Automatic machine to produce unit-doses in plastic thermoformable materials for liquid and semi-liquid products
Automatic machine to produce unit-doses in plastic thermoformable materials for liquid and semi-liquid products.

SD4 is a sturdy, accurate, mechanical modular line; it was designed to achieve high production rate, low noise levels, safe and hygienic performances.

Its features are the followings:

- Optimized operation system which allows to have no waste during the production process and in case of machine stop;
- Film forming system (through compressed air blowing) to produce perfect packs;
- Size tooling to seal the film (at constant temperature);
- Volumetric filling pumps. Different fillers can be fitted to the machine to fill special products;
- Pack positioning system to guarantee a perfect centering of sealing, forming and cutting;
- Continuous band production which allows to obtain strips containing the desired number of packs.

The thermoforming machine mod. SD4 is suitable to pack all liquid and semi-liquid products for any application: pharmaceuticals (syrups, creams, gels, lotions, veterinary products, etc.), cosmetics (shampoo, bath-foam, creams, oils, hair dyes, soap, etc.), chemicals (products for plants, for cars, detergents, additives, etc.) food applications (cheese, yogurt desserts, fruit-jellies, ice-cream, chocolate, sauces, condiments, etc.).

The doses can have easy opening by manual tearing-off or peeling (for products that solidify).
Vertical thermoforming machine mod. PA2000 (stand-up version)

Film folder for stand-up packs

Notch and perforation cutter on PA2000

Thermoforming group
Cutter for unit-dose cropping

Upper trimming and strip cutting

Filling group

Filling machine mod. SD4 R

Sealing machine mod. SD4 S
OPTIONAL EQUIPMENT

The following optional devices may be available upon request:

• film folder for stand-up packs
• Print registration group
• Print detector
• Notch and perforation cutter on PA2000 thermoformer
• Pinhole detector
• Film splice detector
• Product tank
• Product filling level detector
• Punch-embossing
• Pre-cutting group
• Upper trimming group
• Cutter for cropping the unit-doses
• Scissor cutting group
• Flap device to sort-out the faulty packs
• Trim aspiration group
• Chiller
• Module for cap insertion
**TECHNICAL DATA:**

- **Output:**
  - Pack index of 17.4 mm: 12000 doses/hour
  - Pack index of 23.2 mm: 7200 doses/hour
  - Pack index of 34.8 mm: 4800 doses/hour

- **Film width:** from 44 mm to 118 mm

- **Reel diameter:** 280 mm

- **Packaging materials:**
  - PET/PE, PET/EVOH/PE, PS/PE, PS/EVOH/PE,
  - PVC/PE, PVC/PVDC/PE, PVC/PVDC/PP, PET/PP, etc.
  - **Thickness:** 100 ± 300 micron

- **Standard voltage:** 230/400 V, 50 H, 3ph+N+Earth

- **Rated power:** 10.5 kW

- **Control circuit:** 24 VAC

- **Weight:** 1450 Kg