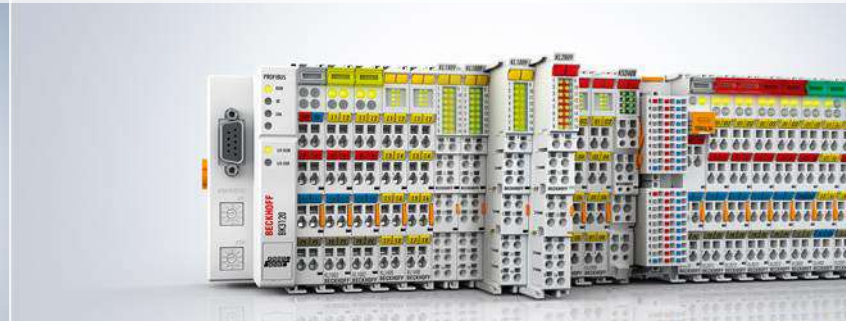
TwinCAT



Infrastructure components



Bus Terminals



MX-System



Transport systems



Drive Technology and robot system



Vision





Panel PCs

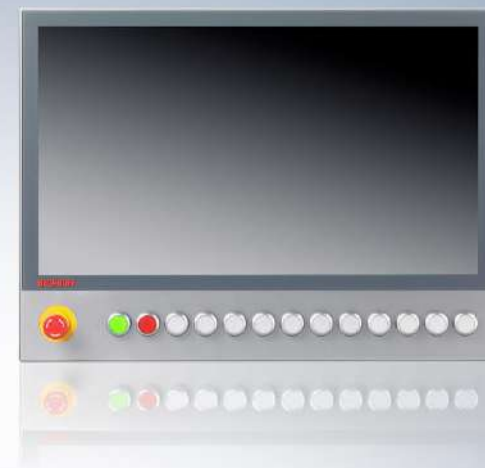
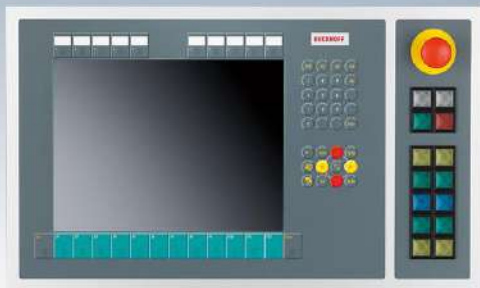
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Control cabinet Industrial PCs

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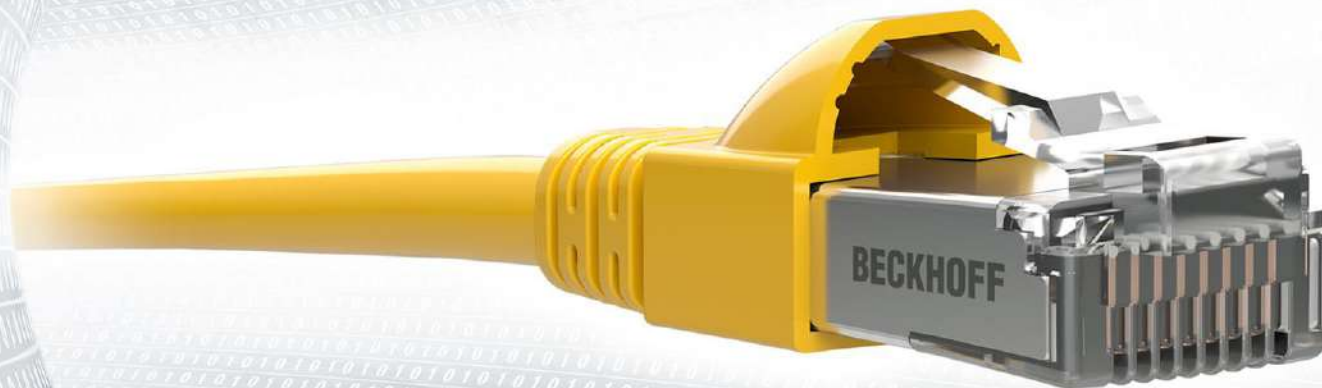






