

# Preferred Implementation Distributed CANopen High Performance

*High Performance and modularity  
for distributed installations...*



## Typical applications

### Automotive

- Assembly machine
- Bodyshop

### Machining

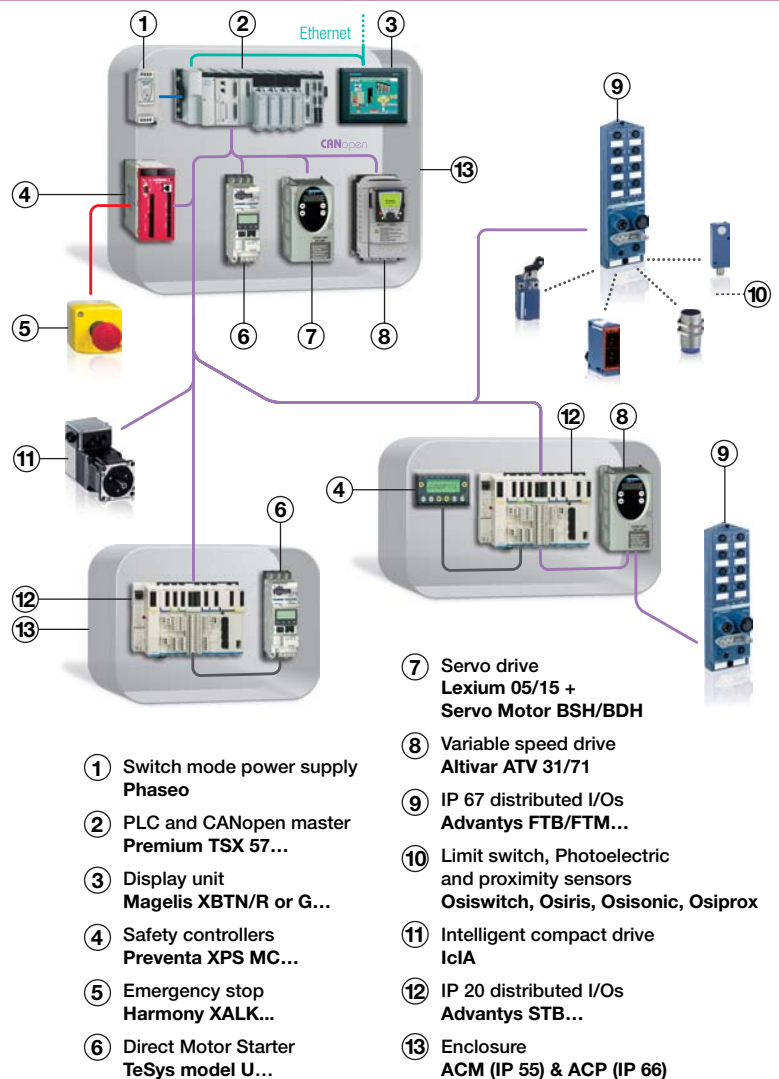
- Wood working
- Cutting machines
- Sanders...

### Materials Handling

- Conveying machines...

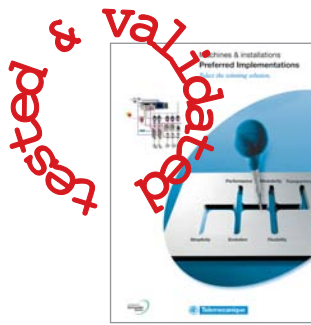
### Other machines

- Bottling line
- Boxing machines
- Assembling line
- Printing machines
- Textile machines...



For large machines or installations where performance, modularity and customization are very important and where distributed installation is required, this implementation provides the best answer. It combines a CANopen network, a Premium programmable controller, Altivar 31/71 variable speed drives, Direct Motor Starter TeSys Model U, a Magelis XBT GT display unit and Advantys distributed I/Os.

This implementation constitutes a real solution, ensuring installation simplicity and speed as well as faultless operation of the assembly, thanks to a complete offer and software integration with function blocks for drives and motion on CANopen.



## Advantages

### Consistency of solution

The synergy of high quality products provides a solution guaranteed by a leader in automation.

### Tested, validated and documented

A complete user guide gives all the details for installing and building your application in confidence.

### Large choice of partners

The openness of CANopen provides a large choice of products.



### Optimized productivity

Easily restart, reset manually, control and operate your machine or installation with Premium and XBT-G.



### Motion can be so simple!

It is easy to control motion with CANopen and the function block library. The integration between Premium, Altivar Lexium allows you to easily control drives and motion.



### High modularity and flexibility

Thanks to the Automation island which combines Advantys STB modular I/Os, a local HMI and motor controllers (drives and TeSys U), allows distribution of the automation functions with a high level modularity and flexibility.



## Characteristics

### Performance

- Controller: Premium
- I/O: up to 400
- Motor control (up to 16)
  - Direct motor starter TeSys Model U
  - Variable speed drives ATV 31/71
  - Servo drives (Lexium 05/15)
  - Intelligent compact drive: IclA
- Motion control: 8 axis on sercos
- HMI: push-buttons and lights, graphic display
- Typical cycle time: 10 - 50 ms
- Safety: Preventa controller
- Options: Ethernet connection to upper level

### Installation

- Machine type: stand alone or networked
- Cabling: CANopen
- Software: libraries and function blocks to ease programming
- Easy setting up by downloading parameters of modules through CANopen
- Easy to duplicate and to save your application by using EEPROM

### Constraint

- Installed in a Himel cabinet: to achieve higher IP level, ACM (IP 55), ACP (IP 66)
- Option: cables for heavy duty or mobile installation.
- Oil resistant

### Cost

- Minimizing programming and commissioning cost
- Optimized cabling with CANopen, cost reduction (up to 20%)

### Size

- Network length: at 250kbit/s (default) the length in 250m, 100m at 500kBit/s
- Distributed, modular machine or installation > 20m<sup>2</sup>

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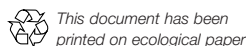
www.schneider-electric.com  
www.telemecanique.com

## A platform and a dedicated team at your service

Each preferred Implementation is based on a selected platform for optimal results and updated according to the evolution of our product offer. A team of specialists can perform customized tests to validate your configuration of the Preferred Implementation.



As standards, specifications and designs change from time to time, please ask for confirmation of the information given in this publication.



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