



Technodust IM-240

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DESCRIPTION

Technological solution intended to produce compact powders using the "wet" method by injecting slurry powder into special godets/(moulds):

- from a hole embedded in the bottom part (back injection);
- from a hole embedded in the side part (side injection);
- from the top (front injection);

The mixture of wet powders conveyed with the appropriate volatile solvent in dispersion form (slurry) is pressed while simultaneously applying vacuum for almost complete stripping of the solvent, which is then eliminated by subsequent passage through compacting and/or oven.

Integrated technological solution with two symmetrical operator stations with the possibility of making the interchange station fully automatic. Two control panels placed close to the operator stations, one for the injection and extraction zone, and one for the compacting and unloading zone, exclusively control their respective zones independently of each other.

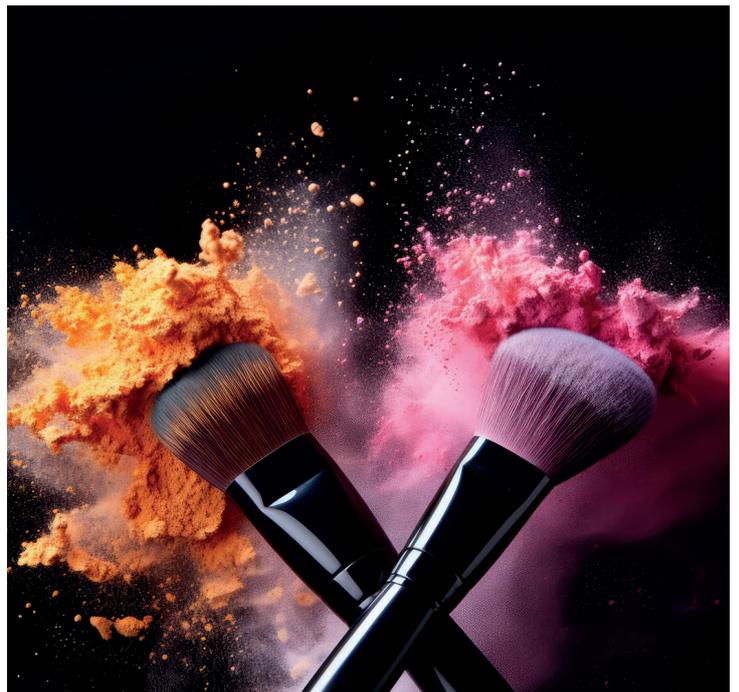
APPLICATION and CONSUMER OUTPUT

Make-up Eyes, Face & Cheeks



TECHNICAL FEATURES

- Productivity: up to 1500 pcs/h
- Internal Volume:
1/20 ml per single insert



ADVANTAGES

- Better pay-off and creamier texture
- Possibility of using larger quantities of pearls and mica
- Within the product the beads are oriented in the same direction, with a better yield
- The bottoms are filled with product up to the free edge
- High resistance to drop test
- Better operating conditions on the machine and high productivity
- Versatility and variety in output thanks to mono and/or polychromatic mixing of 6/12 colours simultaneously
- Speed in feasibility studies thanks to 3D technology
- Panel control with servomotor that allows greater linearity, avoiding the use of the pneumatic components
- Parts in contact with the product made of stainless steel AISI 316
- Production flexibility thanks to immediate format change with multi-position plate
- 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 and work areas protected by laser barriers
- 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. LOADING STATION

Positioning of the mould module in the product injection station and starting the cycle by recalling the recipe from the operator panel.

2. DOSING STATION

The dosing group provides for injecting the product through precision dosers that interface directly with the injection station that feeds the mould module of different color from each individual hopper.

3. EXCHANGE STATION

Extraction and positioning of the mould module in the exchange area where there is an extraction system that separates the preformed product from the mould, inserting it into the godets.

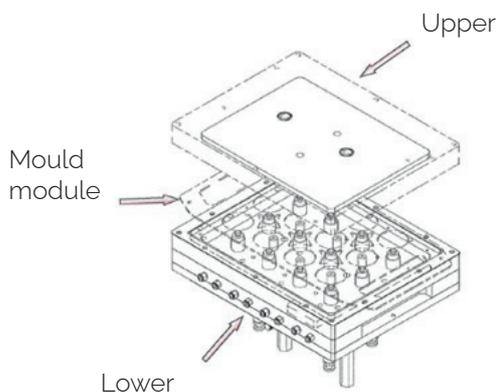
4. TRANSFER STATION

Transfer of the mould module with the product to the pressing station and start of the compacting cycle.

5. UNLOADING STATION

Extraction and storage of compacted final product on trays for oven drying

INSIGHTS



The basic component is the mould module.
The injection mould consists of two parts:

Upper:

- Suction chamber
- Microperforated suction plate

Lower:

- Shutter handling system
- Suction chamber
- Plate with micro-holes up to 12 positions
- Microperforated suction plate

In the mould module, the mixture is preformed and dried, which is then precisely injected from the dosing units into the plate with micro-holes. This is composed of:

- Support formed from laser-cut stainless steel sheet;
- Formed insert, made with 3D additive technology;

The formed insert represents the part of the mould that determines the shape and size of the final product, it is produced in 3D technology using CAD software. This type allows both single-cavity and multi-cavity inserts to be produced for each individual injection position.

