

packaging

INTERNATIONAL

YOUR PACKAGING INSIDER

N°4-2021

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PACKAGING



04/06

CAMA GROUP

Don't change
the packaging design,
just do it better!

FOOD



44/46

**SYNTEGON
TECHNOLOGY GMBH**

New packaging
machine for coffee:
Syntegon introduces
PMX

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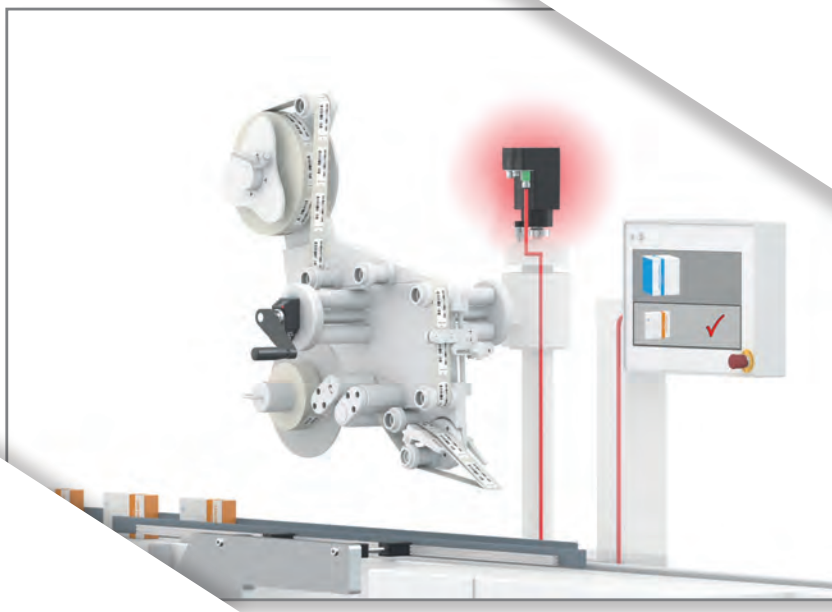


37-38

PICCOLI
PLAST SRL

In line with the new
trends of the green
economy

FOCUS ON



64/68

SIKO ITALIA SRL

Pharma 4.0 with
intelligent size
changeover

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DON'T CHANGE THE PACKAGING DESIGN, JUST DO IT BETTER!

A leading American dairy products company, which supplies retail, food service and co-manufacturing, with products including natural, processed and speciality cheeses, all in a variety of formats, recently faced a packaging dilemma due to an underperforming machine.

The company is proud of its brand and sees its packaging as a natural extension, as such the shape form and function of its multiple packaging styles is tightly controlled. Indeed, in a recent packaging project Cama Group was asked to create an identical packaging style, but with more control over the final shape and the tightness of the sleeve around the product.

The product in this case was a two-section thermoformed tray containing a dairy-based snack. These trays were to be packaged vertically in 1 x 3 and 2 x 3 arrays, using a sleeve created from a cruciform-shaped blank.

The existing packaging system was simply not performing as expected, primarily due to the fact that the packaging style had changed and the incumbent machine, although capable of fulfilling its role, was neither efficient nor offered acceptable throughput. For

this reason, the company approach Cama Group for a higher performing alternative.

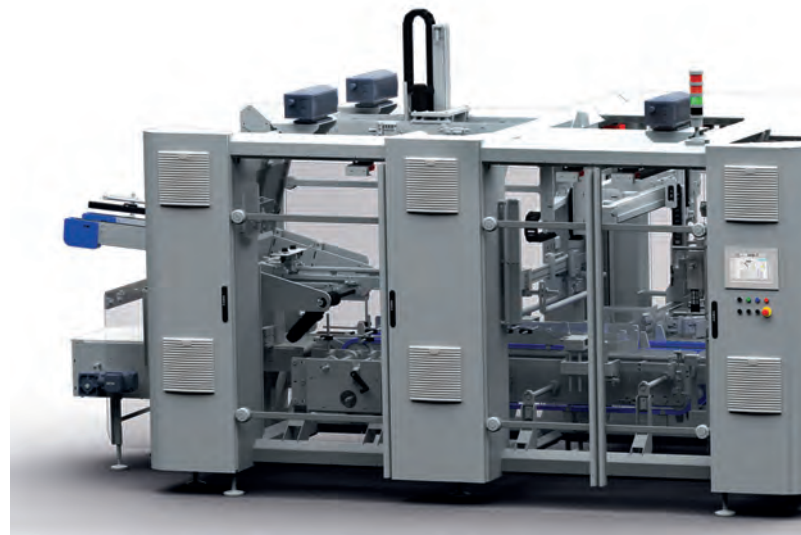
“Our challenge was to develop an approach that could apply the sleeve, but not too tightly,” explains Davide Di Lorenzo, Sales Engineer Manager North America at Cama Group. “In order to achieve this – where tightness is normally preferred – we had to look at a completely different way of forming and combining the sleeve with the product. In effect, we had to build a solution and a complete machine around an existing sleeve blank.”

Cama Group’s solution took the form of a specially modified IF Series Top-Load Carton Sleeve System. Part of Cama’s Breakthrough Generation (BTG), the IF Series has design and operational features that are setting the standard in secondary packaging.

Their modular, scalable and hygienically designed frameworks house contemporary automation solutions – including advanced rotary and linear servo technology – which can be tightly coupled to in-house-developed robotics, to deliver the all-important flexibility and adaptability required by modern packaging operations.

SECTORS

 **PACKAGING**





Sometimes it not just all about advanced secondary packaging technology. In a recent packaging challenge, Cama Group had to apply years of experience, design capabilities and extensive domain expertise too.

The machine range is also based on a digital platform that supports full Industry 4.0 capabilities, including AR, VR and virtual testing, training and operation. In operation, as opposed to being formed around the trays, in the new Cama machine the sleeve is formed without glue or the product being present.

The products are then collated and oriented into pockets on a racetrack conveyor. Groups of three are then picked up by a robot, rotated and loaded into the pre-formed sleeves.

Glue is then applied to the lateral flaps which are closed and then the top flap, which is secured by the sleeve being inverted and pressed. Using this approach equal pressure is only applied at the end and the package maintains its more-uniform right-angled corners.

Robots are used extensively in the machine for their speed, repetition, accuracy and flexibility.

