

# Liner Machines for caps and closures



a FRIEND in PACKAGING

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More and more caps and closures in pharmaceutical, food and beverage, chemical and cosmetic industries are expected to have various kind of Inner Seals and Closures Liners. Their function of Seals and Liners are different (**providing a hermetic seal against leaks, provides barrier resistance, ensures that food flavor retention, protects the product from moisture, aromas, contamination, oxidation...**) and it depends on their structure (type of layers, nr. of layers, with aluminum foil,...). How to insert them into a closure is how we can assist you.

There are 2 main systems to insert Seals and Liners to a closure:

- from roll
- from pre-cut out seals or liners

We can assist you for both types of Liner machines and also a machine to cut out seals and liners from a roll.

## CUTTING AND INSERTING LINER MACHINE from ROLL to ROLL



The machine pulls a liner through the cutting and inserting mechanism which cuts out a liner in a particular diameter or form, and this cut-out form of liner inserts into the cap. It has a double pulling system, an outlet conveyor, and an introduction of caps on the input conveyor with the eliminator of wrong putting caps. The used-up foil is possible to wind up on a coil or to cut it into pieces. All functions of the machine are under control of sensors and a rudder-control unit. In the case of changes, the operator is automatically warned by the machine with sound and light signals, and all originated changes are written out on the display. Using foil, you can have it on the reel or cutting on the end of the machine.

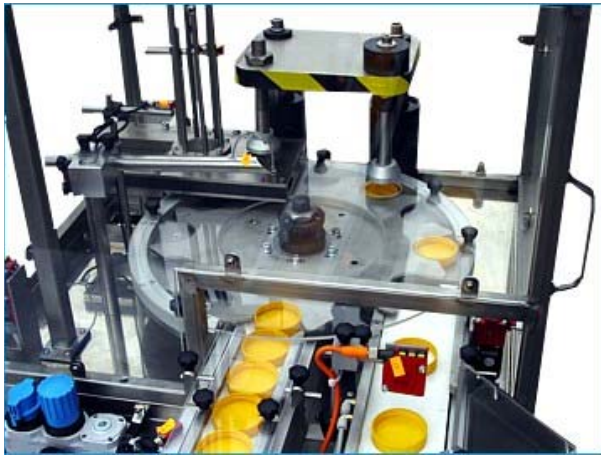
**Basic machine includes:** basic construction, unwind and pulling system of the foil, input and output conveyor, cap feeder with orientation, electro jar box, PLC, control panel, inverters for speed regulation, voice and light signal, 20 sensors and photocells, 30 alarms.

The capacity of the machine is 200 cycles/min; the working speed is able to be set; into the machine it is possible to put in more caps at the same time – the maximum number is up to 6 caps at the same time. The weight of the machine is about 950 kg.

Look at some more photos below:



## INSERTING LINER MACHINE from PRE-CUT



This machine use already cut out liner (foil) in particular size of diameter. Introduction of caps to the inserting liner mechanism is carried out by one or more vertical buckets. There is possible that the already cut out liner is wrapped in paper or is put in PE tubes. The cut out liners or washers from expand PE of small size or diameters are possible strewn about in a special container. For reason of high speed there is possible that we produce the machine with the rotated introduction of caps system to the 12 positions. All wrong putting caps are eliminated on outlet conveyer. All functions of machine are under control of sensors and rudder-control unit.

**Basic machine includes:** basic construction, input and output conveyer, cap feeder with orientation, electro jar box, PLC, control panel, inverters for speed regulation, voice and light signal, 12 sensors and photocells, ppa20 alarms

The capacity of machine is 200 cycles/min; the working speed is able to set. The weight of machine is about 850 kg.

Storage possibility:

- single vertical system,
- rotation system with 4, 6 or more place and rimfusa

## CUTTING AND COLLECTING LINER MACHINE from ROLL to ROLL

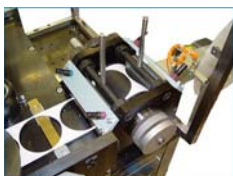


For special needs in diary and cosmetics industries is developed a special system for cut out of different diameters from foil of washer material. The cutting liner machine can cut out the washer material of different diameters or forms from foil in roll to the 120 mm in width and its cutting out capacity is 10.000 and more pieces per hour. All already cut out pieces are collect in special tubes of each capacity is to the 1.000 pieces. When the one tube is full the system automatically turns for 180° to the other tube and the machine automatically works further. The cut out pieces are pressed out by pneumatic cylinder from the special collect tubes to PE bags. All functions of machine are under control of sensors and rudder-control unit.

**Basic machine includes:** basic construction, unwind and wind mechanism, pulling system with servo motor, electro jar box, PLC, control panel, rotation system for collecting and turning cutting pieces, voice and light signal, 18 sensors and photocells and ppa 22 alarms.

The capacity of machine is 200 cycles/min; the working speed is able to set. The weight of machine is about 1050 kg.

Look some more photo bellow:



## ADDITIONAL EQUIPMENT

Of course we can provide you also additional equipment needed for more and more demanding closures and automated productions.

- Elevators
- Hot melt stations
- UV lamps
- Cap feeders
- Blind printing
- Other...



**Contact us now!!!**

**For any technical and commercial questions we are available for you at any time.**

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