# Multihead weigher

CMZ OFFERS A COMPLETE SOLUTION FOR THE MANAGEMENT OF MULTI-HEAD WEIGHERS WITH MOTORIZED BUCKETS USING STEPPER MOTORS.

The system, consisting of the scale, the pre-doser (optional), and the memory bucket (optional), is referred to as a **head**. The number of heads can range from 4 to 32.

A group of heads working together to determine the product's weight is called a **section**, with their number ranging from 1 to 4. The group of sections that feed the downstream packaging machine is called a **unit**. Units range from 1 to 2.
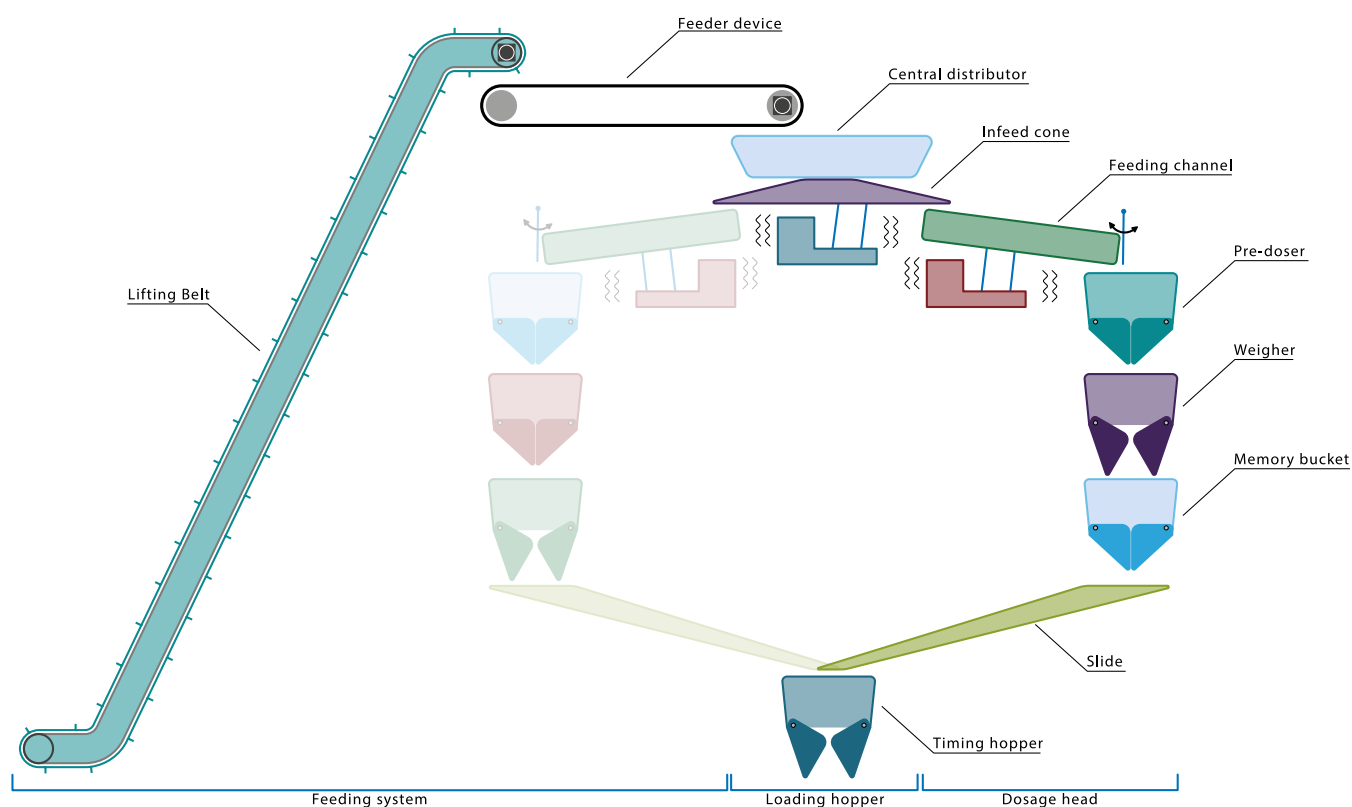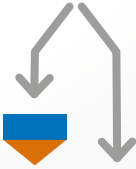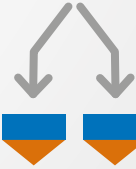
DEVICES

- Interfaces and signals
- Feeding system
- Loading hopper
- Central distributor
- Dosing head
- Refilling system
- Unloading system
- Quality interface and control

FEATURES

- Management of product loading and distribution
- Weighing optimization
- Combination algorithms and bucket management
- Unloading and refilling management
- Configuration of sections and units
- Dosing modes and interfacing
- Maintenance and diagnostics
- Monitoring and safety

DOSING HEAD CONFIGURATIONS

Description	1	2	3	4	Presence
Predosing					Optional
Scale					Always present
Memory baskets					Optional

CMZ OFFERING

		Base supply	Optional Supply
SW	CODESYS Application	●	
SW	HMI Application with Italian and English languages	●	
SW	HMI operator interface manual (Italian/English)	●	
SW	HMI with other languages		●
SW	Industry 4.0 management	●	
SW	Customization (to be defined)		●
SW	HMI Panel PC from client		●
SW	Stepper motors of third parties (driven by CPMSG0)		●
SW	Managing of third parties products		●

		Base supply	Optional Supply
Service	Initiating work to gather needs and share the CMZ proposal	●	
Service	• Wiring Diagram of managed devices • Sharing manuals	●	
Service	Customer logo customization on HMI	●	
Service	1-day ACADEMY course for: • configuration from HMI • production startup	●	
Service	3-day support for: • supporting the machine wiring diagram • supporting the installation of the supplied devices • commissioning the machine	●	
Service	1-day ACADEMY course for configuration and production startup	●	
Service	Post-sales assistance		●
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 Analog Input Modules: the type and number of modules depend on the needs	●	
HW	TB20 Analog Output Modules: the type and number of modules depend on the needs	●	
HW	HMI Panel PC	●	
HW	Drive vibrator: CP4PWM	●	
HW	Basket handling drive and load cell reading: CPMSG0	●	
HW	Basket motors (controlled by CPMSG0)	●	
HW	Router	●	
HW	Cables for connecting managed devices	●	
HW	Loading/unloading belt inverter		●
HW	Inverter rotary central distributor		●