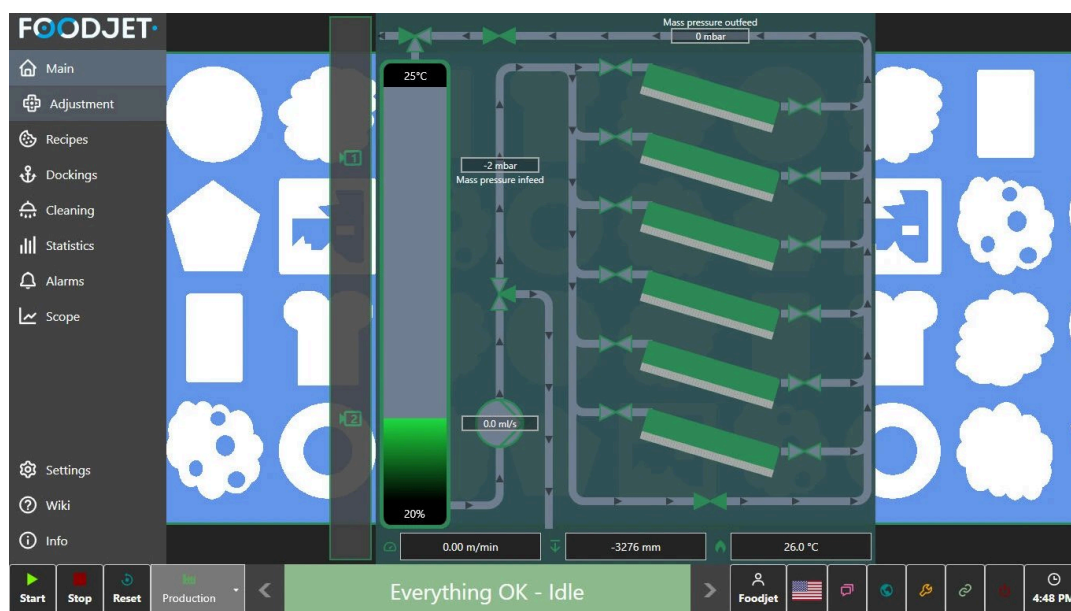


FJCP

FoodJet Control Platform



Industrial PC-based control

All new FoodJet depositing systems run on Beckhoff industrial PCs with dedicated FoodJet software. FoodJet developed 100% of this software in house, based on many years of experience in building high-end depositing equipment for the food industry.

The HMI shows a schematic P&I representation of the line and the depositor's components, with precise information about the machine's status during production. Every component can be tapped to view or adapt its settings in a user-friendly popup window. Menu and function buttons beside the machine representation give the operator access to recipes, docking position, pattern editor, settings, statistics and alarms. The software supports multiple languages and multi-level login.

Detection of product shapes and freeform pattern generator

On machines with vision, FJCP uses multiple line-scan cameras with linear LED lighting to detect the products. This robust measurement method determines the exact outer shape of moving products. With the optional freeform pattern generator, FJCP then calculates droplet patterns on the fly that match the varying shapes measured by the cameras, and streams them directly to the depositing heads over a high-speed EtherCAT bus.

The algorithms that place hundreds of droplets in a product shape can be tuned in the recipe settings.

The controller also makes sure every individual product gets the correct volume. By looking ahead in time, it determines the synchronisation of the velocity profiles sent to the servo-driven volumetric pumps.