One robot is used for sleeve erection, a second for product loading, a third for the first flap close and a fourth for the final flap close. When the packaging array is



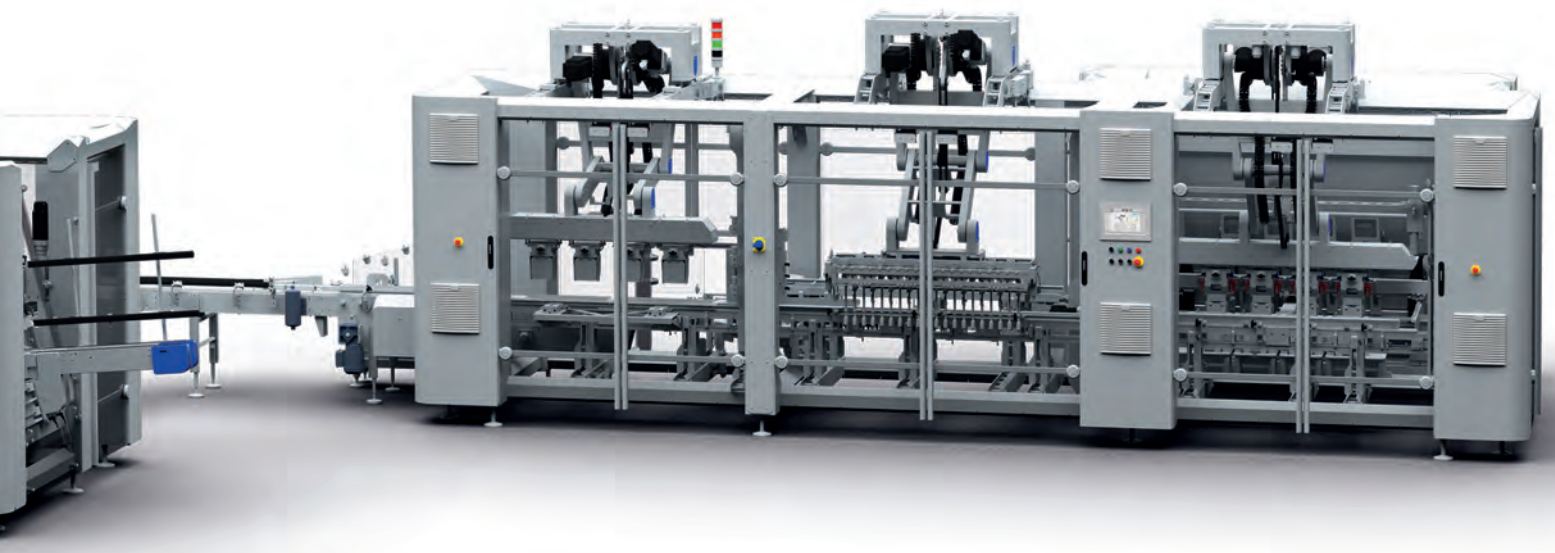
changed the robots can be instantaneously reprogrammed for the new format.

“It sounds relatively straightforward,” Di Lorenzo explains. “But this was actually a very tough project as we had to approach a fairly ordinary packaging application from a very different direction.

In many projects we offer the services of our packaging-design team, but in this instance, the packaging design was not the issue, it was the packaging process.”

The project also involved the design and delivery of a case packer, which took the packaged snacks from the IF Series machine.

“This was just as interesting as the sleeving solution,” Davide tells us. “As we were able to call upon our packaging design team in this instance, which was





able to enhance the dimension of the case, not only saving materials and but also optimising the eventual pallet-loading configuration.”

The existing solution used an American RSC case. Cama’s design team developed a flat-blank-based solution, which was not only smaller – saving 43% of materials vs the RSC design, but also resulted in an extra row of four in each palletted layer – from 4 x 4 to 5 x 4. The new case design also reduced carton stock holding.

“We were also involved right from the beginning – at the system engineering stage,” Davide concludes, “so we were able to give our customer all of the benefits of our

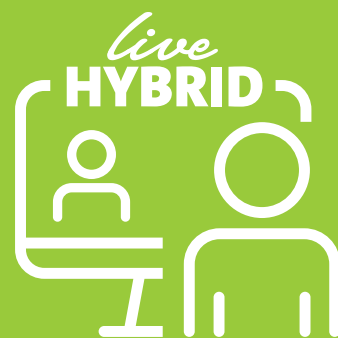
digital design, development, test and commission approach.

This digital approach also spills into machine operation, changeover, maintenance and reconfiguration, giving the customer the best possible agility to cater for changing market demands.

Digitally based flexibility and agility are essential in today’s market, but when they are supported by knowledge, domain experience and empathy, it becomes a much more powerful package.”

www.camagroup.com





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'HOLISTICALLY' UNITED TOWARDS THE YEAR 2080

Looking at packaging 'holistically' and working together with an 'open mind' is how companies have the best chance of reaching the year 2080. That is the main conclusion of the Packaging in the Year 2080 conference that the NVC organized last year, 25 November 2021. The unique event was presented by Katinka van der Spek (industrial design student at the University of Twente) and NVC director Michael Nieuwesteeg.

Around two hundred participants worldwide jointly discussed live the five major packaging themes of the coming decades. How do we maintain the of the knowledge and employability of the workforce? How far will the automation and computerization of packaging go? Will reliable business information be available in the near future? What role will packaging play in the aging society? How do we put an end to packaging as an environmental problem?

Mapping opportunities and threats

Each working group mapped out the opportunities and threats and reported back on them in the concluding plenary meeting. The year 2080 seems far away but it isn't: at the end of the meeting, student twenty-something Katinka van der Spek promised her co-presenter and fifty-something Michael Nieuwesteeg that she would attend the follow-up of the event in the year 2080. With a life expectancy of 90 years, that should not be a problem for her!

Automation: a permanent balancing act

Packaging processes generate more and more data, but what do we do with it? According to the working group, it's about constantly balancing the use of the available data with their actual useful application. The data must be reliable and this requires a reliable network. In automation, the network is formed by the various (sub)machine systems and their mutual connectivity. Many companies have now joined the NVC automation project Accelerate.

Reliable business information: attention to the network

In the same month that the meeting took place, Facebook changed its name to Meta. Twitter got a new CEO who reported that there is a lot of content, but that controlling access to it is becoming increasingly



Industrial design student Katinka van der Spek presented the event together with NVC director Michael Nieuwesteeg. She hopes to be there again in the year 2080.



Aging means not only more medical care, but also more attention to the everyday. For example, how will an aging population consume a classic Dutch 'wheel' of cheese?

NVC conference shares future opportunities and threats

important. Hotly debated in the working group, therefore, was the question, whether additional requirements should be placed on platform operators such as Google. And who should take on a possible referee role? Also exciting: how much energy does it take to keep all information available online and to what extent will our descendants in 2080 still be able to read all of today's and yesterday's information with today's equipment?

An ageing population is a sustainable necessity

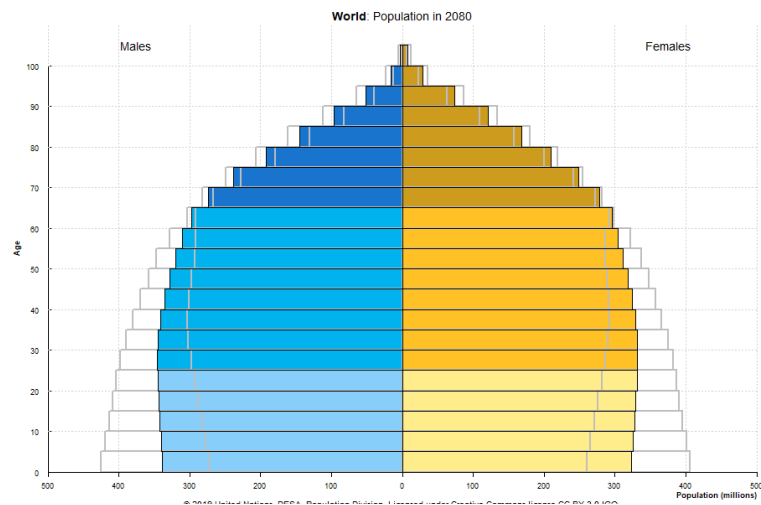
So all-embracingly important that we would almost all overlook it: population ageing. A higher average age is a sustainable necessity for a world population that wants to live happily for a long time in balance with the resources it manages to mobilize in the world. Suppose the world population is constant and life expectancy is 90 years. The average age of living people is then 45 years. The working group discussed WHO's future scenarios and linked challenging packaging questions to them. How will an aging population consume a beautiful product like a real 'wheel' of Stolwijker farm cheese? An interesting link to sustainable employability; at a retirement age of 70, the average student today will spend five years in regular higher education and forty-five years in his/her job. The NVC Sustainable Ageing project is now scheduled for June 24, 2022.

