







# Stretch Sleeve Machine AG71-SSM20

Plastic sleeve label insertion equipment – Stretch Sleeve Applicator - typically used for blow-moulded plastic packaging.

# **Applications and Industries**

# **Applications**

· Labelling of blow-moulded plastic packaging.

### Industries

· Manufacturers of blow-moulded plastic packaging.

### Compatible Packaging

• Blow-moulded or similarly processed plastic packaging ranging from 1L to 20L.

# **Equipment Highlights**

## Compact

Compact layout - 1900 x 1200 x 3100 (mm)

## Performance

Up to 600 cycles per hour

### **Flexible**

Quick change of the sleeve application matrix

# Configurable

Packaging from 1L to 20L

# Integration

Can be integrated into production lines

### **Expandable**

Optional quality control module - AG55-LQC50



# **Compact Layout**

- ① Front or side packaging entry
- ② Stretch sleeve rolls up to Ø400 mm and 20 kg
  - Dimensions 1900 x 1200 x 3100 (mm)

# **Performance**

- Up to 10 cycles per minute / 600 cycles per hour
- End-of-roll and label detachment detection
- Detection of various label colours, including transparent ones

# **Integration and Expandability**

- Possibility to operate in a production line or as a standalone system (online or offline)
- Option to integrate with the quality control line AGIX | AG55-LQC50
- Option to integrate custom-sized conveyor belts AGIX I TTAG

① AG71-INPUT

Packaging entry conveyor

2 AG71-Sleeve Feeding Stretch sleeve roll support systems





3 AG71-Aerial View Packaging entry path

# Configurable

- Quick-change tool system for different packaging models
  - Supports various geometries circular, square, rectangular, or others
  - Packaging dimensions range from 100 x 100 x 200 (mm) to 280 x 240 x 500 (mm)
  - Configurable packaging orientation
- ① · Adjustable conveyor height: 1000-1300 (mm)



(4) AG71-Labelling Singularisation and labelling zone

# **Key Features Table**

Processing	Roll	Stretch sleeve roll Roll dimensions: up to Ø400mm and 20 kg
	Sleeve Material	Polyethylene (PE)
	Label Dimensions	Up to 480 x 250 (mm)
	Packaging Format	Bottles and carboys in various shapes: circular, square, rectangular, or others Orientation position: indifferent Maximum dimensions up to 280 x 240 x 500 (mm)
	Operating Speed	10 cycles per minute / 600 cycles per hour
Dimensions	Overall Dimensions	1900 x 1200 x 3100 (mm)
	Implementation Space	2900 x 2000 x 3100 (mm)
	Weight	700kg
	Conveyor Height	Adjustable 1000-1300 (mm)



# **Technical Datasheet**

Additional Information to Complement the Datasheet

### **Product Data**

# **Equipment** Description

### **Operating Summary**

A conveyor belt directs the packaging to the accumulation zone, where a pneumatic cylinder stops the movement. A singularisation system, consisting of a horizontal electric axis and a set of grippers, guides the packaging to the label insertion zone.

The stretch sleeve is applied through an unwinding system and directed to an opening matrix, shaping the sleeve. The sleeve is then pulled downward by a set of grippers on a vertical electric axis, separating the label along the perforation and applying it to the packaging.

The packaging is then transported from the singularisation zone to the equipment's exit and reintroduced into the production line.

### **Equipment Systems**

### **Packaging Transport System**

- Entry The packaging is fed into the equipment either perpendicularly or in line with the transport direction. A pneumatic cylinder acts as an entry brake, stopping the packaging before it moves to the next zone.
- Singularisation zone The area where each packaging unit is isolated for label insertion.
- Exit The packaging, now with the sleeve applied, exits the equipment.

### Sleeve Feeding

- Roll The stretch sleeve (elastic and pre-perforated) is designed to stretch for insertion onto the packaging and then shrink to conform to its shape without requiring heat application.
- Roll support Holds the roll and allows its rotation in sync with the system. It includes a sleeve tensioning mechanism and a locking system for roll replacement.
- Sleeve buffer Guides the sleeve from the roll to the opening nozzle, controlled by sensors that detect the tension applied to the sleeve.
- Sleeve unwinding system Consists of rollers that pull and unwind the sleeve towards the opening matrix rollers.
- Opening matrix Designed according to the packaging format, ensuring the sleeve is properly opened for application.

# Packaging Singularisation System

- Segregates the packaging from the entry point to the sleeve insertion zone.
- Electric axis with a pneumatic gripper to position the packaging in the label application area.

### **Label Separation and Insertion**

• A linear system moves the gripper, unwinding the sleeve, which has been previously opened by the matrix. During the pulling motion, the label is detached along the perforation and applied to the packaging.

# **Characteristics Table**

Implementation	Base and Feet	Elevating support feet Does not require fixation	
	Movement	Castor	
	Loading/Unloading	Lift from the base	
Construction, Materials, and Appearance	Structure made of standardised aluminium profile Guards in lacquered steel with textured epoxy paint (colour RAL 7035) Doors and windows with transparent blue acrylic Brand and model: AGIX   AG71		
Processing Capacity	Customised Elements	Sleeve opening matrix Grippers for label separation	
	Packaging Material	Plastics (PET, PE, PVC, others) and metals (aluminium, stainless steel, others)	
	Packaging Condition	Empty or filled	
	Packaging Weight	Basic version: Up to 5 kg - Extended version: Up to 20 kg	



	Operating Speed	< 10 cycles per minute or 600 cycles per hour	
	Transport Conveyors	Conveyor belt dimensions: 1815 x 400 (mm) Low-friction belt that allows accumulation Height adjustment 1000-1300 (mm) Side guides with vertical and horizontal adjustment DC motorisation	
Automation and Control	Console	SIEMENS KTP700 Basic; 7" touchscreen display	
	Operating Modes	Stop Emergency Manual Pre-automatic: Performs a secure start-up verification Automatic: All operations and safety features are active Bypass: Labelling operations are disabled, allowing only conveyor movement	
	Configurations and Parameterisations	Equipment status control Operating mode control I/O control Roll management and sleeve consumption monitoring (scheduled roll change) Recipe management Safety and alarm management	
Electrical	Power Supply	3 FASE 400 VAC (+/-10%); 50 Hz; 3 Phase + Neutral + Earth	
Characteristics	Maximum Power	2000W	
	Standards	EN 60204-1:2006+A1:2009	
Sound Characteristics	Noise Level	55 dB (A)	
Pneumatics and Control	Control	Centralised Control Panel Located Outside the Equipment:     Air treatment unit     Solenoid valves with individual pressure regulators     Individual flow regulation for actuators	
Safety	Equipment developed in compliance with the directive 2006/42/CE		
Adds-ons and Compatibility (Not Included)	Equipment Add-ons Integrated or external sleeve buffer module for increased autonomy Automatic roll change and splicing module RFID tag reading system for identifying or confirming the current set-up of the matrix or separation		
	Add-ons for Inline Integration  • Quality control line AGIX   AG55-LQC50  • Conveyor belts AGIX   TTAG  • Custom-developed AGIX modules for packaging turners and line selectors  • Custom-developed AGIX modules for rejecting non-conforming packaging		



# Notes