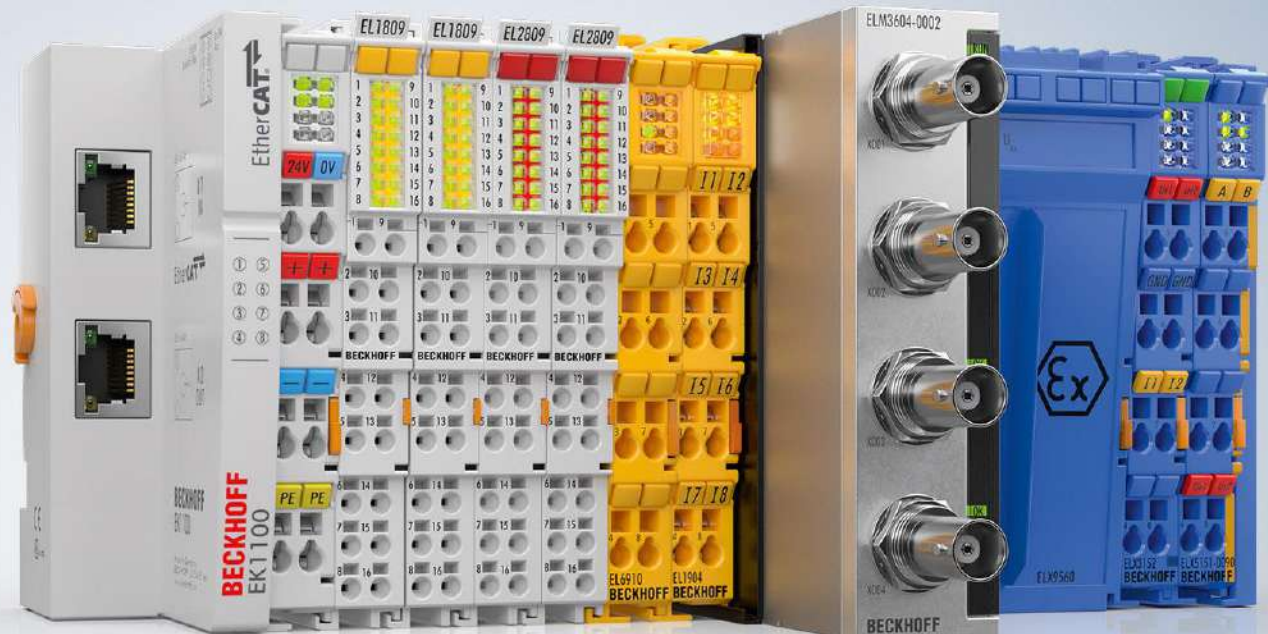
EtherCAT G: Ultimate I/O performance

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10 Gbit/s
1 Gbit/s
100 Mbit/s

