

SYSTEMS & SOLUTIONS FOR MOTION CONTROL



2026

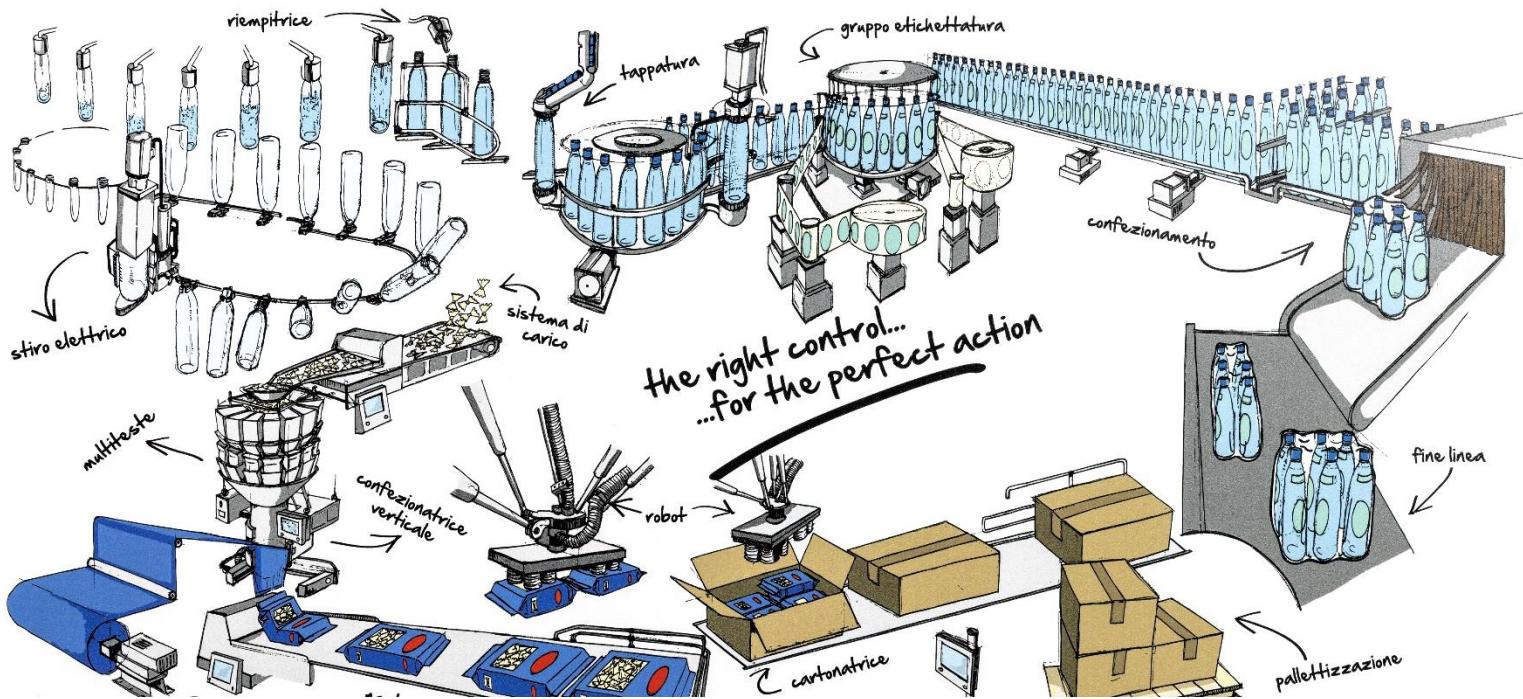


SINCE 1976

CANopen EtherCAT



EtherNet/IP Modbus





ANNIVERSARY

CMZ
50
years
1976-2026

CMZ engineers and produces in Italy electronic systems for industrial automation.



HARDWARE

- IEC61131 controllers
- Drives and Motors
- Planetary gearboxes
- Peripherals & I/Os
- HMIs

SOFTWARE

- Communication, motion and utility libraries
- Configurable dedicated applicatives

