

Introduction

Ready-to-use solution applicable to the labelling device of a single or multi-head labelling machine and to all the accessory axes such as Unwinder, Rewinder, Input Belts, Bottle rotation (3 Rolls) and others.

The solution is based on Titanio Stepper Drives and Vanadio AC Brushless Drives with Ethernet Modbus TCP/IP, EtherCAT, CANopen and Profinet fieldbuses.

The Labelling Realtime Module, integrated into the e3PLC Studio environment, allows a quick and easy startup and configuration of the labelling head.

The technical assistance of EVER ELETTRONICA supports the customer in the startup phases but also in the next evolutions of the application thanks to the remote connection taking advantage of the network or, if needed, directly by the customer.

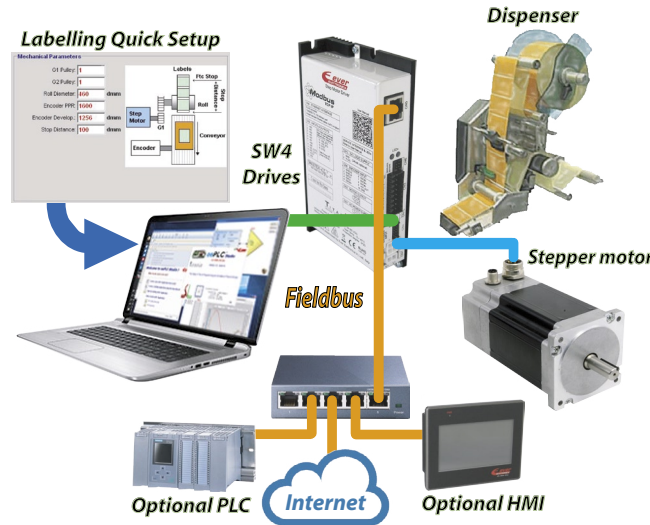
Labelling-Head-Functionalities

- **Main features of drives**
 - √ Noiseless movement (stepless)
 - √ No step loss (closed loop)
 - √ Motor's temperature reduction
 - √ Possibility to supply the drives from the mains power
 - √ Interfaceable with several fieldbuses: EtherCAT, Modbus TCP/IP, CANopen and Profinet
- **Label positioning error**
< 0.5 mm
- **Perfect synchronism**
between label speed/position and product speed/position even with abrupts changes in product speed
- **Label size**
available to automate the format change
- **Double label function with different format**
label and counter-label with perfect adjustment of the two labels distance
- **Missing label recovery**
with report of the lack
- **Software filters**
for the easy managing of special products and labels
- **Easy customizations of the application**
to allow the management of various accessories such as: printing, printing control and pneumatic devices

Single and multi-head labelling based on fieldbus

TITANIO VECTOR - STEPPER - DRIVES **VANADIO** AC - SERVO - DRIVES

e3PLC STUDIO



Labelling for the Industry 4.0

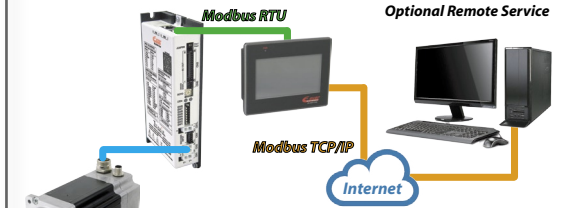
- Complete solutions with programmable and versatile drive
- Different systems sized according to the required performances (up to 200 m/min.)

Ever
ELETTRONICA
the clever drive

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Single labelling head control

Recommended scheme for a single-head labelling machine.

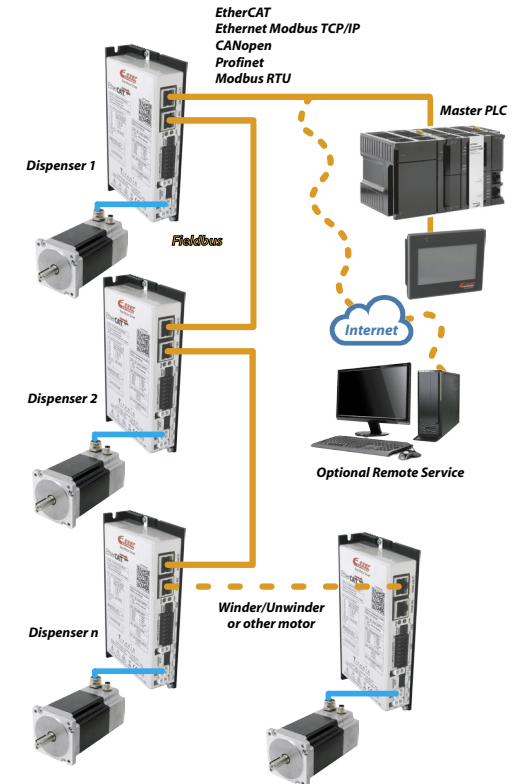


Drives with APP 0130_LABEVO Modbus RTU

Complete solution with all the necessary software for Drives and HMI already programmed, but customizable.

