



H&N Group

PACKAGING

unlimited

ideas · concepts · solutions

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Tailormade outfits for confectionery and dairy products



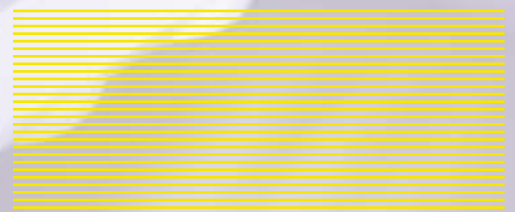
Chocolate Easter bunnies in figure-hugging designer outfits? Multipacked, single-serve dairy products for grab-and-go convenience? H&N is constantly adding interesting new products and customer-specific services to its wide portfolio of packaging for confectionery and dairy products.

H&N supplies product-protecting packaging materials which correspond to the highest hygienic demands and combine ecological and economical requirements perfectly. All packaging solutions are characterized by an excellent printing quality and environmental-friendly raw materials.

New: multipack for dairy products

In Germany, you could search the shelves almost in vain for dairy products sold in multipacks. One of the exceptions are probiotic milk drinks, sold in small (100 ml) bottles in 4-, 6- and 8-packs. This state of affairs offers bold and innovative marketing managers an opportunity to add an extra convenience bonus to their product image, and increase sales, by putting their products on store shelves in grab-and-go multipacks.

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Wanfried-Druck offer dairy product manufacturers attractive and practical multipack solutions:

1. **Wrap-around pack** with open ends for probiotic milk bottles.
2. The same container with 100/200 ml of content can also be packed with a **carton clip** that provides strong stability. Advantage: the body of the bottles (that might be decorated with beautiful shrink sleeves from H&N) can fully be seen.
3. **Yogurt and jelly pots**: for a one-row-group of 1x3 or 1x4 a pre-glued clip is offered which provides large surface for publicity and information on top and on sides.

4. **Camenbert cheese**: to protect the product from deformation during transport or handling, Wanfried-Druck has created a carton-sleeve. According to grade of maturity of the cheese, this sleeve can be equipped with windows or perforations.

Machine, materials and manpower all from the same partner

Packing into multipack systems requires special machines. **On request, Wanfried-Druck will supply packaging machines for all types of multipack packaging and cardboard sleeves.** H&N also supplies packaging machines for confectionery. All machines are supplied under a leasing contract. This means that customers are assured of high machine availability and the promised performance over

Packaging Overview

Confectionery:

Flexible aluminium foil and plastic film packaging, thermoformed packaging, cardboard packaging, wrap-around plastic labels, chocolate wrapping papers.

Diary products:

Single-type and composite aluminium-based packaging, labels made of PP monofilm, thermoformed packaging, multipacks.

the whole contract period. The leasing contract includes technical service and maintenance, and availability of spare parts.

Packaging

Moving with the times: Ecover® pouch packaging films

More and more manufacturers are using pouch packaging for their high viscosity products. With its product range Ecover®, Ebert Folien offers high quality laminates for a maximum protection of your sensitive products. That also helps to improve the efficiency of your packaging lines.

Silicones, acrylic resins, polyurethanes, dental compound, adhesives, resins and colour pigments need packaging that is highly resistant to moisture and/or oxygen. Pouch packaging has more to offer here than the widely used, but less effective, plastic cartridges. Another reason why pouch packaging is popular all along the supply chain is that it's easy and efficient to handle, store and use.

Long shelf life, fast and efficient filling

Ecover® pouch packaging films are made of special OPP and aluminium foil. Their **excellent barrier properties** will help to **extend the shelf and storage life of your products**. The mechanical properties of the films exactly match the requi-



Ecover®: highly resistant to moisture and oxygen

rements of this type of packaging: they have **high tear and puncture resistance, high seal strength** and **very low**

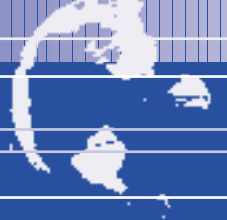
frictional resistance. With Ecover® pouch packaging films, production-line stoppages due to burst packaging are history. As is the waste of time and money to clean up the production system. It all adds up to higher productivity and **increased output.**

Storage and logistics

Film packaging also scores when it comes to storage and logistics. For example, the contents of a single pallet (approx. 50,000 running metres) will produce around 225,000 individual pouches, each capable of holding 310 ml silicone. To fill the same volume of silicone into cartridges would demand a far greater transport and logistics effort and far more storage space.

