

## Complete spectrum of control solutions

Baumüller supports centralized, modular decentralized and hybrid control architectures, depending on the application. Baumüller provides solutions for each of the three topologies with the **b maXX-drivePLC**, **b maXX-controllerPLC**, **b maXX-safePLC**, **b maXX PCE** and **b maXX PCC**.

The **b maXX** controllers consistently implement the concept of scalability and modularity for flexible and individualized adaptation to the requirements of the mechanical engineer. The **b maXX** control platforms are fully integrated into the ProMaster Engineering Framework and are even suitable for highly synchronized drives thanks to their real-time capability.



With our **b maXX-drivePLC**, **b maXX-controllerPLC** controllers and the new **b maXX-safePLC** controller, we provide comprehensive solutions for every automation technology task. The **b maXX PCE** and the new **b maXX PCC** devices round out our product spectrum.

With a typical cycle time of 100 microseconds for 1000 lines of STL, the **b maXX-drivePLC** is one of the world's fastest PLC's in a drive and is therefore suitable for both comprehensive control tasks and demanding Motion Control tasks.

This takes some of the strain off the control PLC, which may be able to be made smaller. The machine program and the Motion Control application can be neatly de-coupled, giving the application transparency and clarity.

### Technical data **b maXX-drivePLC**

- 32-bit Risc CPU 120 MHz
- 6 MB flash memory
  - 1 MB of which is reserved for the IEC-61131 runtime system,
  - 1 MB for the IEC program and
  - 4 MB for cams
- 8 MB SDRAM
- 56 KB non-volatile RAM

#### **IEC 61131 features**

- 2 MB IEC program memory for executable program code containing up to 400,000 STL characters, typically 120,000 STL lines
- 2 MB IEC variable storage memory (optional up to 9 MB)
- 56 KB NOVRAM for remanent IEC retain data
- 4 MB FDisk memory for the storage of cams and configuration data
- Cycle time approx. 100  $\mu$ s per 1,000 lines of statement list (STL)
- Motion control support
- Approx. 1.4 MB for debug and logic analyzer functions

#### **Your benefit**

- **Free programmability of the drive**  
based on open standard programming in accordance with IEC 61131 and PLCopen Motion Control
- **High real-time performance**  
Highly synchronized real-time tasks with cycle times up to 250  $\mu$ s
- **Increase in availability**  
thanks to the omission of interference-prone cable connections
- **Reduction in the switch cabinet volume**  
thanks to compact construction
- **Constantly stable system**  
thanks to the high performance of the PLC and servo controller resulting from the use of independent processors – No limitation due to overlapping processes