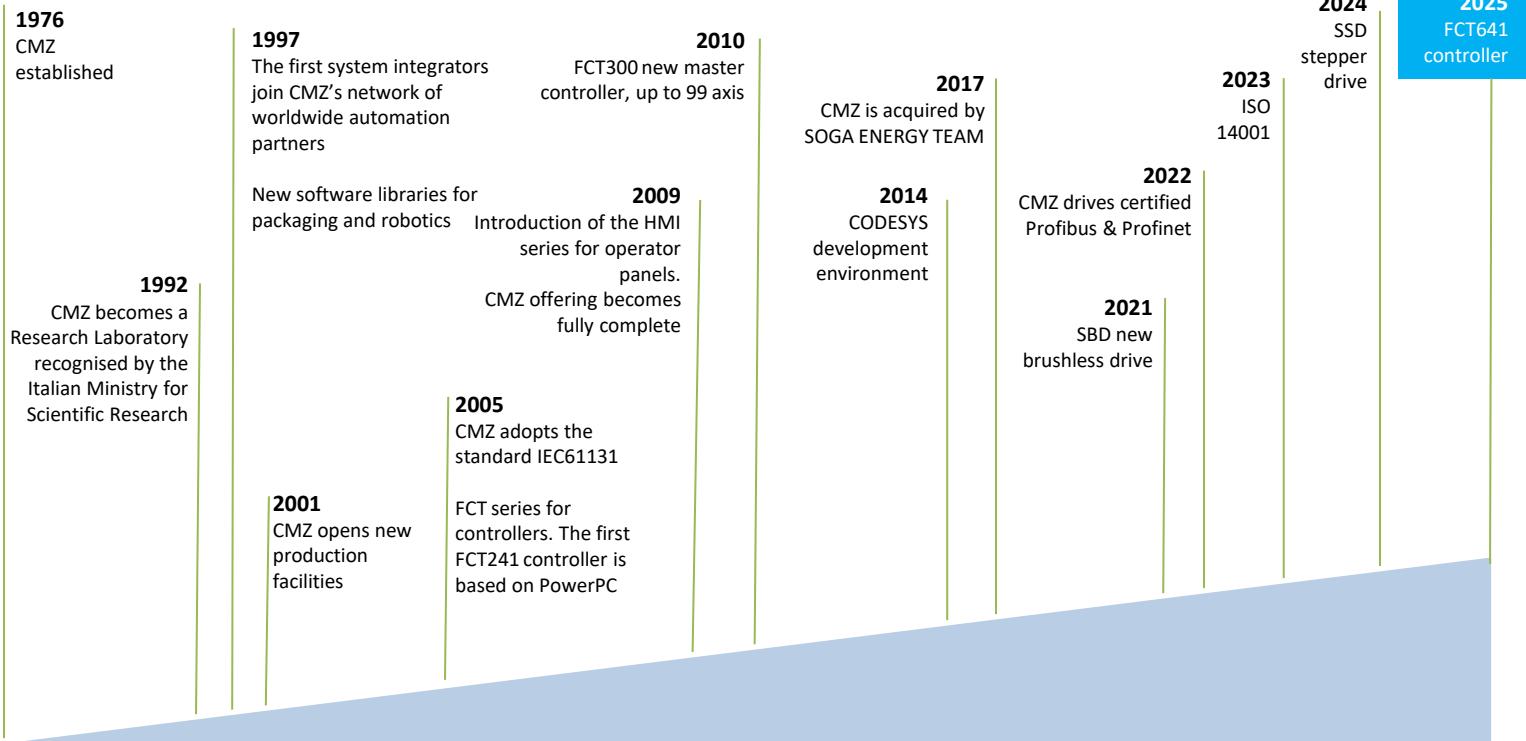
SERVICE

- Engineering & Co-Design
- Remote technical assistance
- Maintenance programs
- Revamping

CMZ MISSION is to be a recognized reliable Partner for **Original Equipment Manufacturers** and **system integrators** for the co-development of automatic machines and equipment with **customized** and specific configuration in **multi axis motion**.



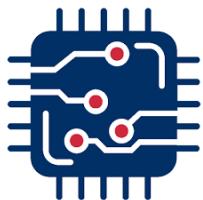
KEY MILESTONES



KEY FIGURES

Investment in R&D
(OpEx & CAPEX;
% of Revenue)

18,3%



Headcount

58

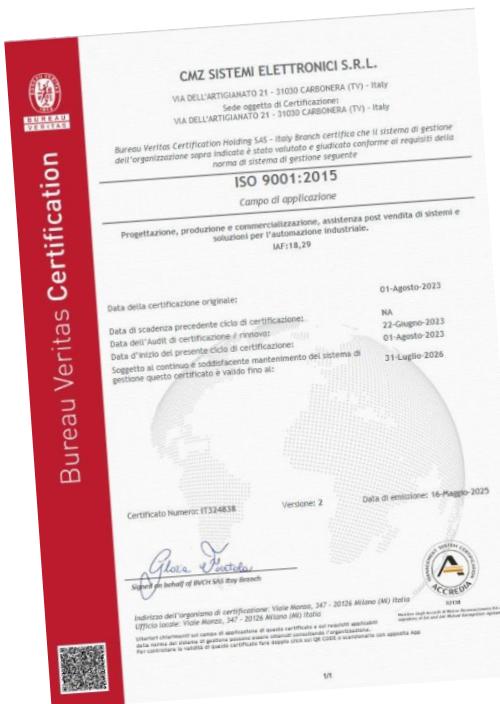


of R&D SW and HW
engineers

20

CERTIFICATIONS

ISO 9001:2015



ISO 14001:2015



ESG Rating.

CMZ is in category B





SOGA S.p.A

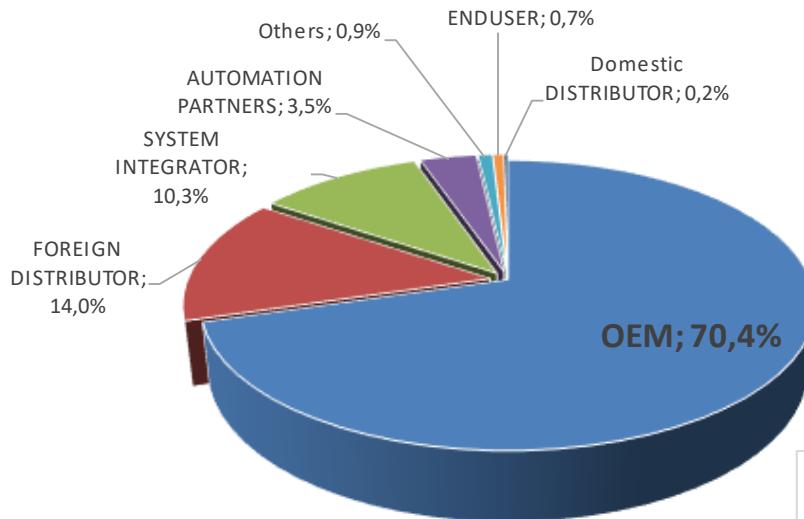
Group headquarter

COMPANIES	BRANDS	
Soga S.p.A	soga [®] AC electric motors	ENERGY
	Sincro [®] AC and DC alternators and welders	
	AgroWatt PTO tractor-driven generators	
	sogaenergies AC generators for renewables and special projects	
Sincro d.o.o	Industrial alternators	
CMZ Sistemi Elettronici S.r.l	CMZ Electronic systems for industrial automation	AUTOMATION
Veneta Press S.p.A	VENETA PRESS Aluminium die-casting	FOUNDRY

