The task

The client produces machines in the field of glass processing for the automotive industry and for this purpose had developed his own positioning control system that was controlled by I/Os or CAN bus. Because the components are no longer available, the company was unable to upgrade this control system. It was not economically feasible to develop a new control system, on the other hand, existing systems with such control systems have to be retrofitted or upgraded or defective ones replaced.

This control system had the following functions:

- Manual control (forward/backward)
- Approaching positions (16 predefined)
- Selecting speeds (predefined)
- Performing reference run
- Jerk-limited ramps for high dynamics
- Adjustable controller settings

External amplifiers were controlled via ±10 V signal; the actual information was supplied by an encoder.

Solution of zub AG

Within two days zub developed a functional mock-up on the basis of a MACS5 to show that the required task can be realized by means of a MACS5. After a successful demo zub realized a complete solution on the basis of the MACS5 within 2 weeks. The software was realized as State Machine, which means it is particularly well laid-out and easily traceable.

Result

- Very cost-efficient and effective solution in a very short time.
- Development costs < 10,000 CHF
- Costs per control system < 950 CHF (with appropriate master agreement).
- Time of development: 2 weeks

Your Motion Control Experts!