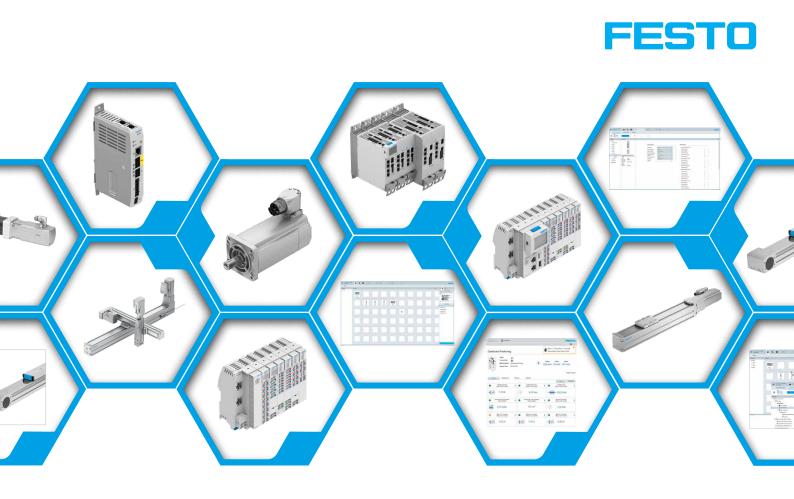
Motion by Festo



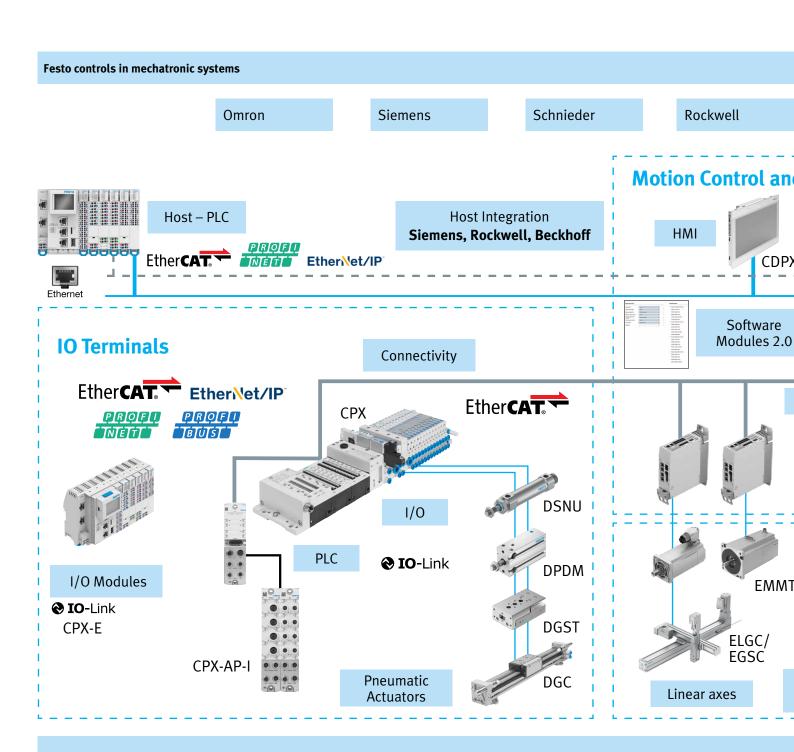
Electric Automation – Products & Services Offer

Seamless connectivity with Festo. Mechatronic systems with interoperability as a core va

→ WE ARE THE ENGINEERS OF PRODUCTIVITY.

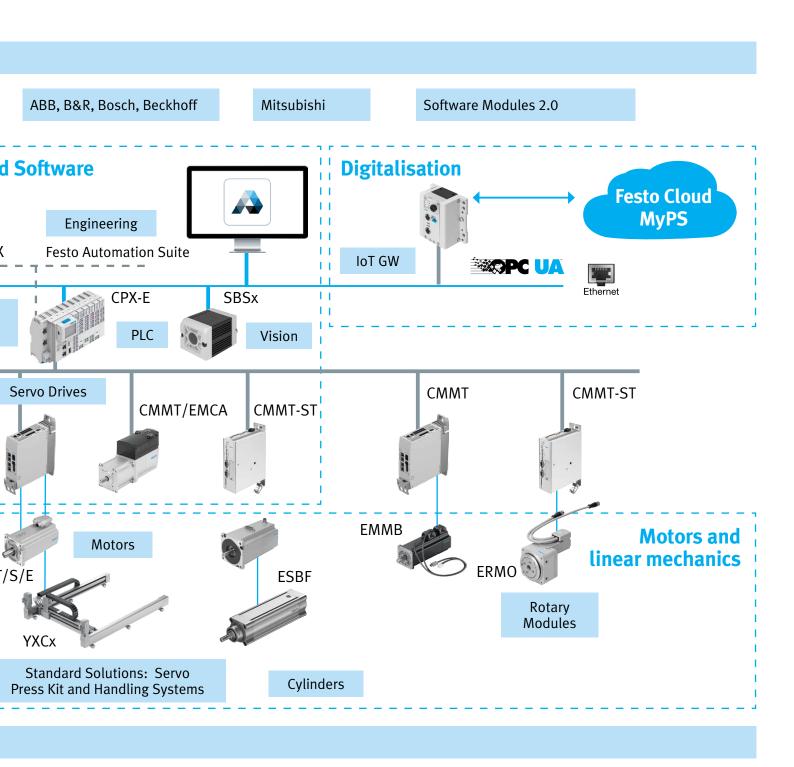
Through a consultative approach we commit to understand your needs. Our job is to match suitable products and services.

