KRONES Sleevematic
The Labeller for sleeves
Perfectly equipped all around

Shrinking or stretching? That is the question. No matter which sleeve variant you decide on – the Sleevematic is the »right« one. Because the versatile KRONES labeller is available in various designs and perfectly adjusts to any task. Undoubtedly inspired by the example of the sleeves, which stretch smoothly over any container.

As a rotary machine with applicator fork, the Sleevematic AF is suitable for shrink as well as stretch sleeves. The Sleevematic M, however, allows for optional additional equipment in all output ranges. The modular inline machine has proven itself as an outstanding specialist in the area of shrinkable sleeves. Both Sleevematic versions label empty as well as full glass or plastic containers.
Attractive, informative and with a precise fit

Sleeves will make your products look their best all around. As the sleeves fully enclose the containers, they offer ample space for brand design and product information. Both shrink and stretch sleeves cling tightly without the use of any adhesive and allow resource-saving labelling. Using steam or hot air, shrink sleeves are shrunk to fit the container’s contour. Even on special shapes, they fit like a glove. As a tamper-evident seal in the bottle neck area, shrink sleeves also cut quite a figure. On the other hand, stretch sleeves do not need hot air at all. The flexible sleeves are stretched and adjust to the contours of the container after being slipped over. After use, stretch sleeves can be removed easily – an unbeatable advantage when returnable bottles are being processed.
**Sleevematic AF**

**Method of operation**

The sleeve film is unwound evenly from the reel via feed rollers and conveyed to the cutting unit via the sleeve supply unit. There, the sleeve is opened by pulling it over a mandrel. Several servomotor-controlled cutters cut the sleeves exactly to the set length. After that, the applicator fork pulls the sleeves over the container to their final position (figure A and B). While the applicator fork is lowered, a clamp holds the sleeve and the container tightly in place (figure C). The clamp only opens when the container has been transferred to the discharge starwheel. As a result, each sleeve is in perfect position and cannot slip.

**Application**

Sleeve labelling of glass and plastic containers (empty and full) for stretch and shrink sleeves.

**Output range**

Depending on the length of the sleeves, the machine can label 3,000 to 50,000 containers per hour.
Design features
- Electronic closure inspection and gap detection at machine infeed
- Infeed worm equipped with safety clutch
- Feeding of sleeves by means of two sleeve reels
- Sleeve supply for reel change
- Height-adjustable cutting unit with sleeve conveyor
- Standard machine PLC
- Electronic container counter
- Integrated, ready-to-connect control cabinet
- Central lubrication points
- Optional Multireel S possible

Additional equipment
- Coding with ink-jet or laser printer
- Mechanical container orientation system for special dressings
- Hot-air nozzles for pre-positioning of sleeves
- Device for longitudinal and transversal perforation of sleeves
- Clamping starwheels at the infeed and discharge for the handling of different containers with a difference in diameter of up to 20 mm
- Additional container and sleeve sets
- Central lubrication
Method of operation

Unwinding and cutting of the film sleeve is performed just like with the Sleevematic AF. After cutting, a feed applies the open sleeves directly to the container. Depending on the container shape and the sleeve size, an optional positioning module moves the sleeve to the desired position. Partial sleeves will be moved to their exact position by means of lateral guides. Optional hot-air nozzles shrink and pre-position the sleeves. After that, the sleeves are shaped perfectly around the container contour in a steam or hot-air tunnel.
Application

Labelling with shrinkable full body and partial sleeves

Output range

The output of the machine depends on the number and layout of the cutting units. You can choose between three different designs:

- The version with one cutting unit labels up to 27,000 containers/h.
- Two units which are set up in series will increase the machine output to up to 40,000 containers/h.
- Two parallel cutting units allow a maximum output of 54,000 containers/h.

The indicated outputs apply to a sleeve length of 150 mm.

Additional equipment

- Manually adjustable positioning module for partial sleeves
- Hot-air nozzles for shrink-fitting and pre-positioning of sleeves
- Equipment for longitudinal and transversal perforation of sleeves
Operation and change-over

Screen

- Colour touch-screen
- User-friendly menu setup in the operating program
- Safe access to the user interface through individual transponders
- Easy-to-follow display of the current production data
- Malfunction display in plain text and graphic display
- Text displayed in the set language
- Interface to superordinated systems such as PDA (production data acquisition) or LMS (line management system)
- Remote maintenance via teleservice possible

Change-over

The Sleevematic can be changed to another container or sleeve size within a very short time. For the Sleevematic AF, the fastest possible change-over takes 15 minutes; for the Sleevematic M, the change-over takes 30 minutes. To do so, the new type will be selected first on the touch-screen. When new containers or sleeves are to be used for the first time, all sleeve parameters can be programmed and stored via menu prompts. The height adjustment of the cutting unit is motor-driven. Cutting disk and mandrel are easy to change. The contact pressure of the sleeve feed rollers can be set easily and precisely via a setting spindle with integrated torque coupling. Via a patented system with indexed stops, the container guide in relation to the infeed worm can be adjusted quickly.

The applicator forks and the container plates for the Sleevematic AF can be replaced without the use of tools. All handling parts carry a combined colour and number code. In addition, guides and starwheels are equipped with quick clamping locks.

Reel change

During the reel change-over, the end of the first reel is spliced to the beginning of a new reel. Thus, the need to thread the sleeve into the machine at each change-over is eliminated. A cutting table that is mounted at the sleeve magazine significantly facilitates this task. Due to the generously dimensioned sleeve supply unit, reel change-over can be carried out without interruption of production. The additionally available magazine Multireel S offers space for up to eight sleeve reels, which are bonded to each other automatically – without any reduction in the output.
Additional equipment

**KRONES Shrinkmat**

Modular steaming tunnel
- Can be expanded at a later point when needed
- Convinces through compact design with integral steam pipe system
- Easily accessible through lateral doors

**Design features**
- Nozzle bars can be adjusted horizontally or vertically – all adjustments are reproducible
- Connection for central steam extraction
- Each tunnel zone has its own temperature display and temperature control
- Safety switch for interruption of steam supply at every door

**KRONES Checkmat**

Versatile inspection unit
- Checks the position of the sleeves
- Identifies the labels
- Checks printed data (optical character recognition via OCR/OCV)
- Recognises bar codes
- Checks fill level and container seal
- Reliable discharge of faulty containers via clamping starwheel or pusher
**KRONES Multireel**

*Automatic sleeve magazine*

- Takes up to eight sleeve reels simultaneously (for a label width of 50 – 145 mm)
- Enables the Sleevematic to work automatically for up to 8 hours – without the intervention of an operator
- Splices sleeve reels automatically – without any reduction in the output
- Can be retrofitted easily in already installed sleeve machines
- Convinces through space-saving and ergonomic design
- Special design for sleeve widths of up to 200 mm and 6 sleeve reels possible

**Output**

- Up to 30,000 containers per hour
Your advantages

- **Glue-free labelling**
  Labelling with sleeves takes place without any glue application.

- **High performance**
  The different variants of the Sleevematic M allow precise labelling in all speed ranges.

- **User-friendliness**
  The Sleevematic is easily accessible and comfortable to use.

- **Time saving**
  Container or sleeve changeovers require very short conversion times.

- **More space**
  Due to its compact design, the Sleevematic M requires little space for installation.

- **Precise sleeve cut**
  The rotating cutting technology of the Sleevematic ensures a precise cutting result.

- **Saving**
  For the opening of the sleeve, the Sleevematic does not require an additional vacuum unit.

- **Relief for the operators**
  With the additionally available magazine Multireel S, the Sleevematic works entirely autonomously for up to eight hours.