



Clay MI-150

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DESCRIPTION

Automatic technological solution intended to fill-seal tubes composed of different materials. Machinery designed to handle tubes characterised by versatility of use, both in make-up and skin care, hair care and oral care. Compatible with precision dosing of mixtures with different bulk viscosities. Machinery characterised by a 15-position rotary table with an anticorodal disc with a thickness of 20 mm with removable and interchangeable bushing at format changeover. The solution can be customised and configured by adding the modules for the production and the level of automation required.

APPLICATION and CONSUMER OUTPUT

Make-up – Eyes, Face, Lips
Skin Care – Face, Body
Hair Care
Oral Care
Toiletry



TECHNICAL FEATURES

- Productivity: up to 3600 pcs/h
- Supported Formats:
 - Ø 10 mm – 60 mm
 - L 60 mm – 250 mm
- Internal volume 10/250 mL

ADVANTAGES

- Parts in contact with the product made of stainless steel AISI 316
- Extreme metering precision
- Production flexibility thanks to immediate format change
- Flexibility in filling and sealing or welding tubes made of different materials
- Ergonomic design for the maximum comfort for operators during processing
- Control the access from a single interface with self-diagnostic functionality and intuitive operator support
- Accessibility improved, high product visibility, maintenance and cleaning operations
- Safety guaranteed by 5 mm + 5 mm toughened and laminated glass
- Reliability of a robust construction for low maintenance and long service life
- Simplicity of control thanks to management systems, facilitated mechanical procedures and dedicated software
- Premium Partnership with Mitsubishi, Keyence, Festo

OPERATIONAL SEQUENCE

1. AUTOMATIC TUBE LOADING STATION

Automatic tube feeding by single tubes warehouse on a loading conveyor. Sensor to detect the minimum presence of tube. Vertical pin for the correct insertion of the tubes into the bushing

2. TUBE PRESENCE AND CORRECT INSERTION CHECK

The unit, equipped with a photocell, checks the presence of the tube inside the bushing, enables or inhibits subsequent operations

3. AUTOMATIC TUBE ORIENTATION STATION

Tube orientation managed by axial rotation of the bushing, driven by brushless motor. Presence of photocell for reference reading

4. TUBE DOSING STATION

Heated or unheated volumetric dosing unit, with temperature control from operator panel, for products of different viscosities. Dosing with motorised pump controlled by brushless servo-motor and dosing cylinder made of Aisi 316 stainless steel and FDA compliant. Dosing speed and volume adjustable from operator panel. Diving nozzle for correct dosing adjustable stroke. Vertical nozzle movement system realised with mechanical axis controlled by brushless servo motor. Nozzle up and down speed settable from operator panel

5. TUBE SEALING STATION

By mechanical clamps for aluminium tubes with single or double bends or by hot-air welding for other materials

6. EXCESS MATERIAL CUTTING AND BATCH MARKING STATION

A pair of jaws equipped with cutting blades removes the excess part of the weld and marks the batch

7. TUBE UNLOADING STATION

Unit equipped with vertical pin that extract the tube from the rotary table bushing and deposits it on the unloading belt.

INSIGHTS

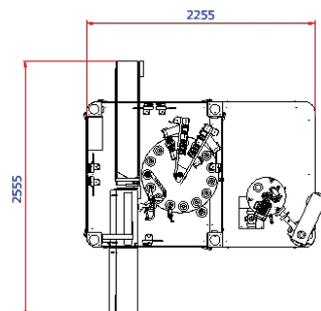
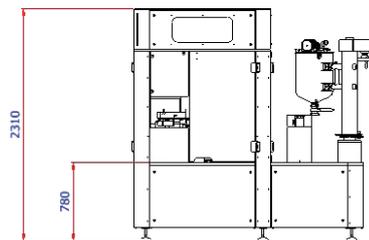
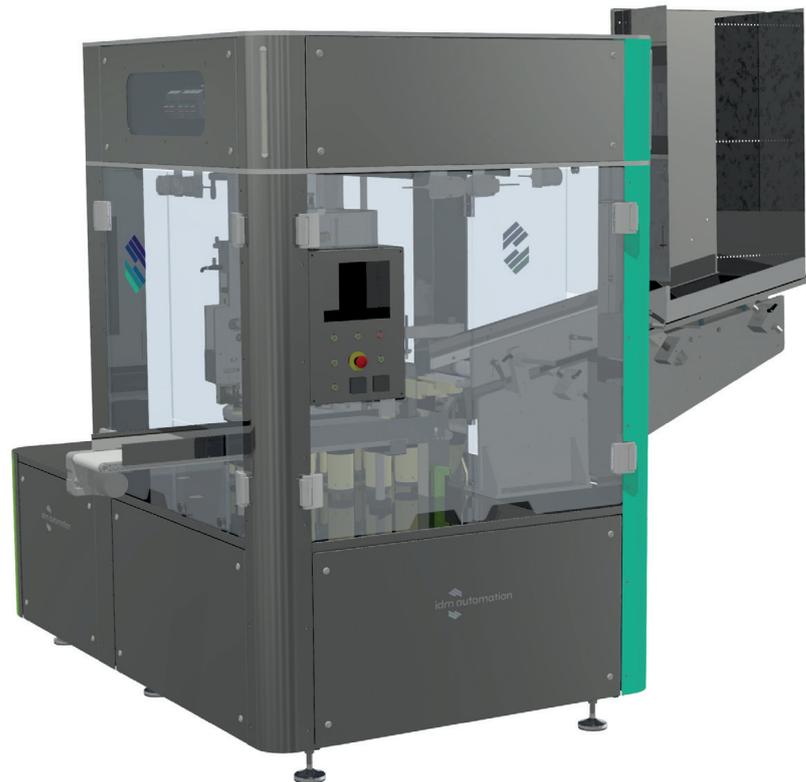
- Electrowelded steel frame painted with RAL 7035 fine textured powder with lower casings in 304 BA polished stainless steel, height-adjustable vibration-damping feet, upper panels in 5+5 mm thick tempered glass, machine ceiling cover and doors with safety microswitch with interlock
- Anticorodal platform covered with 304 BA polished stainless steel sheet and electrical panel on board
- Technological solution complying with regulations, complete with instruction manual.



CONFIGURATION



- Automatic tube loading station
- Tube presence and correct insertion check
- Automatic tube orientation station
- Tube dosing station
- Excess material cutting and batch marking station
- Tube unloading station





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