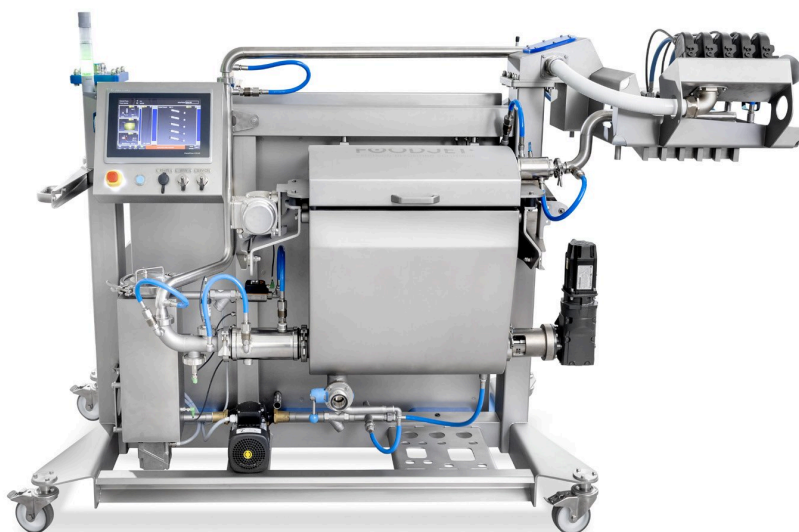




MDSUW

Mobile Depositor with Supply Unit Warm



Movable frame

Move it to the line where you need it, and away from it for cleaning. The MDSUW is a mobile depositor on a Z-shaped frame, with an integrated supply unit. A cantilevered beam carries the depositing heads over the conveyor. Lockable castors let you move the system in or out of the production line and make cleaning easier. The supply unit houses the pump, the control system with touchscreen HMI and a product holding tank. The frame docks onto an existing conveyor or stands on the floor. The frame is IP67, with a hygienic design and minimal external cabling, and is built to withstand demanding handling and intensive cleaning.

Accurate liquid temperature control

Chocolate, glazes and fat compounds stay at working temperature from tank to depositing head, up to 65 °C. The holding tank, the connecting pipes and hoses, and the depositing heads are heated with warm water from an electric central heater, which keeps the recirculating material at the set temperature. You can fill the holding tank from the top with pre-conditioned or heated material.

Tailored depositing range

Your line keeps running while the MDSUW deposits. The depositing heads sit directly over the moving conveyor and deposit accurately onto the products as they pass, without the need to start or stop. Each depositing head is a row of 48 individually controlled nozzles, so you choose on the HMI whether to fill a surface or deposit a graphical decoration. The depositing width is configured to your application. With more than one head, the sections combine into one continuous depositing range that covers a wider conveyor or several lanes side by side.

Highly accurate deposit volume

Deposit volume is digitally controlled to your setting. A sanitary progressing cavity pump, driven by a servomotor, draws the material from the stirred holding tank. It circulates the material through the depositing heads and back to the tank via a digitally controlled back-pressure regulator. This keeps the material homogeneous and the pressure even throughout the system, which helps prevent fluctuations in the deposit volume. Patterns and deposit volumes are selected on the HMI.

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Technical specifications:

- Models (max. effective width): MDSUW1 to MDSUW5: 100 to 500 mm, in steps of 100 mm
- Suitable depositing head: FJ40, 1 to 5 heads
- Temperature: up to 65 °C
- Product detection: photosensor product detection and conveyor speed encoder
- Operator functionality: HMI with pattern selection and operator settings
- Control platform: FJCP on Beckhoff IPC, 16" colour touchscreen HMI
- Electrical connection: 400V 3PH + N + GND, 50 Hz (EU); 480V 3PH + N + GND, 60 Hz (US)
- Compressed air: Festo air unit with filtering and digital pressure control; 6-8 bar, ISO 8573-1:2010 class 7.4.4

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