Thanks to the application of this technology, several advantages can be appreciated in the realisation of formed inserts, including:

- Ease of cleaning through immersion in suitable washing liquids;
- Mould construction timing and production costs decreased;
- No shape limitation;
- Possibility of multi-coloured palettes due to the injection of the powder through the mould micro-holes

RAL 7035 fine textured powder-coated electro-welded steel frame with lower guards in polished 304 BA stainless steel, height-adjustable anti-vibration feet, upper panels in thick tempered glass. 5+5mm, machine top cover with stainless steel panels, doors with safety microswitch with interlock. Anticorodal platform covered with polished 304 BA stainless steel sheet and electrical panel on board the machine

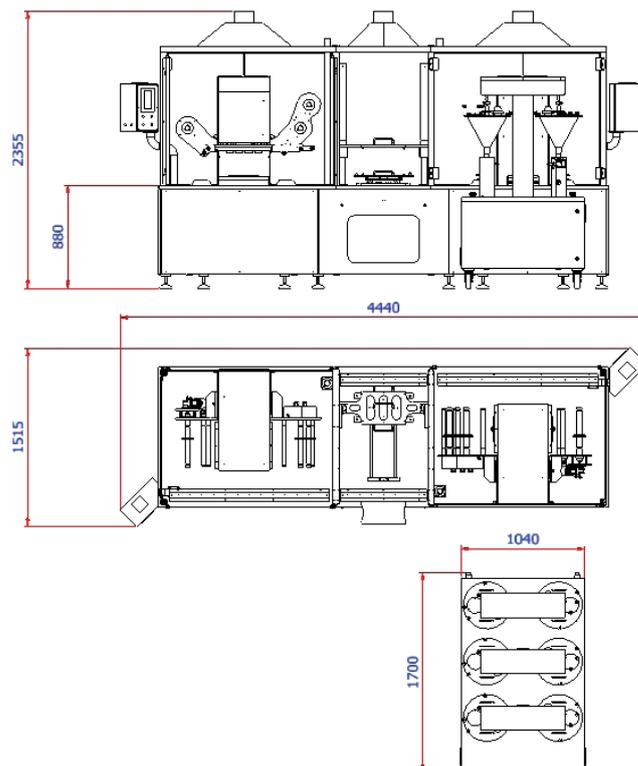
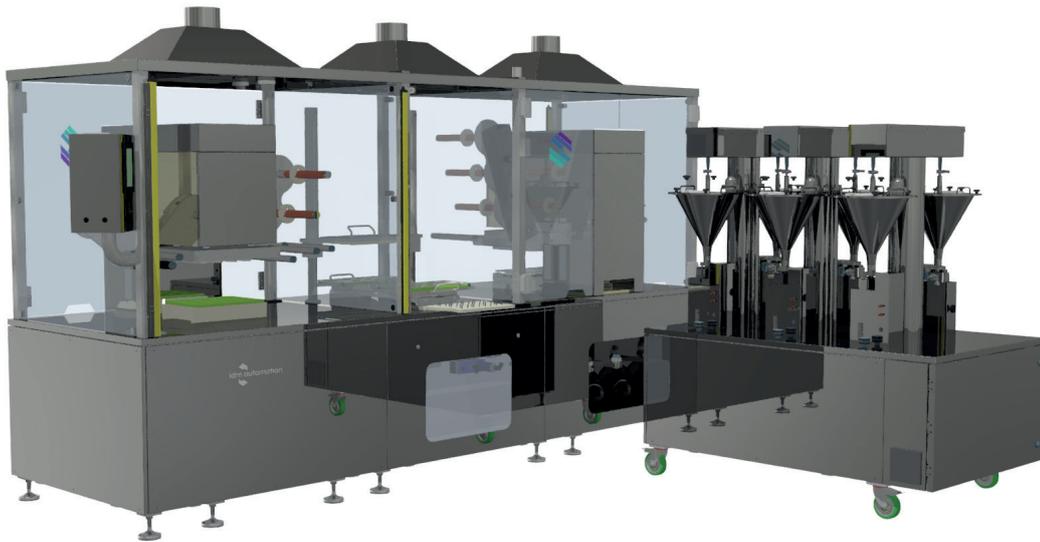
Technological solution compliant with regulations, complete with instruction manual





CONFIGURATION

- Loading Station
- Dosing station from 6 to 12 mixing heads
- Mixing hoppers with independent agitation system and volumetric dosers
- Injection station inside the mould equipped with cloth unwinding and rewinding module (up to 3 cloths) for absorbing excess of solvent
- Exchange station with semi-automatic mould extraction
- Compacting station equipped with cloth unwinding and rewinding module for absorbing excess solvent
- Transfer and unloading station
- Possibility of installing fume extraction devices on top of the machine





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