Pouch packaging has an excellent product/packaging ratio. This makes it not only **cheaper** than conventional cartridge packaging, but also more **environmentally friendly.**

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Technics

IML: One-step decoration of plastic packaging and products

In 1989, Drukkerij Verstraete began printing labels for the IML process on their sheetfed Heidelberg offset presses. In the years since then, the popularity of this method of applying graphics and information to plastic packaging has soared. Packaging companies have turned to IML for its high cost-effectiveness and the photographic quality of the result.

Areas of application and trends

Currently, the most popular applications for IML are in the yellow fat (butter, margarine), ice cream and salad markets. **The newest applications are in the non-food market.** Manufacturers are exploring the possibilities of IML for all kinds of **reusable plastic products**, such as cigar boxes, flower pots, and toys. In these applications, the label will need to be dishwasher proof and resistant to other factors, including cleaning agents, humidity, solvents and UV light.

UV lacquer and SuperWhite for highest standards

The new UV lacquer unit at Drukkerij Verstraete is the answer for IML applica-



IML labels: water and scratch resistant to withstand high temperatures, humidity and detergents

tions that need labels with **extra properties.** Coating with a UV lacquer will enable the label to withstand hot and humid conditions. Think of reusable objects – they need to be dishwasher proof. This means they have to be tough enough to **withstand high temperatures, humidity and detergents.** And don't overlook the option of a high gloss UV lacquer coating to give your packaging that **extra quality look.**

Typically colours printed on transparent labels have lower brightness than colours printed on a white, opaque film. Even underprinting with a layer of normal white ink can never match the full opaci-

ty of a white (non-transparent) film. Drukkerij Verstraete can offer you a solution for brilliant colours by printing SuperWhite on your transparent labels. SuperWhite is an enhanced white offset ink layer with far **better opacity.** It results in **more brilliant colours** and **better readability of the EAN code.**

Drukkerij Verstraete

Drukkerij Verstraete joined the Haendler & Natermann group in 2002. With 15 years specialist experience in printing and finishing in-mould labels, Verstraete set up a second production facility in Maldegem, near Bruges, in Belgium, in April 2004. This new plant, with 210 skilled and enthusiastic employees, is enabling the company to better serve the needs of a growing number of customers. Daily output is over 15 million labels.



New UV lacquer unit at Drukkerij Verstraete

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Innovations

Wrapstar®: Born to twist

The Innovations team at Ebert Folien has never rested long on its laurels of successful development work. The continual improvement of existing products as well as research into new packaging concepts was and is a solid component of the company's policy.

Wrapstar® will be manufactured from polyolefin's that are **environmentally friendly** and **lend themselves to recycling**, the specific weights of which lie **more than 30% below those of cellulose and PVC films**. Also, with its low film thickness, Wrapstar® responsibly supports the way in which to deal with valuable raw materials and the protection of our environment.

Excellent in appearance and processing

The professed aim of the development of Wrapstar® was to create a film with the utmost possible positive attributes of cellulose-based twist films. The result is that **the twist retention, dead-fold, cut-ability as well as transparency and gloss**

of the film are outstanding. Wrapstar® does not just **perform on all twist-wrap machines as well as Cellophane films**, its feel is also very similar.

Interpack 2005: World premiere for Wrapstar®

After the market introduction of Ecotwist®, (which at the time was the first CPP twist-film), in order to establish themselves as a competent global partner of the confectionery industry, the Wiesbaden team then turned their **attentions to a revolutionary new development** to regain the headlines. The official launch presentation of Wrapstar® will take place at Interpack 2005 (hall 10, Stand No.10A88). Visitors will have the opportunity to get to know more about



Wrapstar®: excellent appearance and outstanding processing

this new packaging medium on the combined H&N Group stand.

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