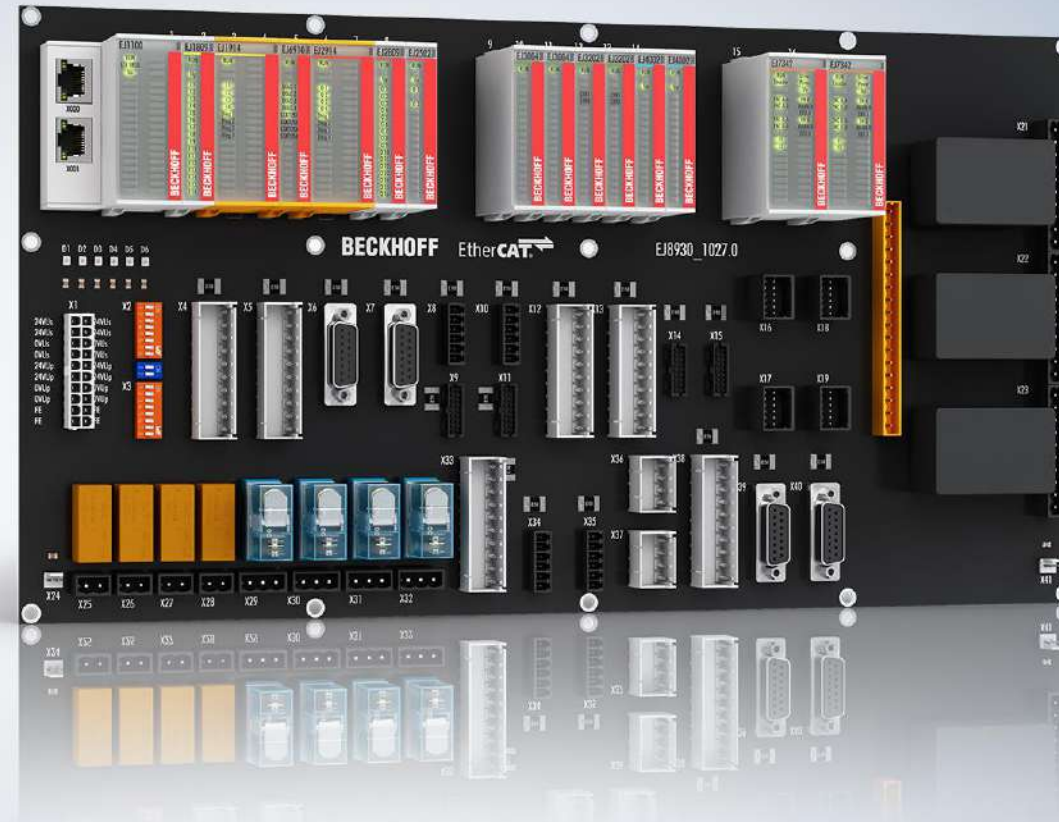
EtherCAT[®]  G





EtherCAT plug-in modules

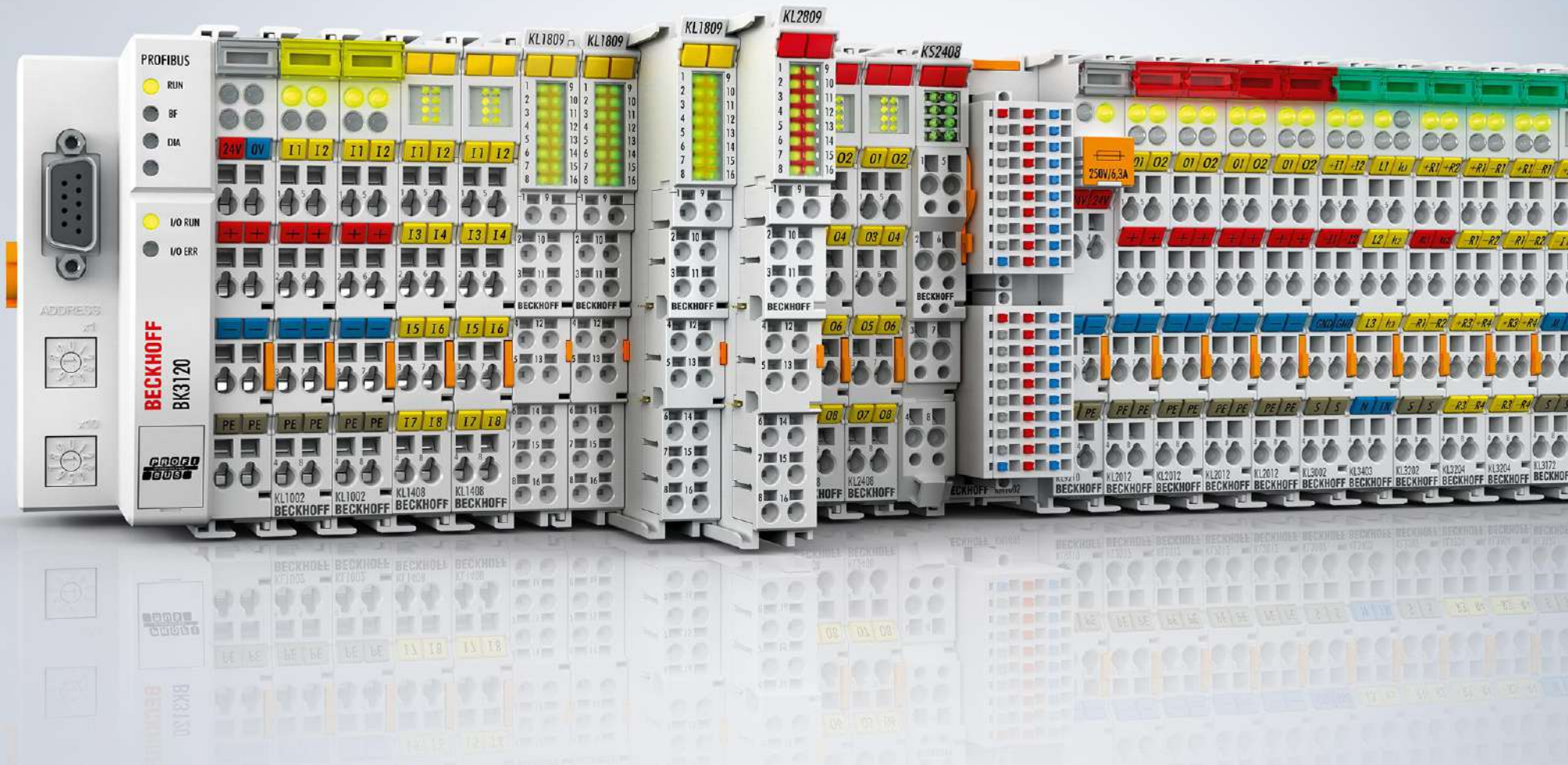
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EtherCAT®

Bus Terminal

