

Special Issue

FEPE Magazine

**INNOVATIONS IN ENVELOPES
AND ECOMMERCE
PACKAGING SOLUTIONS**



A magazine about the envelope, light packaging
and ecommerce packaging industries

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Editorial

Envelopes have been evolving since the first known envelopes, dated back to 3500 BC. Even then, their purpose was the same as today — to deliver important documents and items safely and securely from one place to another.

The first paper envelopes were developed in China around the 12th century. Over the centuries, formats and materials have changed. The first envelope cutting machine was patented in 1840. A whole ecosystem of engineering, materials science and design has gone into developing the resistant and sustainable envelopes we use today.

As communication and business models change, we are sending fewer letters but many more parcels. So companies have developed packaging envelopes of all sizes and formats, recyclable and reusable, to meet the needs of every individual client.

Innovation is in the DNA of our industry and FEPE members are constantly looking for ways to make their products to even better meet users' needs, whether they are consumers, sellers, delivery operators or the authorities. FEPE members are committed to finding solutions for paper packaging that meets the needs of people but also strains nature as little as possible.

This special issue of FEPE Magazine presents examples of FEPE members' latest innovations. Contact details are provided.

I wish you an engaging, educational and inspiring read!



Matti Rantanen
FEPE Managing Director

Ecommerce shipping bags

BY: BESTPAC GMBH



What is it?

Our ecommerce shipping bags are 100% made of paper. The mailers are the ideal plastic-free shipping solution for easy shipping and return of a wide variety of ecommerce items.

Benefits

The perforation opener with optional tear strip is quick and easy to use. With a quick pull, the flap separates completely from the pocket and allows full access. Thanks to the second adhesive strip, the shipping bag can be easily and quickly used for returns. The size of the bags can be individually adjusted to the required volume of the shipping item. So you're not sending excess air.

Availability

Available from stock in four standard sizes (S, M, L, XL) or as special production with individual print.

SUMO® paper padded shipping bags

BY: BESTPAC GMBH



What is it?

The unique and ecofriendly SUMO® paper padded shipping bags are made from 100% recycled paper.

Benefits

The padding effect is created by an advanced multi-layered paper construction that provides the best protection for the contents during shipping and completely eliminates the use of plastic. The recyclability makes the SUMO® paper padded bag one of the most sustainable shipping packages.

Availability

Available from stock in five standard sizes.

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e-Green ecommerce paper mailers

BY: BONG AB



What is it?

e-Green mailers are made from strong 120g/m² kraft paper, which is FSC® certified and fully recyclable. They are equipped with a block-bottom, a tear-strip and two peel & seal strips.

Benefits

e-Green mailers are made from renewable resources and can be recycled many times. They help to reduce packaging material, volume, weight and waste. As they adjust to the contents, no unnecessary volume or air is being transported.

Equipped with two adhesive strips and a tear strip, e-Green mailers are ideal for ecommerce: they are easy to pack and close, easy to open and reclose, and easy to dispose of in the waste paper collection.

e-Green is the efficient solution for goods that do not require solid packaging, such as clothing, shoes, accessories, cosmetics, consumer electronics and prepacked goods.

Formats

There are 5 standard formats. Printing and special sizes are available upon request.

Availability

e-Green is already available.



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ELCO Quick Vitro Paper

BY: ELCO AG



What is it?

The ELCO Quick Vitro Paper document bag consists of pure FSC® paper, water-based glue and a biocompatible window film made of PLA. Documents are securely held throughout the dispatch process and document removal is simple, using its perforated strip.

Benefits

This paper document bag combines all the features of the proven document bag with superior sustainability:

- consists of pure FSC® paper
- its biocompatible window film is made of polylactic acid (PLA)
- water-based glue
- disposable in paper waste
- simplified document removal through perforation
- secure hold throughout dispatch process.

It not only protects your documents during mailing, it can also be customised. It's the perfect and sustainable alternative to plastic document pouches in logistics.

Availability

The ELCO Quick Vitro Paper document bag is already available.



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AW®RBC biodegradable window film

BY: INNOVATIVE FILM SOLUTIONS S.L.



What is it?

A 100% biodegradable window film. It uses patented REBICOM technology based on peptides, enzymes and proteins, making it a truly biodegradable product.

Benefits

This unique, 100% BOPP-based biodegradable film allows our clients to offer a 100% sustainable alternative to traditional window films or to OXO-biodegradable films, to achieve their circular economy goals.

Availability

AW®-RBC is currently marketed across Europe, the UK and the US with great success due to its great performance, yield and variety of thicknesses.

