

# FCHL 160

Automatic Clipping/Hanging Machine



innovative · reliable · leading

**poly-clip**<sup>®</sup>  
SYSTEM

- All-in-one machine – automatic clipping with simultaneous looping, automatic hanging and positioning on the smoke stick
- Efficiency increase thanks to a marked manpower reduction and higher throughput on the filling line
- Optimum smoke stick loading for optimum utilisation of smoking and cooking plant capacity
- Calibre range 38 – 100 mm

## Applications

The automatic clipping/hanging machine FCHL 160 with the integrated clip head of the FCA 160 efficiently combines four processes in a way which saves on manpower: clipping with simultaneous looping, hanging and positioning on the smoke stick with a high level of precision and automation. The looped products are continuously and extremely precisely positioned on the smoke stick at a high output rate. Conventional metal or plastic smoke sticks suitable for automation are used. The production speed of the FCHL 160 can be as high as 85 loops per minute.

## Advantages

- Output is increased by up to 25% and at the same time there is a cost saving of up to 37% on manpower as a result of the automatic, continuous loading of smoke sticks
- Extremely precise loop positioning with product settling means more products on the smoke stick, thanks to intelligent drive control
- Space requirement corresponds to a regular filling line with work table
- PC control for rapid, precise signal processing; product parameters are retrievable from recipe management
- Simple machine operation with the SAFETY TOUCH

- Fast, smooth production start-up, no adjustment or coupling required
- Stick length from 800 to 1,050 mm
- Maximum single weight per loop 3.5 kg, minimum weight 0.2 kg
- Length of single chub up to 650 mm, length of chain up to 850 mm including loop
- Manual stick feed up to 25 empty sticks, front loading
- Number of loops per stick between 6 and 20, depending on calibre
- Discharge buffer for 6-12 loaded sticks, depending on calibre
- Robust and compact design for constant load
- Easy handling, casing re-load occurs while clip head is stationary, additional special position for maintenance work
- Hygienic design in stainless steel for fast and thorough cleaning, large maintenance access flaps, inclined surfaces
- Central lubrication for maximum service life
- Maintenance- and service-friendly with few wear parts
- Highly dynamic, powerful servo drive
- Numerous further advantages of the FCA 160

## Optional equipment

- Loop end sensor
- Smoke stick magazine, manual single loading from rear
- Automatic product settling at high speeds
- Cleaning system for machine spindle and conveyor
- Remote maintenance module
- Intelligent Filler Clipper (IFC) Interface on request

## Combinability

**ASL-R** – maximum efficiency thanks to robot-controlled, fully-automatic discharge of filled sticks and positioning in the

smoke trolley with the ASL-R at rate of 7 sticks per minute. The combination of FCHL 160 with ASL-R increases the output rate once again by up to 10% with additional reduction of the manpower requirement by up to 40%.

## Function and operation

While the portion is closed with clips and simultaneously looped a special finger takes the product loop directly from the separating area of the FCHL 160 and positions the product automatically on the smoke stick. When the stick is full, it is moved to the discharge buffer, while another empty stick is positioned for further loading. The number and position of the loops are retrievable from recipe management. Precise positioning permits a higher loading density and thus optimum utilisation of the smoke sticks and of the smoking and cooking plant capacity.

## Technical Data

Width:	3,115 mm
Depth:	
front loading	1,137 mm
with discharge buffer	1,762 mm
Height*:	1,480-1,680 mm
Weight:	1,950 kg
Three-phase current connection:	200-230 VAC, 380-460 VAC
	50/60 Hz
Power input:	12.5 kW
Fuse connection:	32 A
Compr. air:	5-7 bar/0.5-0.7 MPa
Air consumption**:	0.8 NL/cycle
R-ID clips:	M, L
Spreading:	26, 30, 36 mm
* Without clip reels	
** At 60 cycles	
Stick profiles:	