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AX5000 and AX8000 servo drives

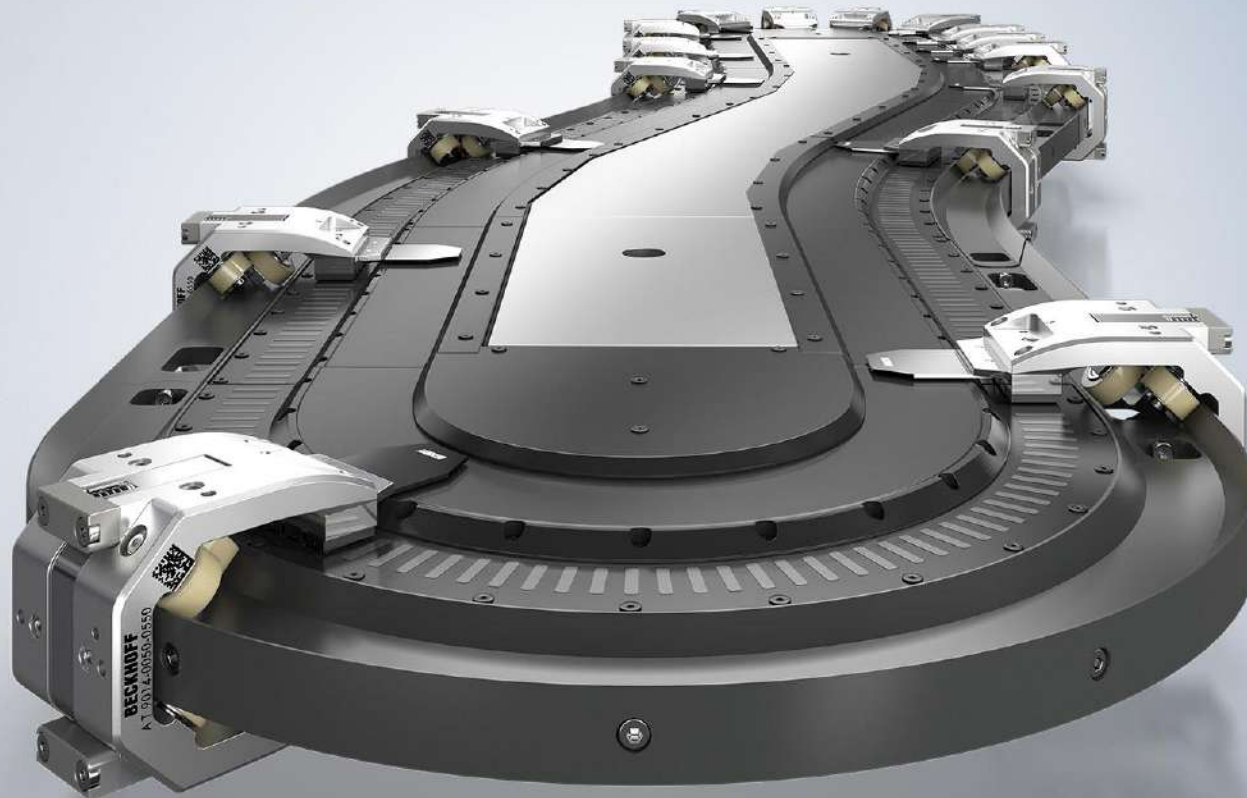
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Servomotors, stepper motors

