

SAAS 9-AP



Automatic machine for the production of suppositories in aluminium or plastic formed cavities

SAAS 9-AP

Automatic machine for the production of suppositories packaged in aluminium and in plastic thermoformed cavities.

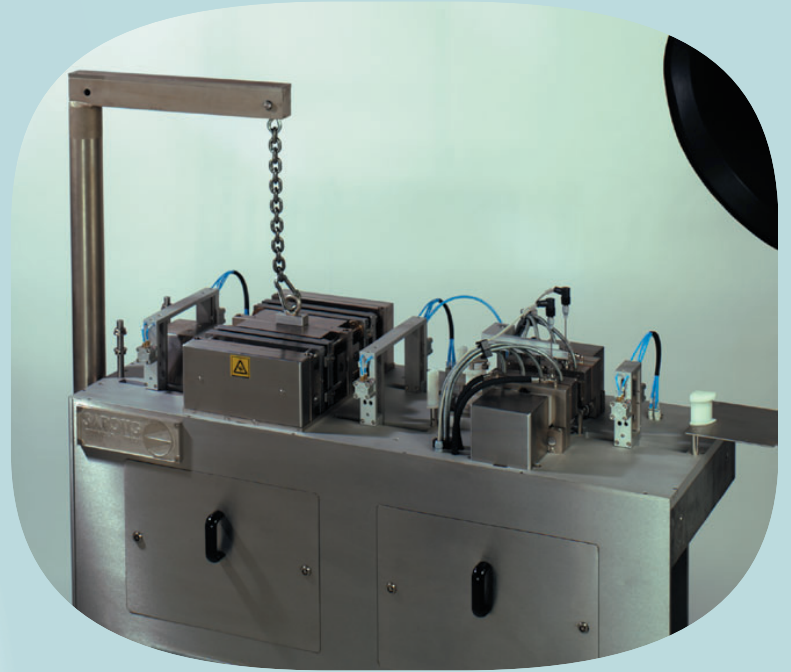
The SAAS 9 AP is a sturdy, high-precision-made machine, designed to achieve high production rate, low noise levels, safe and hygienic performances. The machine is equipped with a PLC and a PC, from which all machine functions are controlled and monitored.

The features of the machine are the following:

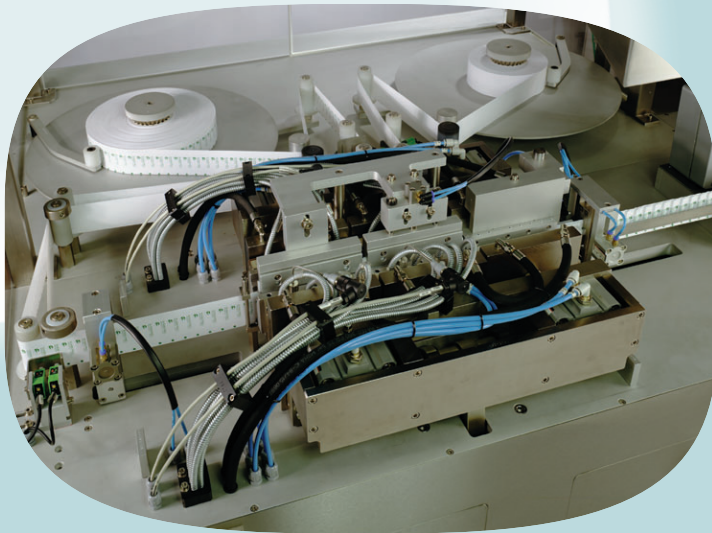
- optimized operation system which allows to have no waste during the production process and in case of machine stop;
 - forming station for aluminium foil (by punch and matrix system) or for plastic films (by thermoforming process), to produce perfect suppository cavities; the forming stations for aluminium foil and for plastic films are modular and easily interchangeable;
 - bead (or linear) welding of the two films. Each cavity is sealed around the outline of the formed cavity to guarantee a perfect and uniform sealing and to allow an easy extraction of each suppository from the pack with the "peel-off" opening system;
 - the product is filled into the container by a volumetric filling pump whose nozzles fit inside the cavities. The filling volume is automatically set through the man machine interface;
 - the modular forming/thermoforming stations permit changing over from foil cavity production to plastic cavity production just by changing a single module, thus minimizing down-time during change-over operations;
 - cooling process for product solidification, available in two or four cooling stages; the continuous suppository band is fed through a spiral path where it is cooled by the flow of filtered air, on both sides, until the suppositories are perfectly solidified, in order to obtain the best shape and consistence.
- The production of suppositories in continuous band allows any number of suppository per pack. The machine can be easily connected to any horizontal cartoner by means of the CT1 link-up unit.



