



INTELLIGENT FILLER CLIPPER INTERFACE (IFC)

Perfectly synchronised for maximum productivity.

ADVANTAGES

- Up to 10% higher production capacity thanks to optimum synchronisation of Handtmann VF 800 vacuum filler and Poly-clip clipper
- Extremely simple operation and product parameter setting for reliable start of production and operation even for inexperienced operating personnel
- Production reliability thanks to automatic plausibility check of setting parameters
- Reduced mechanical wear and low noise level due to controlled overlap of portioning and clipping cycles
- Significant reduction of casing bursts increases productivity and reduces costs





IFC is the intelligent interface between VF 800 vacuum filler and Poly-clip clipper. The IFC interface adds an Ethernet data coupling to the standard sequence control of the production process via reciprocal signals. This facilitates real time communication between the machines. Product and filling settings are automatically transferred between the filling machine and the clipper and status information is exchanged. This makes operating the system considerably easier. After the product data has been entered in the clipper, the vacuum filler

automatically calculates the optimum filling and portioning parameters. They are transferred to the clipper where the basic data for safely starting the filling process is calculated. Bidirectional program change is possible. This means that the program can be changed both at the VF 800 and the clipper and the other machine changes the program as well. When the operator changes the filling output while the system is running, the overall process is automatically adapted and the risk of casing bursts is thus reduced significantly.

IMPROVED PERFORMANCE DUE TO DIGITAL NETWORKING

Due to synchronisation and controlled overlapping of portioning and clipping cycles, wear-promoting maximum acceleration and deceleration of the drives in vacuum filler and clipper are avoided and higher output is achieved.

Clipped liver sausage, 125 g portion, 38 calibre
 Maximum achievable portioning capacity:
 VF 800 + Poly-clip FCA without IFC: 163 port./min.
 (with optimally coordinated parameters)
 VF 800 + Poly-clip FCA with IFC: 183 port./min.
→ more than 10% higher production output due to IFC interface

IFC INTERFACE COMMUNICATION

Sequence control via real-time signals:

- Start signal (clipper → VF 800)
- Clipping signal (VF 800 → clipper)
- Emergency stop signal (VF 800 → clipper)

Data coupling via Ethernet:

- Synchronised program change (clipper → VF 800)
- Product settings (clipper → VF 800)
- Filling times (VF 800 → clipper)
- Status information (VF 800 ↔ clipper)

MACHINE SETTINGS

1. Entry of product data at clipper:
 - Portion size
 - Portioning speed
 - Filling calibre
2. Optimum filling and portioning parameters calculated by the VF 800
3. Basic data for a reliable start calculated by the clipper

TECHNICAL PREREQUISITES

Handtmann VF 800 equipped with

- HFM activation for IFC interface
- X46 auxiliary socket

Poly-clip automatic double clippers with PC control (FCA and ICA models)

- IFC interface

Connection cable for real-time data exchange



↑ Setting parameters at vacuum filler deactivated, operation at clipper



↑ Clipper settings