

HANDTMANN MULTI-FORMING LINE

Automation from filling to depositing into trays





FULLY AUTOMATIC DEPOSITING

Depositing of minced meat portions or formed products into trays

FORMED PRODUCTS/MINCED MEAT PORTIONS

Flexible process through a modular structure

The new multi-forming line is an effective turnkey solution for the automatic depositing of formed products or minced meat portions into trays. Medium-scale and industrial producers from the meat or general food sector, such as producers of dairy, convenience and vegetarian products, benefit from the significant rationalisation effect of this automation solution. A major advantage is the hygienic design of the entire line, from the vacuum filler to the tray denester, which ensures excellent hygiene conditions for production.

The multi-forming line is a modular process solution, from filling and portioning through to packaging. The individual machines are easily controlled as a turnkey solution through the Handtmann vacuum filler. Other modules can be integrated as an option, such as a weighing system or a paper inserter. Basically, the multi-forming line can be used as a system combination for formed products with the MBF1 forming system, or for minced meat portions with the integrated GMD 99-2/GMD 99-3 minced meat portioner. Easy and fast replacement of MBF1 and GMD 99-2/GMD 99-3 possible without realignment of the line.

ADVANTAGES OF THE AUTOMATION SOLUTION

- Significant cost savings due to less manpower (no manual depositing)
- Flawless, hygienic production process due to reduction of manual intervention
- Weights of formed products and minced meat portions accurate to the gram
- Perfect appearance of the products inside the packaging as there are no more pressure points from manual intervention
- High rationalisation effect and significantly increased economic efficiency due to perfect interplay of individual machines in a single turnkey solution
- Standardised interface for downstream devices, such as packaging machines
- Intelligent start/stop/pause scenarios avoid product waste
- Real-time signal transmission for optimal process synchronisation

ADVANTAGES THROUGH MODULAR STRUCTURE

- Flexibility in production thanks to replacement of MBF1 multi-forming system and GMD 99-2/GMD 99-3 minced meat portioner
- Large variety of products and shapes with MBF1: round, square, longish and other shapes are possible, such as burgers, slices and sticks in variable product size
- OPTIONAL MODULES
 - Handtmann WS 910 weighing system
 - VPI paper inserter from Verbufo



- Central program change and error messages from all modules via VF 800 or VF 600 (PCK4 control system) using Handtmann Line Control with modern OPC-UA interface
- Starting/stopping the entire line from all modules
- Complete automation process with the freedom to integrate optional add-on modules
- Optional process solution networking with HCU software

PERFORMANCE PARAMETERS	FORMED PRODUCTS (meat, fish, vegetables, vegan...) e.g. burgers, croquettes, sticks, Adana	MINCED MEAT PORTIONS (meat) e.g. minced meat portions, rib burgers, cevapcici, minced meat strips, meatloaves
Portion weight	50 g to 250 g	200 g to 2,000 g
Product length	30 to 260 mm	100 to 260 mm
Product width	30 to 170 mm	80 mm to 160 mm (with letterbox-shape hole plate) 140 mm to 220 mm (with eye-shape hole plate)
Product height	10 to 70 mm	up to 70 mm
Production output	up to 110 products/min. or up to 60 trays/min.	up to 60 trays/min.
Flattening height	10 to 70 mm	-
Profile rollers	Various variants can be selected	-
Depositing (with/without paper insert)	Single depositing	Individual portion
	Shingled depositing	Double portion
	Stacked depositing	
PERFORMANCE PARAMETERS	TRAY TYPES Hard plastic trays or foamed polystyrene trays	
Length	150 to 325 mm (in transporting direction of the trays)	
Width	120 to 265 mm	
Height	35 to 75 mm	
Production output	up to 110 portions/min. or up to 60 trays/min. (loaded trays)	



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8,920,221; 6,494,311; 8,231,442; 8,251,783; 7,614,942; 7,766,729;
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