

NEW PRODUCTS!

STEPPER MOTOR DRIVERS

The new Titanio family of vectoral stepper drives feature revolutionary **'ELSE - Error Less Servo Efficient'** technology. By applying a precise sinusoidal waveform to the phase currents, these drives allow "stepless" control of stepper motors with reduced heating and extremely smooth, silent movements.

ELSE technology offers:

- Dramatic noise reduction compared to traditional stepper drives
- Extremely smooth motor axis movement, without jerking
- Significant damping of motor vibrations and resonances
- Increase in positioning accuracy
- Better and more constant torque delivery at all rotation speeds
- Less heating and greater efficiency of the drive system

Step and Direction – LW3

Titanio LW3 digital drives are available for 2- & 3-phase hybrid stepper motors where there is already a controller for the generation of clock & direction signals.

- **ELSE** technology for smooth, silent movement
- Open- and Closed-loop models available
- Completely digital using Arm Core M4 technology
- Exceptional reliability combined with mechanical compactness and a competitive price

Fieldbus – SW3

SW3 is a new line of fieldbus vector stepper drives belonging to the Titanio family.

- **ELSE** technology for smooth, silent movement
- EtherCAT, Profinet, CANopen, Modbus
- Integrated DS402 functionalities
- Integrated oscilloscope
- Auto tuning of motor control parameters
- Storable PDO mapping inside drive



Programmable – SW4/5

Titanio SW4 & SW5 are programmable fieldbus stepper drives featuring **ELSE** technology. They can be used in 'stand-alone' mode or with a fieldbus master controller to control single or multi-axis systems.

- Multiple control modes
- Equipped with advanced safety functionalities
- Vectorial control: **ELSE** technology keeps the motor torque constant allowing smooth and noiseless movements
- Easily programmable with e3PLC Programming Environment
- Open- or Closed loop
- Electronic gearing

SMART MOTOR

The SM series is a line of stepper motors with integrated high performance vector drives with **ELSE** firmware. They are available in open- or closed-loop variants and are connected via CANopen (DS301/DS402) or Modbus. The SM series offers the same smooth, silent motion as the Titanio drives, but saves panel space and wiring by integrating the drive directly on the motor.

Principal features:

- Multiple positioning control modes
- Electric Gear with programmable gear ratio
- High speed I/O for event synchronizing
- Advanced safety functionalities
- **ELSE** stepless control technology
- Low motor vibration and mechanical noise
- Compact size



EtherCAT®

CAN
open®

PROFI®
NET

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