

F37 & F37-X

The smart drivers

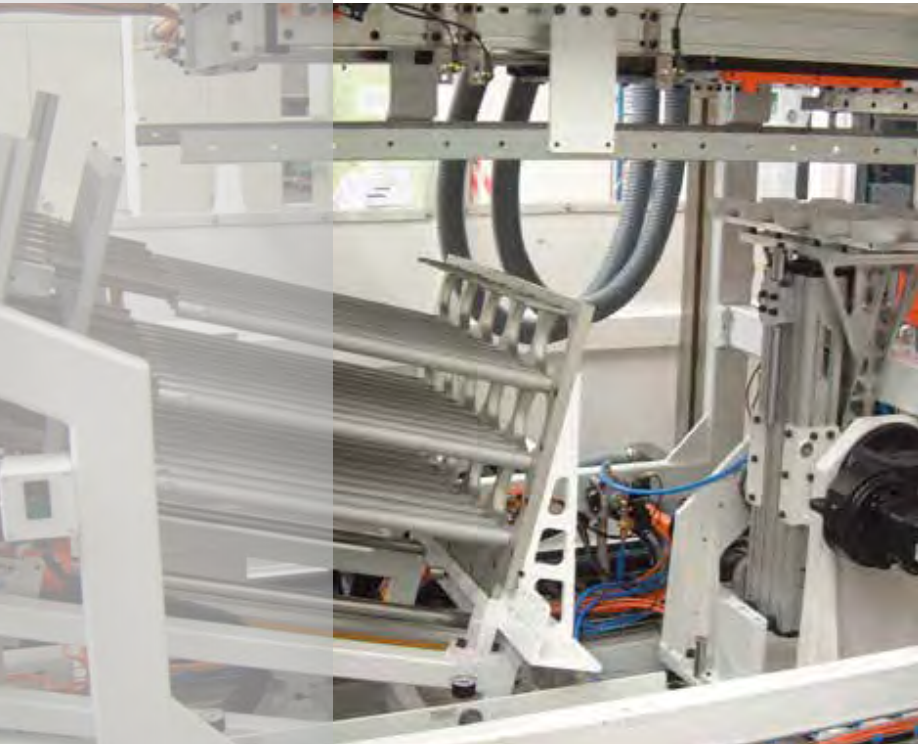


The Universal Thermoformer



Designed for all types of thermoplastic materials

The F37 models are automatic, high speed, electro mechanically driven, thermoforming machines with in-mould trim that eliminates trim issues caused by post shrinkage of parts ensuring 100% trim accuracy. The F37 formers are designed to expertly process all types of thermoplastic materials.



The forming station and automatic product handling is designed for multiple row moulds with inline and staggered layouts. The internationally patented “vacuum plate” and unloading system (including stacking and counting) provides clinical hands-free handling.

The design incorporates the “Smart Drive”. The moving parts in this automated product handling system are made of light weight, durable, carbon fiber material, which assures optimized cycle speeds with lower production energy costs.

The “Smart Drive” consists of:

- **Drives** are step-by-step adjustable Servo Drives
- **Sequencing:** Operator has screen access to all machine functions with precision time settings available
- **Procedure card** assures accurate repeat settings and quick mould changes
- Important **maintenance records** and production information

- ❖ Unique RIM-rolling device available for cups
- ❖ Capable of forming the widest range of cups and containers
- ❖ Unique stacking design, handles both cups & trays
- ❖ Repeatable settings and quick tool changes

Technical Specifications of F37 Thermoformer – In Mould Trim		
Materials	PS - PP - PET – PE – PLA – PVC	
Max. forming area	mm	780 x 420
Max. sheet width	mm	860
Sheet thickness	mm	2,5
Max. forming depth	mm	150
Max. positive forming	mm	10
Forming system	compressed air	
Dry cycles	strokes/min	40
Mould closing/cutting force	daN	50.000
External dimensions	mm	10.000 x 6.000 x 3.500 (h)

Technical Specifications of F37-X Thermoformer – In Mould Trim		
Materials	PS - PP - PET – PE – PLA – PVC	
Max. forming area	mm	800 x 550
Max. sheet width	mm	860
Max. sheet thickness	mm	2,5
Max. forming depth	mm	150
Max. positive forming	mm	10
Forming system	compressed air	
Dry cycles	stroke/min	40
Mould closing/cutting force	daN	60.000
External dimension	mm	10.500 x 6.000 x 3.500 (h)

Index drive

- Electronic servo drive with profiled acceleration/deceleration torque.
- The chain rails can be retracted away from the form station, during mould change, for easy access.

Oven (Heating elements)

- C-shape oven with top and bottom ceramic heater elements arranged in longitudinal and transversal zones.
- Special features are built into the oven to avoid sheet sag issues typically experienced in traditional ovens.
- Sheet edge pre-heaters, located at the entrance of the oven.

Forming station

- Platen movement is driven by a toggle/cam assembly where the trim is operated by an independent servomotor.
- The lower platen is driven by a brushless servo motor. During the forming/trimming phase, the motor stops, reverts, and after the end of the forming cycle it begins a new cycle. The stroke of the lower platen is adjustable depending on product height (Depth of draw)

Plug assist

- Third motion servo-driven plug assist is independent from platen movement assuring the optimum processing window

Stacking system

- Designed for easy handling of both shallow and deep parts

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