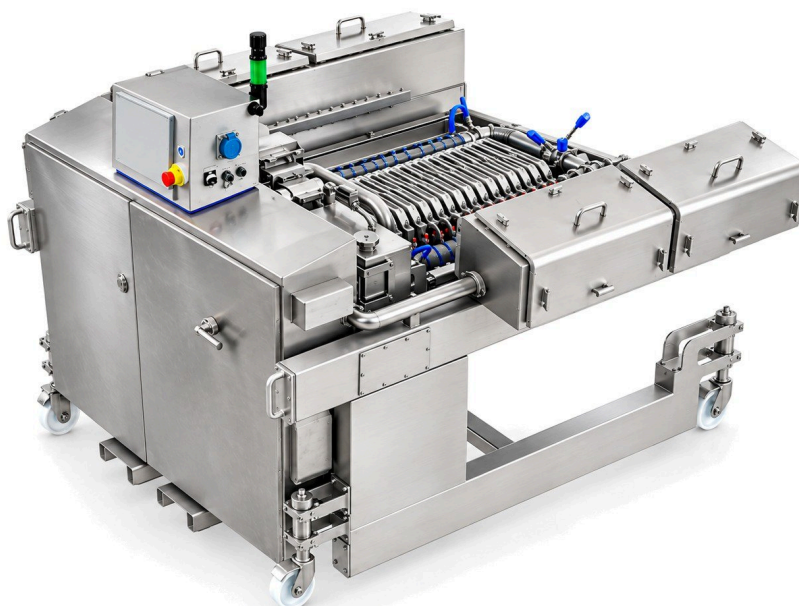




MDLVW

Mobile Depositor Large with Vision, Warm



Movable frame

The MDLVW is a movable C-frame that holds a row of depositing heads for decoration and precision filling. It contains a jacketed holding tank, a sanitary servo-driven double screw pump, jacketed mass supply piping and the control cabinet. The frame can be docked onto an existing conveyor system or onto the floor. The entire frame is IP67, sanitary design with minimal cabling on the outside. It is built for extremely harsh environments regarding handling and cleaning. The entire material circuit is CIP-able without any need for disassembly, with oil or hot water depending on the product.

High-resolution depositing

The depositing heads are positioned directly over the moving conveyors, so the depositing material can be accurately deposited on or into the products as they are transported, without the need to start or stop the line. Each head deposits on its own section of the conveyor belt. Together, these sections form one continuous depositing range that reaches products at any position across the effective width of the belt.

Adaptive process

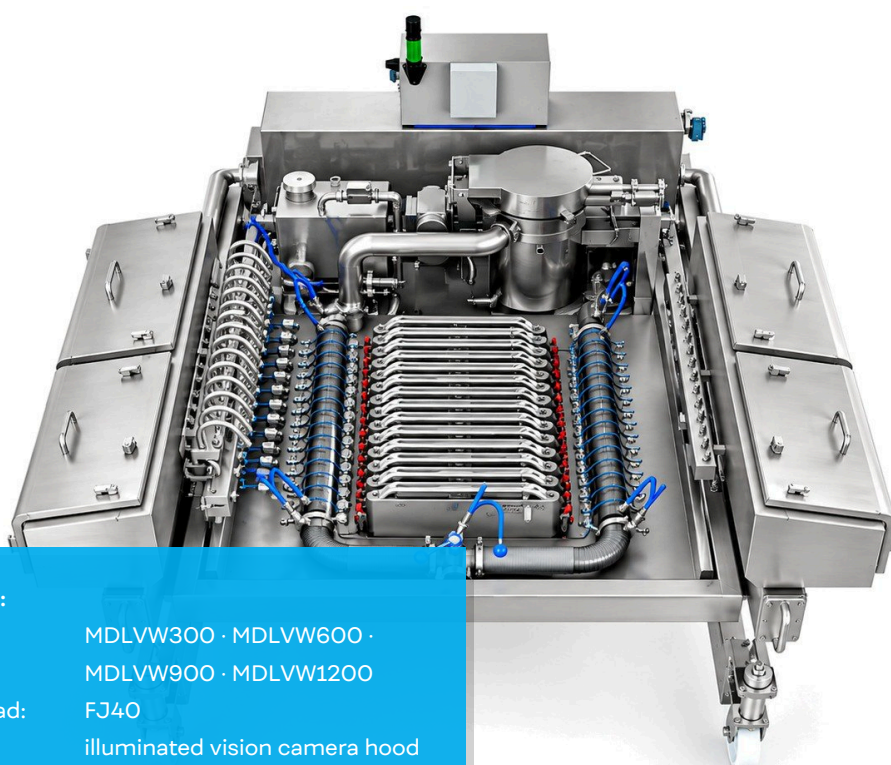
A vision system scans the conveyor belt and detects the position, orientation and shape of the incoming products. The control system translates this into a depositing pattern that follows the contours of the product or its indentations. The heads then apply a droplet pattern that matches the shape and position of each product, for clean decoration, surface covering or pocket filling.

Accurate liquid temperature control

The depositing head bays, connecting pipes and hoses, and the holding tank are water jacketed. An electrical central heater system circulates tracing water through the jacketed parts to keep the recirculating depositing material at an accurate temperature setpoint of up to 65 °C. The holding tank can be filled with pre-conditioned or heated depositing material from the top.

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Technical specifications:

- Models (max. effective width): MDLVW300 · MDLVW600 · MDLVW900 · MDLVW1200
- Suitable depositing head: FJ40
- Product detection: illuminated vision camera hood on the entry side
- Control platform: FJCP on Beckhoff IPC, HMI, EtherCAT bus
- Pump: sanitary servo-driven double screw pump
- Temperature: up to 65 °C
- Cleaning: CIP with oil or hot water, no disassembly
- Electrical connection: 400V 3PH + N + GND, 50 Hz (EU); 480V 3PH + N + GND, 60 Hz (US)
- Compressed air: 6-8 bar, ISO 8573-1:2010 class 7.4.4

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Ambachtsweg 49 | 6541 DA Nijmegen
The Netherlands | T +31 24 3790061
info@foodjet.com | www.foodjet.com

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