

Commissioning software Festo Automation Suite

FESTO



Ready for operation faster!

Highlights

- Only five steps to get a drive system up and running
- Greatly simplified integration into the control program
- Customisable through device-specific plug-ins and add-ons
- Integrated controller programming
- Access to device information and instructions directly from the software

The PC-based Festo Automation Suite software combines the parameterisation, programming and maintenance of Festo components in one program. It enables the entire drive package, from the mechanical system to the controller, to be commissioned. Perfect for making industrial automation simple, efficient and seamless.

User-friendly as never before

The Festo Automation Suite, which is free of charge, contains the basic functionalities of all Festo components. To customise the software, plug-ins or add-ons can be installed directly via the program. Device information, manuals and application descriptions, too, can be downloaded conveniently from the software without having to open a web browser every time.

This is how intelligent connectivity works

Configuring and parameterising a fully functional drive system becomes child's play. Five steps is all it takes using the commissioning wizard. And with just two clicks the servo drive CMMT-AS is integrated into the controller program of CPX-E. And that's not all: optionally, the CODESYS add-on enables the further programming of motion control and robotics functions of CPX-E.

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Festo Automation Suite makes it easy

The user interface of the new commissioning software has a uniform look across all functions, whether you just need diagnostic information for a valve terminal or you would like to use more complex functions such as the parameterisation of a servo drive or programming in CODESYS.

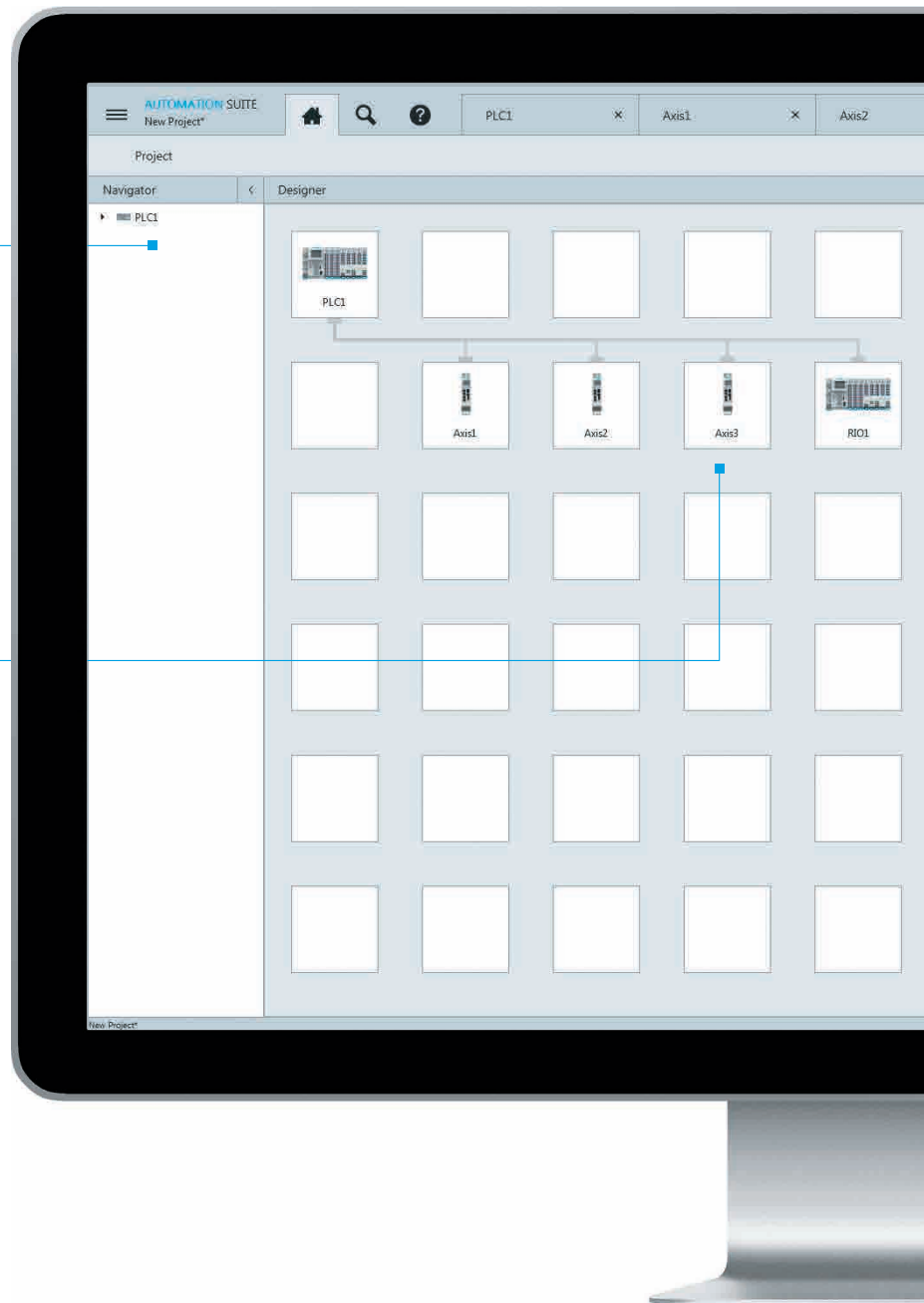
The modular structure of the program is particularly helpful as only the subprograms and plug-ins that are truly needed are installed. You decide how, where and when to install them so that the Festo Automation Suite is always customised to your individual requirements.