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NOPP DEW 27 my and 29 my window film

BY: IRPLAST SPA



FEPE Magazine #4 included an in-depth article on Innovative Film Solutions S.L. (IFS, Spain) and Irplast S.p.A. (Italy), covering how they are working to supply the envelope industry with sustainable window films.

Download a copy here: www.fepe.org/news

What is it?

A sustainable and recyclable window solution.

Benefits

NOPP DEW 27 my and 29 my are matte, high-stiffness, both-sides-treated BOPP film, with consistent slip and antistatic properties, made with ISCC-certified polymers from renewable resources (bio-circular UCO).

Suitable for all W+D high-speed machines. With this sustainable solution for your window envelopes, you can be a pioneer in reducing the carbon footprint of your plastic windows.

Availability

NOPP DEW 27 my and 29 my are available in standard production.

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SafeBag: Plastic-free ecommerce bags

BY: STEINMETZ BRIEFUMSCHLÄGE
GMBH & CO.KG



SafeBag

What is it?

SafeBags are ecommerce bags made from extra-strong brown kraft paper. Including 2x peel & seal with easy opening and return option. Bottom gusset up to 110 mm for maximum fill level.

Benefits

Ecommerce packaging without plastic, for everyone who cares about the shipment of contents and the environment. Made from

recyclable and particularly tear-resistant kraft paper. Safebag targets customers who remain loyal to brands that are climate friendly.

WaveBag

What is it?

WaveBags are padded bags made from 100% paper and include 2x peel & seal for easy opening and a return option. Maximum protection of goods without using any plastic.

WaveBag: Ecological padded bags

BY: STEINMETZ BRIEFUMSCHLÄGE
GMBH & CO.KG



Benefits

The corrugated paper inside the WaveBag and the extra-strong weld seams protect their contents just as safely as conventional bubble bags, using 100% paper instead of plastic bubbles. They can therefore be disposed of in paper waste, by the recipient, without further waste separation.

Availability

SafeBag and WaveBag are available, in stock, in various sizes. Individual formats can be produced on demand. Optional printing in up to 6 colours.

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LEIPA sustainable envelopes

BY: LEIPA GROUP GMBH

What is it?

Paper produced using 100% post-consumer waste with the highest environmental certifications and opportunities to close loops. LEIPA products offer added value to the industry and real circular economy.

Benefits

LEIPA recognises the multiple hurdles the envelope industry faces not only today, but tomorrow. Robust, reliable, and secure, LEIPA is ready to support companies seeking new solutions. Delivering a new portfolio of envelope grades in brown and white shades, with 175 years of papermaking history, our heritage and experience is unrivalled.

Offering both products and services, LEIPA is transforming the supplier-customer relationship. We not only offer environmentally-friendly products; we can also assist customers in their sustainability strategies with a pan-European network of recycling partners. We can reduce the CO₂ footprint of the entire value chain (paper, logistics, recycling, etc.).

Availability

Already successful in multiple applications, LEIPA now focuses on a development phase in this industry prior to launching late 2022.

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TAP COMEBAG®

BY: TAP TELION AIR PAC GMBH



What is it?

High quality uncoated paper on the outside, premium bubble inside, made of eco-friendly polyethylene.

Benefits

We're using a 100% recycled paper together with a 90% recycled bubble wrap, giving us a product made of 95% recycled content. We meet the expectations of our customers while providing a very good protection.

Availability

Available in September 2022.

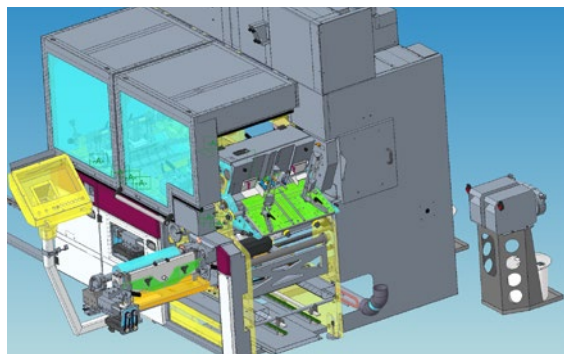
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W+D 628 BC

BY: WINKLER+DÜNNEBIER GMBH



What is it?

W+D 628 BC – Performance Envelope Machine with new Servo Flexo Stations.

An envelope converting system working from rectangular sheet or die cut blanks. It produces many envelope shapes and sizes (C7 up to B5, paper weight 70–150 gsm) including self-mailers.

Benefits

A development of the 628 high-performance series, the W+D 628 BC now includes 2/1 inline servo flexo print units. Featuring:

- quick-change plate cylinder sleeve technology that can be made ready off the press and changed in less than a minute
- flexo printing cylinders, servo driven for tight register and ease of setup
- remote impression and register running adjustments
- inspection camera for visual control of impression settings from the operator HMI
- optional dryer station for drying heavy ink coverage on coated paper stocks.

