

Management level

Management system

Higher-order control

PLC: ABB, Rockwell, Siemens, Beckhoff, Mitsubishi, Omron, etc.

IoT gateway: CPX-IOT

Modular controller: CPX-E-CEC

Motion controller, robotics controller: CPX-E-CEC-M1

Controller: CECC

Operator unit: CDPX

Manual operator unit: CDSA

Festo Smartenance

Festo AX Automation eXperience

Operation

Visualisation

CPX web server

Front end displays: CDSB-A1

Festo App World Motion Apps for VTEM

Diagnostics

Diagnosics and pre-processing

Field device control

Festo Automation Suite

Lower-level control

Installation concepts: Centralised, decentralised or hybrid

Installation systems: CPX-AP-A, CTEU, IO-Link®, I-Port

Autonomous units on site: e.g. valve terminals VTUX, MPA, VISA with CPX-AP-A

Motion Terminal: VTEM

Position controller: CPX-CMAX

End-position controller: CPX-CMPX/...-CMIX

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

Actuation

Valves

Decentralised valve terminals via CPX-AP-I

Centralised valve terminals

Proportional valves

Highly flexible remote IO system

Proportional valve: VPWP, MPYE

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

Gear unit: EMGA

Drives

Pneumatic

Standards-based cylinders: DSBC, DSBF, DSBG

Compact/short-stroke cylinders: ADN, ADN-S, DPPM

Round cylinders: DSNU, DSNU-S, CRDSNU

Mini slides: DGST

Guided drives: DFM, DGSS, DGSL

Rodless drives: DGC, DLGF

Pneumatic semi-rotary drives: DRRS, DRVS, DRRD

Remote I/O system: CPX-AP-I

Fieldbus module: EtherCAT®, Ethernet, PROFIBUS

IO-Link Master

Digital input module: 4DI

Digital input module: 8DI

Digital input/output module: 4DI/4DO

Analogue input module: 4AI

Servo-pneumatic

Drives with displacement encoder: Standards-based cylinders with displacement encoder (DNCI, DGCI, DDPC), Linear drive with displacement encoder (DGLI, DDLI), Standards-based cylinder with displacement encoder (DDPC), Linear drive with displacement encoder (DDLI), Semi-rotary drive with angular displacement encoder (DSMI)

Electric

Gantry axes: Toothed belt axes (EGC-TB, ELGD-TB, ELGA-TB-KF/...-RF/...-G, ELGC-TB, ELGR-TB, EGC-TB-HD, ELGG), Ball screw axes (EGC-BS, ELGD-BS, ELGA-BS-KF, ELGC-BS, ELGT-BS, EGC-BS-HD), Slide (EGSL, EGSC-BS, ELCC), Rotary modules (ERMO, ERMB, EHPS, HEPP, EMB, EMBD, EMD, EMDM, EMDM), Simplified Motion Series: Toothed belt axis (ELGS-BS), Ball screw axis (ELGS-TB), Mini slide (EGSS), Electric cylinder unit (EPCS, EPCE-TB), Rotary drive unit (ERMS), Electric gripper (EHPS), Stopper (EFSD)

Front unit

Vacuum...: Suction cups (VASB, ESG), Vacuum generators (OVEM, OVEL)

Pneumatic grippers: Parallel grippers (DHPC, DHPS, DHPL, DHDS, HGDT), Three-point grippers (HGPD, HGDD), Sealed grippers (DHWS, DHRC, HGRT), Angle and radial grippers (HGPM), Micro gripper (DHEB), Bellows gripper (DHEF), Adaptive shape gripper (DHEF), Swivel/gripper units (HGDS), Adaptive gripper fingers (HGPL with DHAS), Electric grippers (EHPS)

Sensor technology

Sensors: Position (SMT-8M-A), Object (SIED), Distance (SOE), Colour (SOEC), Pressure (SPAU, SPAN), Flow rate (SFAH), Signal converter (SCDN)

Integrated sensors and condition monitoring: Proportional pressure regulators (VPPM), Compressed air preparation with sensors (MSB4, MSB6), Energy efficiency modules (MSE6)

Compressed air supply

Accessories: Compressed air preparation (Regulators: MS-LR, MS-LR-B; Filters/Filter regulators: MS-LF, MS-LF-B, MS-LFR, MS-LFR-B; Lubricators: MS-LOE; Valves: MS-EE-B; Air dryers: LDM1, PDAD; Pressure sensor: MS4-LR, MS6-LR; Flow sensor: SFAM; Pressure booster: DPA), Pneumatic connection technology (Pneumatic tubing: PUN-H, PUN-H-SF; Functional screw connections: VF0E, HGL; Function combinations: VF0F, VBNF), Electrical connection technology (Fittings: QS, QSM, NPQE; Connecting cables: NEBA, NEBU, NEBC; Connectors: NECB, SEA)

Standard systems

Handling systems: Single-axis systems (YXCS), Linear gantries (YXCL), EXCT, YXML, Planar surface gantries (EXCH, EXCM, YXCF, YXMF), Three-dimensional gantries (EXCL, YXCR, YXMR), Cantilever systems (YXCA), Transport system (MCS®)

Ready-to-install solutions: Compact handling system (YXMx), Servo press kit (YJKP), Balancer kit (YHBP)

Customised solutions

PrePack, Product modifications, New developments, Modules, Integrated solution, Mounting plates, Control cabinets

Ethernet

ETHERNET/IP

EtherCAT

POWERLINK

SERCOS

Modbus

Fieldbus

PROFIBUS

InterBus

DeviceNet

CANopen

CC-Link

IO-Link®

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 solution for handling systems

Software tools / services

Industry segments

Automotive industry, Machine tools, Food processing and packaging, Textile industry, Electronics industry, Process industry, Biotech, pharma and cosmetics, Mining and metal industry, Water technology, Intra logistics, Chemical industry, Woodworking industry, Life science

SIL certified

www.festo.com

135324 en 2024/04

Errors and omissions excepted