Easy-to-use, familiar component display

All components are listed together with their communication relationships in order to show the system hierarchy.

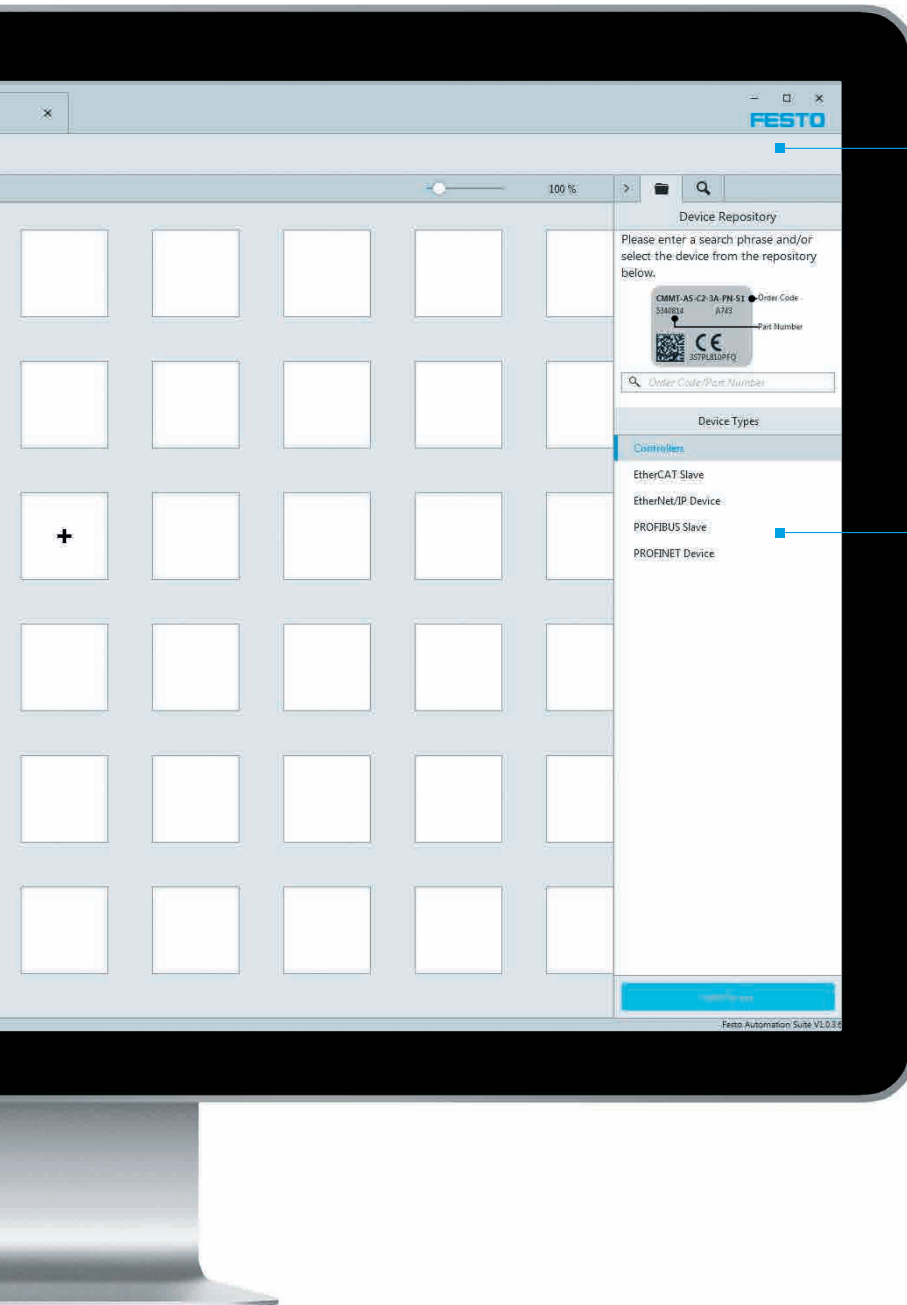
User-oriented design

Festo components for electric and pneumatic systems as well as process automation can be added by dragging and dropping so their communication connections can then be integrated. The individual devices are linked by a line and connected to the controller. In parallel, the software automatically calculates the basic parameters of the stations in the background.





Free download of the software at
→ www.festo.com/AutomationSuite



Navigation similar to a web browser

Component-specific content is shown on tabs as part of the title bar so that you can conveniently jump back and forth between the different contents.