Novice operator HMI screen and RFID login

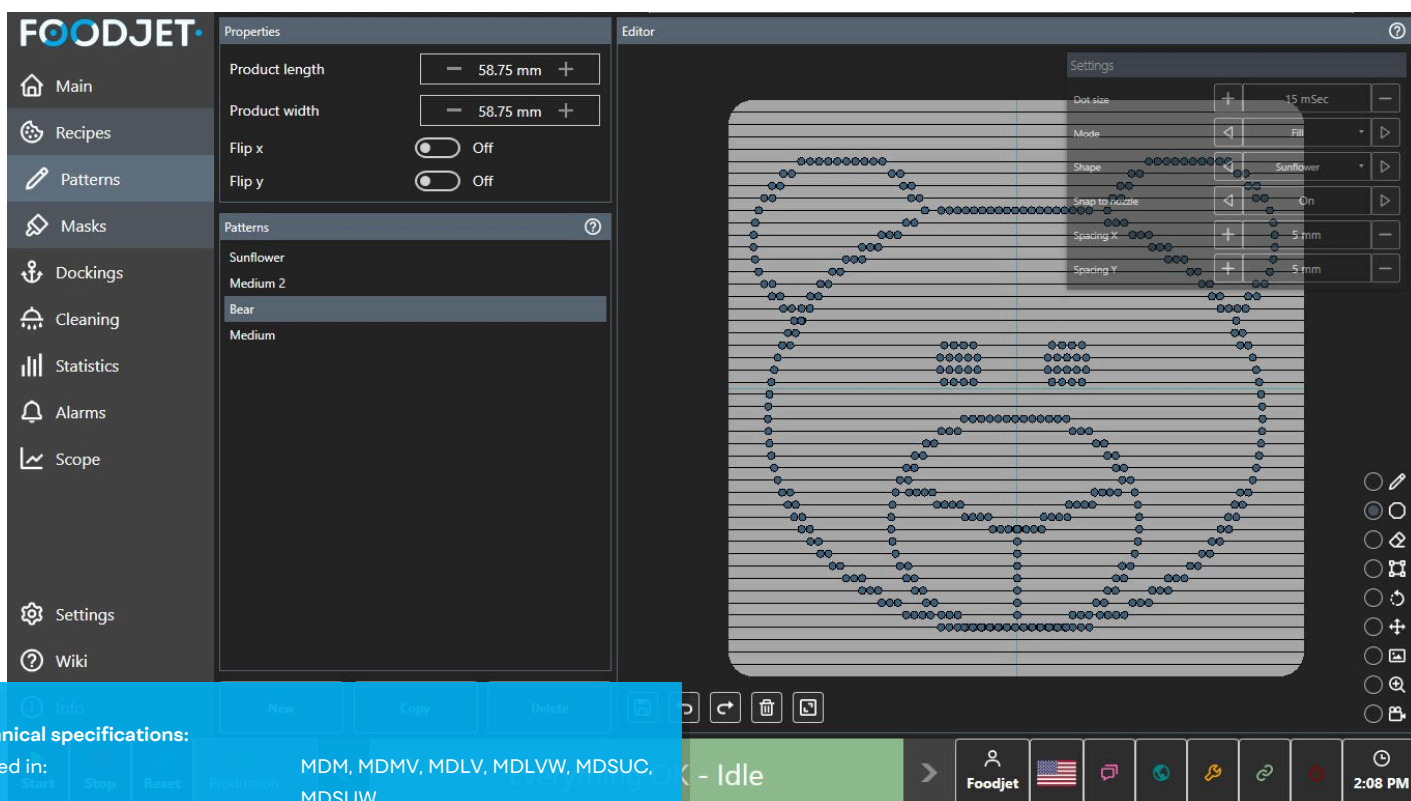
New technology can be overwhelming for operators who start working with a high-end depositing system. For this first period, the operator can switch to a strongly simplified HMI screen, which makes adoption on the work floor easier. Inline help, a built-in wiki on the HMI, explains functions and settings where the operator needs them. An RFID reader for quick operator login is available as an option. Every machine action is linked to a user and logged, so everything done during production can be traced.

Options

FJCP is modular. Depending on the machine, functionality can be extended with options such as a statistical module that analyses production data, a power monitor, and a graphical editor for mask shapes and custom droplet patterns. Other options are available on request.

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Technical specifications:

- Used in: MDM, MDMV, MDLV, MDLVW, MDSUC, MDSUW
- Hardware: Beckhoff IPC, 16" touchscreen HMI (21" from 10 heads)
- Fieldbus: EtherCAT
- Product detection: line-scan cameras with LED lighting (vision machines)
- Pattern generation: freeform pattern generator, on the fly (option)
- User management: multi-level logon, action logging; RFID logon (option)
- Languages: multi-language HMI
- Data interface: MQTT (option)
- Options: statistical module, power monitor, graphical editor and more

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