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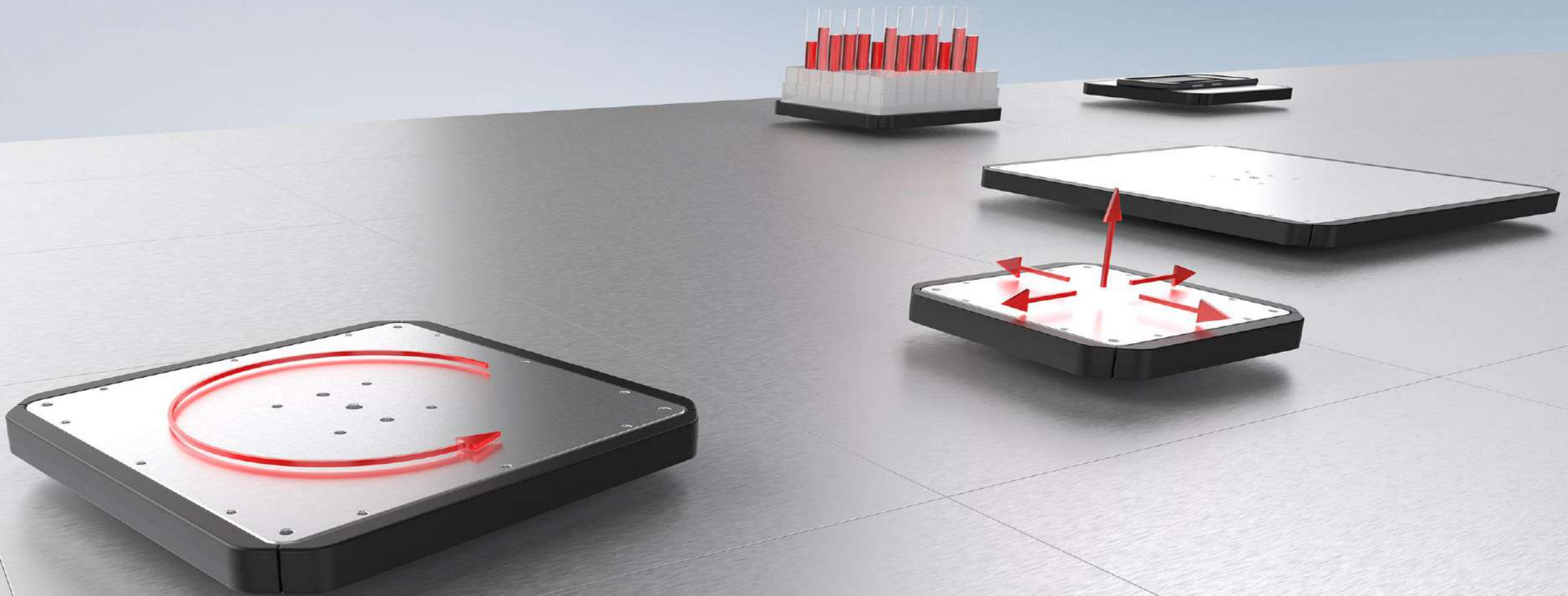