Installing plug-ins

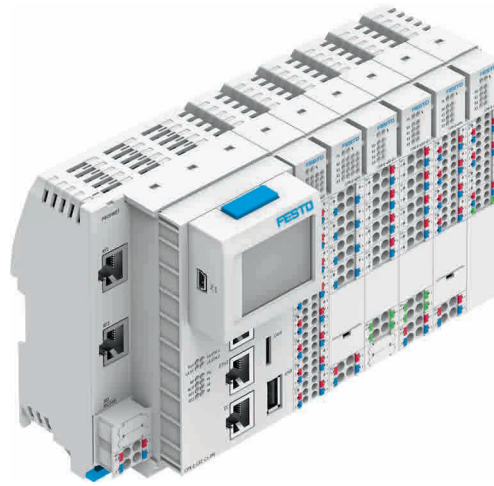
Component-specific add-ons can be easily found by searching using the component's part number or type code. The Festo Automation Suite will automatically find the right plug-in and immediately installs it from the program or by online download.

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Plug-in features of the automation system CPX-E

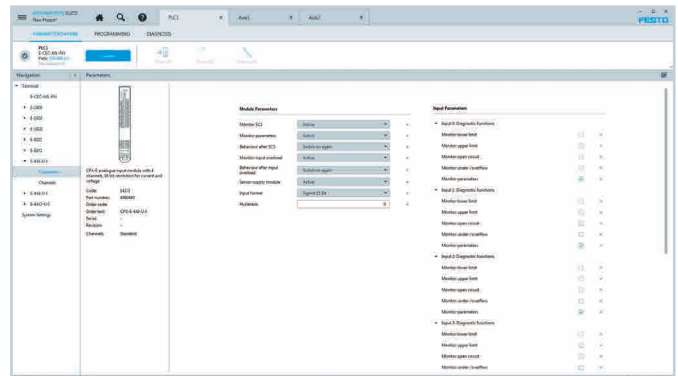
For comprehensive PLC functions and multi-axis applications with interpolation, the automation system CPX-E can be easily integrated into existing host systems via an EtherCAT® master interface. It is used as a

centralised control system for handling technology and as a motion controller in IP20, including a PROFINET device or EtherNet/IP slave interface.



