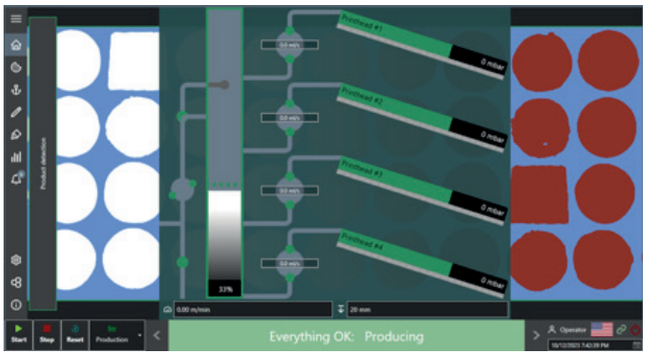
FJCP

FoodJet Control Platform



Industrial PC-based control is the future

The most advanced FoodJet depositing systems using Motion and Vision technology now run on generic hardware, but with dedicated Foodjet software. Foodjet itself developed 100% of this software in house, as the result of many years of work and experience in building high end depositing equipment for the food industry.

The HMI depicts a schematic P&I representation of the line and depositor's components that give precise information about the machine's status when in use. All components can be tapped to view or adapt settings or properties in a user-friendly popup window.

Menu and function buttons on the side of the machine representation give the operator access to other pages for recipe, docking position, pattern editor, settings, stats and alarms.
The software supports multi-language visualisation and multi-level logon functionality.

Detection of product shapes & freeform pattern generator

FJCP uses multiple line-scan cameras with linear LED lighting for the detection of the products. This robust measurement method determines the exact outer shape of moving products. Furthermore, FJCP is equipped with a controller that generates dropwise patterns that precisely match these varying shapes of products measured by the cameras. This so-called freeform pattern generator automatically calculates the droplet patterns on the fly and streams the information directly to the depositor heads over a high-speed industrial bus. The powerful algorithms that determine the hundreds of droplet positions in a blob shape can be manipulated within the recipe settings.

The controller also has an important function in getting the correct volume on individual products. By looking ahead in time, it can determine the required synchronisation for the velocity profiles directed to the servo-driven volumetric pumps.

Novice operator HMI screen & RFID tag logon

Foodjet understands that technological possibilities can sometimes be overwhelming for operators starting to work with a high end depositing system. For this first period, one could revert to a strongly simplified HMI screen, ensuring an easier adoption of the technology on the work floor.

For easy operator level logon, a RFID reader is offered as an option to the machine. To keep track on all that was done during production, all machine actions taken are linked to a user and logged.

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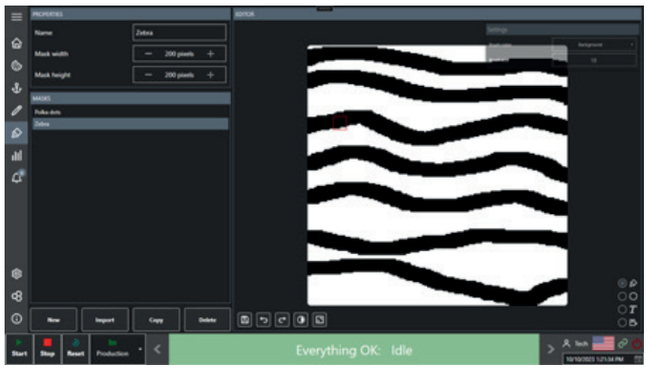
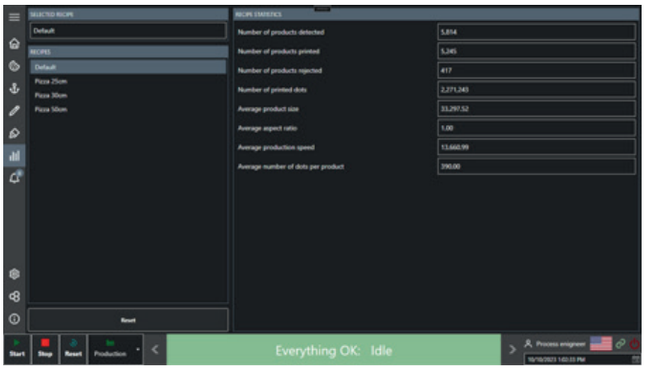
Options : Graphical editing

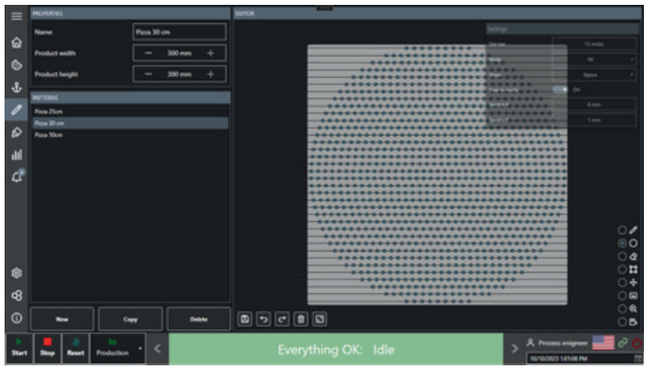
Sometimes a perfect surface fill is not even enough. Where consumers are looking for branding or personalisation, FJCP can offer all the possibilities from the digital world. The graphical editor allows the operator to set up mask shapes that are left as undeposited shapes on the product, giving it an exciting new look. Or even start from scratch and design a unique droplet pattern in our paint-like environment for maximum customization effect.

Options : Statistical module & power monitor

Modern food production requires a firm grasp on quality and keeping your eyes on the ball. The FJCP offers big data about the production line over a MQTT interface, Artificial Intelligence quality control on camera measured input products and statistical analysis on production data to identify trends and root causes.
Energy consumption of your FoodJet depositing system can now also be tracked in detail and reported on demand with our power monitor option.







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