Environment: follow the PUMA

Current environmental problems may be solved by 2080, but new ones may be on the way. The speed with which techniques can be introduced and our behavior changed is relatively slow. An interesting question was whether the supermarket will still exist in 2080. This also emerged in the 'aging' and 'automation' work groups. If home deliverers such as HelloFresh know what portion size corresponds to a certain age, they can also deliver customized meals. Result: less food waste. The PUMA project is now known worldwide. On 16 March 2022, the 6th PUMA Annual Meeting will take place and on 3 May 2023, the PUMA World Conference in Düsseldorf, the day before the interpack there.

Sustainable employability: lifelong learning becomes the norm

For sustainable employability, the workforce must be continuously trained. Will we learn individually or as a group? Online or physically together? At work or in the classroom? Either way, group interaction and an inspiring teacher-student relationship are crucial. Above all, employees must remain curious, according to the working group. NVC is now present for employees in over



In all future variants, the PUMA project makes its presence felt, starting with the PUMA MANIFESTO.

80 countries with Live Online and Live Hybrid business education, supported by a 24/7 online learning environment. The entire conference with all presentations has been uploaded by NVC into the cloud and made available to NVC members, now and again at the NVC General Meeting of Members of the year 2080.

www.en.nvc.nl



SECTORS

PACKAGING

NEW CAST POLYPROPYLENE FILM FOR LAMINATION

Innovia Films latest development is Propacast™ KF a clear cast polypropylene film that has been specifically designed as a lamination solution for HFFS, VFFS and lidding applications.


Stephen Langstaff, Business Development Manager, Packaging at Innovia Films explains “With the drive towards simplified packaging formats, and the need to develop mono material structures, we developed this cast polypropylene film to act as an inner sealing layer.

This low temperature sealing film when laminated to other polypropylene films, such as our Propafilm™ CHS BOPP film with improved thermal resistance and shrinkage properties, creates an ideal structure for pouches. In the UK this structure would be recognised by OPRL as fully recyclable.”

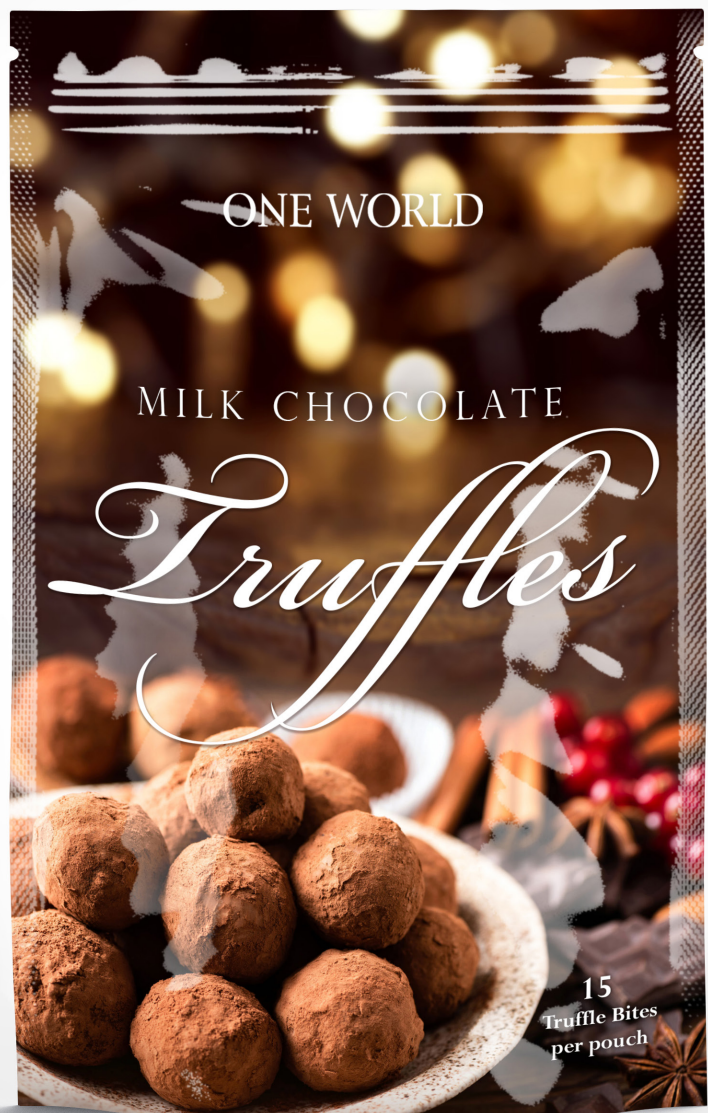
Propacast™ KF is available as a 30, 50 and 70 micron film which has a wide heat seal range. It offers good coefficient of friction and anti-block properties which ensures easy processing on a range of packaging machines.

KF has also been corona treated on one side to ensure suitable adhesion during lamination.

Langstaff confirmed “This development will enable better recyclable formats to be created, ensuring the circularity of flexible packaging. So far, all the feedback we have received about KF has been very positive.”

Propacast™ KF as a polyolefin film is fully recyclable, especially in countries which already have the infrastructure to recycle polypropylene films. 

www.innoviafilms.com



Propacast™ KF a clear cast polypropylene film for HFFS, VFFS lamination and lidding applications.

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TECNO PACK IS SYNONYMOUS WITH TECHNOLOGY, EXPERIENCE, AND SERVICE

in the sector of both primary and secondary flow pack and pillow pack packaging



A leading company in the sector, Tecno Pack offers solutions that are always specific and can be applied to every sector, but with a particular focus on food.

Tecno Pack provides all of the packaging technology that your company needs: from small, manually loaded electronic flow pack packaging machines, all the way to complete systems that collect products from the production line, package them in single or multiple packages, and transport them to the palletising machines.

A commercial team of specialised technicians, a strong and flexible technical office, the internal production of all

mechanical parts, the rigorous selection of trade materials, an outstanding production team, and efficient post-sales service available around the world, make it possible for Tecno Pack to offer its clients machines and systems that are always “tailor-made” and recognised as the utmost expression of current technological innovation by companies like Barilla, Nestlé, Pavesi, Kraft, Baxter, Chipita, PepsiCo, and many others.

High speed processes, flexibility, modified atmosphere, product shelf life, and global integration of packaging in the company system are just some of the things that Tecno Pack enthusiastically and tenaciously handles every



Tecno Pack

PACKAGING MACHINES



Tecno Pack wants to collaborate with and play a decisive role in your company's success.

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day and that, together with its clients, give it fresh life blood.

At Tecno Pack, they are confident of being able to create one of their "tailored designs" for your product and, from the get go, are committed to packaging it with the same care and attention with which it was produced.

Tecno Pack's objective is to provide only technological excellence, adapting it to the needs and evolutions of your company and therefore earning, over the years, your full approval.