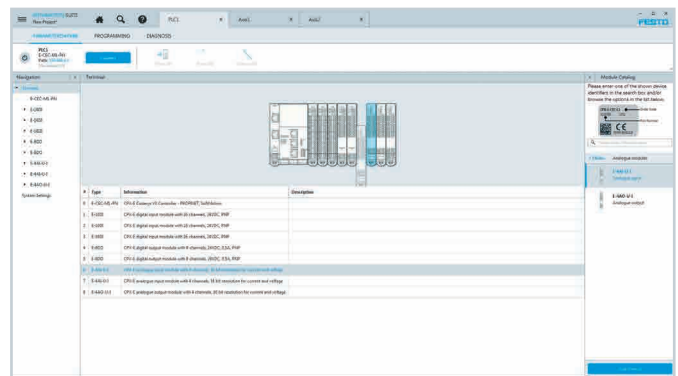
Clearly structured user interface

The tabs located at the top left under the title bar provide access to context-specific functions for parameterisation, diagnostics, control and, if necessary, programming. Since information and windows that are not required are hidden, the maximum screen size is always available to you for the current commissioning phase.



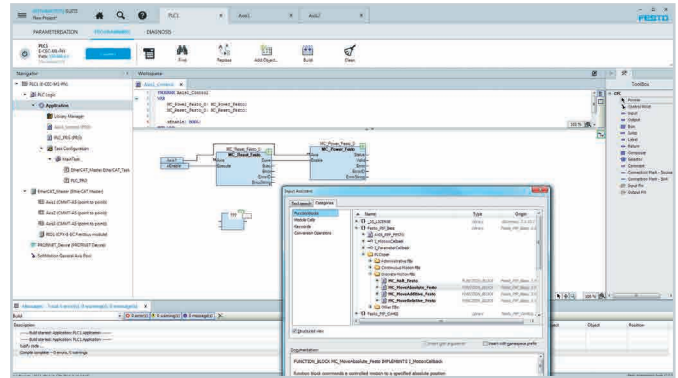
Flexible configuration of the CPX-E terminal

The individual modules of the CPX-E terminal can be configured and parameterised using a graphical user interface, so they can be changed, replaced, added or deleted by dragging and dropping them. Module and channel parameters can also be easily set.



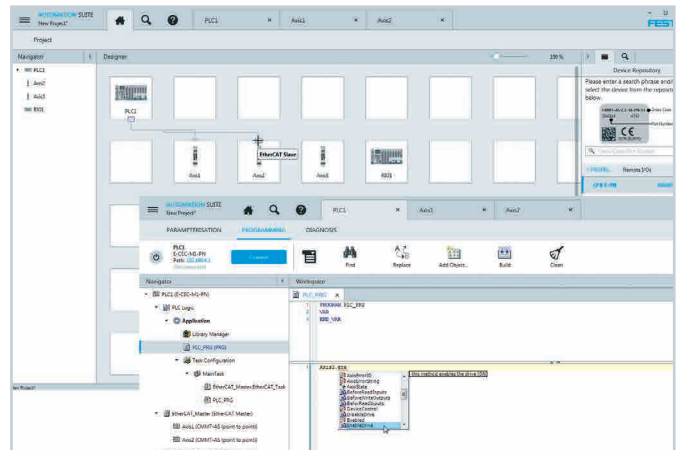
Controller programming with CODESYS

You can download CODESYS as a system add-on. It integrates seamlessly into the user interface of the plug-in and makes the established editors for controller programming according to IEC 61131-3 available: from simple point-to-point motion and SoftMotion applications with cam disc and CNC functions to robotics applications according to PLCopen Part 4.



