

# TSCA 65/120/160

Automatic Sealing/Clipping Machine



innovative · reliable · leading

**poly-clip**<sup>®</sup>  
SYSTEM

# TSCA 65/120/160

- Sealing and clipping with one machine
- Fully automatic, self-monitoring processes
- For chubs up to calibres 65/90/120/160 mm
- Up to 130/150/160/≥ 200 cycles per minute, depending on clip head

## Applications

The TSCA automatic sealing/clipping machine processes flat film from a roll into a ready-to-fill tube which is securely closed by the integral clipping unit. All commonly used films, coated and uncoated, as well as laminates up to 160 mm in calibre can be processed. The film rolls used can be up to 3,000 metres long. Clipping units of the following FCAs can be integrated in the TSCA:

- TSCA 65 (FCA 3442) up to calibre 65 mm and 130 cycles
- TSCA 120-15 (FCA 3430) up to calibre 90 mm and 200 cycles
- TSCA 120-18 (FCA 3430-18) up to calibre 120 mm and 150 cycles
- TSCA 120-M (FCA 120) up to calibre 120 mm and >200 cycles
- TSCA 160-L (FCA 160) up to calibre 160 mm and 160 cycles

## The advantages of the TSCA:

- A unit guaranteeing tight sealing of film and secure clip closure
- Central EASY TOUCH display with easy programming and recalling of product-specific parameters
- Increased productivity due to recognition of clip and film supply end
- Very smooth running at high cycle speeds, even during continuous operation
- Compact, space-saving design with steerable wheels and feet



- Stainless steel construction ensures resistance to aggressive cleaning agents
- Smooth surfaces and easily accessible clip head for easy cleaning and maintenance
- Short, clean sausage tails due to voiding separator
- Product specific speed control
- Easy, user-friendly familiarisation, handling, maintenance, training and service
- Easy to clean:
  - closed system
  - only one part carrying product (stuffing horn)
- Optimum use of material due to minimum overlap of film at the seam
- Minimum film wastage
- Less storage area required for input stocks
- Longer shelf-life of the products
- Increased hygiene due to use of flat films vs. watered casings
- Shorter fitting times for a wide variety of pack sizes due to quickly changeable format set
- Greater flexibility in marking due to in-line printing
- Continuous adjustment of temperature and sealing speed in EASY TOUCH during continuous production

## TSCA 120-M/TSCA 160-L additionally:

- R-ID Clip with increased holding force up to bacteria-tight closure depending on casing
- Automatic, self-monitoring processes for maximum productivity due to recognition of clip size, die, size of separator hole and clip pressure setting

## Automatic sealing process

- Considerable savings due to use of more economical flat film vs. shirred casings
- Continuous production – loading of film once only vs. up to 100 times reloading of casings

Product marking by printing directly onto the film



## Optional equipment

- Automatic looper GSA 20
- Pneumatic casing brake
- Registration control for centred printing format
- Simple and safe marking of batches during production using continuous printing on flat film using an integral printer, e.g. ink jet, hot stamping, thermal transfer
- Length portioning via optical sensor
- Air-free loose filling of shaped products with overspreading; total spreading depending on clipping unit
- Clip coding
- Single clip feature

## TSCA 120-M/TSCA 160-L additionally:

- Consumption-oriented central lubrication for maximum reliability and service life
- Clip pressure setting and separator hole size with servo control
- GSA 20 with loop on the right
- Spreading and overspreading with servo control

## Function and operation

The TSCA consists of a synchronised automatic sealing machine and double clipper. This provides a continuous production line when a stuffer is used as



the front end. Both production processes are operator-friendly and can be easily programmed via the central touch panel EASY TOUCH. Setting up and system control are differentiated by colour and password-protected. The unit is operated via six membrane keys on the control panel. The film roll is placed on a self-tensioning roll carrier. Uniform inlet tension of the film is achieved by the roller guide system. The forming shoulder forms the flat film around the stuffing horn into an open tube. The tube is then sealed lengthways with minimal overlap by heat seal. For continuous production, an integrated

control circuit ensures that the automatic clipper always has sufficient shirred film available.

## Combinability

**AHL** – Automatic hanging-up of looped products

## Clip System Solutions

The complete system of 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.

The hot-sealing station of the TSCA provides reliable sealing.



