

## Special applications film/foil processing

Innovative technologies for  
the processing of film and  
foil materials.



Aside from the know-how in basic processes for producing classical formed packs, Höfliger can look back on a vast range of experience for customer-specific film processing. This is where innovative processes for modifying PE-based films prevail.

The shaping and forming films mandates expert knowledge of the behavior of the basic material with applied standard technologies - such as heat-sealing, thermoforming, ultrasonic welding.

Quite frequently it is not only the unique handling and further processing of a film. The task becomes highly involved when the processing of the web must be incorporated into the overall manufacturing process.

**An example in point is the urinary bag or pouch:**

**For urinary bags the absolute seal integrity and fail-safe functioning of the mechanical components are basic requirements.**

Base and lid web are fed from the reel. Pre-assembled connector and valve components are transferred and sealed into the web prior to sealing the formed bag. The exterior bag contour is shaped by a separating Laser-cut. A tube is connected. These complex sequences demand a high measure of technical capability in the handling of components of extremely diverging material properties.



**The patch with an unusual form of application – iontophoresis patches:**

The iontophoresis patch releases active substances to the skin. In order to improve the permeability (transmissibility) the patch is subjected to a stimulating current. Accordingly, the work steps of the machine have been precisely reconciled with one another.

The carrier web is formed inline and then loaded with die-cut textile pads in true register. Ultrasonic welding dots serve to hold the pad in the form.

The active substance is dosed in liquid form. A laminate with integrated electric modular group is applied to the filled and formed film as an airtight closure.

A cutting cylinder gives the package its final shape.

**Coded syringe gripper:**

**To define the dose of the narcotic, code strips are integrated in the product and are electronically verified prior to filling.**

The magnetic strips are cut to length and placed into the finger cap together with an anti-discharge strip.

The cover flap is welded shut with ultrasonics.

After programming and checking the parts are discharged by the pick-and-place units integrated in the turret.



Die-cutting and introduction of fabric pads into the cold-formed foil



Sealing medical bags with integrated valves



Ultrasonic welding of code strip in syringe gripper