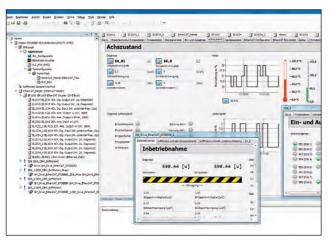
STOBER Motion Control for precise multiaxis operation



The complete controller-based drive technology for automation







Universal automation technology for the highest level of efficiency

- AS6 is the modern engineering tool with which the variety of STOBER drive solutions can be seamlessly integrated in a global automation concept.
- AS6 is based on the latest version of CODESYS and is enhanced for typical STOBER tools and the continually upgraded Drive & Motion library.



- AS6 increases the machine performance by approx. 25 % when compared with PLC solutions using powerful technology modules such as dynamic cam disks, dynamic CNC code interpreters and a variety of transformed axis geometries.
- AS6 significantly reduces engineering costs as a result of multifunction axis modules with an integrated quick start-up screen and direct axis optimization.
- AS6 combines the drive components into one drive system, makes use of the synergy and achieves the maximum performance from the hardware.

CNC and PLCopen® axis control with only one module



The control system for highly dynamic precision axes

The extremely compact and powerful Motion Controller MC6 is optimized for use with the sequence program that was created with the Automation Control Suite AS6 engineering tool based on CODESY.

The technical features are impressive: With the efficient convection cooling, a fan is not required. A solid state drive (SSD) is used as the storage medium. With this hardware rotating parts are completely eliminated.

No data loss in the event of a 24 V power failure.

HMI panels from other manufacturers can be connected.

Simple DIN rail mounting.



Communication interfaces:

EtherCAT®, CANopen®, serial RS 232, TCP/IP, USB Open for all other bus systems

Computing power:

Up to 10 axes with complex robotic functions (path control)

Up to 100 axes with cyclic cams and automatic functions to a certain extent



The complete solution for installation in a single item

In the touch screen panel PC version the controller is ideal for use as a master control but also as motion controller.

For applications with a parameterization requirement, the panel version is particularly suitable as a visual sensitive interface (touch screen) and represents a contemporary form of user-friendly interaction.



The large selection of ready-made visualization elements offers many advantages.

Complete graphical user screens can be reused as an individual visualization element.

Complex visualization elements can be instantiated through an interface for parameter transfer.

The integrated editor for text lists ensures the multilingualism of the visualization.

Access is possible via http to display with web visualization.



Specially for motion control solutions

With its 32-bit dual core processor, the SD6 drive controller is equipped for any motion precision requirements.

Position, speed and torque control of the servo axes are calculated at a cycle time of 62.5 μ s (16 kHz).

This allows extremely high dynamics and precision of the drives due to very short settling times for fast reference value changes and step changes in load.

The speed feedback via EnDat® 2.2 encoder allows about 33 million motor positions per revolution to be determined.

The SD6 drive controller operating modes

or, Interpolated position mode cled (CANopen®) – the drive follows in position control

Cyclic synchronous position mode (EtherCAT®) – the drive follows in position control

Cyclic synchronous velocity mode (EtherCAT°) – the drive follows in speed control

Cyclic synchronous torque mode (EtherCAT®) – the drive follows in torque control

Jogging/STOBER specific mode – control-independent travel of the drive – e.g. for set up functions and emergency mode

Homing mode – control-independent referencing by the drive – automatic calculation of the travel profiles

Synchronous servo geared motors for every need

Controller-based applications



SMS PE planetary geared motor



SMS P/PA planetary geared motor



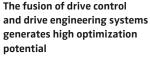
SMS PH(A) planetary geared motor



SMS PY planetary geared motor with hollow shaft



SMS KL helical bevel geared motor



With their wide selection of right angle and coaxial geared motors SMS synchronous servo geared motors offer the best choice for application-optimized servo axes.

With the directly flange mounted ED, EK and EZ series of synchronous servo motors, the SMS synchronous servo geared motors form a torsionally rigid and compact drive unit.

With the SMS PY planetary geared motor with hollow shaft (PipeDrive), an innovative drive system was created

The last link in the chain of controllerbased multiaxis operation is the professional design of each individual servo axis which is vitally important for functionality and efficiency.





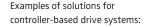
SMS KS right angle servo geared motor

Motion control makes most things easier and many things possible

The centralization of all the control engineering drive functions in one program operation makes programming of several axes easier.

For complex interlocking functions with high positioning or setting accuracy requirements the use of one or more motion controllers is essential.

Plus the motion control architecture facilitates commissioning and any service required for malfunctions.



- Travel
- Conveyor
- Synchronized
- Hoist
- Coordinated
- Positioning
- Machine tool
- Winder











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