

# Vertical Form Fill Seal (VFFS)

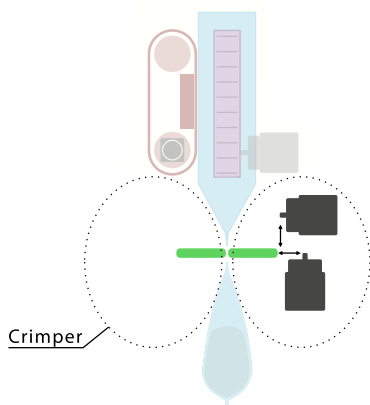
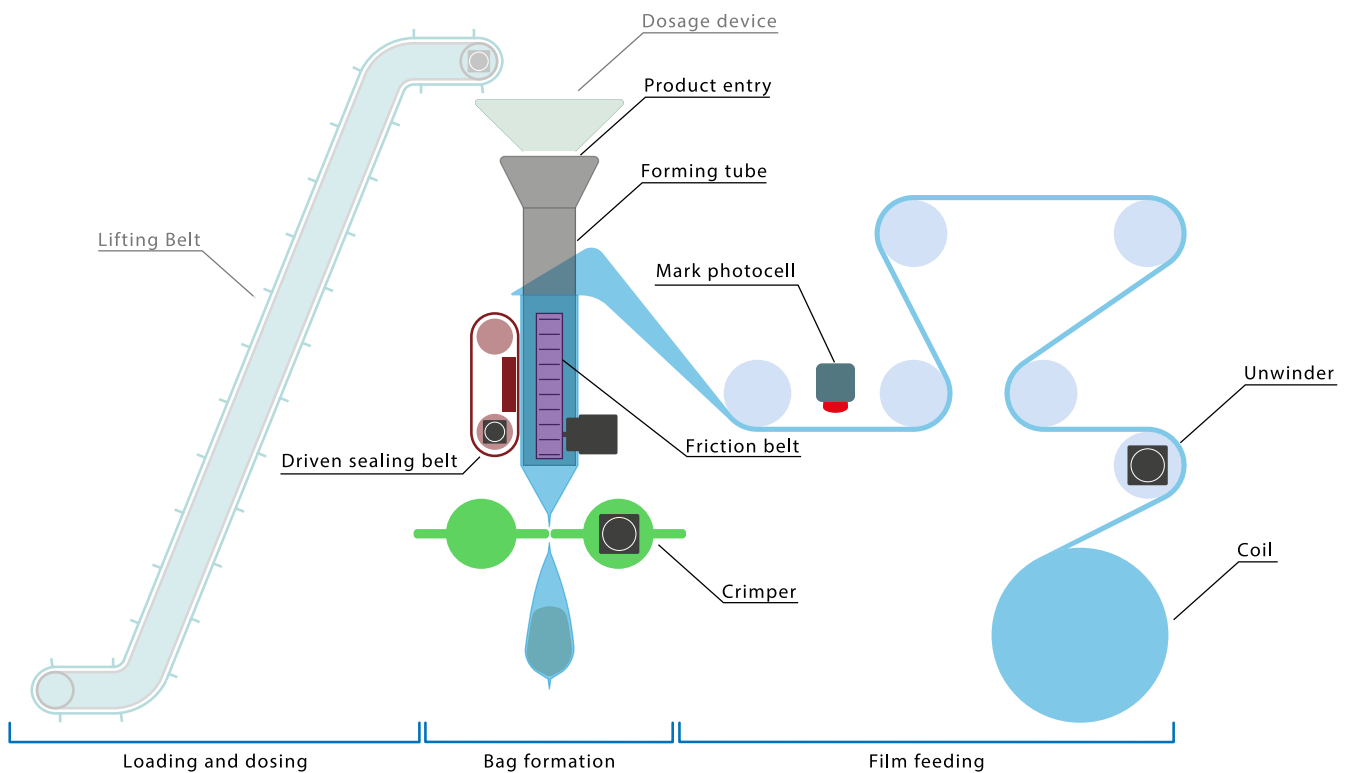


## CMZ OFFERS A COMPLETE SOLUTION FOR THE MANAGEMENT OF THE VERTICAL CONTINUOUS CYCLE PACKAGING MACHINE.

This machine performs the following operations with continuous motion:

- Package formation
- Longitudinal sealing
- Transverse sealing

The entire process takes place vertically, ensuring an efficient and automated production flow without any interruption in movement.



The crimper can be made with 1 motor or 2 motors. On the side is a representation with 2 motors.

## MACHINE ZONES

The application includes the management of the different operational zones of the packaging machine:

- Loading and dosing
- Film feeding: reel unwinding and centering
- Forming tube: film pulling and longitudinal sealing
- Package sealing and cutting
- Package unloading

## DEVICES

- Interfaces and signals
- Interface with the upstream machine
- Loading and Dosing
- Film Feeding
- Forming Tube
- Package Sealing and Cutting
- Package Unloading
- Interface with the downstream machine
- Temperature regulation
- Acoustic and Visual Signals

## CMZ OFFERING

		Base supply	Optional supply
SW	CODESYS Application	●	
SW	HMI Application with italian and english language	●	
SW	HMI operator interface manual (Italian/English)	●	
SW	HMI with other languages		●
SW	HMI of the client		●
SW	CMZ inverter management	●	
SW	Industry 4.0 management	●	
SW	Customizations (to be agreed)		●
SW	Managing of drives other than CMZ*		●
SW	Managing of motors other than CMZ*		●
SW	Third-party device management		●
SW	Dispenser management		●
SW	Automatic film reel change, with second unwinder management		●
Service	Initiating work to gather needs and share the CMZ proposal	●	
Service	<ul style="list-style-type: none"> <li>• Wiring Diagram of managed devices</li> <li>• Sharing manuals</li> </ul>	●	
Service	Customer logo customization on HMI	●	
Service	1-day ACADEMY course for: <ul style="list-style-type: none"> <li>• configuration from HMI</li> <li>• production startup</li> </ul>	●	
Service	2-day support for: <ul style="list-style-type: none"> <li>• supporting the machine wiring diagram</li> <li>• supporting the installation of the supplied devices</li> <li>• commissioning the machine</li> </ul>	●	
Service	1-day ACADEMY course for the use of devices (if not familiar)		●
Service	1-day ACADEMY course for configuration and production startup	●	
Service	After-sales service on a consensus basis		●

		Base supply	Optional supply
HW	Controller: FCT640, FCT641	●	
HW	TB20 Digital Input Modules: the type and number of modules depend on the needs	●	
HW	TB20 Digital Output Modules: the type and number of modules depend on the needs	●	
HW	TB20 Input temperature 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 the needs	●	
HW	HMI	●	
HW	Drives SBD M / SBD L / SSD / IBD / ISD e NBD	●	
HW	Brushless motors from CMZ catalogs	●	
HW	Router	●	
HW	Cables for connecting managed devices	●	
HW	Inverter film unwinder		●
HW	Inverter tape output		●
HW	Rotary table inverter		●

\*subject to verification by CMZ