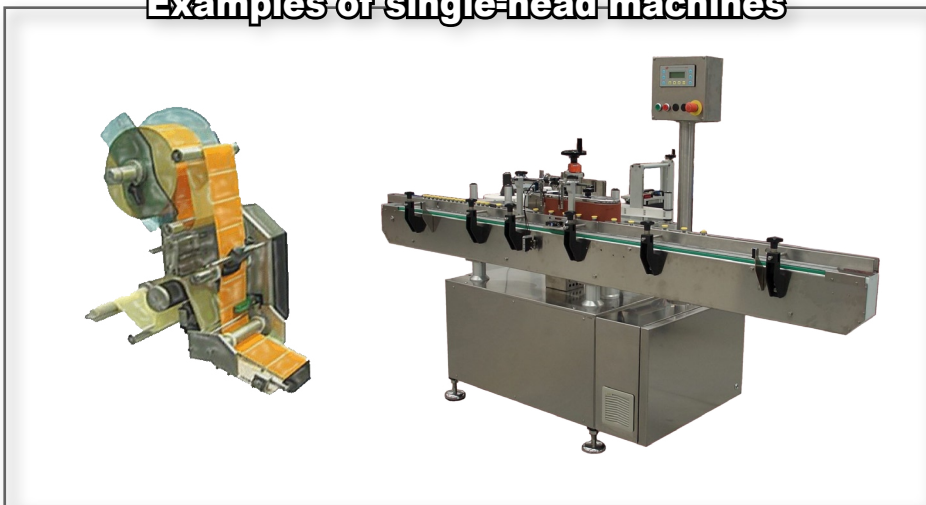
Multi-head labelling control

Recommended scheme for a multi-head labelling machine.



The labelling control software is already installed in the drives. The PLC, via fieldbuses, has only to send the configuration parameters and to supervise.

Examples of single-head machines



Examples of multi-head machines



Labelling 4.0 Solutions programmable with e3PLC and Labelling Real-time Module

Power Supply	Performances	Drive	Loop	Fieldbus	Motor	Drive's Certification
12 ÷ 48 Vdc	Up to 25 mt./min.	SW4D2042	Open	Modbus TCP/IP EtherCAT	MT34HE26xxx	CE, RoHS, Reach
18 ÷ 56 Vac	Up to 50 mt./min.	SW4A3070	Open	Modbus TCP/IP EtherCAT CANopen Modbus RTU	MT34HE31xxx holding torque 5,36 Nm	CE, RoHS, Reach
	Up to 60 mt./min.		Closed		MT34HE31xxx holding torque 5,36 Nm + Encoder 5V - 1000 ppr	
18 ÷ 100 Vac	Up to 80 mt./min.	SW5A4085	Open	CANopen EtherCAT Modbus TCP/IP Profinet	MT34HE31xxx holding torque 5,36 Nm	CE, RoHS, Reach
	Up to 100 mt./min.		Closed		MT34HE31xxx holding torque 5,36 Nm + Encoder 5V - 1000 ppr	
115 Vac mains power supply	Up to 80 mt./min.	SW5A5080	Open	CANopen EtherCAT Modbus TCP/IP Profinet	MT34HE50xxx holding torque 10,0 Nm	CE, UL, RoHS, Reach
	Up to 100 mt./min.		Closed		MT34HE50xxx holding torque 10,0 Nm + Encoder 5V - 1000 ppr	
220 Vac mains power supply	Up to 80 mt./min.	SW5A9052	Open	CANopen EtherCAT Modbus TCP/IP Profinet	MT34HE50xxx holding torque 10,0 Nm	CE, UL, RoHS, Reach
	Up to 150 mt./min.		Closed		MT34HE50xxx holding torque 10,0 Nm + Encoder 5V - 1000 ppr	
220 Vac mains power supply	Up to 200 mt./min.	AW5A91K5	Closed	CANopen EtherCAT Modbus TCP/IP Profinet	BA24SA0402E1C00	CE, UL, RoHS, Reach