

SMC- series



SMC corvus eco

- + 2 or 3 Axes Microstep- Controller System
- + High- Resolution- Microstep
- + 24 V bus - voltage
- + 133 MHz RISC Processor with Flash - Memory
- + Velocity- range $<0.1 \mu\text{m/s} \dots 15 \text{ rev/s}$ (standard)
 25 rev/s (with speed upgrade)
- + Closed - loop for quadrature encoders (RS-422) and sin- cos encoders (1Vpp)
- + Linear Interpolation of all axes
- + Linear & sin² acceleration
- + Position- Compare Output $\approx 2 \text{ kHz}$
- + Position- Capture (up to 1000 3 axes coordinates)
- + Joystick input or integrated
- + Serial interface RS-232 115 kBaud
- + 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 eco	
Axes	2 or 3 Axes 2 phase stepper- motors
Computer Interface	RS-232 up to 115200 Baud & USB interface
Supply Voltage	90-250 VAC 50-60 Hz
Power Supply	Desktop 24 VDC 40 W
Limit Switches	2 per axis software configurable
Trajectory mode	linear interpolation
Velocity range	$<0.1 \mu\text{m/s} \dots 15 \text{ rev/s}$ (200 step motor) (standard) $<0.1 \mu\text{m/s} \dots 25 \text{ rev/s}$ (200 step motor) (speed upgrade)
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. 1.5 A
Housing	Desktop HxWxD 65 mm x 225 mm x 216 mm
Software Interface	Windows Demoprogram WINPOS- light, DLL's, demo applications (C/ Delphi/ VB) LabVIEW™ VI's and Demoapplication

Order Information**71709006**

2 Axes SMC corvus- eco Microstep- Controller

71709007

3 Axes SMC corvus- eco Microstep- Controller

71709008

2 Axes SMC corvus- eco Microstep- Controller & Integrated Joystick

71709009

3 Axes SMC corvus- eco Microstep- Controller & Integrated Joystick

Possible Accessories**71709204**

Speed Upgrade max. Speed 25 rev/ s (200 Step Motor)

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

71709203

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

71709124

Winpos Full Version Software

71709128

Emergency Stop Button with Interface and Cable l=3m