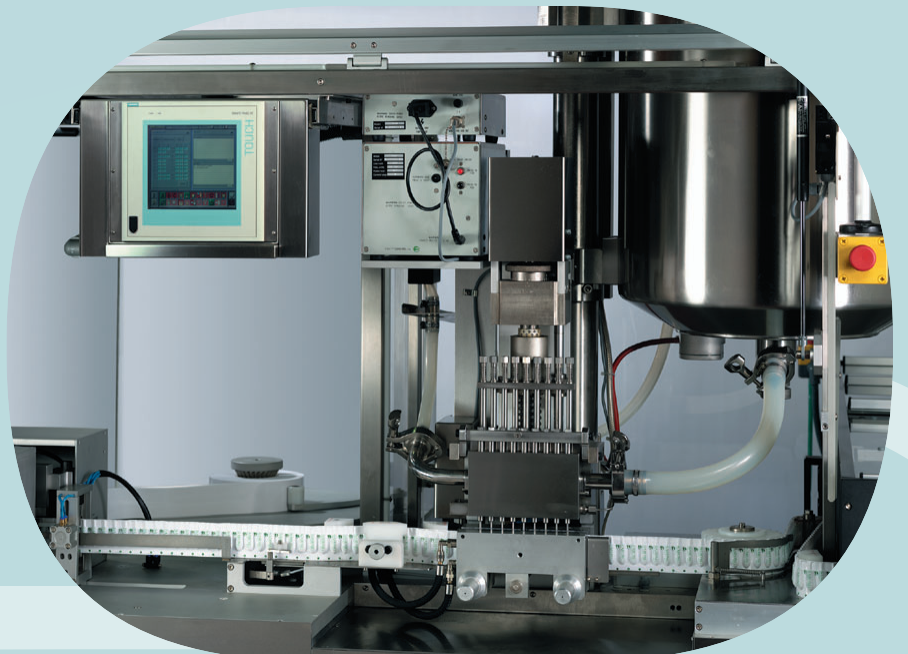
Our own manufacture of size tools



Thermoforming station for plastic films



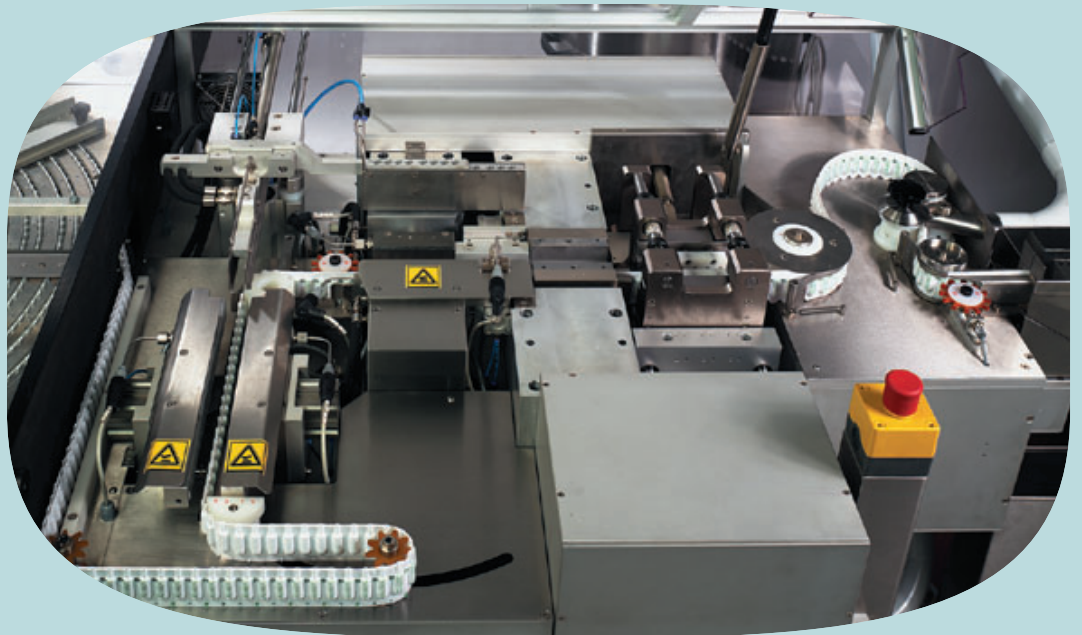
Forming station for aluminium foil



Filling station



Cooling station



Sealing station

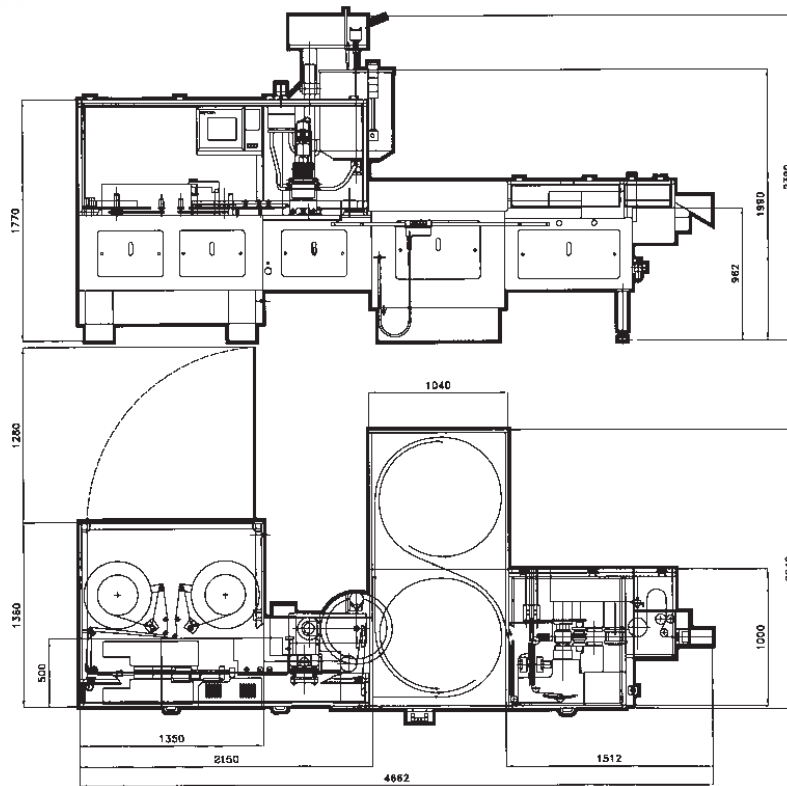


CT1 link-up unit



TECHNICAL DATA

- *Output:* 22.000 suppositories/h
- *Capacity of product tank:*
80 lt. heated double-jacketed electric immersion element
- *Max diameter of packaging material reels:* 490 mm
- *Max film width:* 70 mm
- *Packaging materials:*
Aluminium:
 - duplex (ALU/PE)
 - triplex (PP/ALU/PE)*thickness:* 70÷100 microns
Plastic film:
 - PVC, PVC/PE, PVC/PVDC/PE and other thermoforming materials*thickness:* 100÷200 microns
- *Machine controlled by PLC*
- *MMI:*
PC with "touch screen" in MS Windows environment
- *Cooling time:*
2 stages: 9 min approx. (2x4.5)
4 stages: 18 min approx. (4x4.5)
- *Min temperature of cooling air:* 5°C
- *Power of cooling group:* 7500 W
- *On request heated first stage*
- *Pneumatic equipment with 0.3 microns filtered air*
- *Compressed air consumption:*
aluminium foil: max 110 NL/min