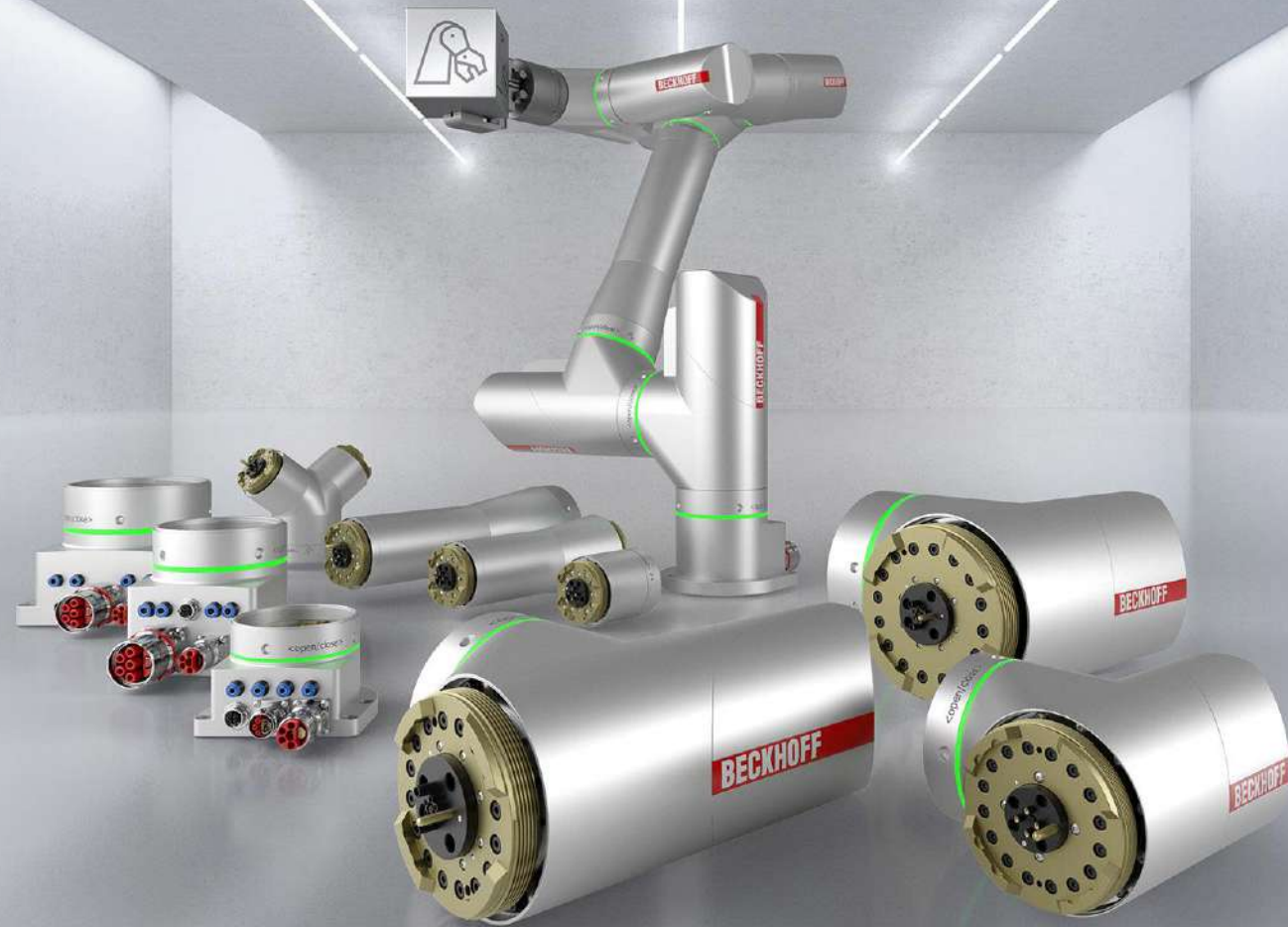
XTS®

XPlanar | Levitating, contactless, intelligent

BECKHOFF



XPlanar®



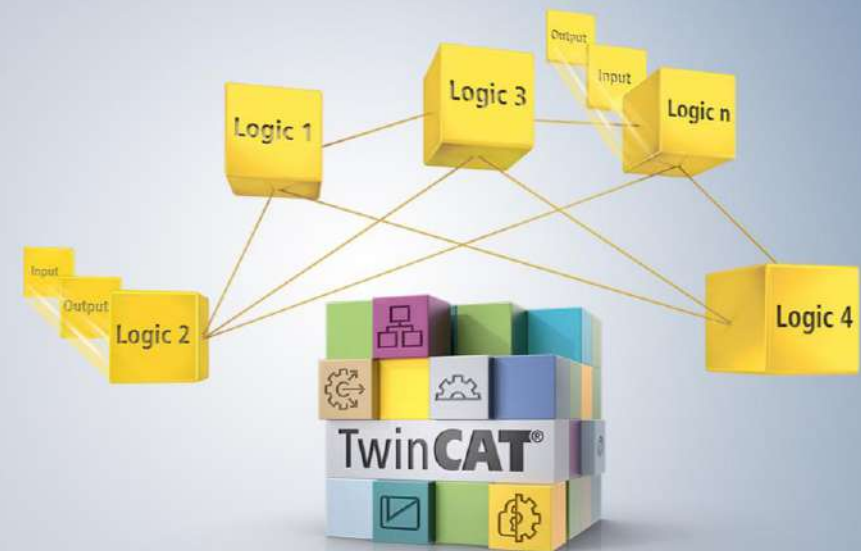
ATRO

ATRO
Award-winning design

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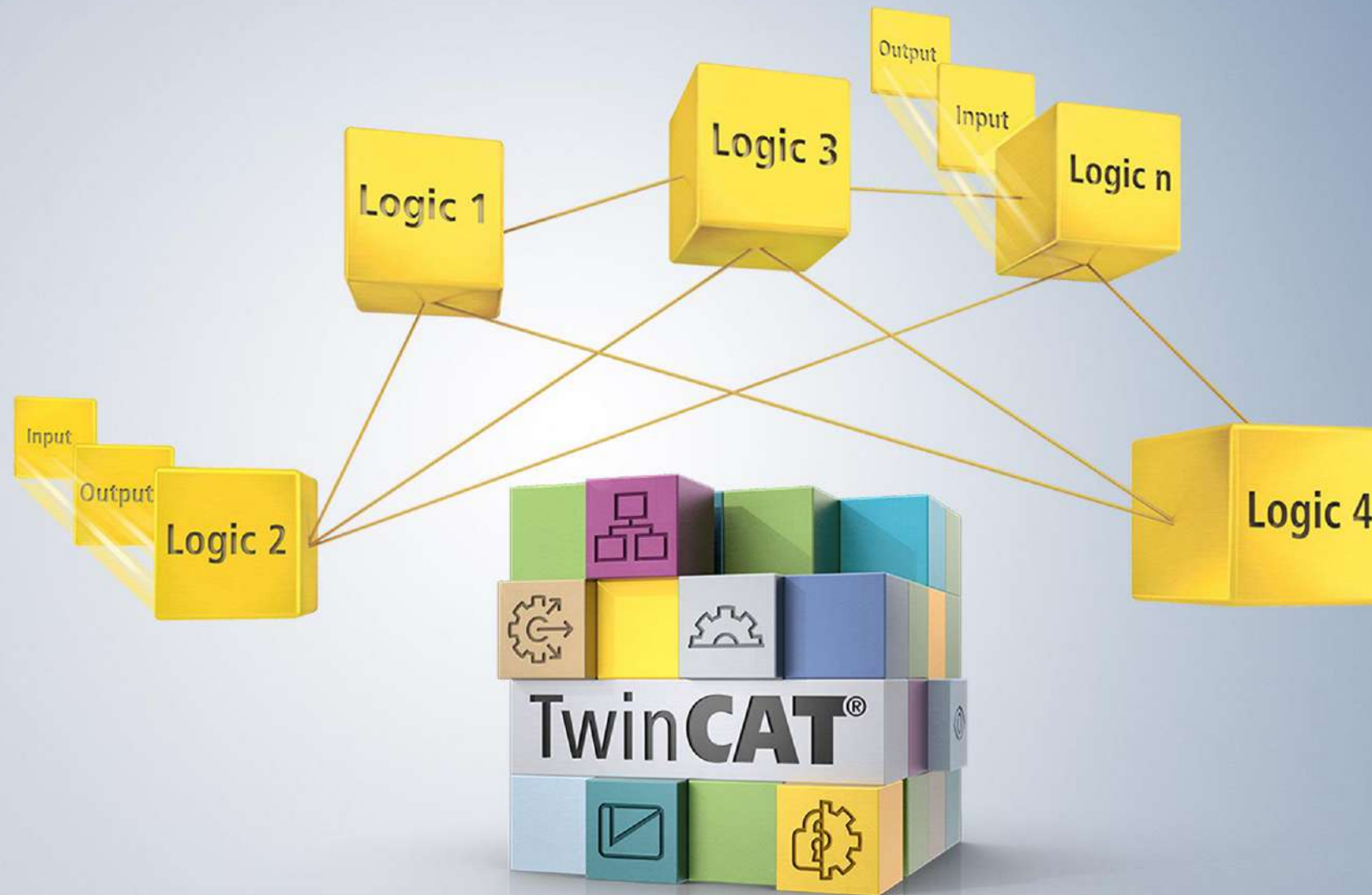


ATRO





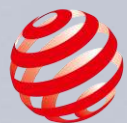






MX-System Award-winning design

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red**dot** winner 2023
best of the best