We can reduced time to design, reduce time to implement, reduce complexity, reduce risk and overall create value. Our prod We are more than just a supplier, we want to be your engineering partner.



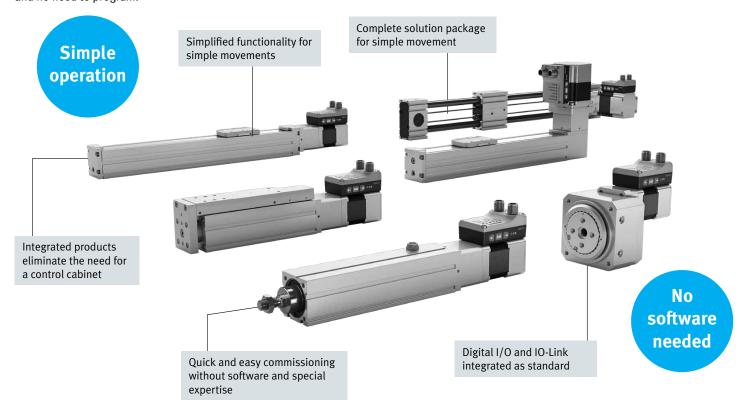
alue

ucts and services are enhanced by our software tools, engineering knowledge and added value services through the project.

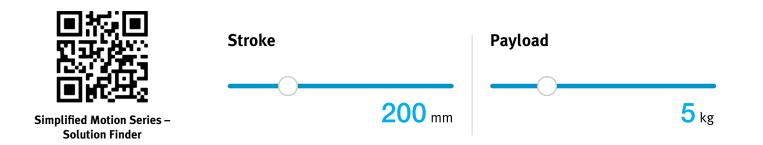


Simplified Motion Series

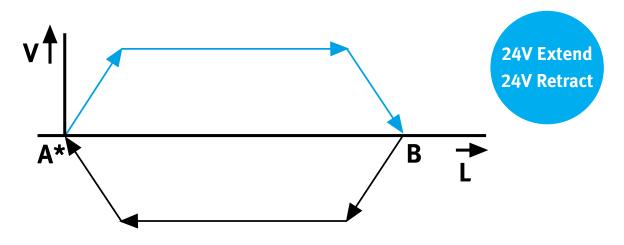
Combines the simplicity of pneumatics with the advantages of electric automation. Perfect for very simple movement and positioning tasks, and no need to program.



Sizing and selection is made easy



Controlling simple motion



Overview of the products in the Simplified Motion Series







Electric gripper EHPS



Electric cylinder EPCS



Toothed belt axis ELGE



Rotary drive ERMS



Mini slide EGSS

Simple integrated controller

Experts not needed

For commissioning, simply adjust directly on the drive:

- Set speed level 1–10
- Set force level 1–10
- Set end position
- Demo mode to test settings





Separate M12 plug & cable design

- Power (4-pin): power
- Logic (8-pin): Either D I/O or IO-Link

No confusing combinations

No uncertain oversizing

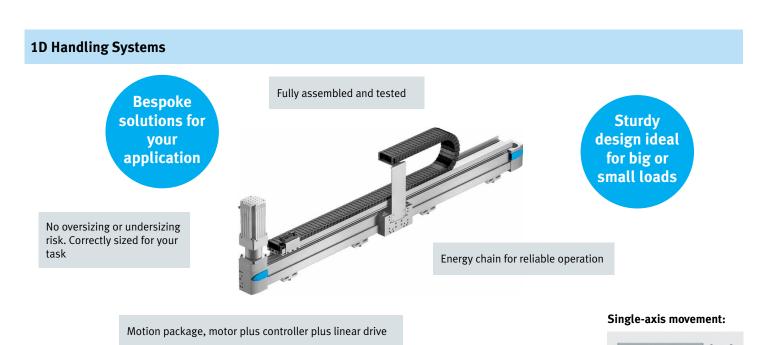


IO-Link control option

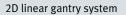
- Remotely adjustment settings
- Backup and copy setting

1D, 2D and 3D Cartesian Robots

The ready-to-install systems provide you with fast and reliable solutions for standard applications: fully assembled, tested and perfectly coordinated, including energy chain, connection technology and matching drive package.