- 6 brands
- 7 production plants in Italy and Croatia

- Export in 90 countries
- ~ 400 employees

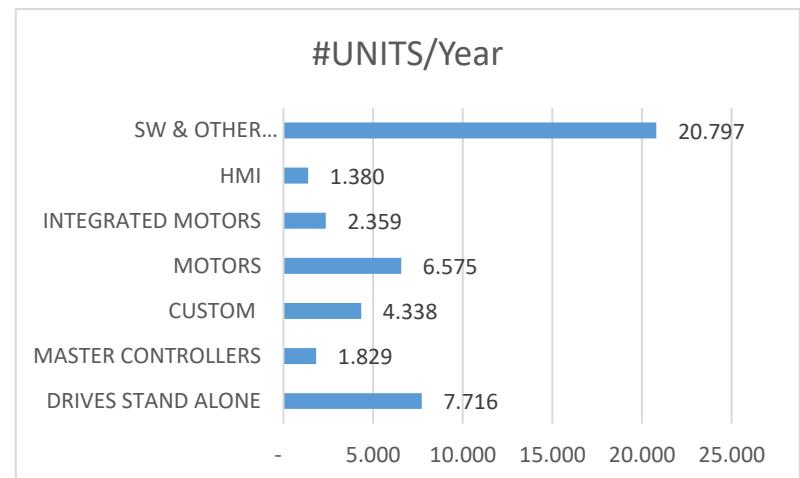
KEY MARKET SECTORS



CMZ provides a **full service** platform to a wide installed base:

- 500 Active Clients
- 250.000 Units

With a team of 28 SW and HW engineers CMZ is the ideal partner to support the OEM's



CMZ

soga  energYTEAM

PRESENTATION INDEX

2026

COMPANY

APPLICATIONS

PRODUCTS

WHERE WE ARE



KEY APPLICATION MARKETS



Packaging

24,3%



Dosing &
Weighing

9%



Beverage



Converting

7,2%



Special
Machines

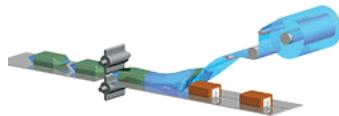
24,9%



Textile

APPLICATIONS OVERVIEW

Packaging



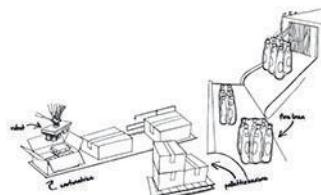
HORIZONTAL PACKAGING MACHINE



VERTICAL PACKAGING MACHINE



LOADING SYSTEMS
SMART BELTS



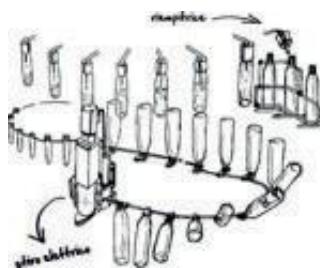
END LINE

APPLICATIONS OVERVIEW

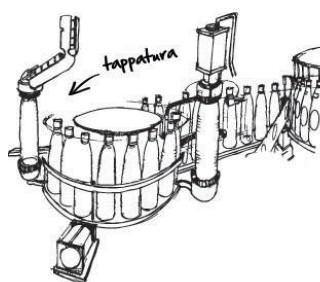
Food & Beverage



LABELLING MACHINES



FILLING MACHINES



BLOWING MACHINES

CAPPING MACHINES

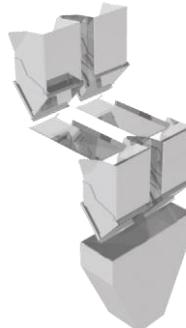
Dosing & Weighing



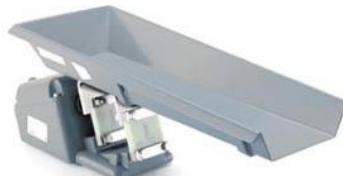
MULTIHEAD WEIGHERS



LINEAR WEIGHERS



VIBRATING FEEDERS



Printing



SYNCHRONIZATION OF PRINTING CYLINDERS

REGISTRATION CONTROL OF PRINTING CYLINDERS

Paper converting



INTERFOLDERS

REWINDERS CUTTING LINE

FLEXO MACHINES

Textile



MACHINES FOR FIBERS TREATMENT
(SYNTHETIC AND NATURAL) SUCH AS:
COMBING MACHINES, DRAW FRAME MACHINES

CROCHET AND JACQUARD MACHINES

SEWING/EMBROIDERY MACHINES

SINGLE AND MULTI NEEDLE QUILTING MACHINES

ISO interpreter (G-code)



