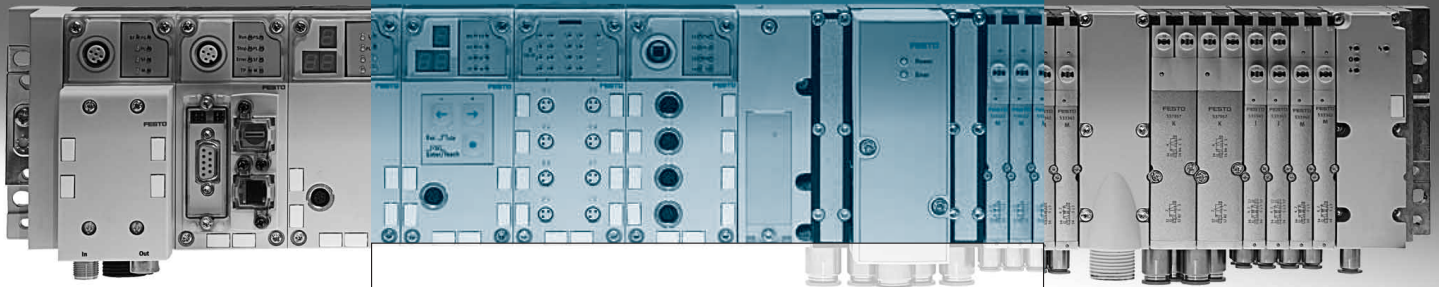


CMAX servo-pneumatic positioning module for CPX terminals

FESTO



The world's first!

Unique: the new CMAX positioning module. Designed for the simple servo-pneumatic control of various pneumatic drive families, linear or rotational. CMAX – a position controller as a module on CPX valve terminals.

Universal

Positioning technology using servo-pneumatics is particularly useful when compact and cost-effective solutions for moving loads typically in excess of 10 kg are required and accuracy within a few tenths of a millimetre is sufficient.

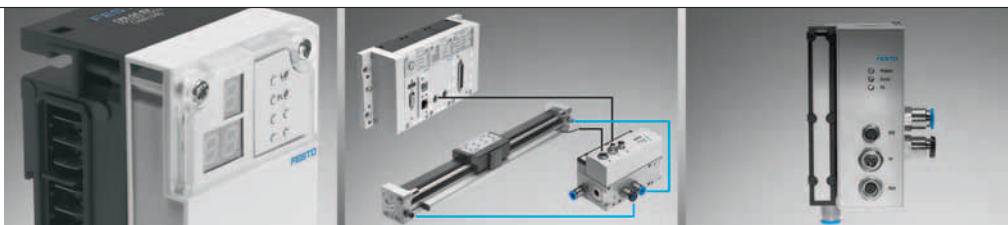
Automatically faster

The FCT CMAX plug-in is a software tool for simple, clear commissioning, configuration, optimisation and diagnostics. The auto-identification function enables the

connected system components to be correctly detected and linked to the configuration data, so that almost any control system can be the basis for faster, easier commissioning.

Greater dynamics, strength and flexibility

CMAX delivers positioning speeds of up to 3 m/s, acceleration values up to 30 m/s² with an accuracy of $\geq \pm 0.2$ mm and all with loads ranging from 1 kg to 300 kg.



Powerful

Economical

Reliable

210.20.PSI →

Product Short Information

CMAX servo-pneumatic positioning module for CPX terminals

The CMAX position controller as a module on CPX valve terminals – your choice of a one- or two-axis module. Pneumatic drives can be positioned to ± 0.2 mm and/or their force regulated to ± 5 %.



Servo-pneumatic positioning applications

Servo-pneumatics – a technology with its own areas of application. It facilitates innovative and cost-effective drive solutions.

The freely positionable feature of servo-pneumatics is particularly useful when compact and cost-effective solutions for moving loads typically in excess of 10 kg are required and accuracy within a few tenths of a millimetre is sufficient.

Our rule of thumb: the heavier the load to be moved, the higher the overall cost-effectiveness of a servo-pneumatic solution – without at the same time, compromising a loss in dynamic response.

CMAX positioning module – the advantages at work

A combination of accuracy and force

In mirror welding, for example. Where plastic components have to be accurately positioned in front of the heating plate and pressed down with a specific force and welded. A highly dynamic process.

Continually changing position and force values

Your process can have frequently changing positions or force values. Using the Festo-defined FHPP (Festo handling and positioning profile), you can easily transfer them to the fieldbus.

Uniform movement

In metering technology: filling cartons with food, for example a fruit yoghurt with a layer of cream on top. A low, uniform speed is required here and the piston stroke has to be accurate otherwise the yoghurt will be without the cream! This is an ideal job for servo-pneumatics. The CMAX position controller tames the force simply, with great flexibility and an unbeatable cost/benefit ratio.

Technical data

Moving mass	horizontal [kg]	1 - 300
	vertical [kg]	1 - 100
Regulated force at 6 bar	[N]	10 - 2400
Positioning accuracy	[mm]	$\geq \pm 0.2$
Positioning speed	[m/s] max. 3	
Acceleration	[m/s ²] max. 30	

Key features

Enables positioning and force regulation
Activation via all fieldbuses available in the CPX and the FEC front-end controller
<ul style="list-style-type: none"> Linear drives DGCI \varnothing 18 to 63 mm Piston-rod drives DNC/DNCI \varnothing 32 to 80 mm Semi-rotary drives DSMI \varnothing 25 and 40 mm
Brake activation as an integral part of the system
Auto-identification: all connected system components are automatically detected
64 configurable positioning sets started via fieldbus or direct entry of all positioning set contents
Commissioning using the Festo FCT configuration tool or OEM-friendly via fieldbus

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