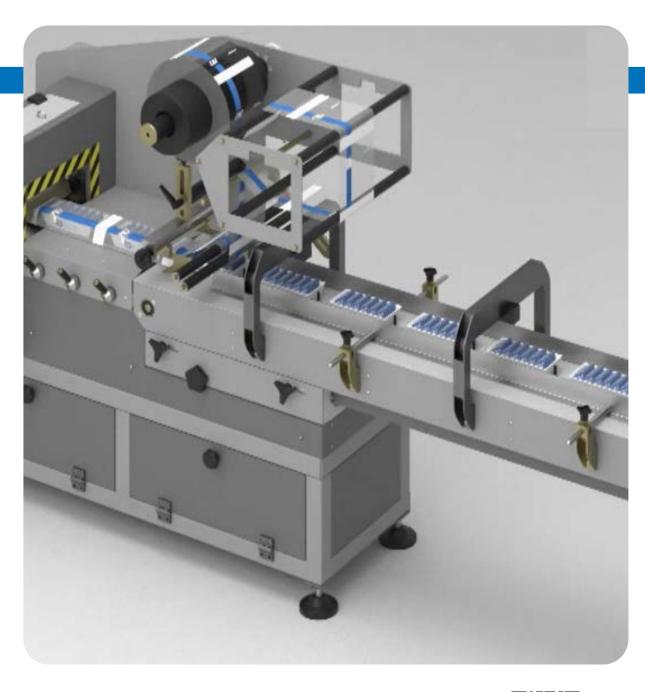
# Horizontal Form Fill Seal (HFFS)





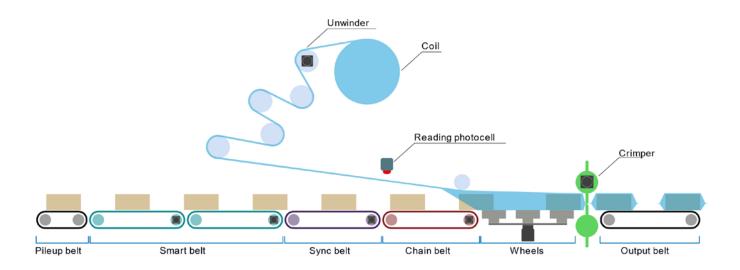


# CMZ OFFERS A COMPLETE SOLUTION FOR THE MANAGEMENT OF THE HORIZONTAL PACKAGING MACHINE.

This machine performs the following operations with continuous motion:

- Package formation
- Product insertion
- Longitudinal sealing
- Transverse sealing

The entire process takes place horizontally, ensuring an efficient and automated production flow.



### **APPLICATION VERSIONS**

The horizontal packaging machine is available in the following versions:

- **BASIC:** up to 4 synchronized axes
- PLUS: up to 8 synchronized axes
- **HIGH DYNAMIC:** with more than 8 synchronized axes
- **SLIM:** the HFFS Slim is a version with reduced functionalities compared to the HFFS. It meets the following market requirements:
- management of machines with 3 axes and reduced functionality/ services/configuration
- software customizable by the customer
- HMI, motors, and drives from third parties
- possibility of AddOns (already developed by CMZ)

# HORIZONTAL FORM FILL SEAL (HFFS)

# **DEVICES**

CMZ allows the management of different devices of the horizontal packaging machine, categorized as follows:

- Interfaces and signals
- Interface with the upstream machine
- Product feeding system
- Product loading
- Film feeding and package formation

- Package sealing and cutting
- Package unloading
- Interface with the downstream machine
- Temperature regulation
- Acoustic/visual signals

## **CMZ OFFERING**

		Base supply	Optional supply
SW	CODESYS Application	•	
SW	HMI Application	•	
SW	Managing TB20 modules to remote the I/Os	•	
SW	Managing of inverters	•	
SW	Managing of Industry 4.0	•	
SW	Customization to be defined		•
SW	Managing servo drives other than CMZ*		•
SW	Managing motors other than CMZ*		•
SW	Managing HMI other than CMZ*		•
SW	Customization: synchronization tape of the incoming product to the chain		
SW	Customization: accumulation tapes, with capping function (up to 4 tapes)		
SW	Customization: product level control for adjusting production speed		•
SW	Customization: auxiliary film pull roller (film feed)		
SW	Customization: automatic film reel change, with second unwinder management		
Service	Documentation to modify the software, use the interface and make the wiring diagram	•	
Service	3-day ACADEMY course on:  • general application  • program on FCT  • program on HMI  • AddOn  • commissioning management	•	
Service	1-day ACADEMY course on devices (if not familiar)		•

		Base supply	Optional supply
HW	Controller: FCT640, FCT641	•	
HW	НМІ	•	
HW	Drives SBD M / SBD L / SSD / IBD / ISD e NBD: nr. 3	•	
HW	Brushless motors from CMZ's catalog: nr. 3	•	
HW	TB20 Digital Input Modules: the type and number of modules depend on how many digital inputs are needed	•	
HW	TB20 Digital Output Modules: the type and number of modules depend on how many digital outputs are needed	•	
HW	TB20 IO modules: the type and number of modules depend on how many temperature sensors are needed and their type (thermocouples and/or resistance thermometers)	•	
HW	TB20 Analog Output Modules: the type and number of modules depend on how many analog outputs are needed		
HW	Router	•	
HW	TB20 modules to remote I/O: the type and number of modules depends on what and how many I/Os are needed		•
HW	Inverter film unwinder		•
HW	Inverter tape unwinder output		•

<sup>\*</sup>subject to verification by CMZ