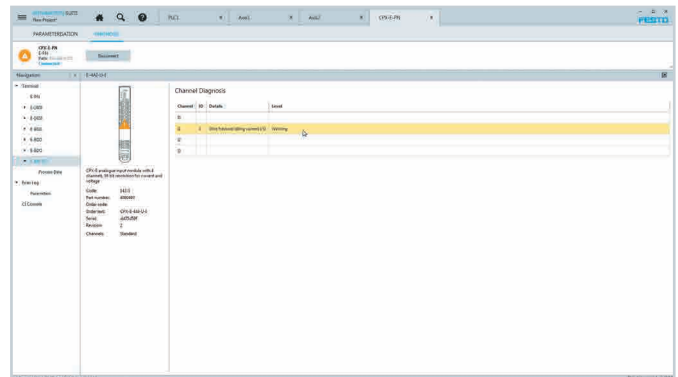
Extremely easy integration of the drive system

Where 100 mouse and keyboard operations were once required, two now suffice. After CMMT-AS has been connected to the controller CPX-E by dragging a line, everything else, from the integration of the necessary libraries and the linking of process data to the transfer of important axis parameters, is carried out automatically. The drive system is immediately ready for use in the controller program. The result is fewer errors and more time for your main task: creating and commissioning the machine process.



Fast and clear diagnostics

The status of any active connection to a Festo component is clearly and understandably displayed in the Festo Automation Suite. Process data can be traced live and any pending diagnostic messages can be seen at a glance. In addition, the saved history allows you to make decisions about potential error causes and subsequent errors.



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Plug-in features of the servo drive CMMT-AS

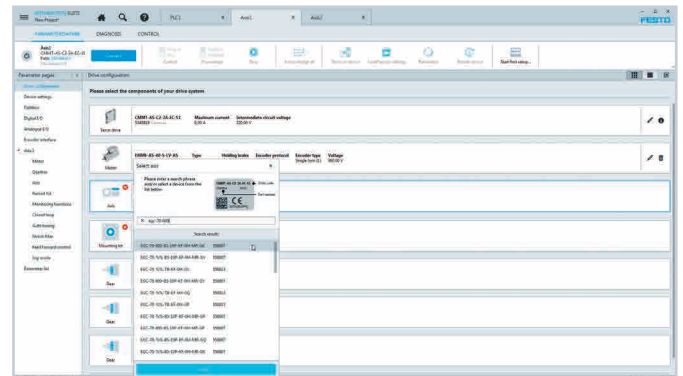
The price- and size-optimised, compact servo drive CMMT-AS is an integral part of the automation platform from Festo. Suitable for point-to-point and interpolating motion, CMMT-AS can be commissioned with the Festo Automation Suite in just a few minutes – with no errors!

The closed-loop controller is suitable for different Ethernet-based bus systems and can be smoothly integrated into the system environments of various manufacturers using the controller-specific function elements that are included.



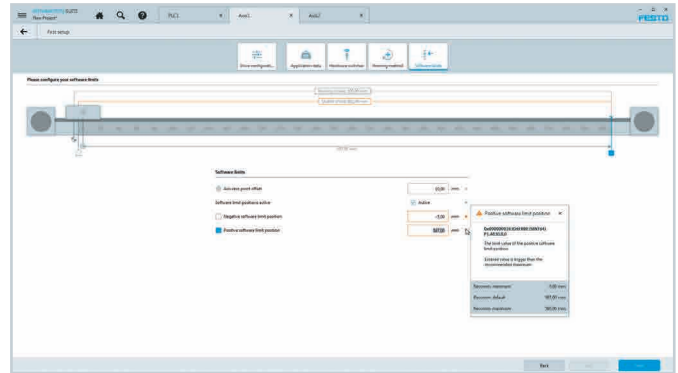
Simple and reliable parameterisation

The parameterisation, diagnostic and control functions can be displayed via the “context area”. The clear parameterisation interface allows you to easily select the required Festo mechanical system using the order information, such as the part number. The program takes care of the correct settings as all the technical data – from the servo drive to the axis – is saved and used to automatically calculate the controller settings. There no longer is a need for complex, manual calculation of the suitable parameter values, which considerably minimises time, effort and sources of error!



