Intelligent automation with electric and pneumatic components

FESTO

Management level

Control system

Control level
Controller

PLC (ABB, Rockwell, Siemens, Beckhoff Mitsubishi, Omron, etc.)

Integrated CODESYS control With OPC UA CPX-CEC V3.0

IoT gateway CPX-IOT

Modular controller CPX-E-CEC

Motion control and robotics controller CPX-E-CEC-M1

Controller CECC

Integrated controller Operator unit CDPX

Manual operation unit CDSA

Smartenance

AX = Automation eXperience

Operation Visualisation

CPX web server

Front end displays

Festo App World Motion Apps for VTEM

Diagnostics

CPX web server

Diagnostics and preprocessing

Field device control

Festo Automation Suite

Regulator (controller)

Electrical installation concepts
- Centralised
- Decentralised
- Hybrid

Installation systems CTEU, IO-Link®, I-Port

Stand-alone units on site

Motion Terminal VTEM

Position controllers CPX-CMAX

End-position controllers CPX-CMPX/ CPX-CMIX

Servo drives and motor controllers CMMT-AS, CMMT-ST, CMMP-AS

Integrated drives EMCA

Field level

Control

Valves

Decentralised valve terminals

Proportional valves

Centralised valve terminals

Proportional valve VPWP

Servo motors and stepper motors (low-voltage motors) EMMT-AS, EMME-AS, EMMB-AS, EMMS-ST

Drives

Standards-based cylinder DSBC, DSBF, DSBG

Compact/short-stroke cylinders ADN, ADN-S

Round cylinders DSNU, DSNU-S, CRDSNU

Mini slides DGST, DGSC

Guided drives DFM

Rodless drives DGC, DLGF

Remote I/O system CPX-AP-I Fieldbus module, IO-Link master, 8DI, 4DI/4DO, 4AI, 4DI

Linear drives with displacement encoder DNCI, DGCI, DDPC, DDLI

Swivel modules with displacement encoder DSMI-B

Gantry axes EGC-TB, EGC-BS, EGC-TB-HD, EGC-BS-HD, ELGA-TB-KF/RF/G, ELGA-BS-KF, ELGC-TB, ELGC-BS, ELGR, ELGG, EGSK, ELGT

Slides EGSL, EGSC

Cantilever axes ELCC

Electric cylinders EPCO, ESBF, EPCC

Rotary modules ERMO, ERMB

Grippers EHPS

Rotary lifting modules EHMB

Stoppers EFSD

Rotary gripper module EHMD

Simplified Motion Series ELGS-BS, ELGS-TB, EGSS, EPCS, EPCE, ELGE-TB, ERMS

Pneumatic | **Servo-pneumatic** | **Electric**

Front unit

Vacuum Suction grippers, Vacuum generators

Pneumatic semi-rotary drives

Pneumatic grippers Parallel grippers, Three-point grippers, Sealed grippers, Angle and radial grippers, Micro grippers, Bellows grippers, Adaptive shape grippers, Swivel/gripper units, Gripper fingers, Electrical Gripper

Sensors

Sensors Position, Object, Distance, Paint, Pressure, Flow rate, Signal converter

Integrated sensors and condition monitoring

Compressed air supply, accessories

Air preparation Regulators, Filters, Lubricators, Valves, Air dryers, (Differential) pressure, Flow rate, Pressure booster

Connection technology, pneumatic Plastic tubing, Transparent tubing, Fittings, Couplings

Electric Connecting cables, Connectors

Application-specific solutions

Standard systems

Handling systems Single-axis systems, Linear gantries, Planar surface gantries, Three-dimensional gantries, Cantilever systems

Ready-to-install solutions Compact handling system YXMx, Servo press kit YJKP, Balancer kit YHBP, Mounting plate, Control cabinets

Customer-specific products

PrePack, Modifications, New developments, Modules, Integrated solution

Software

EtherNet: PROFINET, EtherNet/IP, EtherCAT, POWERLINK, sercos, Modbus

Fieldbus: PROFIBUS, INTERBUS, DeviceNet, CANopen, CC-Link

IO-Link: IO-Link, HART

Engineering tools

Product Finder

Quick Search Plus
Pneumatic
Pneumatic Simulation
Electric Motion Sizing
Solution Finder
Engineering and calculation tools for electric drives

Festo Design Tool 3D

PARTdata Manager
With CAD plug-ins

FluidDraw P6

EPLAN Schematic Solution

Festo automation Suite
Commissioning software

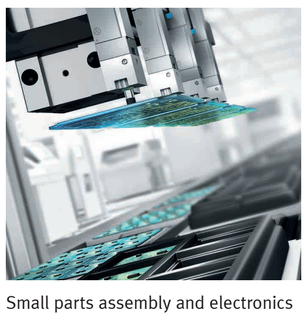
Festo Configuration Tool

Handling Guide Online

CODESYS
With OPC UA for Industry 4.0, FTL Motion Control Solutions for Handling Systems

Software tools / services

Industry-specific solutions


Small parts assembly and electronics

Automotive and Tier 1 supplier industry

Food and beverage

End line packaging

Biotech, pharma and cosmetics industry

Water technology

Machine tool industry

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