



THE FOMACO IWC SYSTEM INTELLIGENT IN-LINE WEIGHT CONTROL

IWC SYSTEM / CONSISTENCY / ACCURACY / DELIVERED!

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Accuracy and consistency are keywords when adding brine and marinade to products. Many measures can be taken to ensure the uniformity of end products, one of them being monitoring the weight before and after injection.

Consisting of two individual weighing units continuously measuring the weight prior to and after injection, the Fomaco In-line Weight Control system (IWC) does exactly that. This unique system is extremely valuable when wanting to ensure precise brine injection throughout the production day, as it enables you to constantly monitor the weight of your products.



BUILT-IN STATE-OF-THE-ART TECHNOLOGY

Inside out the IWC system is exclusively made from quality materials and components. Therefore, it is no coincidence that Fomaco has chosen to use Eilersen digital load cells for its weighing units. Based on capacitive technology, this advanced piece of technology ensures the highest accuracy possible thus giving you the most uniform production results.



EASY FITTING - SIMPLE WORKFLOW

Because the IWC system is part of the complete Fomaco processing line, the weighing units of the IWC system are easily added to your existing M3 injector. The conveyor belts of the weighing units are designed to always run in synchronisation with the M3 conveyor belt, a process that is both unique and keeps your workflow simple and hassle-free.

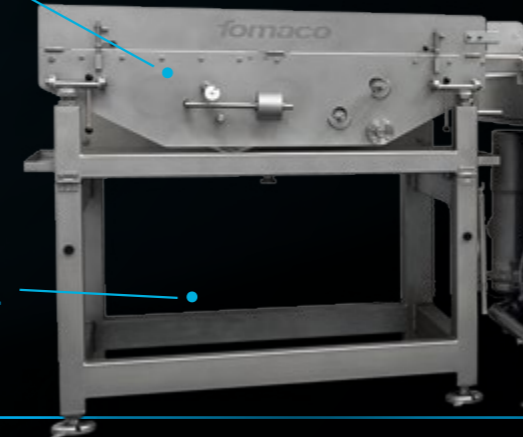


Serving the food industry for 40 years



SYNCHRONISED WITH THE M3 CONVEYOR

INLET WEIGHING UNIT

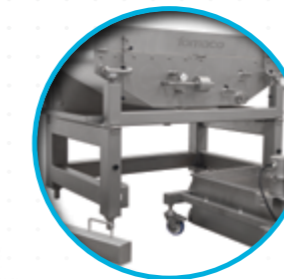


HOW IT WORKS

The IWC system's two weighing units are attached to the inlet and outlet of the M3 injector conveyor, which makes it possible for the IWC system to weigh the products both prior to and after injection. The weight difference between the two is therefore the actual weight gain.

The load cell system inside the two weighing units measure the weight and send the data to the control system, where the data is compared to the pre-set injection percentage. In case of any irregularities between the two data sets, the IWC system automatically adjusts the pump pressure.

The entire process is controlled using the touch screen on the M3 injector and can be exported to an external production management system detailing information such as the actual pick up, injection percentage, and kg/batch. Moreover, the data serves as internal documentation for operators and Quality Assurance (QA).



FULL CONTROL

With the IWC system you are not only able to monitor the weight increase and fully control the injection percentage, it also allows you to drain excess brine from the products, achieving a more precise end result.



CLOSED RIGID FRAME STRUCTURE

OUTLET WEIGHING UNIT



TECHNICAL SPECIFICATIONS

Frame structure

A closed rigid frame structure made of RHS and SHS pipes, mounted on solid machine feet. The feet consist of a footplate with separate spindle, where the floor attached footplates also act as a positioning system.

Movability

By use of pallet truck

Conveyer belt

Intralox-serie 1100 Flush Grid
Material: Polyethylene

Drive

AMK iDT 4, 48 V low voltage servo motor
Apex Dynamics planetary gear

Data transfer and processing

Microsoft Excel

Data transfer via FTP, where data is downloaded on a local PC and processed in a Fomaco Excel template.