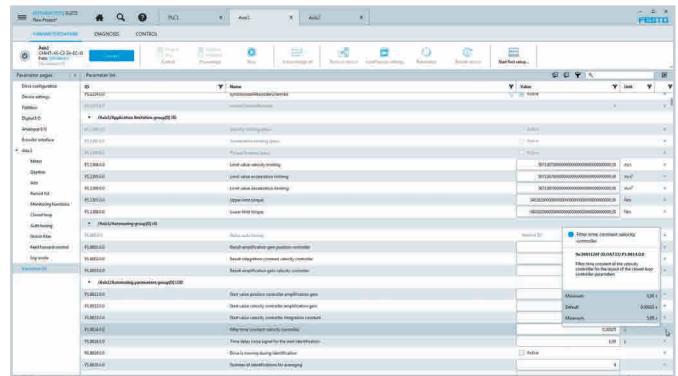
Only five steps to a ready-to-use drive system

A feature that is particularly helpful for new users: by retrieving only those settings that are really needed, the commissioning assistant ensures the drive system is operational quickly, easily and reliably. Select the drive components, set a few parameters, load the device, switch it on – and the drive system works!



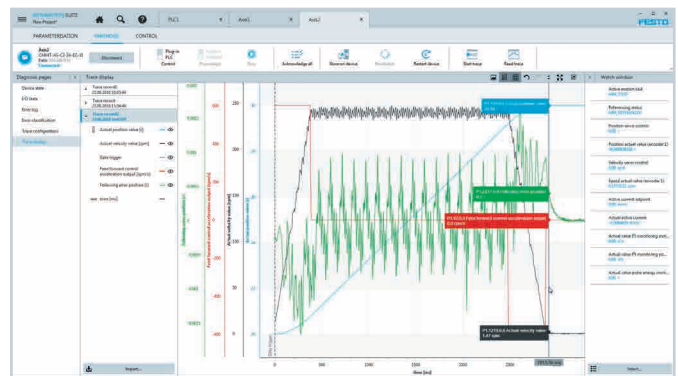
Advanced editing in the expert view

In the expert view, the CMMT-AS plug-in provides access to all device parameters so that advanced optimisations can be made. Even if the installed plug-in is not entirely up to date, the parameters of the new firmware functions are still available. This is because the plug-in automatically adapts to the function range of the firmware at the setup of the connection.



Fast and clear diagnostics

With an active connection to a Festo component, any pending diagnostic messages can be seen at a glance. The message history saved in the device allows you to make decisions about potential error causes and subsequent errors. A special feature is the trace function with which signal curves in the device can be recorded at high frequency and shown graphically. It is an effective way to analyse hard-to-observe events.



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System requirements

Operating system: Windows 7 or higher, 32 or 64 bits
Main memory: at least 4 GB
Hard disk space: at least 5 GB available
Screen resolution: at least 1024x768 (1600x900 or higher recommended)
Graphics card: DirectX support recommended

Software available for free at

→ www.festo.com/net/SupportPortal
→ www.festo.com/AutomationSuite

Save time with software tools from Festo

In addition to the Festo Automation Suite, Festo provides other, continuously developed software tools across the entire value chain. The highlights include:

Conceptualise with PositioningDrives

Our engineering software PositioningDrives supports and guides you throughout the selection and project planning of your axes and mechanical drives, i.e. motors and servo drives. This makes it significantly easier for you to find the right mechatronic drive solution – all without design mistakes and with improved system energy efficiency. In future, it will also be possible to import this design data directly into Festo Automation Suite.

Design with the Handling Guide Online

The Handling Guide Online is a configuration and ordering platform in one and is integrated in our online product catalogue. This unique online engineering tool helps you to configure and order your standard handling system. It cuts your engineering time and effort to a minimum and guides you to the right handling system in record time.



→ www.festo.com/net/PositioningDrives



→ www.festo.com/handling-guide