

# TSA 160

## Automatic Sealing Machine



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**poly-clip**<sup>®</sup>  
SYSTEM

- Significant cost reduction by use of flat roll stock film
- Continuous production – film rolls up to 3,000 m
- Combination with automatic double-clippers FCA and ICA
- Automatic, self-monitoring processes
- For product diameters up to 160 mm

## Applications

The automatic sealing machine TSA forms a ready-to-be-filled tube from flat roll stock film which is then directly gathered on the stuffing horn. A variety of sandwich films, mono or coated, may be employed. By means of heat sealing sandwich film is sealed with minimum overlap, band-sealing is also possible. Film rolls hold up to 3,000.

## Advantages

- Reliably tight film sealing
- Highest productivity through automatic, self-monitoring processes
- Central EASY TOUCH display with easy programming and recalling of product-specific parameters
- Increased productivity due to recognition of clip supply end
- Compact, space-saving design with steerable wheels and feet
- Stainless steel construction ensures resistance to aggressive cleaning agents
- Training, handling, maintenance and service simple and user-friendly
- Easy to clean:
  - closed system
  - only one part carrying product (stuffing horn)
- Significant cost reduction through moderately priced flat roll stock film vs. shirred casings
  - continuous production (reloading of film vs. up to 100 times reloading of casings)

- optimum use of material due to minimum overlap of film at the seam
- minimum film wastage
- less storage area required for input stocks

- Longer product shelf-life
- Increased hygiene due to use of flat films vs. watered casings
- Shortest fitting times for a wide variety of pack sizes due to quickly changeable format set
- Film and product-specific settings of temperature and sealing speed in the EASY TOUCH, progressively adjustable during continuous production

## Optional equipment

- Registration control for centred printing format
- Simple and safe marking of batches during production using continuous printing on flat film with an integral printer, e.g. ink jet, hot stamping, thermal transfer
- Film breakage control

## Function and operation

The TSA becomes a continuous working production line when it is coupled with a stuffer and an automatic clipper. The flat roll stock film is slipped onto a self-locking roll carrier. The roller guide system ensures a constant input tension of the film unwinding. The forming shoulder forms the flat film around the stuffing horn into a tube that is still open. Then the side seam is sealed by heat sealing. An integrated control circuit provides for a steady amount of shirred film for the downstream clipper to allow continuous production. The production process is operator-friendly and can be easily programmed via the central touch panel EASY TOUCH. The unit is operated via three membrane keys on the control panel.

## Combinability

The TSA 160 can be coupled with automatic double-clippers from the FCA series or the ICA in combination with a mono pump, a stuffer or a drum press.

## Clip System Solutions

The complete system of sealing- and clipping machine, clips and loops from one source ensures efficient, trouble-free production. The original clips from Poly-clip System guarantee top quality. The manufacture is subject to strictest quality standards, is certified to ISO 22000:2005 and ISO 9001:2008 and tuned precisely to the production process. The patented, food-proof, safety coating using Poly-clip SAFE-COAT technology, certified by the SGS INSTITUT FRESENIUS organization, ensures trouble-free production and a no-worry product warranty. Poly-clip System is the world's leading provider of Clip System Solutions.

## Technical data

Width:	1,295 mm
Depth:	1,320 - 3,215 mm
Height:	1,480 - 1,680 mm
Weight:	ca. 895 kg
Three phase current connection:	200-230 VAC, 380-460 VAC, 50/60 Hz
Power consumption:	3.0 kW
Fuse connection:	16 A
Compressed air:	5-7 bar/0.5-0.7 MPa
Air consumption:	2,5 NL/cycle