SECTORS

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IFP PACKAGING, TECNOLOGIA DI CONFEZIONAMENTO IN FILM TERMORETRAIBILE



IFP Packaging rappresenta da oltre 25 anni un saldo punto di riferimento nella tecnologia di confezionamento in film termoretraibile. Entrata nel 2011 nel gruppo Tecno Pack S.p.A., ha avviato da quel momento un ulteriore nuovo percorso di sviluppo tecnologico, commerciale e industriale.

L'azienda produce macchine confezionatrici continue elettroniche realizzate su strutture integralmente a sbal-

zo, in grado di garantire alte prestazioni, grande affidabilità operativa, sanificabilità, versatilità d'uso e personalizzazione di progetto.

Sistemi di caricamento automatici, affardellatrici di ogni dimensione, fine linea completi vengono completamente personalizzati dall'ufficio tecnico per adattare ogni prodotto alle peculiari esigenze del cliente.

Nel contempo, l'azienda propone al mercato anche confezionatrici robuste e versatili, realizzate in serie, con



un rapporto qualità prezzo di assoluto interesse. Qualsiasi tipo di formato trova con IFP Packaging il giusto abito su misura: le molteplici soluzioni spaziano dall'atmosfera controllata all'alta velocità, fino all'automatismo più avanzato, garantendo sempre il massimo risultato ottenibile.

Le macchine IFP Packaging sono in grado di confezionare, conservare e proteggere tutti i prodotti alimentari, avvolgere articoli tecnici, anche di grande formato come i materassi o i termosifoni, creare e contenere gruppi di bottiglie o vasetti, presentare scatole in una lucida ed invisibile pelle, garantire il giusto numero, peso, quantità all'interno di ogni confezione.

DIAMOND 650 2 nastri

Diamond 650 2 nastri è il nuovo modello di confezionatrice orizzontale elettronica per film monopiega di **IFP PACKAGING**: lo caratterizzano tecnologia ed elettronica di ultima generazione, struttura a sbalzo e prestazioni di vertice.

Diamond 650 2 nastro è il frutto di una progettazione d'avanguardia che ha permesso a un macchinario ad alte prestazioni, professionale, longevo e performante di rispettare il target price richiesto, prestandosi con la massima versatilità a diventare un prodotto adatto alla piccola azienda come anche alla grande industria, in grado di confezionare prodotti singoli con o senza vassoio, utilizzando film termoretraibile a seconda delle necessità.

La sua struttura a sbalzo e l'accessibilità delle sue parti semplificano tutte le operazioni di manutenzione e pulizia, e il carico della bobina posizionata in fronte operatore ne agevola l'operatività. Il modello è disponibile nella versione in acciaio verniciato oppure in quella acciaio inox.

La gamma delle dimensioni e il sistema di saldatura in continuo rotante per mettono il confezionamento sia

di pezzi corti sia molto lunghi, come ad esempio profili oppure oggetti instabili.

Dotata di nastro trasportatore standard motorizzato, offre la possibilità di confezionare assieme pacchi multipli sia in linea sia fianco a fianco. La sua capacità produttiva è di 60 ppm, con ulteriore possibilità di caricamento automatico.

Particolarmente interessante la versione con tunnel di termoretrazione integrato, pronta per essere inserita in processi automatici come confezionatrice di linea. La possibilità di avere la macchina configurata da destra a sinistra e viceversa consente a un unico operatore di controllare due macchine contemporaneamente. Il touch screen permette la memorizzazione fino a 200 differenti programmi, con possibilità di cambio formato motorizzato fra differenti esigenze di confezionamento. Infine, il tempo che intercorre tra l'installazione e l'avviamento della produzione è ridotto al minimo grazie alla serie di controlli pratici e di facile comprensione garantiti dall'azienda.

Visita:

www.ifppackaging.it

SETTORI

 **ALIMENTARE**

 **BIO MEDICALE**

 **HARDWARE**

SUCCESSFUL VIRTUAL PRESENTATION OF EB SOLUTIONS FOR SUSTAINABLE AND RECYCLABLE FLEXIBLE PACKAGING

The Green Packaging Showroom, organized by leading companies of the flexible packaging industry, presented the benefits using EB printing technologies.

Approximately 1,000 people attended the Green Packaging Showroom, an event organized by Comexi and leading companies of the flexible packaging industry. The event presented the technological advantages of printing with offset or flexo Electron Beam curable inks, and its use in a wide range of flexible packaging applications.

“In partnership with SP Group, Elif, Chemosvit, Amcor, Vishal Containers, ESI, Sun Chemical, INX International, Dow, ExxonMobil, and Toray, we have shown brand owners the benefits that can be obtained by using EB printing technologies,” explains Felip Ferrer, the Offset Brand Manager of Comexi’s Printing Business Unit. “Inviting brand owners to explore the way in which sustainable

packaging can be sustainably created while adding value to their products was the objective of the Green Packaging Showroom,” highlights Jordi Puig, the Flexo Brand Manager of Comexi’s Printing Business Unit.

During the event, various partners showcased their innovative solutions and presented, with real examples of flexible packaging, sustainable trends and solutions. The benefits of EB Flexo and EB Offset printing technologies were also disclosed at the event, and issues related to print quality and energy reduction of the printing process were addressed.

These issues included EB inks, EB curing, packaging recyclability through the use of thinner films, monomers and reduction of layers, as well as a global scale reduction of the carbon footprint.

www.comexi.com



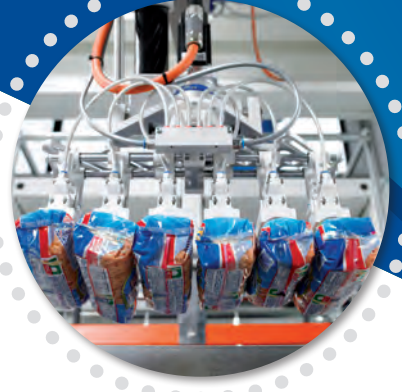
WE SERVE ALL!



NEW
continuous servo side sealer
DIAMOND 650 2 NASTRI



THE SHRINK PACKAGING REVOLUTION IS HERE!



TWIN ROBOT
robot for high-speed wrapping
of flow pack packages
in shrinkable film



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ifp
PACKAGING

GSP - PACKAGING MACHINES AND AUTOMATIC PACKAGING SYSTEMS

General System Pack builds and supplies packaging machines and automatic packaging systems, distinguishing itself with its advanced technology and extremely high quality standards.

The packaging lines produced by General System Pack are electronically managed, extremely sturdy, durable, and simple to operate and are built adopting solutions that aim to meet the most stringent ergonomic and hygienic demands. The wide range of models which General System Pack offers provide excellent flow pack solutions for every packaging sector, including automatic feeders and end-of-line equipment, ranging from controlled atmosphere to high speed, all the way to maximum levels of automation. The packaging lines offered are the best solutions for small and medium enterprises that wish to provide industrial-style packaging for their products.

GSP 50 EVO



GSP 65 BB



GSP 75 EVO




general system pack

The following are several examples of packaging machines and automatic series:

GSP 55 EVO: Electronic packaging machine, versatile and reliable, extremely flexible when it comes to changes in format, perfect for food and non-food products, for both single servings and multi-packages. It is characterised by a cantilevered structure and ease of accessibility, as well as its hygienic standards, simple maintenance, and built-in safety.