CNC MACHINES

Glass



THREADING MACHINES

SEALING MACHINES EDGERS

MACHINES COATING REMOVERS

GLASS CUTTING

Metal sheet



FLYING SHEAR

DEFORMATION

CMZ

soga  energYTEAM

PRESENTATION INDEX

2026

COMPANY

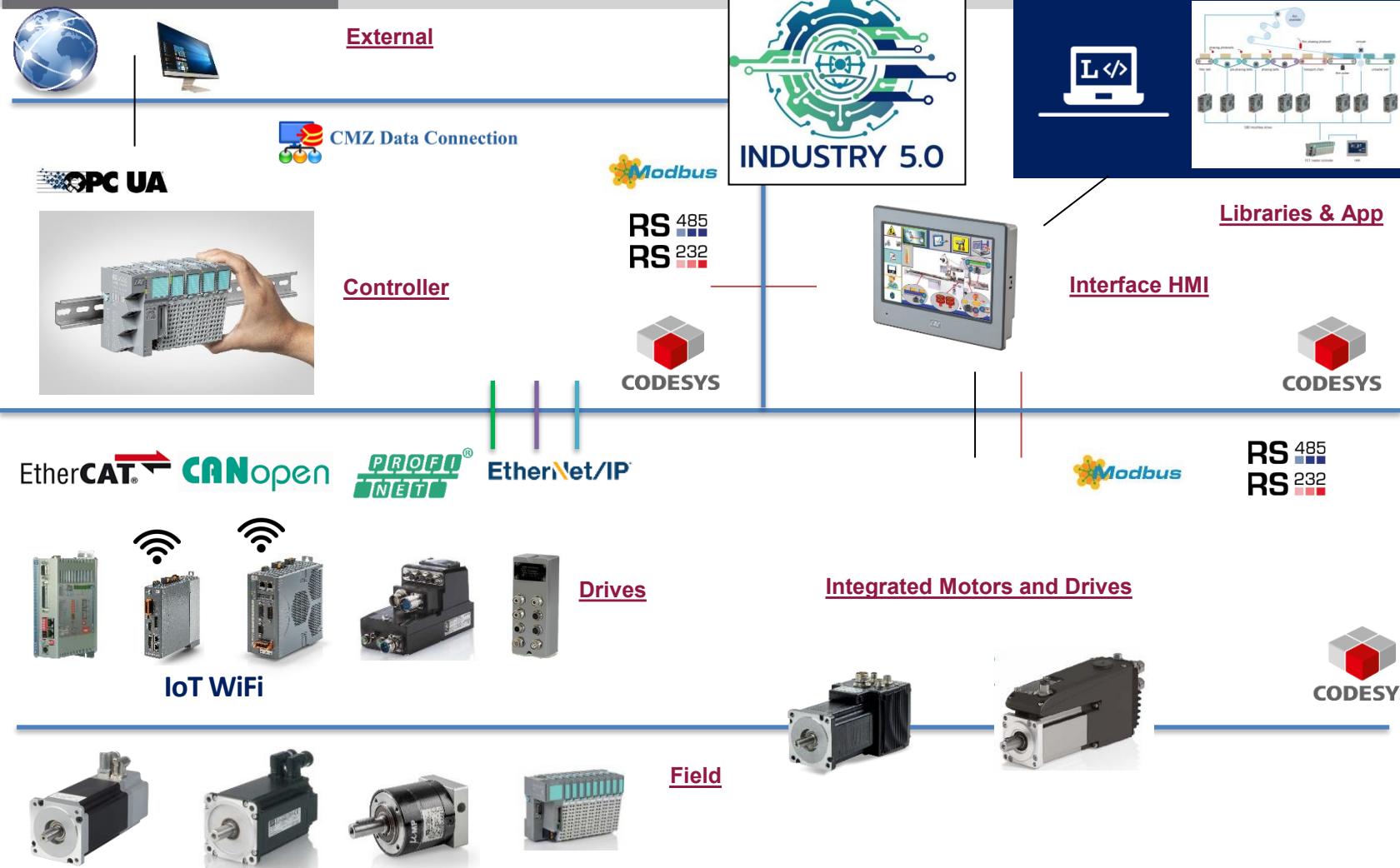
APPLICATIONS

PRODUCTS

WHERE WE ARE



PRODUCTS



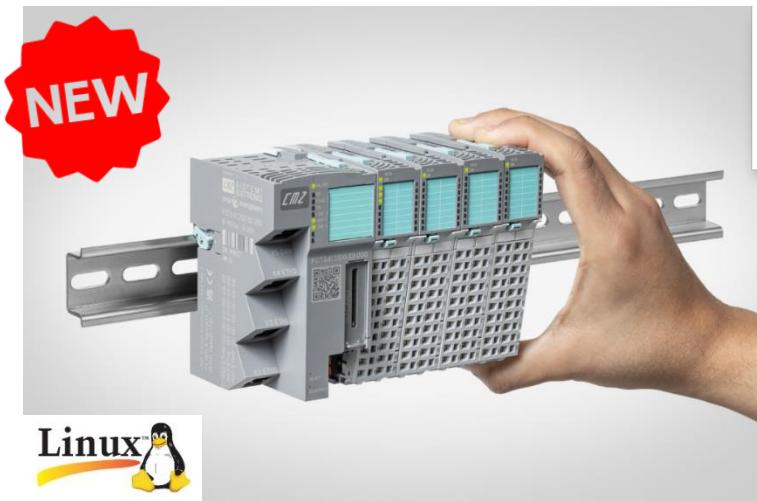
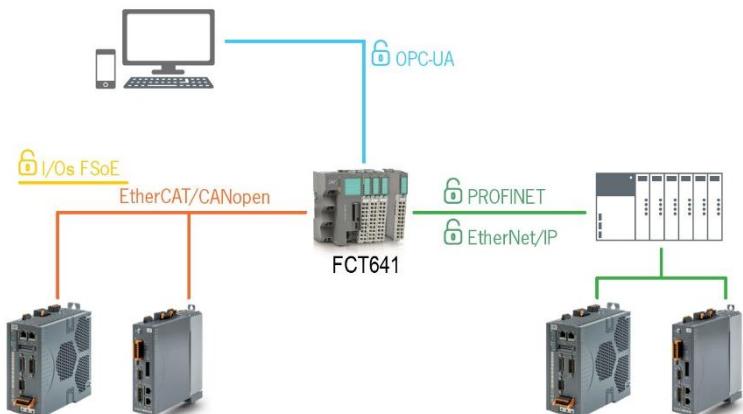
PRODUCTS – CONTROLLERS

FCT641: Controllers

The new controller FCT641 represents the evolution of FCT640 series, making the most of all the features of CODESYS world, by innovating the control of industrial automation systems at the highest levels of performance.

Based on **LINUX OS**, FCT641 controller is designed for installation of **CODESYS Service Packs** with access to all updates and functions released by CODESYS.