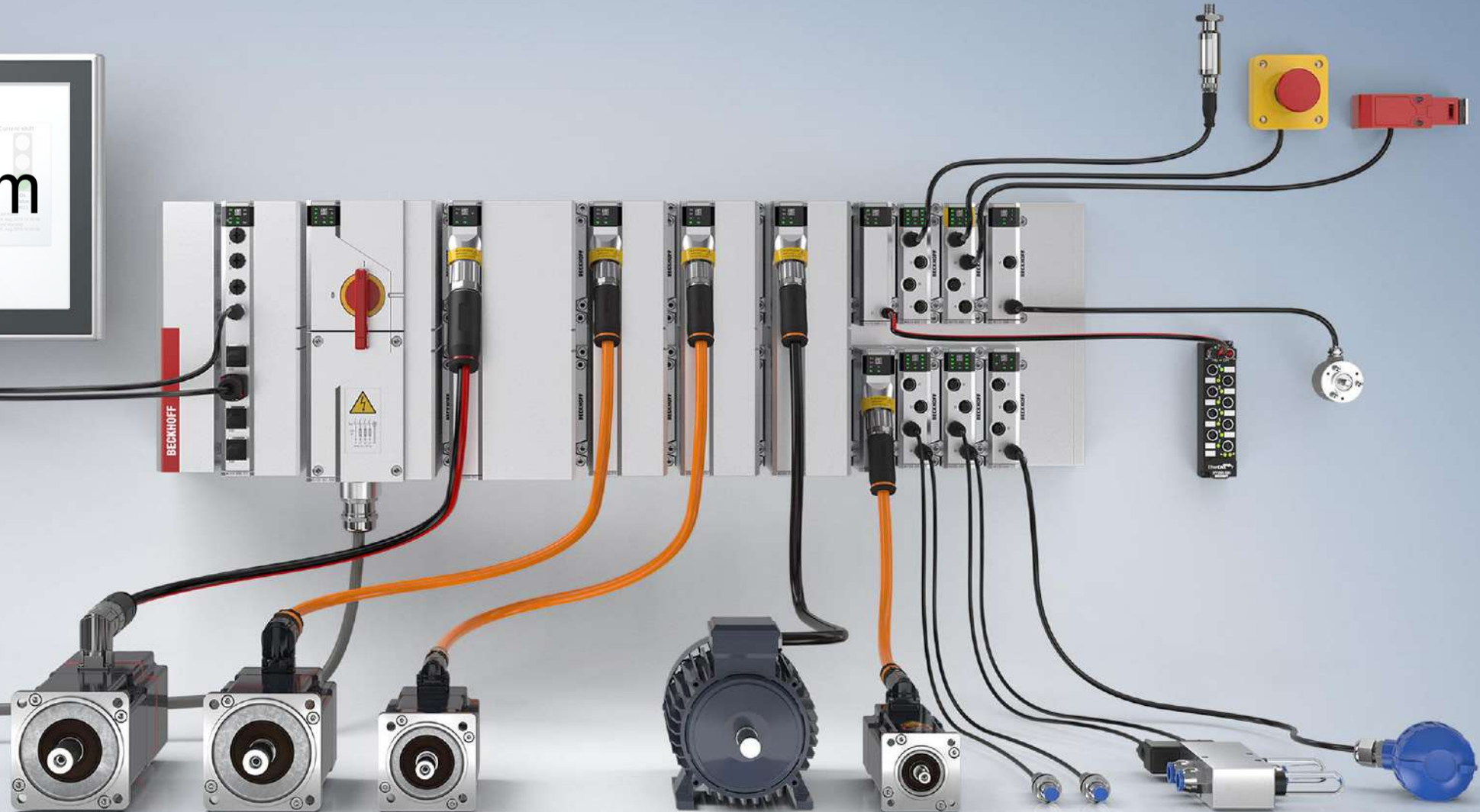


MX-System

MX-System

Pluggable system solution for control cabinet-free automation

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MX-System

New construction kit for automation replaces the control cabinet

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MRxxxx
relay modules

MSxxxx
system modules

Baseplate
2-row

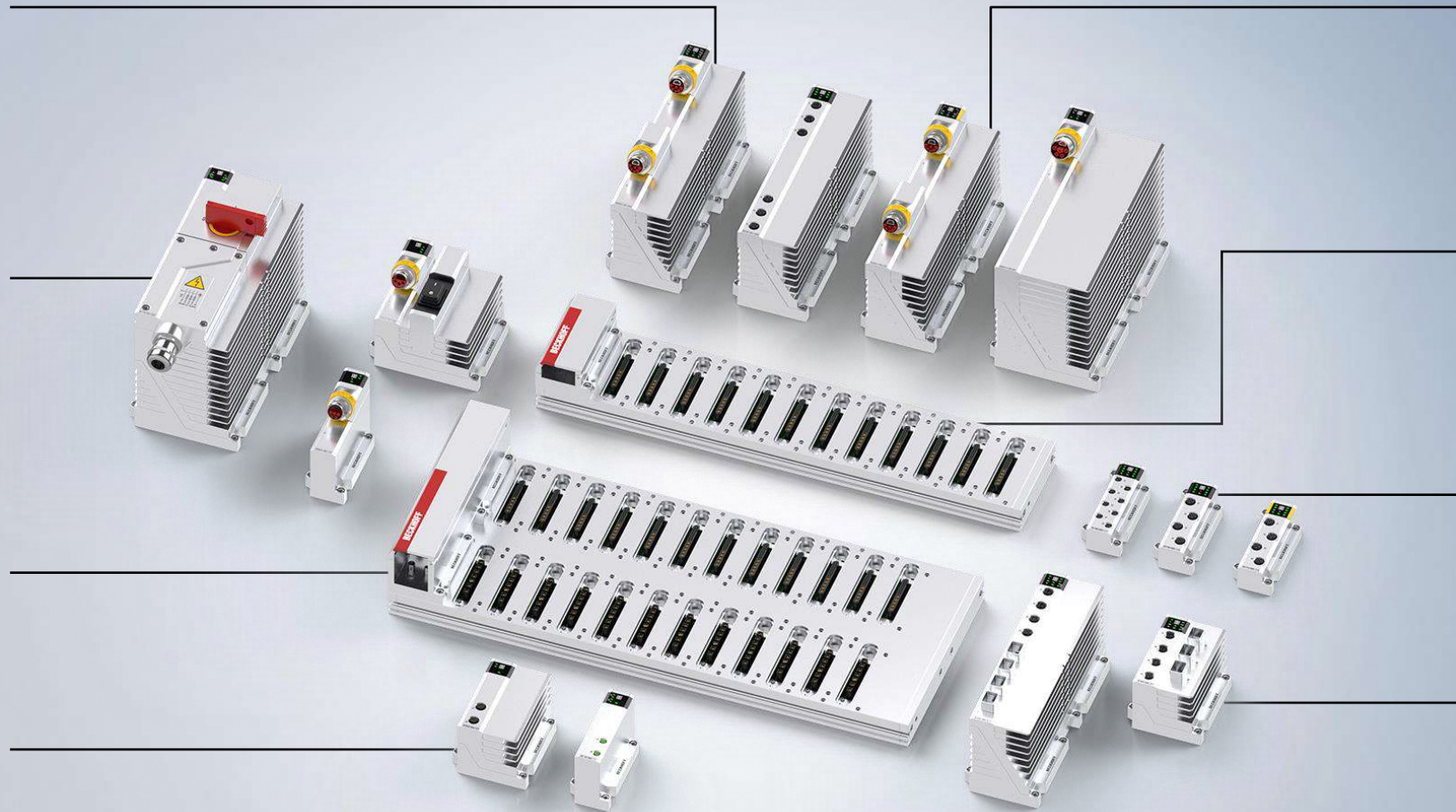
MKxxxx
coupler modules

MDxxxx
drive modules

Baseplate
1-row

MOxxxx
I/O modules

MCxxxx
IPC modules

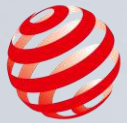


MX-System



Vision
Award-winning design

BECKHOFF



reddot winner 2023



1. Beckhoff Automation
2. PC-based control
3. Products and system solutions
4. **Applications**

Applications and solutions