GSP 65 BB: Horizontal electronic packaging machine for long term heat sealing, designed to create hermetic bags in a controlled atmosphere for products that are more challenging to transport or that require extreme caution and zero shocks during transport and insertion

in the film. It is the perfect solution for increasing the shelf life of food products, while also providing a bag that is aesthetically pleasing and able to provide good mechanical protection to the contents.

GSP 50 EVO: Highly technological horizontal electronic packaging machine: a fast, easy-to-use, and versatile machine that is capable of combining high technology and an excellent quality-price ratio.

Visit: www.gsp.it

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NEW INVESTMENT IN BOPE LINE AT JINDAL FILMS BRINDISI- PROJECT “HORIZON”

A MAJOR STEP INTO THE FUTURE OF SUSTAINABLE PACKAGING

Jindal Films Europe is proud to announce a further expansion in its Brindisi plant that will create minimum 20 highly qualified jobs and add a capacity of further 50.000 MT on top of the current production volume of the site.

This additionally produced volume will be mainly dedicated to Jindal’s new innovative BOPE specialty film grades, including matt, sealable, coated, metallized and Alox films.

The new film developments will be focusing on fully sustainable and recyclable packaging solutions and strongly support the circular economy. In addition to that, this high efficiency program will also include the use of solar power and an expansion of the current trigeneration energy systems.

This will also clearly further improve the CO2 footprint of our Brindisi Operations.

On top of that, all these initiatives will utmost benefit from the close cooperation with Apulia Region Universities and the Italian Research Center based in Brin-

disi. This investment project is designed to further strengthening Jindal Films Europe’s leading role in the BOPE- and BOPP film markets. With a new total capacity of 130.000 MT Brindisi will become the biggest plant in Europe for BOPE- and BOPP films manufacturing.

This project is named “Horizon” because Jindal Films Europe is preparing itself for the future looking ahead what is beyond “Horizon”.

The Jindal Films Europe Team is looking forward to meeting all big challenges and making use of new innovative business opportunities ahead.

We at Jindal are fully committed to support all our Customers in meeting their sustainability and recyclability objectives for packaging materials.

This investment initiative is the result of a close cooperation with Regione Puglia on the basis of the Contratto di Programma, which we appreciate very much.

www.jindalfilms.com





THE EVOLUTION NEVER STOPS



GSP 50 S - NEW
electronic horizontal
pillow pack
wrapping machine



**HIGH-SPEED
PACKAGING LINE**



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general system pack

ALTECH - ADVANCED LABELLING TECHNOLOGIES

ALTECH is one of the major European producers of self-adhesive label applicators for product decoration, coding and identification.

Today, the company distributes its systems all over the Italian territory through a network of direct sales , while the commercial distribution for Europe and overseas takes place in more than 50 countries through a network of 80 qualified resellers and 3 subsidiary companies in the United Kingdom, the United States and South America.

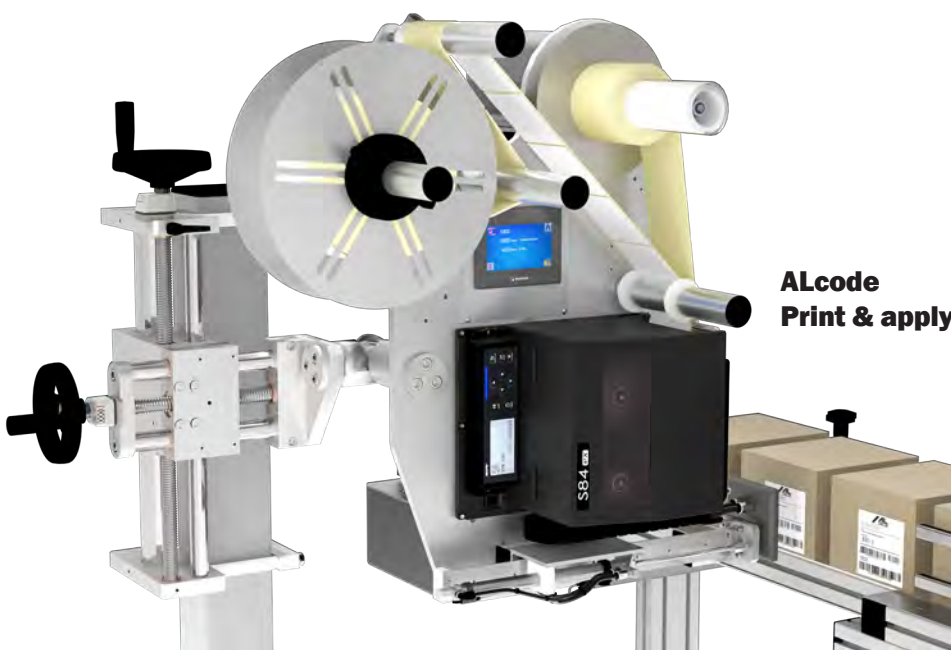
Its range encompasses the following products:

ALstep - low-cost applicator featuring modular and flexible configuration.

ALritma - high-performance label applicator, which can be easily integrated in packaging lines. It is also available with thermal transfer print-



ALbelt
Top & bottom labelling machine



ALcode
Print & apply label applicator

ing group in the ALritmaT version, for print/apply applications.

ALcode – real-time print-apply systems which apply labels immediately after printing, in any position, on both stationary and moving products (even at high speeds).

A specific pallet labeling version, ALcode P, is able to print and apply A5 format labels on two consecutive sides of a pallet (normally front and side, per EAN 128, or even three sides on request).

ALbelt - simplified linear system which is open, compact, and particularly economical. It can be configured for wraparound, c-wrap, top, bottom, top and bottom, top and side labeling of various products, cylindrical or flat. It's ideal for labeling cases, boxes, trays, jars and cans.

Its simple and solid main structure houses a conveyor and one or more labeling heads (choice of ALstep, ALritma or ALcode model).

ALline – complex linear system able to apply self-adhesive labels to a wide range of product shapes, constructed with the most reliable materials and components on the market to offer the highest levels of performance and production.

The modular design incorporates ALstep and/or ALritma heads, and can be configured on the basis of customer requirements, allowing application of labels of any shape and size for front/back or wrap-around labeling and seal application to food, cosmetics, chemical and pharmaceutical products.

For further information:
info@altech.it - www.altech.it



ALline E
Front & back labelling machine

SECTORS

✓ PHARMACEUTICAL

✓ COSMETIC

✓ FOOD

COMPOSTABLE BAGS SOLUTION ENDS SEARCH FOR FRESH PRODUCE GROWERS

Smart Packaging Hub is, essentially, a benchstrawberry Fields Organic Farm grows an extensive range of “inspirational vegetables and herbs”. But, after 46 years of organic growing, they had struggled to find a supplier of compostable bags at an affordable price.

That was until they discovered the C BAG from flexible packaging and lidding films supplier KM Packaging and their partner Treetop Biopak.

It was with great enthusiasm that Pam Bowers of Strawberry Fields recently Tweeted: “After years in the researching, they’re here! So exciting! All Strawberry Fields lettuce as from tomorrow will go out in these bags.”

The C BAG is from KM Packaging’s C-Range of compostable bio-plastic packaging with similar properties and look and feel as conventional plastic.

It has proven to be perfect for packing the products grown by Strawberry Fields at their farm in the Lincolnshire Fens, 10 miles north of Boston at the foot of the Wolds.