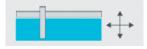
2D Handling Systems





Excellent for pick and place or inspection applications

2D linear gantry:



2D Planar surface type for horizontal motion

The tubing and cables are routed through energy chains

Ideal for long strokes and high payloads

Great for long strokes

High mechanical rigidity

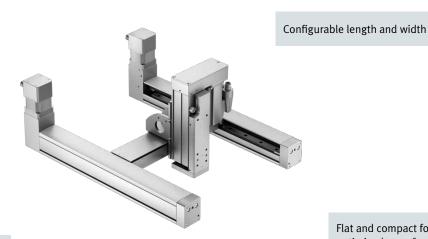




User-friendly mounting and assembly

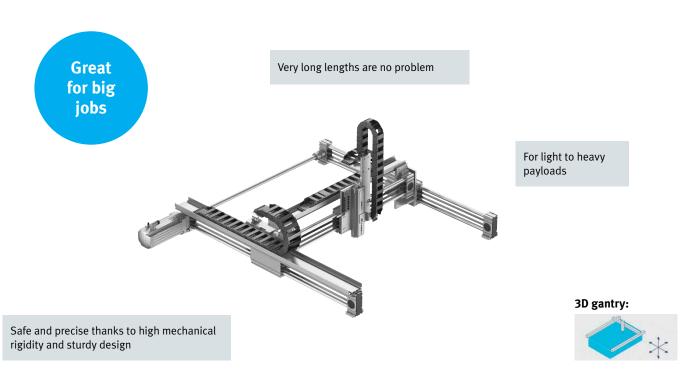
3D Handling Systems

Excellent footprint to working envelope ratio



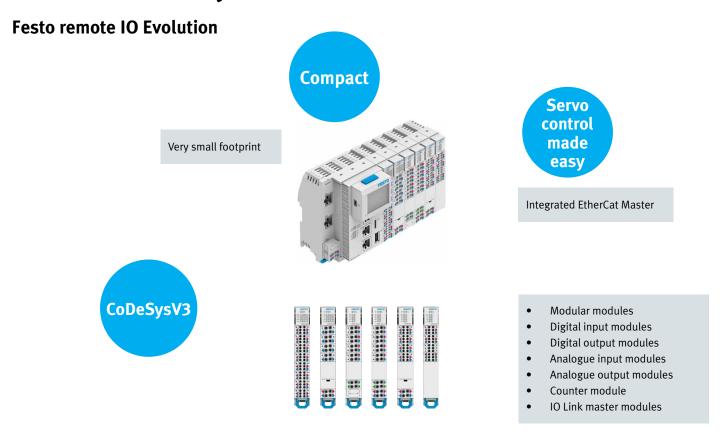
Flat and compact for optimised use of space

