

MDMV

Mobile Depositor Medium with Vision



Movable frame

The MDMV is a movable C-frame that holds one or two large depositing heads. It contains the mass supply piping, pump, buffer tank, and 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.

Flexible depositing

The depositing heads are positioned directly over the moving conveyor, so the material is deposited on the products as they pass, without the need to start or stop the line. On the MDMV600 you choose how the two heads are placed. Side by side, they cover one continuous width of 600 mm. Set apart, they cover two lanes of up to 300 mm each, with an open space of up to 200 mm in between, within the 800 mm effective belt width. A camera system captures the contour of every product and adapts the patterns accordingly, keeping the deposit volumes constant despite shape variations.

Highly accurate deposit volume

Total volume control is done by means of the servo-driven volumetric pump, feeding a common rail to the heads. Advanced control loops and active buffering allow all individual heads to perform equally. The servo controller continuously calculates the pump's required rotational position based on forward information of the patterns to be deposited. This way, the deposit volume is digitally controlled to your setting.

Minimal operator interference

Once a product supply is connected, from a container or an external supply line, the MDMV takes care of buffering, pumping and depositing automatically. The operator selects the recipe and monitors production. Cleaning is just as straightforward: the complete material circuit is designed for CIP cleaning without disassembly, with minimal operator interference.

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Technical specifications:

- Models (max. effective width):
 - MDMV300: 300 mm
 - MDMV600: 600 mm, or two lanes of up to 300 mm with up to 200 mm in between
- Suitable depositing head: FJ31
- Product detection: illuminated vision camera hood on the entry side
- Operator functionality: recipe control, on-the-fly volume and position adjustments
- Control platform: FJCP on Beckhoff IPC, HMI, EtherCAT bus
- 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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