Pam Bowers said: “As well as not being able to source compostable bags at an affordable price, no one seemed to be able to supply on a wicket which is essential for our way of working. The C BAG was the ideal solution.

“Also, what we like about the bags is they immediately look different to their plastic counterparts so the customer is able to tell at a glance they are compostable.”

Watts Farm, Kent-based growers, packers, and distributors of fresh produce, is another satisfied KM customer who had been searching for some time for a cost-efficient compostable packaging solution.

They chose the C BAG due to its lower cost and compostable qualities.

VERIFIED AS COMPLIANT NON-GMO

Both Watts Farm and Strawberry Fields were keen to replace existing packaging with a compostable alternative.

And Strawberry Fields were particularly concerned about GMO in some compostable packaging during their search





for a supplier. They were also aware that the UK Soil Association requires organic-certified growers to use compostable packaging with no GMO.

So Strawberry Fields were delighted to discover that the C BAG from KM Packaging had been verified as compliant with the Soil Association Food & Drink standards. It is now being used to pack Strawberry Fields' Rainbow Chard, Red Oakleaf, Green Oakleaf, Romaine, Red Batavia, and Green Batavia lettuce.

THE KEY FEATURES OF THE C BAG INCLUDE:

- Home compostable.
- Guarantee non-GMO raw materials.
- Meets the Soil Association Standard for packaging materials.
- Excellent mechanical properties.
- Very good impact and puncture resistance.
- Excellent water resistance.
- Suitable for manual and automatic bagging lines.
- Good material perforation, keeping fruit and vegetable fresh.
- Printable.

The bio-plastic C-Range products from KM Packaging have been developed in partnership with Treetop Biopak, specialising in providing innovative compostable packaging solutions.

Treetop owner Amir Gross said: "As growers of fresh produce, Strawberry Fields and Watts Farm are very conscious about the environment.

They, therefore, sought a suitable compostable packaging solution.

The C BAG is ideal for them; from plant to pack and then back to compost."

Customers can compost the bag at home, including any vegetable leftovers, which will accelerate the bio-degradation process. Alternatively, if the local council offers kerbside collection of organic food waste, the bags can be used as caddy liners.

The C-Range of bio-plastic packaging materials includes shrink wrap, stretch wrap, adhesive tape, and bags. It enhances KM's portfolio of sustainable flexible packaging solutions and offers customers a wider range of choice.



LABELX[®]: THE TOP OF THE RANGE AUTOMATIC LABELLING MACHINE PRODUCED BY LABELPACK[®]

The automatic labelling machines from the LABELX[®] family offer reliable and high performance solutions for:

- integration on flow-pack packaging lines;
- vertical bagging machines;
- cartoning machines;
- packaging machines with shrink-wrap;
- packaging lines;
- ... and much more.



LABELX[®] ES, the family's primary model, available in three different widths (140 mm, 250 mm, and 350 mm), offers a wide range of accessories that allow for its integration on any automatic packaging line.

The highly evolved management electronics, available for every model, ensure high speed and outstanding application precision. All operating parameters can be easily managed from the functional, colour, touch screen operating panel.

Integrated with a thermal-transfer printing unit, LABELX[®] becomes a sophisticated print and application system that is capable of applying labels on single packages or high production bundles, offering many optional functions, including:

- non-stop production line;
- inspection of the applied label;
- inspection of the label's legibility;
- compliance of bar codes.



SECTORS

 **PACKAGING**



The LABELX® family is expanding with the following versions:

- LABELX® RM, with twin engine: a model equipped with a 400 mm diameter bobbin holder that can handle a relatively high operational autonomy capable of reaching an application speed of 80 m/min.;
- LABELX® JR, suitable for medium to low productivity applications: a model that can be equipped with thermal-transfer printing units for printing variable data and bar codes.

LABELX® an LABELX® JR are the heart of two labelling systems, designed by LABELPACK® specifically for the food sector:

- COMPACT, the entry level series of automatic labelling systems: available in 8 production models, offers countless customisable solutions with labelling machines from the LABELX® JR series that are capable of applying labels with a height of up to 140/ 250 mm;
- MODULAR, the top level series of automatic labelling systems: capable of responding to high production needs, it is equipped with all of the features necessary for integration in processes related to industry 4.0.



www.labelpack.it



kiradesign.it

Label your world, label your life.

LABELX®

A perfect choice for food industry.

Labelling solutions for cans, jars, bottles, trays, boxes and bags.

Print & Apply solutions for boxes and pallets.

MORE INFO



SIMPL-CUT BY P.E. LABELLERS REVOLUTIONIZES LABELING MARKET

Simpli-Cut™ represents a technological revolution in the world of traditional Roll-Fed machines.

It changes its operating principles and overcomes the limitations that these labelers typically have. It is a rotary roll-fed machine for the application of pre-glued wrap-around labels, with differentiated advantages that bring major benefits to customers.

Simpli-Cut™ won PMMI's coveted Technology Excellence Award 2021 at Pack Expo in Las Vegas, the world's major packaging trade show.

This year the first prize for the most innovative solution in the General Packaging category was awarded to Simpli-Cut™, the revolutionary labeling solution that won over the international panel with its uniqueness and ingenuity.

P.E. Labellers is one of the world's leading providers of innovative labeling solutions. The company's latest development is called Simpli-Cut™, and it is "simply" revolutionizing the Roll-fed labeling market.

Despite being widely used in industries such as soft drink and water, traditional Roll-fed labelers have several areas that can notoriously cause downtime and frustration for users.

One of the biggest complaints about traditional roll-fed labelers is downtime associated with the frequent cleaning of the vacuum drum that transfers labels after they are cut. In traditional Roll-fed labelers, glue can accumulate on the drum and in the vacuum holes. Eventually, the machine must be taken out of operation and cleaned. Additionally, the label cutting area of traditional Roll-fed labelers presents inherent challenges for maintenance personnel. Typically, the setup time for the cutting blades is long and significant expertise is required to optimally set them up. Simpli-Cut uses a "cutting edge" process to solve each of these problems.

Identikit

- **INNOVATIVE CUTTING SYSTEM**
IMMEDIATE BLADE CHANGE IN 10"
- **GLUE APPLIED BEFORE CUTTING**
DRUM ALWAYS CLEAN

- **ONLY ONE DRUM**
ZERO MAINTENANCE
- **UP TO 6 DIVISIONS PER DRUM**
TOP LEVEL FLEXIBILITY AND SPEED
- **NO-STRESS LABEL UNDERWAY**
EFFECTIVE MANAGEMENT
- **TWO-IN-ONE MACHINE**
HOT MELT ROLL-FED AND LINERLESS PRE-GLUED

A "Cutting Edge" Solution

The patented Simpli-Cut technology optimizes the labeling process, virtually eliminating maintenance-related downtime and reducing cost by addressing three major areas:

- 1) One of the most obvious benefits of the Simpli-Cut system, as the name implies, is the simplicity of



the cutting system. Unlike traditional roll-fed labelers that use contrasting blades to cut the label, Simpl-Cut uses fixed blades on a rotating drum to very simply cut the label.

The fixed blades are contained in a cartridge which can be changed out and ready to run in less than ten seconds.

The process of changing and setting up blades can take hours in traditional Roll-fed labelers.