Excellent at absorbing high forces and torques

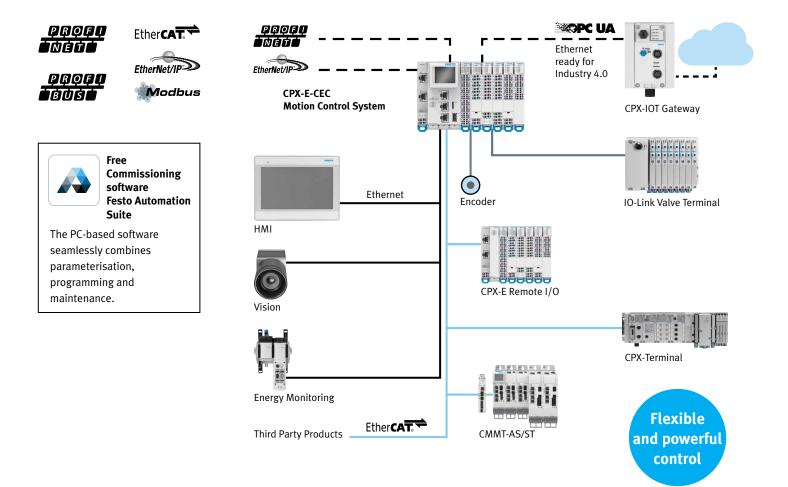




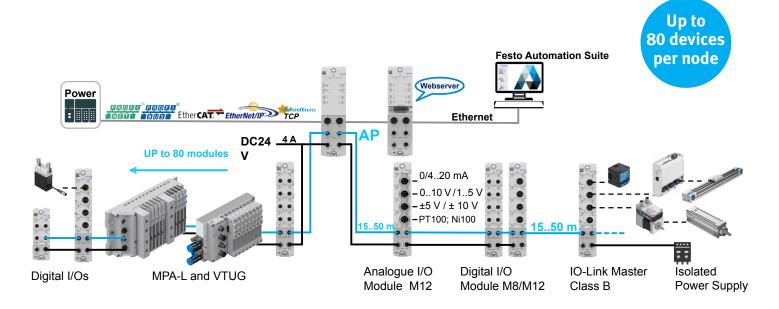
Modular Control System CPX-E



Architecture of the automation system CPX-E



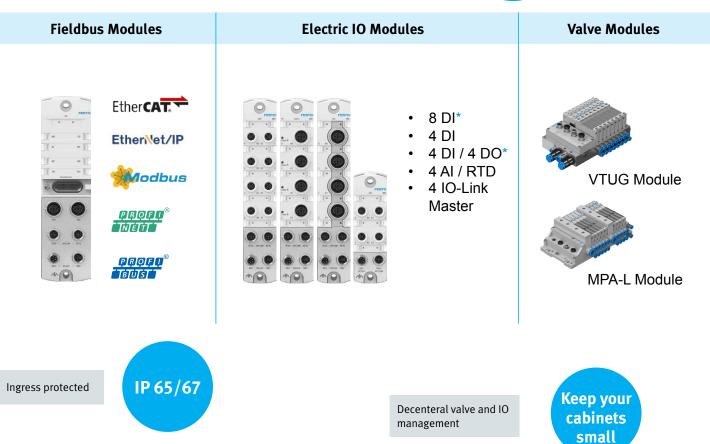
CPX-API



Very compact units

Reduce wiring cost and volume

Available modules

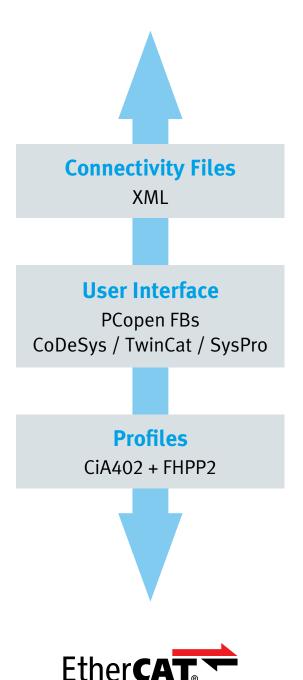


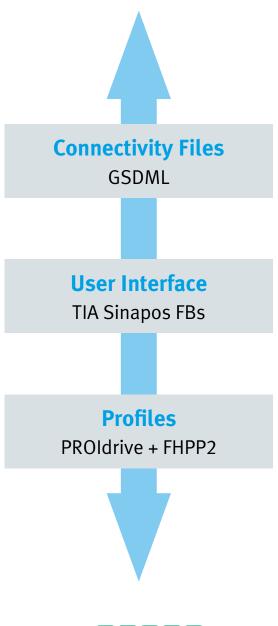
Connectivity and Interface Files

Files available to connect from us to you







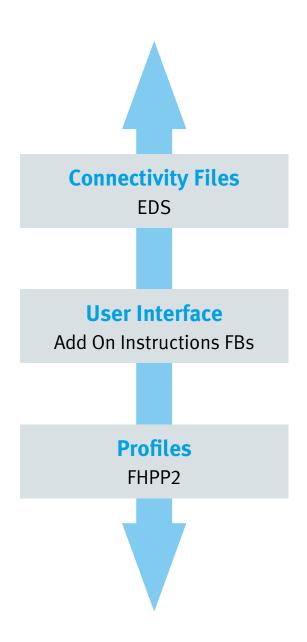


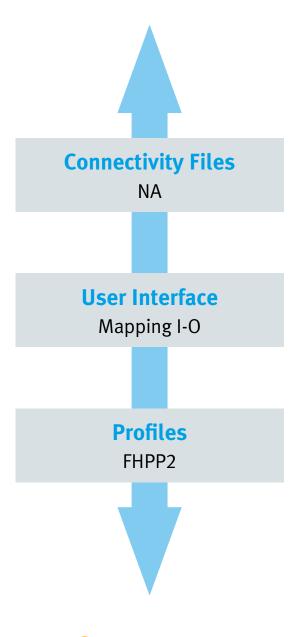






PCs and Other Industrial PLCs









The Festo Automation Suite: Free Software

One automation solution - powered by one piece of software: the Festo Automation Suite.

The new free software package from Festo revolutionises engineering, since commissioning, including the optimised design of a servo drive via EtherCAT, only takes a few minutes.

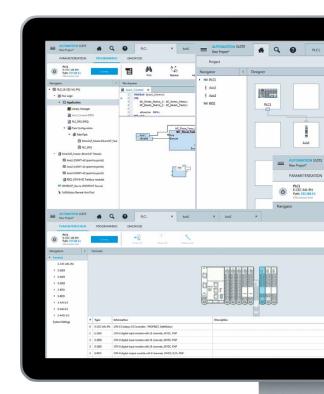


The right files, when you need them

In app component specific documentation

Less searching, saves time

In app plug-in updates



Parameterisation

- In the Festo Automation Suite, you can integrate servo drives via a plug-in, e.g. via the CMMT plug-in
- Clear, simple management within a project, comprehensive parameterisation (formerly FCT)
- All basic data of the design (e.g. from positioning Drives) is transferred

CODESYS rogramming

- CODESYS provided by Festo is integrated into the Festo Automation Suite as an extension
- Universal language to IEC 61131-3, widely accepted in the control systems market
- Comprehensive CODESYS V3 function library and many Festo function blocks (Robotics lib)

nation Suite



Download for FREE:

