

FILLING AND SEALING MACHINE FOR THE HIGHEST PERFORMANCE



The Rychiger FS 1450 fills and seals prefabricated portion packs of all kinds. The unique «Walking Beam» transport system with beam construction prevents product spills from being carried through the machine, can be wet cleaned and meets the most demanding hygienic standards. The FS 1450 is of modular construction, can be configured in any order and is flexibly adaptable to just about any product, packing material and process requirements.

Sealing and Transport Module

- Heat sealing or ultrasonic technology
- Ultra-precise sealing station with closed force flow
- Servo-mechanically driven knee-lever sealing system
- Single tools with highly precise sealing pressure
- Individual temperature control of each sealing tool
- Automatic sealing beam lift system with side retractability for easy access to sealing tools
- «Walking Beam» transport system (beam construction)
- Robust modular design with servo-motor drive (king shaft)
- Overlapping movements positively controlled by cams for maximum process reliability

Punching and Sealing from Roll Stock

- Punching and sealing in a single step (One-Stroke technology)
- Various punching dies for aluminium and plastic foils
- Specialized Rychiger foil guide: 15-30% less material consumption compared with other systems

Sealing of Pre-Cut Lids

- Automatic filling of lid magazine from carousel
- Lid feed from magazine directly into sealing tool
- Lids vacuum fixed on sealing tool
- Absolute centred sealing of lid and container

Transport Module

- «Walking Beam» transport system (beam construction)
- Separation of process area and drives
- Mechanical drive coupled to sealing module (king shaft)
- Flexible integration of additional process functions

Container Destacking

- Versions with knife or sliding plates
- Manual or automatic loading to stacking magazines

Container Exit

- Exit slide
- Pick-and-Place system
- Option: Integrated reject-system

Product Filler

- Liquids
- Pasty/highly pasty products
- Chunky products
- Powdered products

Controls/Operation

- Touch screen with process visualization
- Permanent monitoring of all relevant process parameters
- Control from Allen Bradley
- Other manufacturers on request

Optional Additional Functions

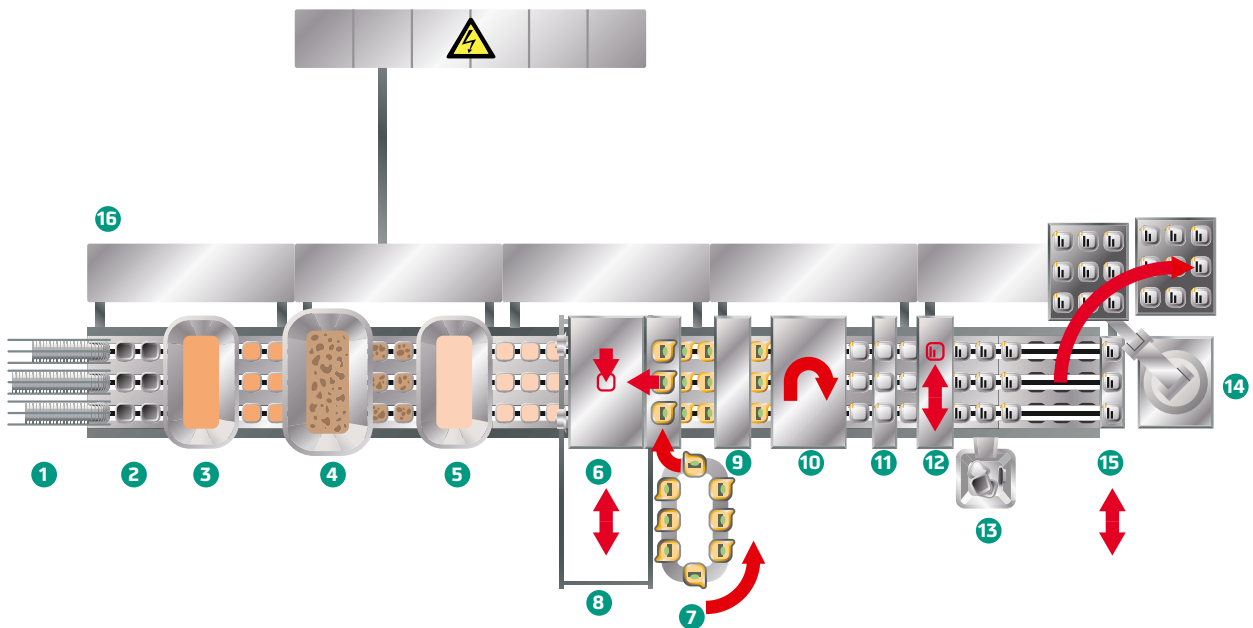
- Seamless integration of further product-specific functions over standardized interfaces, e.g. robotics, inspection and camera systems, third-party filler, check weigher, container inverter, ink jet, etc.

TECHNICAL DATA FS 1450

Container Dimensions [mm]	Container Height [mm] *	Lanes	Cycles [/min]	Output [/min]	Output [/h]	Weight [kg]	Voltage	Compressed Air	Cooling Water
∅60	70	16	50	800	48000	~ 12000	3x400V/460V 50Hz/60Hz 30-60kW	6bar ~10l/min	3-5l/min
∅70	70	14	50	700	42000				
□90x90	70	10	50	500	30000				
∅100	70	10	50	500	30000				
□115x115	70	9	50	450	27000				
∅130	70	8	45	360	21600				

* Sealing of pre-cut lids: container height 55 mm
 Technical data can vary depending on container dimensions and shapes, filling goods, material specifications and line configuration.

PROCESS (EXAMPLE)



- 1 Container magazine
- 2 Destacker in «Walking Beam» transport system (beam construction)
- 3 Product filler 1 with integrated container lift
- 4 Product filler 2 with integrated container lift
- 5 Product filler 3 with integrated container lift
- 6 Heat sealing unit with lid feed from magazine
- 7 Automatic filling of lid magazine from carousel
- 8 Automatic sealing beam lift system with side retractability
- 9 Vision System
- 10 Container inverter with integrated tab bender
- 11 Check weigher (single-lane drive)
- 12 Ink jet
- 13 Reject-System (single-lane drive)
- 14 Pick-and-Place system
- 15 Sampling Drawer
- 16 Drives and components (separated from process area)



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