The TSCA touch panel: simple and clearly laid out

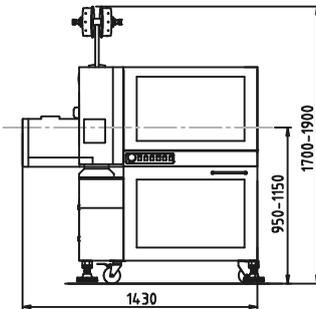


# TSCA 65/120/160

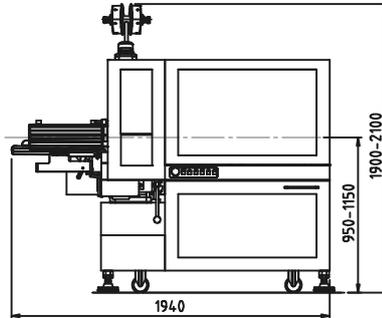
Dimensions (in mm)

Technical data

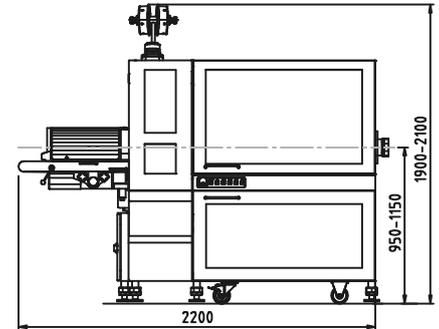
**TSCA 65**



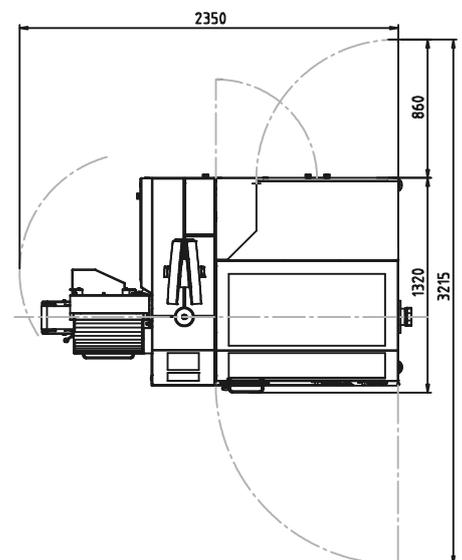
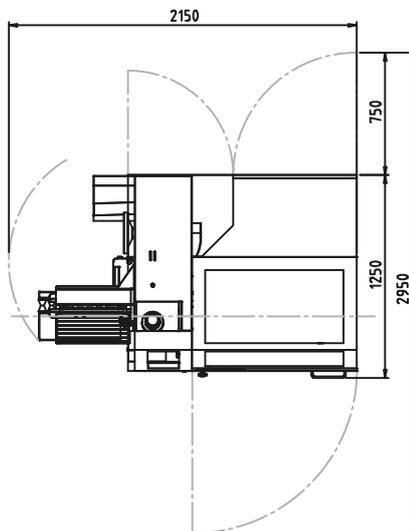
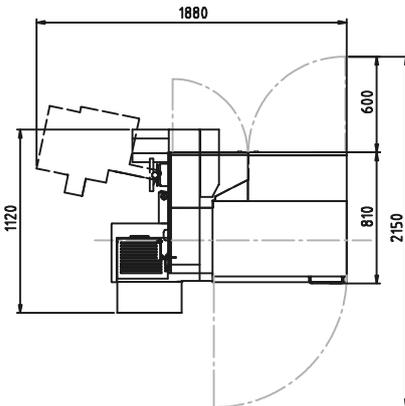
**TSCA 120-15  
TSCA 120-18**



**TSCA 120-M  
TSCA 160-L**



Front view



Top view

	<b>TSCA 65</b>	<b>TSCA 120-15 TSCA 120-18</b>	<b>TSCA 120-M TSCA 160-L</b>
Width:	1,430 - 1,880 mm	1,940 - 2,150 mm	2,350 mm
Depth:	1,120 - 2,150 mm	1,250 - 2,950 mm	1,320 - 3,215 mm
Height:	1,700 - 1,900 mm	1,900 - 2,100 mm	1,900 - 2,100 mm
Weight:	640 kg	1,150 kg	1,375 kg
Three phase current connection:	200-230 VAC, 380-460 VAC, 50/60Hz		
Power input:	4.4 kW	5.1 kW	6.8 kW
Fuse connection:	16 A	16 A	16 A
Compressed air:	5-7 bar/0.5-0.7 MPa	5-7 bar/0.5-0.7 MPa	5-7 bar/0.5-0.7 MPa
Air consumption:	2.5 NL/cycle	2.5 NL/cycle	2.5 NL/cycle

TSCA 65/120/160-GB-04/13-HA Subject to technical modifications.