→ Festo.com/AutomationSuite

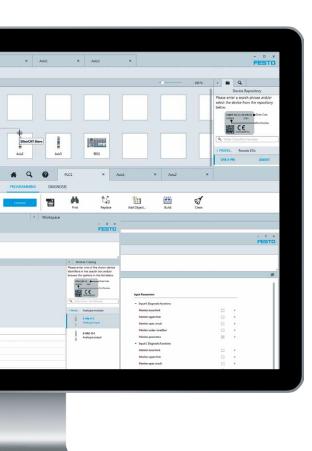




Free software, no subscriptions



Integrated control application for commissioning & control and parameterisation



Fieldbus commissioning

- Commissioning via EtherCAT (formerly FFT) is also included into the Festo Automation Suite
- Just 1 click and the connection loads all data in the background
- Secure firmware updates
- Add new features at no additional cost

Motion control/robotics

- CODESYS SoftMotion is a powerful software library for simple and complex motion control applications.
 It includes:
 - PLCopen part 1 and part 2, robotics (PLCopen part 4),
 Camshaft Editor, CNC Editor (.dxf file import)
 - Robotics lib extends SoftMotion to include Festo kinematic systems such as EXCT and EXCH

Programming and Integration

Application notes



Detailed work instructions supporting your project

Wiring diagrams



Examples specific to your configuration

Instruction videos



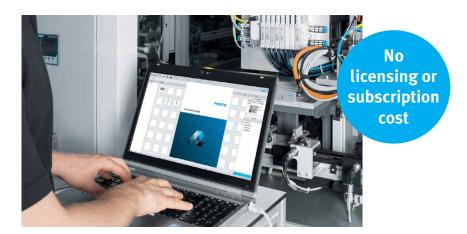
Guided step through from beginning to the end

Function blocks



Festo written FBs: CoDeSys, Siemens, Allen-Bradley, Omron, Beckhoff, Festo

Festo Automation Suite



Free programming app: Commissioning, Parameterisation, Control

Sample program



Topology overview



FieldBus connecting files



Siemens (GSDML), Allen-Bradley (EDS), Omron (XML), Beckoff (XML), Festo (XML)

Function blocks II



Different blocks for different functions: Position control, Speed control, Others

Technical support



Detailed work instructions supporting your project

Safety @ Festo





Application notes to support you. Worked examples

Application Support and Technical Support Commitment

"We are the engineers of productivity."

Through consultative approach we commit to understand your needs. Our job is to match suitable products and services to your project. We can reduce time to design, reduce time to implement, reduce complexity, reduce risk and overall create value.

Our products and services are enhanced by our software tools, engineering knowledge and added value services throughout your project. We are more than just a supplier, we want to be your engineer partner.

What is technical support at Festo?

Help with finding and using:

- Technical details of products
- Sizing and selection tools
- Application notes
- Connectivity files
- · Sample programs
- · Video tutorials
- Festo software tools

Our team will help you perform



Design, operate and integrate fast

What is application support service at Festo?

Project lifecycle support

Combination of technical sales team and technical support team

> Our team will help you perform

Higher level of engineering support



A wealth of engineering experience across industries

Custom solution

Bespoke engineered solutions for your applications

Proof of concept to reduce risk

Prototyping

Guide to get quick technical product support



Send email to **technical.ie@festo.com**Include the part number and configuration in the body of the email.
Explain the questions and include pictures, sketches or videos when possible.

Technical support email: technical.ie@festo.com

Guide to get application support

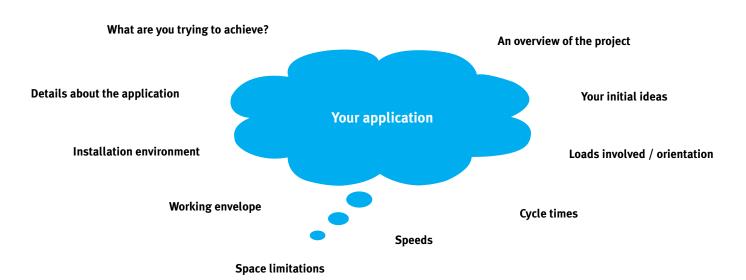
Contact your industry segment specialist or sales contact. Industry segment specialists are on the back page. Or send an email directly to sales_ie@festo.com
Explain the application and include pictures, sketches or videos when possible.





Application support: sales_ie@festo.com

Tell us about your application



Motion Packages: Mechanics, Motor and Motor Controller

Try the Handling Guide Online now!



From concept to CAD model in 10 mins!