plastic film: max. 210 NL/min
- *Rated pressure:* 6 bar
- *Cooling water consumption:* 6÷8 lt/min
- *Indicative rated output:*
2 stages: 16 KW
4 stages: 18 KW
- *Control circuit:* 24 V.d.c.
- *Standard power supply:*
400 V, 3-phases + Gnd., 50 Hz
- *Other voltages available on request*
- *Noise level:* below the 78 dB (A)
- *Dimensions (indicative)*
2 stages: 4662 x 2040 x 2390 height
4 stages: 5702 x 2040 x 2390 height
- *Height from floor of strip outfeed:* 960 mm
- *Approx. Weight:*
SAAS 9 AP two stages: 2500 Kg
SAAS 9 AP four stages: 3050 Kg



OPTIONAL EQUIPMENT

- 80 lt. tank separated from the machine with peristaltic product recirculation pump
- Peristaltic pump for the product recirculation
- Automatic product tank level control
- Film splice detector
- Print detector
- Device for print registration on body cavity
- Pinhole detector for plastic cavities
- Cavity filling level detector for plastic cavities
- Trimming group
- Perforation between suppositories
- Dry-coding group
- Ink-jet-coding group
- Closed-circuit chiller
- Equipment for glycerine processing
- Printer
- Flap device to sort-out the defective packages.

