

FJ28

Depositor head for decoration



Individually controlled nozzle-jets

The "FJ28" is a depositing head with a straight row of nozzles that can "jet" droplets of liquid foodstuff at a high frequency. Every so-called "nozzle-jet" is individually controlled and can fire droplets with varying volumes, creating a dropwise pattern onto a detected moving object. This enables the operator to deposit or "print" graphical depositions consisting of a large number of defined droplets.

Hygienic, easy in use, and low maintenance

The depositing head is driven by compressed air; however, this does not come in contact with the foodstuff to be deposited, as the actuating membrane also functions as a seal. All food contact areas are stainless steel 316 and completely CIP-able. Maintenance is low, as there are no moving parts.

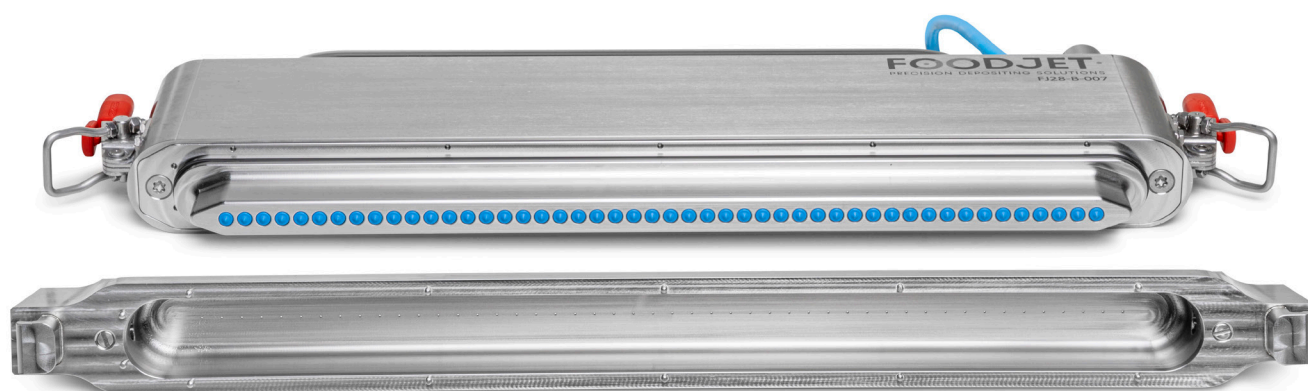
The only wear part is an easily replaceable silicone membrane (FDA-approved). The integrated controller board switches the valves with microsecond accuracy, and its memory allows up to 128 different patterns, which are easy to program using our FoodJet Designer Studio. Patterns or parameters can be modified during production without interruption.

Graphical decorating

The typical field of operation for this type of depositing head is graphical decorating. Printable liquids must be homogeneous with particle sizes smaller than 50% of the used nozzle diameter. Examples are low-viscosity liquids such as fat compounds, gels, glaze, oil/fats, and all sorts of water solutions.

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Technical specifications:

- Available with 24 or 48 nozzles.
- Nozzle sizes range between 400-1500 micron.
- Material printable with viscosities up to 1000cPs.
- Position accuracy better than 0.5 mm.
- Deposit weight reproducibility +/- 2%.
- Minimum droplet size 1.5mm.
- Nozzle frequency between 0-250Hz.
- Long pneumatic valve lifetime: 500,000,000 cycles.

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