

## SMC- series



### SMC pollux

- + Single- axis Microstep- Controller System
- + Stand- alone- system or with integrated 2- Phase stepper motor
- + High Resolution- Microstep
- + Up to 16 S C pollux can be combined with only one RS232 interface
- + DSP Controller Type
- + Velocity- range  $<0.1 \mu\text{m/s} \dots 40 \text{ rev/s}$  (200 step motor)
- + Serial interface RS-232 115 kBaud
- + Venus-2 compatible string- based command language
- + Windows™ User- Interface
- + 24 VDC power supply (external)
- + Synchron motion start commands
- + Speed Mode
- + Closed - loop 1 Vpp interface, optional for NT series
- + Mixed configurations (open loop / closed loop) possible with NT series
- + LabVIEW™ VI's
- + Windows DLL and Open- Source project available
- + 3 types with different torques / velocities available

Our SMC family is based on modern 32bit 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 pollux
Axes	1 axis, 2 phase stepper- motors
Computer Interface	RS-232 19200 Baud
Supply Voltage	24 VDC
Phase Currents	$\leq 1.2 \text{ A/ phase}$
Limit Switches	2 per axis software configurable
Trajectory mode	linear interpolation
Velocity range	for 200 step motor $< 0.1 \mu\text{m/s} \dots 13 \text{ rev/s}$ TYPE I $< 0.1 \mu\text{m/s} \dots 25 \text{ rev/s}$ TYPE II $< 0.1 \mu\text{m/s} \dots 40 \text{ rev/s}$ TYPE III

Max. Resolution	300 000 positions/ rev.
Max. linear resolut.	1 nm
Program & Param.	Flash Memory
Amplifier	48 V bipolar 2 Phase with short- circuit & temperture protection
Motor torque	16 Ncm TYPE I
Version	26 Ncm TYPE II
SMC pollux	32 Ncm TYPE III
motor & controller	100 Ncm TYPE II HT
Housing	SMC pollux Box (Desktop) HxWxD 48x56x97 mm SMC pollux motor & controller HxWxD 48x56x117mm 19" Cassis SMC pollux integr. Box: 3HE 84TE Chassis with 90..230 VAC
Weight	0.216 kg (single axis)
Software Interface	Windows Demoprogram WINPOS- light , DLL's, demo applications (C/ Delphi/ VB) LabVIEW™ VI's and Demoapplication

## Order Information

### 71609511

SMC- Series SMC pollux, Pollux Box Controller Type I

### 71609512

SMC- Serie SMC pollux, Pollux Box Controller Typ II

### 71609514

SMC- Series SMC pollux, Pollux Box Controller Type I CL (Closed Loop)

### 71609515

SMC- Series SMC pollux, Pollux Box Controller Type II CL (Closed Loop)

### 71609518

SMC- Series SMC pollux, Pollux Box Controller Type I OEM (Open Frame)

### 71609519

SMC- Series SMC pollux, Pollux Box Controller NT- Type I OEM

### 71609501

SMC- Series SMC pollux, Pollux Motor & Controller Type I (160 mNm)

### 71609502

SMC- Series SMC pollux, Pollux Motor & Controller Type II (160 mNm)

### 71609503

SMC- Series SMC pollux, Pollux Motor & Controller Type III (360 mNm)

### 71609504

SMC- Series SMC pollux, Pollux Motor & Controller Type II HT (High Torque 900 mNm)

### 71609557

SMC- Series SMC pollux, Pollux Multiaxis Desktop Pollux 6 Axes

### 71609558

SMC- Series SMC pollux, Pollux Multiaxis Desktop Pollux 3 Axes Desktop TCP/ IP

### 71609559

SMC- Series SMC pollux, Pollux Multiaxis Desktop Pollux 4 Axes Desktop TCP/ IP

## Possible Accessories

### 71609524

Daisy- Chain Power RJ45- RJ45, 0.5 Meter Lenth to Combine 2 SMC pollux Controller

### 71609523

Daisy- Chain Power RJ45- RJ45, 1.0 Meter Lenth to Combine 2 SMC pollux Controller

### 71609521

Daisy- Chain Power RJ45- RJ45, 2.0 Meter Lenth to Combine 2 SMC pollux Controller

### 71609528

Daisy- Chain RJ45- RJ45, 0.5 Meter Lenth to Combine 2 SMC pollux Controller

### 71609527

Daisy- Chain RJ45- RJ45, 1.0 Meter Lenth to Combine 2 SMC pollux Controller

### 71609526

Daisy- Chain RJ45- RJ45, 2.0 Meter Lenth to Combine 2 SMC pollux Controller

### 71609520

RS-232 RJ45- DSub9, 2.0 Meter Lenth for PC- Connection

### 71609522

Power- Supply 60 W, 90-260VDC

### 71609530

DIN Rail Mounting KIT

### 71609550

04 Axes Chassis 19" 3HE 84TE

### 71609551

08 Axes Chassis 19" 3HE 84TE

### 71609552

12 Axes Chassis 19" 3HE 84TE

### 71609553

16 Axes Chassis 19" 3HE 84TE

### 71609554

04 CL Axes Chassis 19" 3HE 84TE

### 71609555

06 CL Axes Chassis 19" 3HE 84TE

### 71609556

08 CL Axes Chassis 19" 3HE 84TE