Slick design tool available online

No time wasting sizing more parts

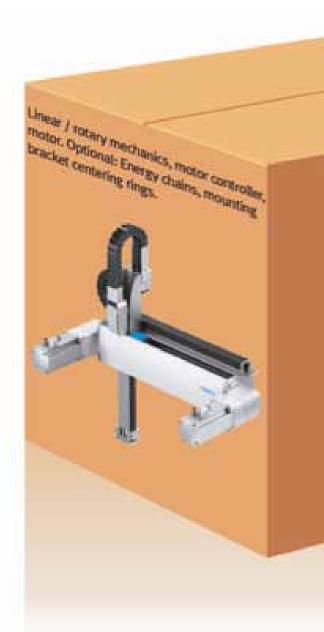
Automatic motor and gear box sizing as part of the solution

No time wasting fabricating parts

Mounting brackets and accessories available as standard



Technical files including BOMs, motions profiles, motor characteristics, feed constants and dynamic data



No time wasting figuring out energy chains



Sizing tools available for 1D, 2D, 3D systems

Remove risk with a Festo warranty

Festo designed solution for your application





Mechanically and electrically matched solution

Option for delivery completely assembled

Once mounted, it's ready to program

Single source supplier from motor controller to mechanical

Clear responsibility for fault finding

Energy chains and sensors can be included

Your Partner for Safety: Safety@Festo

Reduce risk - think preventively!

Festo provides you with many safety features that can be used in safety applications with our pneumatic and electric and parts and sub-assemblies.

We cannot design your safety system but we can advise you on how our parts can be integrated into your solution. We have worked examples, application notes and diagrams to help you achieve your safety requirements.

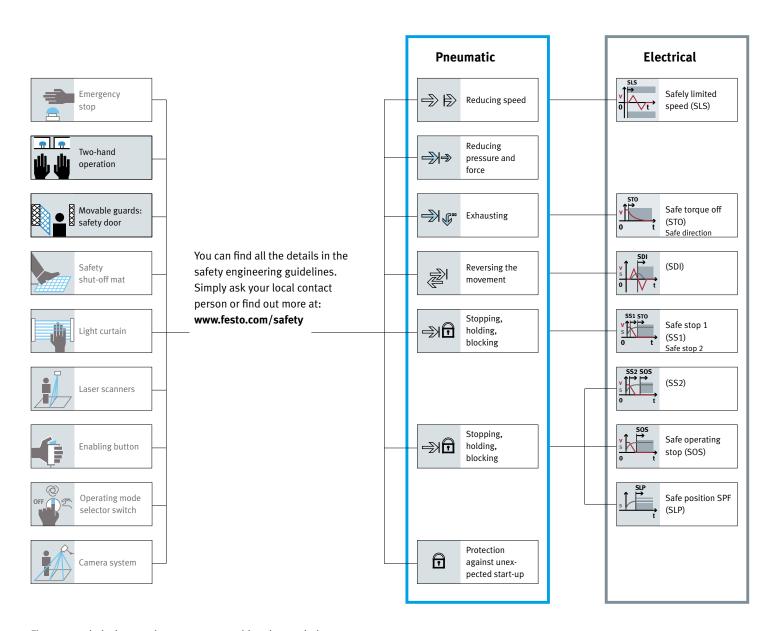


Figure 1: technical protective measures considered as a whole. The safety chain goes from the sensor via the safe evaluation to the drive.

Examples of mechanical safety solutions from Festo

EGC - linear measuring system

The linear measuring system is not a complete safety solution but it can be used as part of a solution. A monitoring system is always required in this case. A 2-channel solution is possible together with a motor encoder and a suitable safety switching device.

EGC - clamping unit

- 1- or 2-channel design, for holding loads
- Reliable holding is guaranteed since the forces act directly on the slides







	Only linear measuring system	With 2nd measuring system (encoder) in the servo motor
Kat	2	4
PL	d	е
dC	Medium	High
CCF	<u>}</u> 65%	<u>}</u> 65%
Channels	1	2
Safety component to MD 2006/42/EC	no	no

Kat	Can be used in higher	Can be used in higher
PL	category systems with additional measures	category systems with additional measures
dC	additional measures	additional medsures
CCF		
Channels	1	2
Safety component to MD 2006/42/EC	no	no

All specified values are maximum values, which can be achieved via correct operation and interconnection of the SRP/CS.