LINUX OS also allows a secure file system and the management of Security certificates.



FCT641 can be supplied with following **Single Licenses** by CODESYS installed directly at order placement:

- OPC-UA
- EtherNet/IP
- PROFINET
- FS0E

PRODUCTS – CONTROLLERS

FCT640: Controllers

Up to 99 axes

Processor:

CPU: RISC dual core 64bit, 1.0 GHz three level cache

Memory capability:

1 GB Nand Flash for storage

512 MB DRAM high bandwidth 64 bit 1666 MT/s

32 KB Ferromagnetic RAM (non-volatile PLC data)

SD-Card

Communication ports:

1xRJ45 Ethernet 10/100 MBit TCP/IP (Debug)

2xRJ45 Ethernet 10/100 MBit (Fieldbus)

1xRJ45 CAN-Bus (CANopen Master)

Local I/O modules:

64 modules, each with a maximum of 16-bit IO (1024 digital) or

8 channels analog (512 analog)

Wide variety of modules available

Fieldbus:

CANopen, EtherCAT

Connectivity:

OPC-UA

Modbus TCP

Communications based on UDP-TCP

WEB server, PLCHandler



More features:

Power supply 24V DC

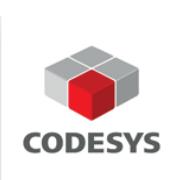
9 LEDs

RTC with CR2032 Battery

Reset-Button – Restore-Button

0° - 40°C ambient temp

Fanless



SSD: Smart Drives

Stepper drives with CANopen, EtherCAT and Profinet interface

- 5 A Nominal
- 110 or 230 Vac single phase
- Feedback: Incremental encoder
- Auxiliary encoder input
- Analog and digital IO on board
- STO (under certification)



SBD: Smart Drives

Brushless drives with CANopen, EtherCAT and Profinet interface

- from 5 to 20 A Nominal
- 230 Vac single phase or 400 Vac 3-phases
- Feedback: Resolver, Incremental encoder, absolute Hiperface Encoder
- Auxiliary encoder input
- Analog and digital IO on board
- STO (under certification)

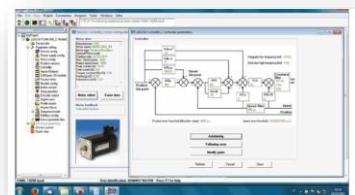


RP064: I/O module

-CANopen Coupler
32 Di + 32 Do + 2 Ai + 2 Ao

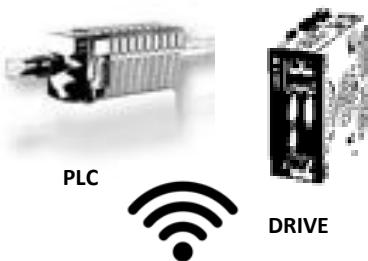


CMZ PROPRIETARY
SOFTWARE ENVIRONMENT



1

CMZ is investing for introducing Wi-Fi connection on its main devices



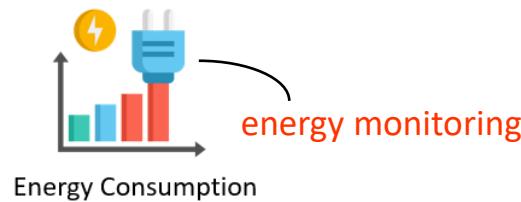
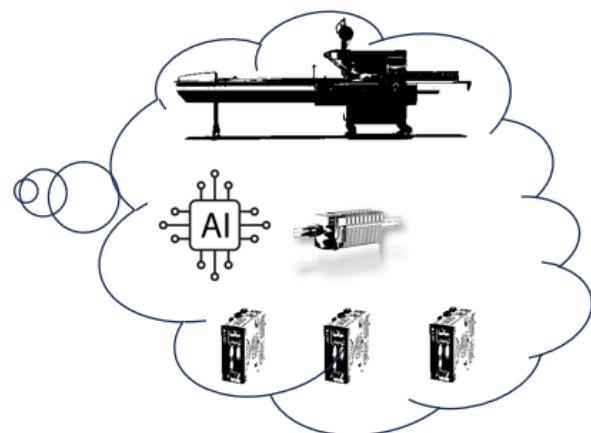
2

What is Wi-Fi useful for?

