

# MICOS

MOTION CONTROL & OPTICS **USA**

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◀ 5.012 ▶ **SMC-series SMC corvus**

Controllers



SMC corvus desktop



SMC corvus 19"

### Key features

- 2 or 3 Axes Microstep-Controller System
- High-Resolution-Microstep
- 48 V bus-voltage
- 133 MHz RISC Processor, with Flash-Memory
- Velocity-range <math><0.1 \mu\text{m/s}</math> with 1 mm pitch
- Linear Interpolation of all axes
- Linear&sin2 acceleration
- Serial Interface RS-232 115 KBaud
- Ethernet Interface 10Base TCP/IP
- GPIB (IEEE-488) interface
- Venus-1 compatible string-based command-language
- Windows TM User-Interface
- LED-Diagnostics on frontpanel
- Integrated buzzer for sound-messages
- Touch-Display internal
- 2/3 Axes Joystick with/without Touch-Display
- Closed-Loop Mode RS422/1Vss 50000 x interpolator
- Digital I/O
- Trigger-Output
- Position-correction static / real-time 2D
- Temperature-sensor input
- 90-250 V (AC) input voltage (worldwide)

### Technical data

Axes	2 or 3 Axes 2 phase stepper-motors
Computer-Interface	RS-232 upto 115200 Baud

Supply Voltage	90-250 VAC 50-60 Hz
Cooler	integrated, error message to controller
Power-Configuration	Desktop 50 W standard, max. 100 W 2/3 axes 19" 2HE rackmount, max. 240 W 2/3 axe 19" 3HE rackmount, max. 500 W 2/3 axe
Limit-Switches	2 per axis software configurable
Trajectory mode	linear interpolation
Velocity range	<0.1 µm/s .. 37 rev/s (200 step motor )
Program&Parameter	Flash-Memory
Diagnostics	LED at the front with 2 user LED`s acoustic messages with integrated buzzer
Amplifier	48V, with short-circuit & temperature protection
Phase-current:	max. 2,5 - 3A
Housing	Desktop HxWxD 70x240x305 mm
<b>Description, please looking on page 5.010</b>	


MOTION CONTROL Systems Positioners MiniPos DirectDrives Controllers ManPos Accessories Vacuum MAC PhotonX M A C

#### SMC corvus Ordering information

SMC corvus		Order-No.
2 axes SMC corvus	Microstep-Controller 48 V 50 W with RS 232	7170-9-001
3 axes SMC corvus NET	Microstep-Controller 48 V 50 W with RS 232 and Ethernet TCP/IP	7170-9-003
3 axes SMC corvus	Microstep-Controller 48 V 50 W with RS 232	7170-9-002
3 axes SMC corvus NET	Microstep-Controller 48 V 50 W with RS 232 and Ethernet TCP/IP	7170-9-004

SMC corvus-options		Order-No.
Power-Amplifier	Power-Amplifier 100 W (desktop/HE/3HE)	7170-9-101
	Power-Amplifier 150 W (2HE/3HE)	7170-9-102
	Power-Amplifier 240 W (2HE/3HE)	7170-9-103
	Power-Amplifier 500 W (3HE)	7170-9-104
19" 84TE Rackmount	19" 2HE 121	7170-9-121
	19" 3HE 122	7170-9-122
Closed Loop	For quadrature encoders RS422	7170-9-115
	For sin/cos 1 Vpp signals with interpolation 50000 x	7170-9-116
Joystick	Joystick with 2 axes	7170-9-106
	Joystick with 3 axes	7170-9-107
	TDisp Joystick with 10 Key-Touch-Display 2 axes	7170-9-108
	TDisp Joystick with 10 Key-Touch-Display 3 axes	7170-9-109

Hand-Wheel	Hand-Wheel with 3 axes selector and 10 Key-Touch-Display	7170-9-110
TDisp-Int	10 Key-Touch-Display 2/3 axes integrated	7170-9-111
Digital I/O	Digital I/O 3 x Inputs ( 5- 24V) 3 x Outputs (5- 24V)	7170-9-112
Trigger-Out	Trigger-Out function 100 kHz	7170-9-117
StPCor	Static position-correction	7170-9-118
RtPCor	Real-Time 2 axes position-correction	7170-9-119
Temp	Input for digital temperature sensor	7170-9-120
SMC corvus GPIB	GPIB (IEEE-488) interface	7170-9-123
Winpos	Full version Software	7170-9-124
Brake Logic	Brake Logic for one axis	7170-9-125

Founded in 1990, MICOS specializes in the development, manufacturing and marketing of ultra-high precision positioning components and systems for research and industry. We are experts in vacuum, ultra-high vacuum, clean room, and extreme climate environments down to 77 Kelvin. 

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