- 2) Second, in the Simpl-Cut process, **hot-melt glue is applied prior to the cutting of the label, virtually eliminating glue buildup on the drum.**

In traditional Roll-fed labelers, glue is applied after the label is cut, leading to significant glue buildup on the drum which has to be cleaned often by maintenance staff.

- 3) Lastly, **Simpl-Cut optimizes the labeling process by using only one drum to transfer and cut the label**, whereas traditional Roll-fed labelers require two separate drums for each function. This revolutionary feature significantly reduces maintenance, improves uptime and allows for much faster format changes.



A Global Revolution

“The response from our clients has been outstanding,” says Scott Smith, Senior Vice President of Business Development of ProMach, the global group leader in Packaging the P.E. Labelers in part of. “The problems that the Simpl-Cut technology is solving are universal, so these systems are being purchased by a wide variety of clients, from multinational soft drink manufacturers to regional bottled water companies.”

As a product brand of global packaging industry leader ProMach, P.E. Labelers has an extensive sales and service network around the world.

The company believes that its global footprint is key to ensuring the success of Simpl-Cut. “This is truly a global product,” Smith says. “Adoption has been especially strong in Western Europe, South America, Mexico and the United States. We clearly understand the importance of local service and support and have made significant investments in our aftermarket infrastructure to be able to support our clients around the world.”

One of the earliest adopters of Simpl-Cut technology in the United States has been Silver Springs Water.

According to President Kane Richmond, the Simpl-Cut technology is the future of Roll-fed labeling. “Silver Springs has been a customer of P.E. Labelers and their Roll-fed systems for years. We saw the Simpl-Cut technology soon after it was released and liked the simplicity of the single drum, the reduced setup time and the quick-change knife system. We liked it so much that we ordered two Simpl-Cut machines. I expect this to be the standard for Roll-fed labeling moving forward.”

SECTORS

 BEVERAGE

 FOOD & DAIRY

 PERSONAL & HOME CARE

 CHEMICAL



P.E. Labellers S.p.A. Headquarters – Mantua (Italy).

Other famous natural mineral water brands have been among the first to benefit from it. For example, **Spumador, part of the Refresco group**, already has four Simpl-Cut Flex installed in different factories and intend

to purchase new ones. **Volvic, a brand of the Danone group**, and **Silver Springs Water** are other important references.

www.pelabellers.com



SIMPL-CUT™, the best-in-class roll-fed technology

PE. LABELLERS™



PE. LABELLERS™

Simpl-Cut™ Technology






PACKAGING
PREMIÈRE



PCD

The future of luxury, perfume, cosmetics & personal care packaging

24-26 May 2022 Fieramilanocity, Milan

by EASYFAIRS

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www.packagingpremiere.it
www.pcdmilan.com

PACKAGING PREMIÈRE SHAPING LUXURY

Packaging Première, the selective exhibition dedicated to luxury packaging launched in Milan in 2017 and aiming to connect designers and manufacturers with the major international brands, is moving forward to an intense new chapter.

The annual meeting will take place in Milan from May 24 to May 26 2022 at Fieramilanocity and will be enriched by the presence of PCD Milan, which since its launch in Paris in 2001 has become the world's leading event for the beauty packaging community. PCD - Packaging of Perfume, Cosmetics & Design has been the driving force in beauty packaging innovation and represents real excellence in primary packaging. Its long-lasting reputation thanks to 20 years serving the global beauty community, makes PCD the event that defines the perfume, cosmetics and personal care packaging year after year.

The strategic decision of Packaging Première and PCD Milan - both part of Easyfairs Group - to join forces together is crucial to connect people and inspire innovation, to give the opportunity to present the most original projects, share ideas and thoughts, discover new technologies and materials and create the packaging that will delight and seduce consumers and retailers in the future. Packaging Première and PCD Milan 2022 will unite the influential community of packaging developers, designers and suppliers, offering the perfect stage to enhance the entire supply chain, from primary to secondary packaging.

Looking forward to the next and thrilling 2022 edition of Packaging Première, the exhibition unveils the launch of the AVANT- GARDE project: all the exhibitors of Packaging Première 2022 have the opportunity to submit their most innovative luxury packaging projects to a jury made up of experts (university lecturers, designers, etc) which will elect the best ones to be displayed in a special area of the exhibition. Projects need to fulfil innovation requirements such as innovative and distinctive features, breaking the rules and go beyond established trends, featuring energy-saving design, environmental compatibility and sustainability. The projects will be presented during a dedicated





conference, where each participant will have five minutes to introduce the project and explain its innovative features. The winning products, services and designs will be published in the Exhibition's Official Catalogue 2022, thus promoting proactive design and innovation. Packaging Première had been working on several initiatives over the past months, always committed to the packaging community, thanks to the vision of its founder Pier Paolo Ponchia, who enhanced the image of the event through collateral appointments and services such as Packaging Première Collection and Pack Match, in addition to the webinars of the Trends Talks series. "Our aim is to make Packaging Première live 365 days a year. We want to be a respectful partner for our packaging community, always by its side with engaging activities and innovative proposals, such as Pack Match, a personalized business matching service that offers a highly qualified and free advice to the audience of Packaging Première looking for specific packaging solutions for their products", says Pier Paolo Ponchia. "The expertise and market knowledge of our team allows the users of the service to discover excellence in terms of products and processes", he adds.

The idea of exploring new business and networking opportunities while maintaining a tailor-made approach led Packaging Première to the kick-off of Packaging Première Collection, which was held in October 2021 at the Padiglione d'Arte Contemporanea in Milan and brought the "best-of" in the deluxe packaging sector into the spotlight. Divided into three days, each was dedicated to specific areas: cosmetics, perfumes, fine food, wine & spirits, fashion, accessories, jewellery, paper, cardboard, finishing and coating materials.

The countdown for the fourth edition of Packaging Première and the first edition of PCD Milan officially started, bringing a new fresh approach on packaging development.

www.packagingpremiere.it

SECTORS

 **PACKAGING**



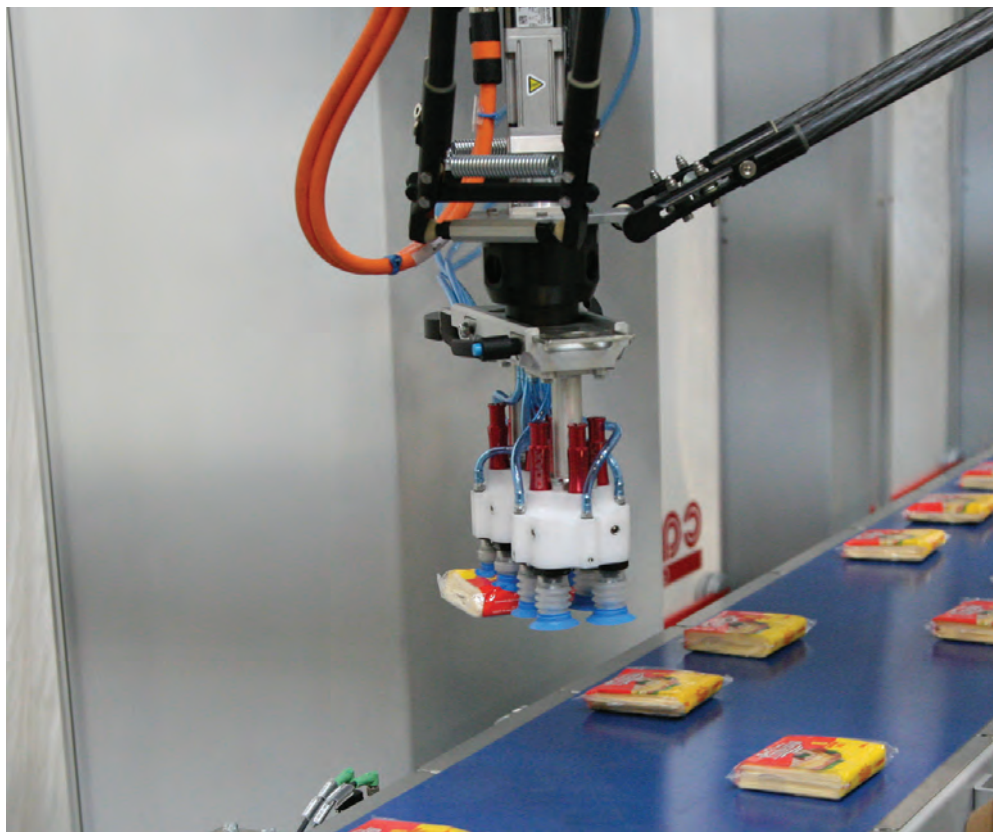
AUTOMATIC TRANSPORT OF PACKS OF CHEESE SLICES OF DIFFERENT SIZES AT HIGH PROCESS SPEEDS