Examples of electrical safety solutions from Festo with CMMT-AS



STO Safe torque off



SS1 Safe Stop 1



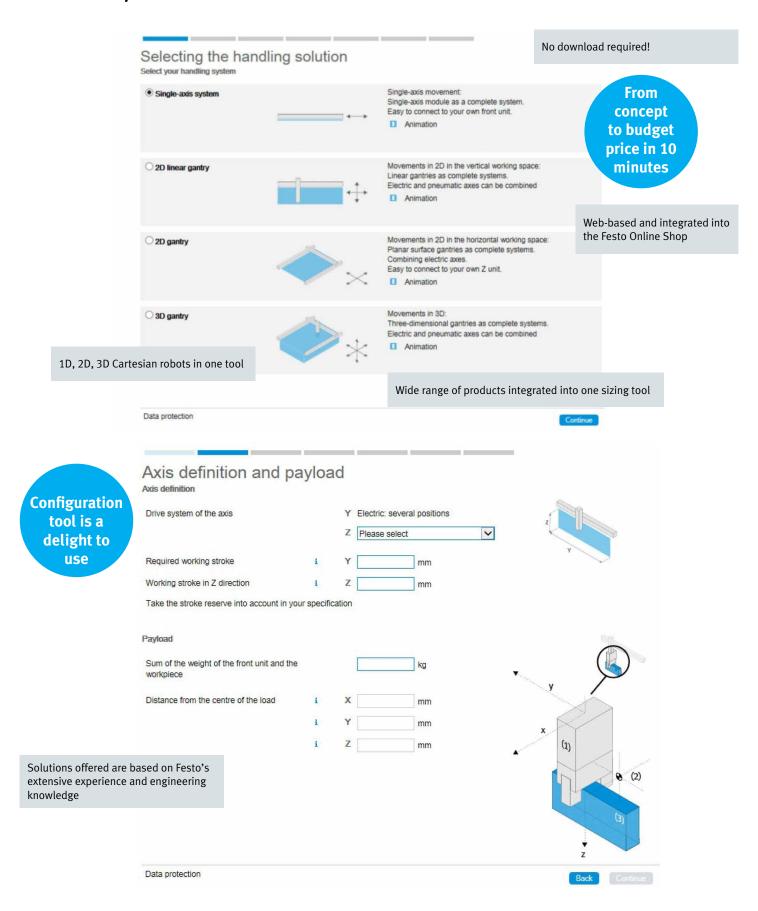
SBC Safe Brake Control



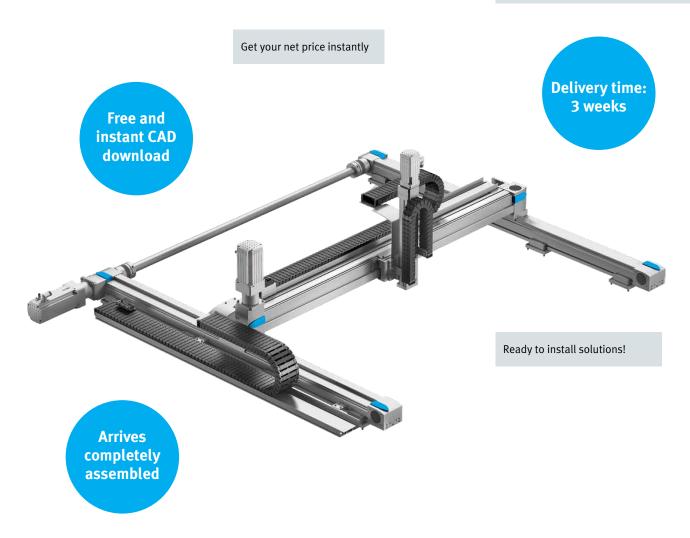
The Handling Guide Online - the fast route to your handling system

The Handling Guide Online is a powerful configuration tool. It minimises your engineering time and effort and guides you to the right solution in record time.

From a concept to a CAD model in 10 minutes



Your unique project number is stored for the future



Festo warranty and technical files:

Each bespoke solution is based on your specific inputs. Each solution is accompanied by a project number specific to your configuration which can be kept for editing later, sent to a colleague or Festo contact. Included in the technical files are axis dimensions, motor characteristics, feed constants, dynamic data and so on.

Your cartesian robot is built up of mechanically and electrically matched parts to achieve your application loads and dynamics.



Scan me to configure a system

Reduce risk with a Festo warranty

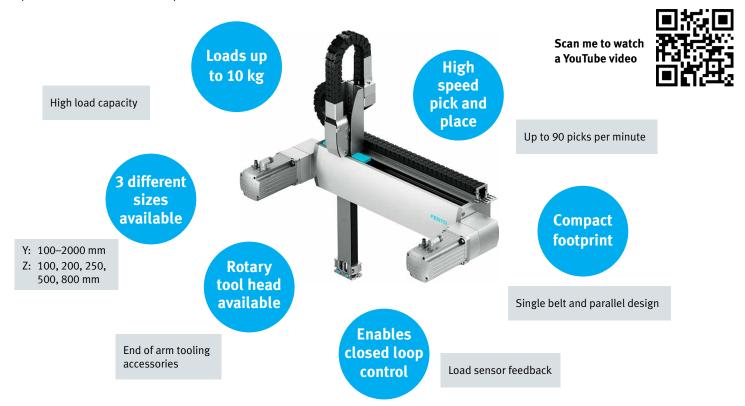
All Set for Automation with IO-Link

Standardised IO-Link technology (IEC 61131-9) makes communication with sensors and actuators simple and economical. Achieves point-to-point connection without complex wiring and with minimal material requirements.



High Speed Pick and Place: EXCT

This cartesian high-speed handling system with robotic functionality has excellent dynamic response with over 90 picks/min and makes optimal use of the installation space.



Servo Press Kit: YJKP

The modular servo press kit YJKP gives you just the software functions you need for your application. You get an extremely precise press-fitting system with a high level of repetition accuracy and an excellent price/performance ratio.



Digital Added Value



Reliable, secure, efficient: Product Key to access the digital twin Find information quickly and without lengthy searches – that is the aim of the Support Portal and Product Key.

Enter it manually or scan it – and the Product Key gives you access to all available information for the product. If the product consists of many individual parts/modules, you will even find everything at a glance!

This enables you to order the spare part immediately. And to register (board) a cloud-enabled product directly in the cloud.