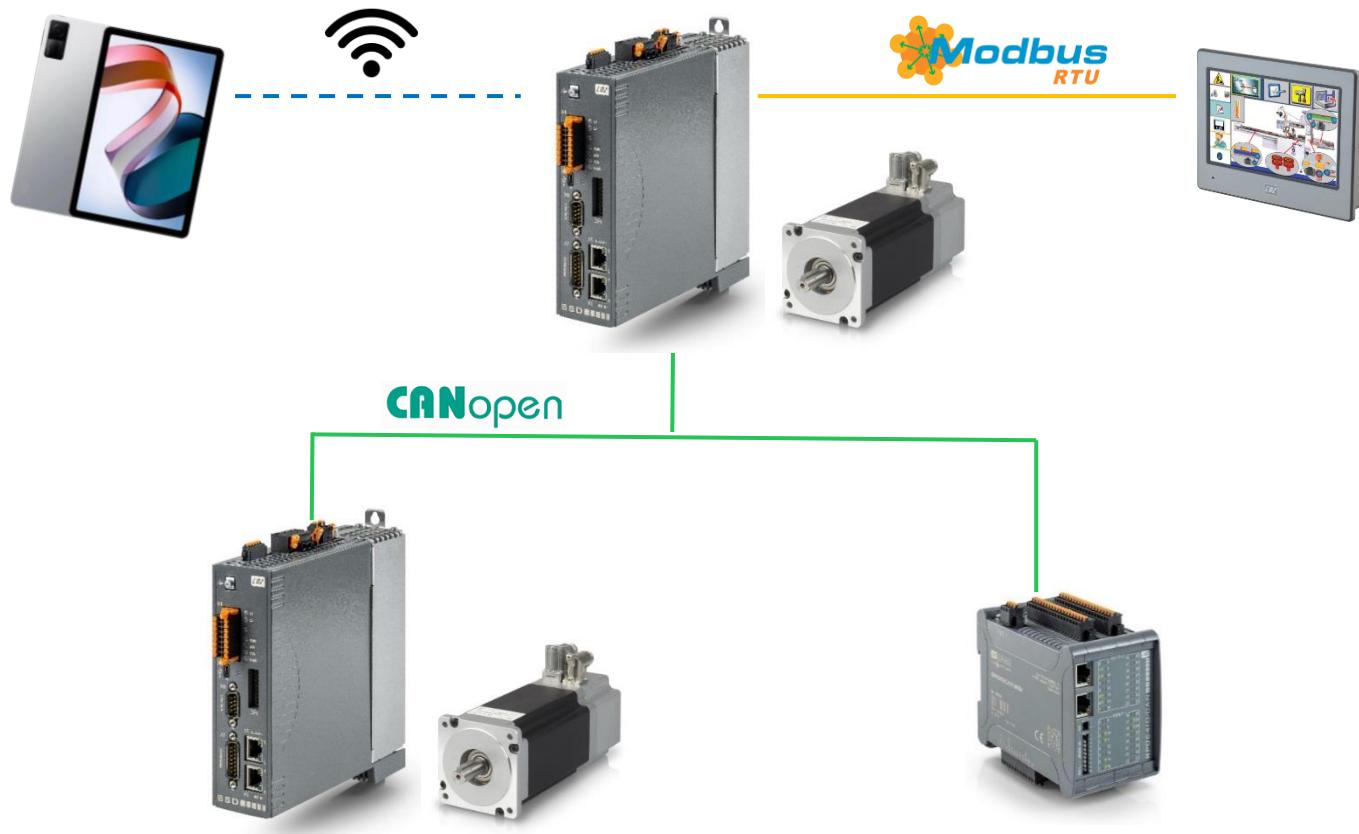


3

Complete package
HW and SW with
integrated IoT functions



CMZ system new architecture. The IoT era has been starting!



PRODUCTS – SERVO MOTORS

MMD/B/S: Servo Motors

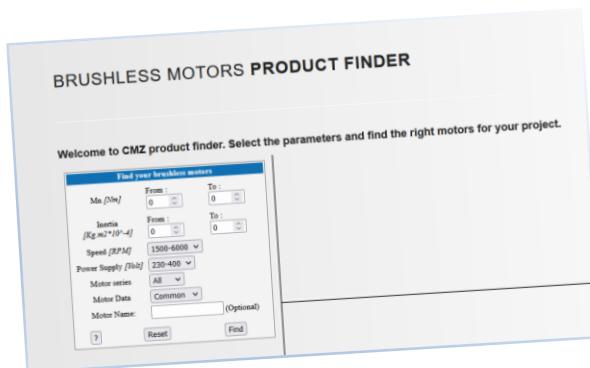
Brushless motors



WEB CONFIGURATOR

TRY IT ON OUR WEBSITE!

www.cmz.it/en/brushless-motors-product-finder/



TORQUE RANGE

- From 0,5 to 120 Nm stall torque

POWER SUPPLY

- 230 Vac and 400 Vac

SPEED

- From 1500 to 6000 rpm

FLANGE

- From 70 to 240 mm

FEEDBACK

- Resolver / Incremental / Absolute – Hyperface / DSL

OPTIONS

- Brake / Flywheel / IP67



PPG: Precision Planetary Gearboxes



TR series



MP series



TR/MP_G series



TR/MP_IS series



TR/MP_MB series



LC series



LCK series



SL series



KR series



TQ series



TQFEK series



TQK series



TQF series



IBD: Integrated Brushless Drives

Power supply: 275 ÷ 730 Vdc (560 Vdc Nominal)

Logic supply: 24 Vdc

Torque range

Stall torque 1,3 - 2,8 - 4 - 5,6 - 6 - 15,4 - 30 Nm

Rated speed:

Vn=5000 rpm (for 1,3 Nm)

Vn=3000 rpm (for 2,8 - 4 - 5,6 - 6 - 15,4 - 30 Nm)

Feedback

HIPERFACE absolute encoder single or multiturn

On board I/O's

for size 1,3 Nm:

3 digital inputs PNP 24 V

2 digital outputs PNP 24 V

1 programmable input/output PNP 24 V

for sizes from 2,8 Nm to 30 Nm:

6 digital IN 24 Vdc general purpose, configurable as:

PSTOP, NSTOP, Enable, Home, Capture, Step/Direction

3 digital OUT 24 Vdc 250mA, general purpose

1 digital IN/OUT 24 Vdc with configurable function

3 differential I/O's configurable as master incremental encoder

1 Analogue IN +/-10 V

Interface:

EtherCAT, CANopen

PROFINET (IBD up to 6 Nm)

Safety:

-For size 1,3 Nm: SIL3 (pending)

-For sizes from 2,8 Nm to 30 Nm:

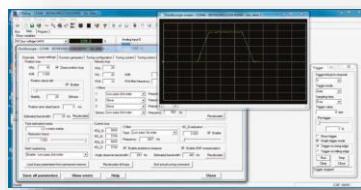
STO 2 channels (only CAN and ETC) SIL3 (pending)

Protection:

IP65

Option:

Internal brake



SOFTWARE ENVIRONMENT

SD Setup

NBD: Nearby Servo Drives

Drive IP65 for linear and rotating brushless motors



EtherCAT®

CANopen



Power supply: 275 ÷ 730Vdc (560Vdc Nominal)

