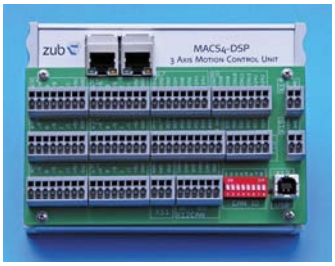
Controllers, Servo amplifiers & Frequency converters

Drive Positioning and Drive Synchronization

for use in CAN-, EtherCAT-, Profibus- or RS485-Networks
or just for Standalone usage and High-Level Language Programmability!

MACS4-DSP

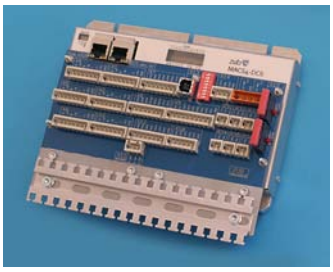
1-, 2-, 3-axis
positioning
and synchronization



- Free programmable process and motion control unit
- Multi-axis position regulation & synchronization
- Standalone usage or part of a PLC / PC network
- 1 x CAN, 1 x USB, 1 x RS485, Option: EtherCAT.
- Analog, RS485, CANopen I/Fs for servo drives / FCs
- OEM: Customized connectors boards

MACS4-DC6

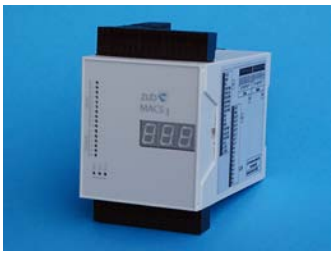
6-axis positioning
with integrated
servo amplifiers



- Free programmable process and motion control unit
- 6 integrated servo amplifiers (24-48V) for DC motors
- Standalone usage or part of a PLC / PC network
- 1 x CAN, 1 x USB, 1 x RS485, Option: EtherCAT.
- OEM: Customized connectors boards and power stage design

MACS3

1-, 2-, 3-axis
positioning
and synchronization



- Free programmable process and motion control unit
- Digital position regulation & synchronization
- Standalone usage or part of a PLC / PC network
- 2 x CAN, 1 x RS232
- Analog and CANopen interfaces for servo drives / FCs

DSA

CANopen servo amplifier

- Digital current, speed & position regulation
- CANopen DS402 compatible
- PWM power stage(s) for brush and brushless motors, up to 1'500 W continuous power
- OEM: Pre-configuration as an analogue amplifier replacement or with EtherCAT-Option

OEM Solutions

Products according to
your own needs

- Products with the highest performance/cost ratio: Function, design, power data and connectors … all optimized for your application
- Focused: High-end motion control features
- Flexible: Free programmable process control
- Compatible: CAN, EtherCAT, Profibus, USB, RS485
- Compact: Integrated PWM amplifiers on demand

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with sales, development,
service, and support

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zub Controls: A Wide Range of Applications!

Storage

MACS4-DSP +
Frequency Converter
or MACS3 + DSA

- Cart positioning in high bay warehouse or automated racks (e.g. pharmacy)
- Positioning with on-the-fly target adaptation
- Jerk limited ramps for acceleration and deceleration

Positioning

MACS4-DC6
or MACS3 + DSA

- Low cost mechanical stop adjustment
- X/Y-positioning of probes (e.g. analytical systems)
- Work-piece and tool positioning in machines

Feeding

MACS4-DSP +
Frequency converters
or Servo Drives

- Synchronous feeding of components, (e.g. supplement, CDs)
- Position synchronization using marker correction and signal filtering

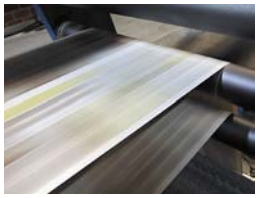
Labeling

MACS4 OEM-Design
or MACS3 + DSA

- Synchronization of label ejection and goods
- Synchronous feeding with marker correction and online CAM profiling

Winding

MACS4-DSP + DSA
or MACS3 + DSA



- Electronic servo traversing gear: Synchronization of the traversing with the speed of the material
- Tension control of a center winder

Dosing

MACS4-DC6
or MACS4 OEM-Design
or MACS3 + DSA

- High precision flow control of pumps
- Flow rate control of analytic and infusion pumps
- Control of electronic pipet systems

Lifting

MACS4-DSP +
Frequency Converters

- Standalone control of lifting platforms
- Network-based controls for theatre platform or fly

Many other examples of applications and practical experience can be found on our website **www.zub.ch** in the section „Application".

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