This not only makes all your processes more reliable and secure, it also boosts the efficiency, speed and profitability of your production.

Circuit Diagrams and CAD models



Many solutions can only be envisioned if they can be seen. Whether pneumatic or electrical, we create a circuit diagram for your solution using our simulation tools.

It's time to enjoy the benefits of accessing CAD data

- ✓ 2D/3D CAD interfaces for: AutoCAD®; Autodesk® Inventor™; CATIA® V5; Creo®; Pro/ENGINEER®; NX™; SOLID EDGE®; SolidWorks®
- EPLAN macros simplify and speed up electrical design
- FluidDraw for quickly creating electrical and pneumatic circuit diagrams

Schematic Solutions for EPLAN projects

This circuit diagram service for complete EPLAN projects is unique to Festo. Schematic Solution for EPLAN projects documents your configured solutions in next to no time! Simply enter the order code in App World and receive the complete plan in just a few minutes – error-free and trouble-free. Tedious searching, downloading and assembling of individual parts is a thing of the past.

Your engineering process will be much more efficient since you only need 4 minutes instead of 2 to 8 hours to design your system. This Eplan Schematic Solution Service is already available for complete, individually configured valve terminals and for customerspecific handling systems and control cabinets from Festo.

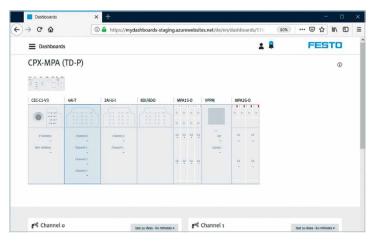
This also applies to the configurable products from the new CMMT range and the range of controllers CPX-E.



Dashboards and Festo Cloud Dashboards

Through the Festo Cloud, Festo products can then also be connected to the Internet of Things (IoT). Whether you're a machine builder or operator, you'll benefit from the easy plugand-play approach, as there is no longer any need for extensive configuration. This dramatically improves the transparency and availability of your automation solutions.

The IoT gateway CPX-IOT enables you to consolidate, analyse and provide important additional data via standardised interfaces. It can detect Festo components and integrate them into the cloud.



- www.festo.com/appworld
- → www.festo.com/getdigitalnow

Smartenance - Mobile digital maintenance management

The digital maintenance manager for production managers and system operators is being launched. Festo Smartenance is one of the first exclusively digital products from Festo. It enables our end customers to schedule, monitor and evaluate system maintenance independently of our components. Smartenance is easy to install, self-explanatory and provides a simple, low-cost introduction to the world of digitalisation.

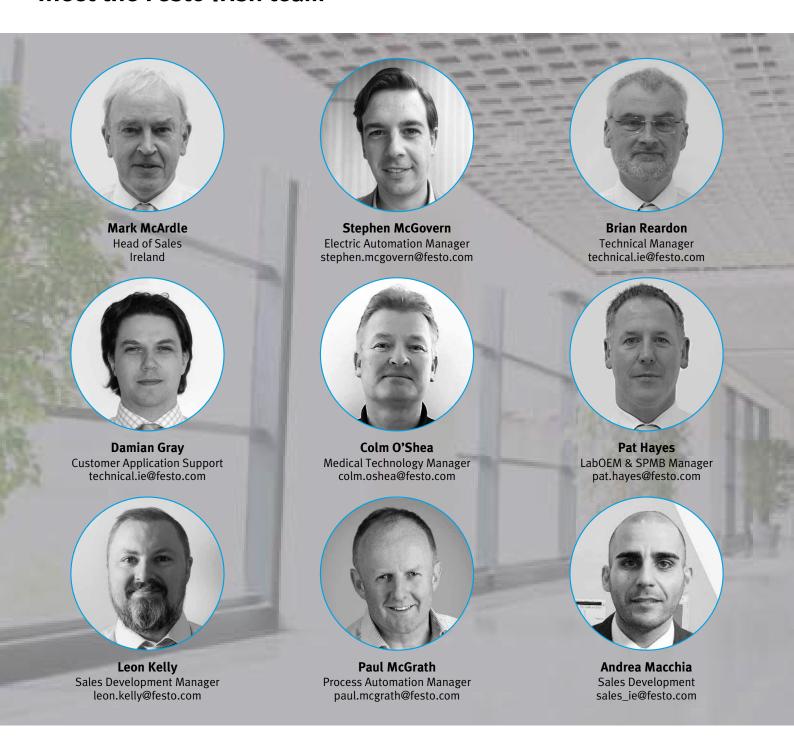
- Mobile, digital maintenance instructions – for system operators
- Maintenance task reminders and feedback – for system operators
- Central evaluation of maintenance tasks – for production managers







Meet the Festo Irish team



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Unit 5 Sandyford Park Sandyford Industrial Estate Dublin D18 VH99 Ireland

Tel ROI: ++353 (01) 2954955 Tel NI: ++44 (0) 1604 667000 Email: sales_ie@festo.com

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www.festo.ie/twitter www.festo.co.uk/linkedin www.festo.com/youtube





