Blister packaging machine which forms and seals in one operation
The UNIVERSAL machines can form and seal blister packages. Other than being used as production machines for medium-scale batches of pharmaceutical and medical products, the UNIVERSAL machines are often the ideal solution for the packaging of very small quantities. Thus, they are the ideal choice for clinical trials and laboratory use.

UNIVERSAL 301 FS and UNIVERSAL 501 FS can be made as special-purpose models to comply with the special requirements and demands on packaging of medical and pharmaceutical products.

• Time and temperature settings can be reproduced on the digital display. The settings can be locked and secured with a code.
• Heater plate temperatures outside the allowable range trigger an alarm.
• Stamps for embossing packages with a batch number can be installed in the tool.

The many advantages of using the UNIVERSAL machines include:
• Low machine costs
• Very limited space requirements
• Inexpensive tools
• Short delivery time for tools
• Short tools installation time
• Ideal for manual operation
• No need to maintain stocks of pre-formed blisters
• Easy operation

If perforations are required in finished tablet packaging to allow tearing-off of individual blisters, these perforations can be made on the finished package by a roller punch.

Blister packaging with subsequent punching

For the production of small packages in large quantities it may be an advantage to form a number of blisters in one large piece of foil and punch out the individual packages after the sealing process, using a roller punch. This avoids the need to handle many small pieces of foil and insert material, allowing the production of a very large number of packages per hour.
The flexible blister packaging machine

The UNIVERSAL 301 FS and UNIVERSAL 501 FS are semi-automatic blister packaging machines with the ability to form blisters in plane foil sheets and seal the insert material onto the blister in one operational cycle. The machines may also be used exclusively for either forming or sealing.

The machines are highly versatile and may be used for a wide variety of product groups including medical products, pharmaceutical products, cosmetics and non-food products. Product sizes range from tablet size to 1.5 m long curtain rails, while batch sizes range from a few packages up to 1,000,000 pieces.

These universal machines can also be used entirely for blister-forming tasks, which is just one of their many advantages.

UNIVERSAL 301 FS and UNIVERSAL 501 FS belong to a family of machines which includes standard machines for different product groups and special-purpose machines adapted to particular products and customer requirements.

Advantages of economy and storage

• The UNIVERSAL machines work according to a system whereby blisters are formed as they are required, which offers advantages of both economy and storage.

• At the same time it is possible, using simple inserts to reduce the blister depth or otherwise change the blister chamber - quickly and without the need to make new forming tools.

• The UNIVERSAL machines require very little space, and their construction allows for the design of a rational workplace.

Functional description

The UNIVERSAL machines form the blisters in plane foil sheets punched or cut to the required dimensions.

Two identical tool blocks are mounted on the packaging machine's turntable, both of which are used for forming and sealing. This permits continuous operation without any interruptions, and offers a higher capacity than when using pre-formed blisters.

The UNIVERSAL machines are equipped with state-of-the-art electronic controls. The required times and heater temperatures are set on the control panel.

The UNIVERSAL machines are user-friendly and extremely reliable.

Capacity

The capacity will depend on the material, foil thickness, product size, product shape and the number of packages per cycle.

Normally the same capacity is obtained using plane foil, instead of pre-formed blisters.

With ordinary, handy items and tools for 2 - 4 packages per cycle, the hourly production capacity is 400-600 packages.

For forming of blisters without sealing, the production capacity is typically 1100-2500 items per hour.

Packaging materials

Blisters may be formed in a variety of materials, including PVC, PET and PS. Blisters can be made in any standard material used for blister packaging, including cardboard, paper, aluminium foil, plastic foil, Mylar, Tyvek and pharmaceutical paper.
UNIVERSAL 301 FSX - 501 FSX

UNIVERSAL 301 FSX and UNIVERSAL 501 FSX are equipped with a retractable extra heater plate which is automatically inserted under the ordinary heater plate during the sealing process. The extra heater plate has an independent temperature control, which makes it possible to use different temperatures for forming and sealing, respectively.

The extra separate sealing plate can have any profile required for the sealing without the need to consider the foil heating. The sealing plate's surface may be cross-cut or profiled in another way.

The UNIVERSAL machines can also be made to suit special requirements specified by the customer, for instance to take large packages exceeding 1500 mm in length.

Tommy Nielsen also manufactures other packaging machines, including the fully automatic Pharmaline 220 and Uniline 400 packers.

Pharmaline 220
Fully automatic blister packaging machine, suitable for tablet and capsule packagings and medical, pharmaceutical and surgical products.

Uniline 400
Fully automatic blister packaging machine, which forms the blisters from foil on rolls and seals pre-cut cardboard inserts onto the blisters. The forming can be performed as positive forming with a vacuum or as negative forming with plug-assist, pressurised air and vacuum.

After forming, the blisters are cut off and automatically placed in the sealing palettes on the sealing unit.

ROLLER PUNCH

If perforations are required in tablet packagings to allow tearing-off of individual blisters, this perforation can be made on the sealed packaging by a roller punch. The roller punch may also be used to cut several packages formed on the same platform into single packages.
The engineering company Tommy Nielsen manufactures semi- and fully automatic blister packaging machines and tools for all packaging purposes. The machines are available as standard models or adapted to the customer’s requirements, or can be custom-designed for special applications.

Tommy Nielsen has many years of experience within this line of business and supplies products to customers all over the world. Tommy Nielsen’s R&D department is constantly working on the development of machines and packaging tools and the testing of new materials. The company maintains a close watch on developments within the field of blister packaging and is therefore always able to provide its customers with efficient and sound advice. In addition to the machine and tool production departments, Tommy Nielsen has a separate department for the supply of foil.

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