

SMC- series



SMC corvus

- + 2 or 3 Axes Microstep- Controller System
- + High- Resolution- Microstep
- + 48 V bus- voltage
- + 133 MHz RISC Processor, with Flash- Memory
- + Velocity- range $<0.1 \mu\text{m/ s} \dots 45 \text{ rev/ s}$ (200 step motor)
- + Closed- loop for quadrature encoders (RS-422)
- + Closed- loop for sin- cos encoders (1Vpp)
- + Linear Interpolation of all axes
- + Linear & \sin^2 acceleration
- + Position- Compare output 2 kHz
- + Position- Capture (up to 1000 3 axes coordinates)
- + Joystick input
- + Serial interface RS-232 115KBaud
- + Ethernet Interface 10Base TCP/ IP
- + GPIB (IEEE-488) interface
- + Venus-1 compatible string- based command language

Our SMC family is based on modern 32 bit technology which enables performances of stepper motor driven systems which haven't been possible before. A so called \sin^2 acceleration offers very smooth acceleration and deceleration of the motors so that positioning in the nanometer range is possible with highest performance. One of the big advantages of our SMC- controllers is the possibility to drive the stages with extreme high resolution.

Specifications

SMC corvus	
Axes	2 or 3 Axes 2 phase stepper- motors
Computer Interface	RS-232 up to 115200 Baud
Supply Voltage	90-250 VAC 50-60 Hz
Cooler	integrated
Power Configuration	Destop 50W standard, max. 100 W 2/3 axes 19" 2HE rackmount, max. 240 W 2/3 axes 19" 2HE rackmount, max. 500 W 2/3 axes
Limit Switches	2 per axis software configurable
Trajectory mode	linear interpolation
Velocity range	<0.1 $\mu\text{m/s}$... 45 rev/ s (200 step motor)
Program & Param.	Flash Memory
Diagnostics	LED at the front with 2 user LED's acoustic messages with integr. buzzer
Amplifier	48 V bipolar 2 Phase with short- circuit & temperture protection
Phase- current	max. 2.5 - 3 A
Housing	Desktop HxWxD 70 mm x 240 mm x 305 mm
Software Interface	Windows Demoprogram WINPOS- light , DLL's, demo applications (C/ Delphi/ VB) LabVIEW™ VI's and Demoapplication

Order Information

71709001

2 Axes SMC corvus Microstep- Controller 48 V 50 W with RS 232

7170-9-003

2 Axes SMC corvus Microstep- Controller 48 V 50 W with RS 232 & Ethernet TCP/ IP

71709002

3 Axes SMC corvus Microstep- Controller 48 V 50 W with RS 232

71709004

3 Axes SMC corvus Microstep- Controller 48 V 50 W with RS 232 & Ethernet TCP/ IP

Possible Accessories

71709101

Power- Amplifier 100 W (Desktop/2HE/3HE)

71709102

Power- Amplifier 150 W (Desktop/2HE/3HE)

71709103

Power- Amplifier 240 W (Desktop/2HE/3HE)

71709104

Power- Amplifier 500 W (3HE)

71709121

19" 84TE Rackmount 2HE

71709122

19" 84TE Rackmount 3HE

71709115

Closed Loop for quadrature encoders RS422 per axis

71709116

Closed Loop for sin/ cos 1Vpp signals for interpolation 12- Bit per Sxis

71709106

Joystick with 2 Axes

71709107

Joystick with 3 Axes

71709108

Joystick with 10 Key- Touch- Display 2 Axes

71709109

Joystick with 10 Key- Touch- Display 3 Axes

71709110

Hand- Wheel with 3 Axes Selector

71709112

Digital I/O 3x Inputs (5-12 V) and 3x Outputs (5-12 V) with Position Compare Trigger- Output and Position Capture Functionality

71709118

StPCor Staic Position- Correction (incl. Stage Measurement) per Axis

71709123

SMC corvus GPIB Interface (IEEE-488)

71709124

Winpos Full Version Software

71709125

Brake Logic for One Axis and Power- Output (24V 0.4A)

71709128

Emergency Stop Button with Interface and Cable l=3m