SCADA

Configured to and collected in a Modbus TCP/IP connection.

Power consumption

Approx. 0.25 kW/unit
Powered by the injector

Degree of encapsulation

IP 68

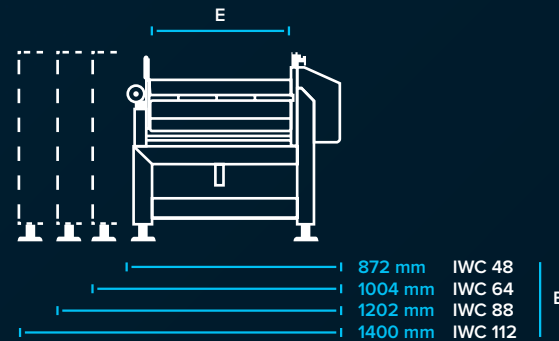
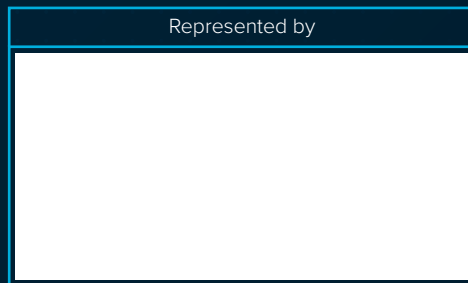
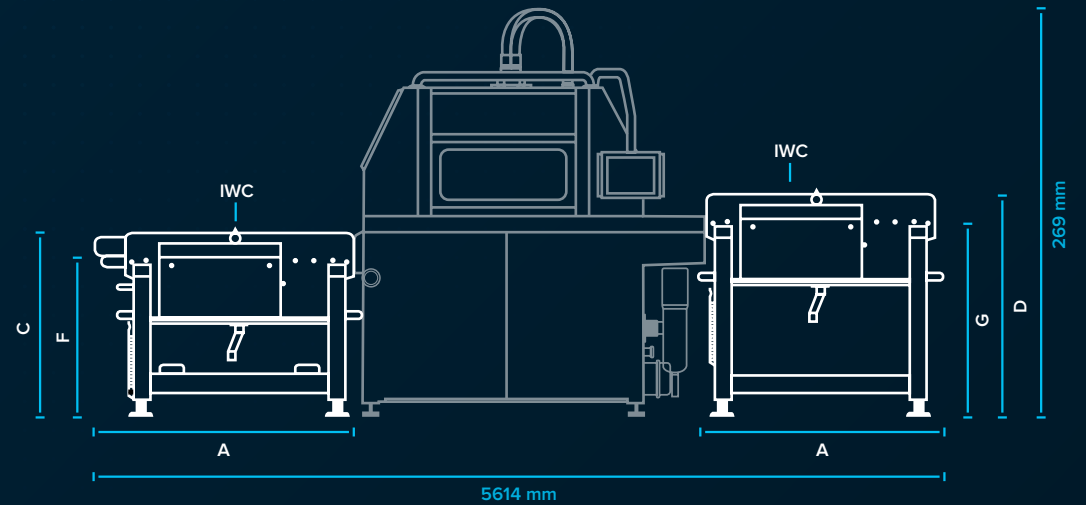
Compatibility

FGM 48 / FGM 64 / FGM 88 / FGM 112



TECHNICAL SPECIFICATIONS

DIM.	IWC 48	IWC 64	IWC 88	IWC 112
A	1700 mm	1700 mm	1700 mm	1700 mm
B	872 mm	1004 mm	1202 mm	1400 mm
C	1205 mm	1205 mm	1205 mm	1205 mm
D	1465 mm	1465 mm	1465 mm	1465 mm
E	420 mm	550 mm	750 mm	950 mm
F	1060 mm	1060 mm	1060 mm	1060 mm
G	1320 mm	1320 mm	1320 mm	1320 mm
H	160 mm	160 mm	160 mm	160 mm
Weight	530 kg	550 kg	580 kg	615 kg



fomaco
CURING- AND MARINATING SYSTEMS