Availability

Available in Q4/2022.

W+D 449



What is it?

W+D 449 New high-performance pocket envelope machine for ecommerce shipping and fulfillment.

A large-format pocket envelope machine for size ranges 305x225mm up to 475x375mm. Specially designed for processing heavier paper such as kraft paper up to 160 g/m².

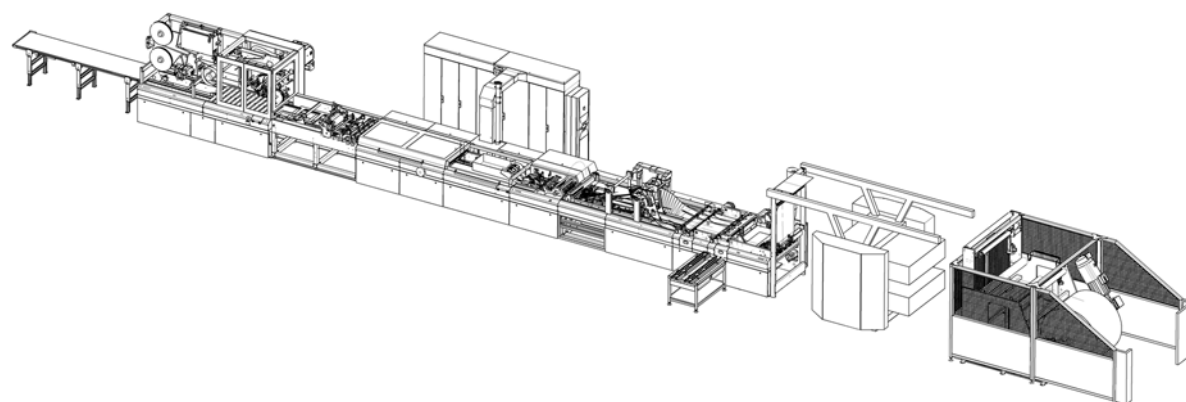
Benefits

The W+D 449 is designed for ease of use, product flexibility and high net production output, all in a single machine workflow. Produce 1-2 peel & seal strips, opening perforation, or tear strips and peel & seal strips for returns. Different pocket designs are possible (standard, zero-waste, cross-bottom). Optional integration of 4-colour flexo printing inline. The 449 is very operator friendly, offering a high level of automation, such as presets for folding and cutting cylinders, transport tracks storing the format data, nearly tool-less changeovers and scales for easy adjustments.

Availability

Delivery of the first machine is planned for Q1/2023.

W+D 410 KC



What is it?

W+D 410 KC combi web and blank direct mail finishing machine.

The W+D 410 KC works from roll or rectangle sheets or die cut blanks. It works white or digital or offset pre-printed papers. The size range is from smaller than C6 up to B5 using paper from 70–120 gsm.

Benefits

The W+D 410 KC is a very flexible direct mail finishing machine, ideal for a wide range of direct mail jobs, in short- to medium-job batches. A modern, easy-to-operate servo design guarantees shortest changeover times. The switch from reel to blank production is just a few steps. The machine offers inline flexo print, windowing and embossing, and can produce a wide range of envelope formats as well as some self-mailers. The optional intelligence package enables personalised 1:1 digitally printed material to be tracked for downstream mail matching.

Availability

First machines ordered; shipping in July 2023.

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FEDERATION FOR ENVELOPES AND FOR LIGHT
AND ECOMMERCE PACKAGING IN EUROPE

OUR MISSION

Historically, FEPE was the Federation of Envelope Producers in Europe, representing a thriving industry. Our mission has always been to support, defend and promote the envelope industry in Europe. But we live in a different world today, where information is shared digitally whenever possible and where parcel deliveries are fast overtaking envelope deliveries.

So, while envelopes remain at the heart of what we do, **FEPE's focus has expanded as we embrace the changes in our world and in the industry.**

As one business declines, others take its place: paper increasingly replaces plastics, ecommerce deliveries are soaring, direct mailing is being transformed. The envelopes and paper sector has seen a wave of innovation and the creation of new businesses.

JOIN FEPE

Today, FEPE serves the interests of companies in the sectors of, for example, ecommerce packaging, paper bags, bread bags, labels and other paper-based light packaging products, as well as envelopes.

Our activities include:

- research and documentation of relevant consumer, business and legislative trends
- awareness-building and lobbying to ensure a favourable regulatory framework
- gathering and documenting information on relevant regulatory changes, EU policies and laws
- contributing to the establishment of relevant standards
- running and contributing to awareness campaigns to promote the use of our members' products.

FIND OUT MORE

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