Rated current: 8Arms

Peak motor current: 15Arms

Logic supply: 24Vdc

Protection: IP65

Security: STO 2 channels

Input/Output:

3 digital inputs PNP 24V 2

digital outputs PNP 24V

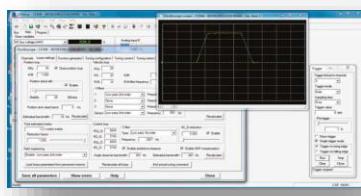
2 digital input/digital output bidirectional PNP 1

analog input +/- 10V

Encoder master input + 5V out

SOFTWARE ENVIRONMENT

SD Setup



PRODUCTS – STEPLESS SOLUTIONS

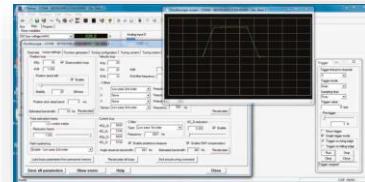
SVM: Stepless Servo Drives

MM: Stepless Motors

Interface: CANOpen, Profibus DP, ±10V, RS485 Modbus, pulse/direction
Profiles of speed, position and torque

Internal PLC programmable in IEC 61131 dedicated and general purpose IN/OUT's

Motors sizes available up to 21 Nm
on 5 sizes, DC power supply up to 160 Vdc



Modbus
over RS485

CANopen

PROFI
BUS

PROFI
NET®
INDUSTRIAL ETHERNET

ISD: Integrated Stepless Drives

Up to 12 Nm, DC power supply up to 130 Vdc

Interface: CANOpen, Profibus DP, ±10V, RS485 Modbus, pulse/direction

Profiles of speed, position and torque

Internal PLC programmable in IEC 61131 dedicated and general purpose IN/OUT's



SOFTWARE ENVIRONMENT
SD Setup

* through external gateway



TSC: Nearby Servo Drives

Drive for 3 stepper motors

Power supply: 48 Vdc

Protection: IP65

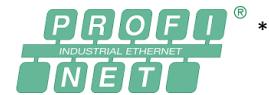
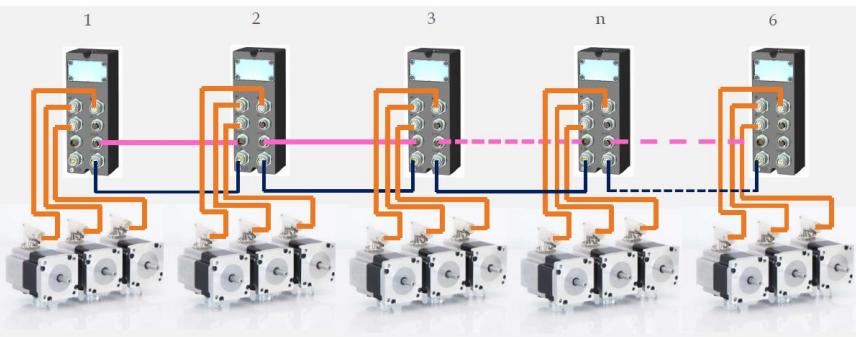
Input: 1 analog input +/- 10V

Daisy chain connection: up to 3 devices

Stepper motors size 60 mm

Torque: 1,65 and 3,1 Nm

Feedback: Absolute single turn encoder



* through external gateway

PT2 Series: HMI

HMI panels

- Premium level panels suitable for Industry 4.0
- Embedded touch system
- Sizes from 4,3" to 15" LCD display
- TFT-LCD
- Max. colors 16-bit
- LED
- CPU: RISC ARM9 32 bit
- Working Memory 64 MB
- USB
- IP66
- 5 years life battery