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Packaging machines



Window production machines



Handling and assembly technology



Tire and rubber industry



Plastics machines



Machine tools



Woodworking machines



Forming



Print industry



Applications and solutions

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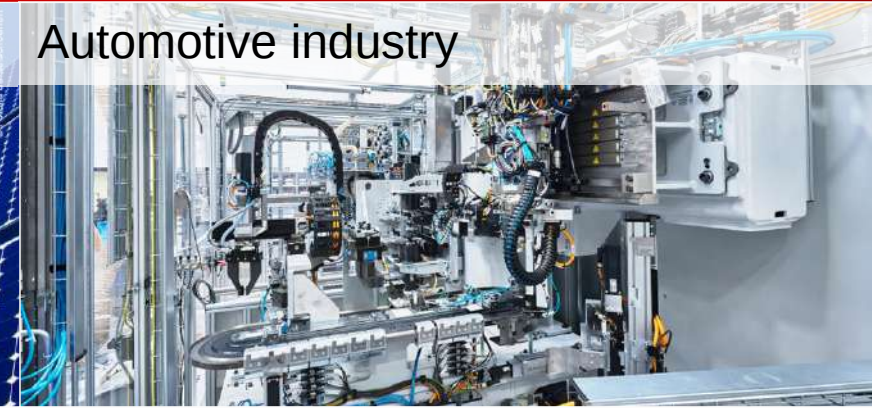
Water treatment



Photovoltaics



Automotive industry



Building Automation



Process industry



Marine industry



Entertainment industry



Wind turbines



Test facilities



Applications and solutions

BECKHOFF

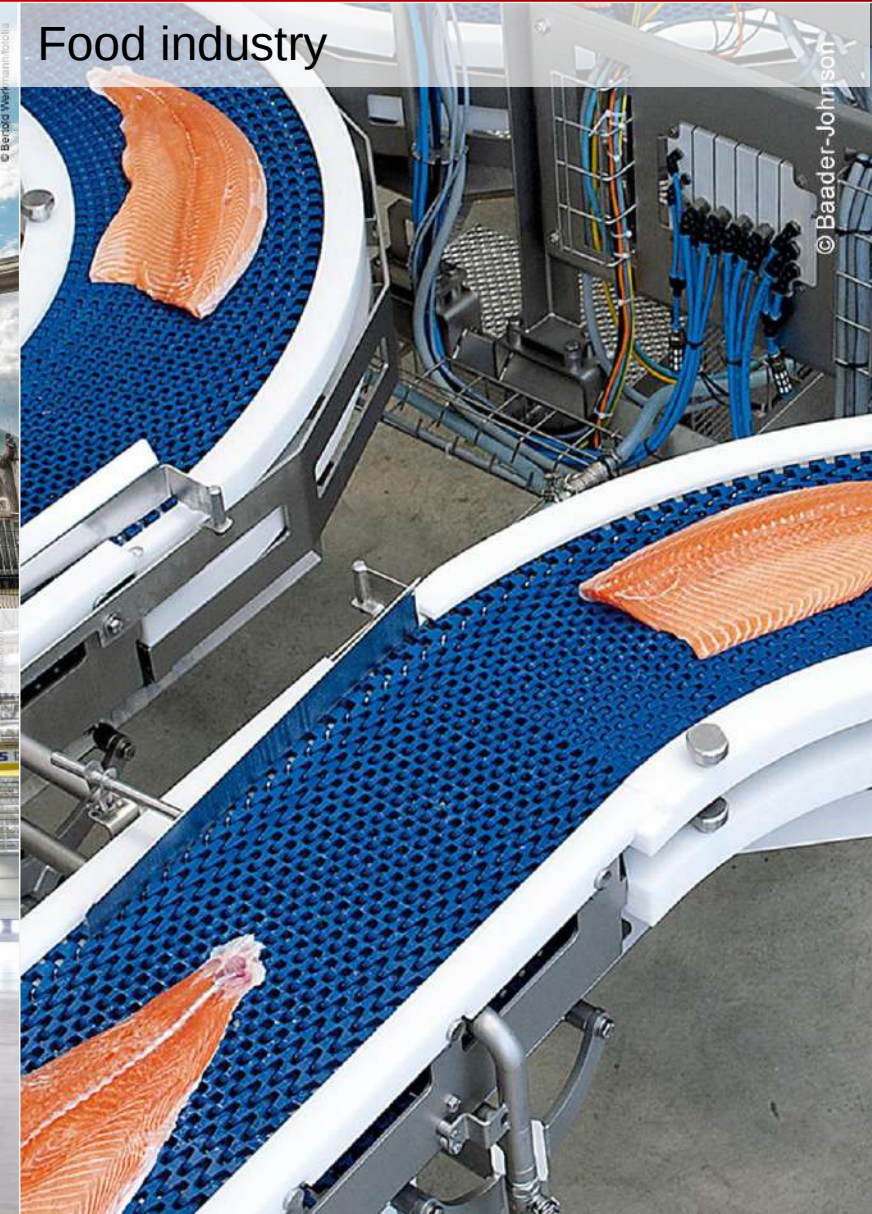
Semiconductor industry



Energy industry



Food industry



Warehouse | distribution logistics



Machine building



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