RS 485
485

RS 232
232

EtherNet/IP™

SOFTWARE ENVIRONMENT

Panel Master Designer

IP66
RATED

PRODUCTS – CUSTOM SOLUTIONS

CUSTOM PRODUCTS

STEPPER MOTOR CONTROL
CPMSG0



VIBRATING FEEDERS CONTROL
CP6V16



POWER SUPPLY
FOR ISD AND SVM DRIVES
SDPOW1 - SDPOWR



LOAD CELLS ACQUISITION
SGACQA



VIBRATING FEEDERS CONTROL
CP4PWM



POWER SUPPLY
FOR IBD AND NBD DRIVES
BDPOW

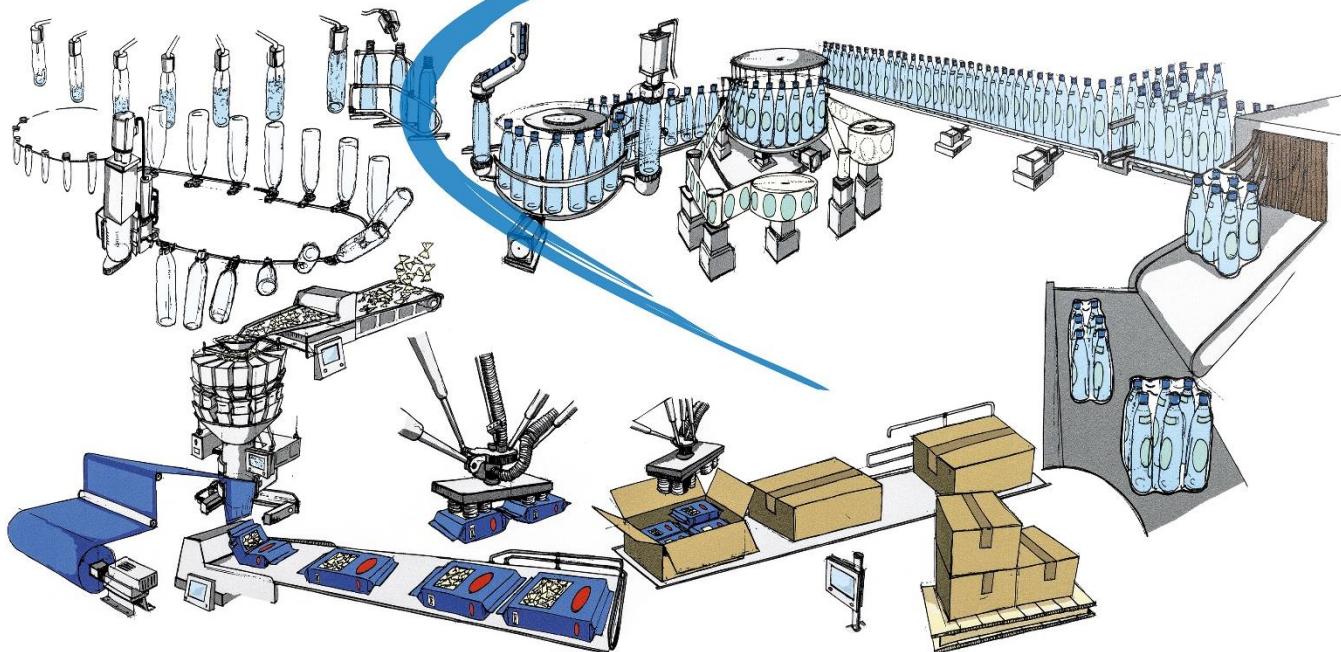


THERMOCOUPLES
CP6TS0

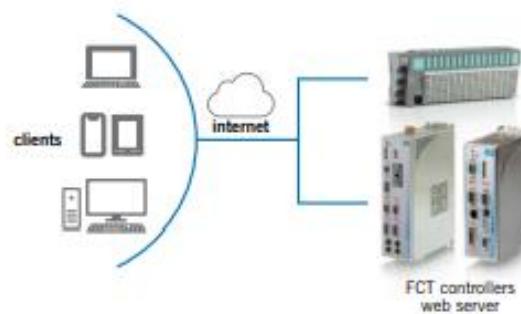
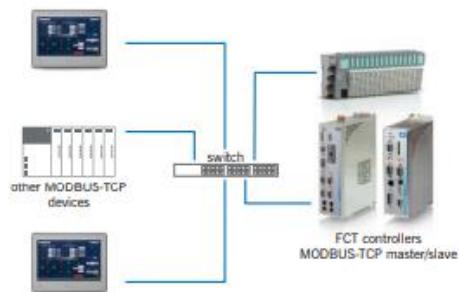
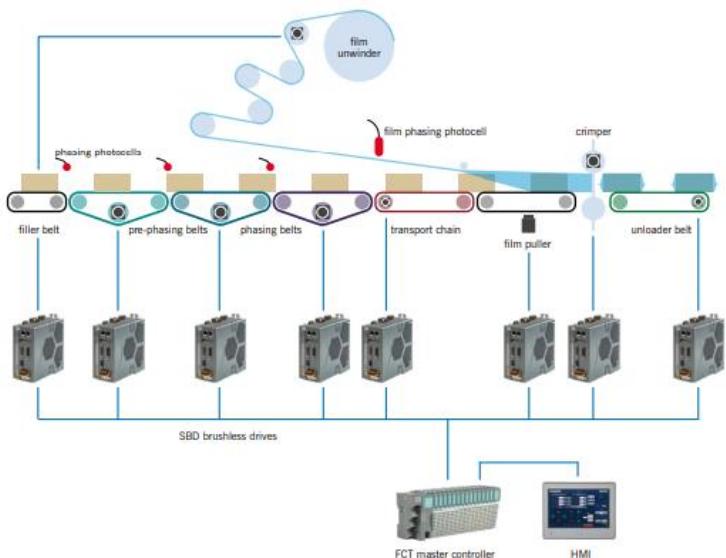


FCT300 & FCT200
I/O LOCAL MODULES

tailor made software



SOFTWARE: Codesys Solutions



CMZ

soga  energYTEAM

PRESENTATION INDEX

2026

COMPANY

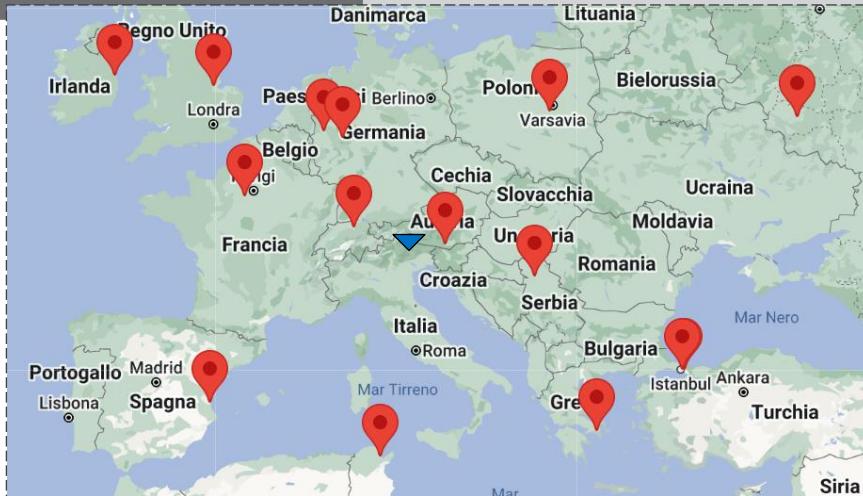
APPLICATIONS

PRODUCTS

WHERE WE ARE



AUTOMATION PARTNERS NETWORK WORLDWIDE



▼ CMZ HQ

▼ AUTOMATION PARTNERS

cmz.it/en/automation-partners

CMZ

soga  energYTEAM



cmz.it



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CMZ SISTEMI ELETTRONICI Srl

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