With the use of piGRIP[®] suction cups, certified for use in contact with food products, and COAX[®] vacuum generators, both produced by Piab, CAMA Group has created an innovative packaging system that can handle as many as 280 packs of cheese slices per minute

In a complete line for the packaging of cheese slices, on the loading machine, CAMA Group installed plastic grippers made with piGRIP[®] suction cups, approved for food contact, combined with Piab's high-efficiency COAX[®] vacuum generators. The process is characterized by an extremely high number of formats that can be managed: ten product formats and about fifteen box formats, with many different possible combinations. We are therefore talking about over 100 formats. With multiple formats (box plus cheese slice packs), including heavy ones weighing up to 1 kg.

The first need was therefore to minimize the substitution of the gripping unit due to the format changes. CAMA Group has there-

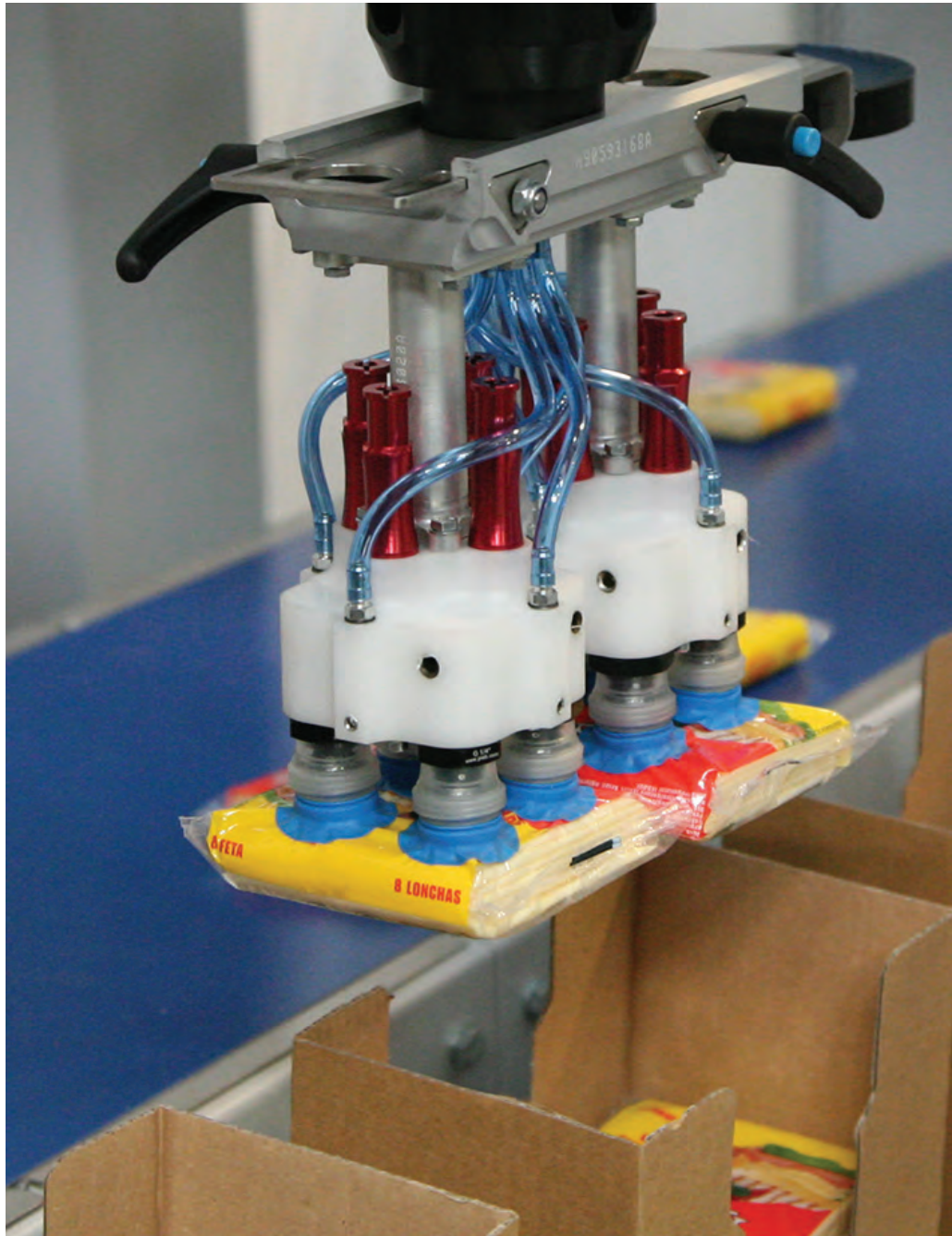




fore developed two types of gripper, with which it can handle all formats of cheese slices: one with 2 and one with 3 gripping units. Each unit consists of 4 suction cups and 4 vacuum generators and takes one pack of cheese slices at a time.

Another critical element of the process is the high speed with the consequent risk of damage to the flow pack and the possible creation of wrinkles on the product.

“We were looking for FDA-approved suction cups - which not all suppliers can provide - that would allow us to handle different formats, at high process speeds, without ruining products,” said Massimo Monguzzi, R&D Manager at CAMA, in charge of the project. “With Piab we went for a sure thing. We carried out viability tests with the assistance of technicians from the Italian division



and developed a gripping solution that is characterized by flexibility. Since each suction cup is combined with a single vacuum generator, we can choose to run only some of the four suction cups on each gripper. This all results in savings in compressed air and electricity consumption. Before choosing Piab vacuum generators, we also tested electric side channel pumps.

These did not work because they have a very long response time, it is difficult to regulate the vacuum and finally, they can

cause damage to the products, resulting in high production waste. We, therefore, turned to Piab's COAX® technology, which allows the vacuum generator to be installed close to the gripping point, solving all our problems.

As for the suction cups, we chose Piab's piGRIP® with lip for bags, installing four suction cups with a diameter of 34 mm for each gripper unit. This solution proved to be the optimal solution for our process because it offers a secure grip but leaves no marks on the packages.





piGRIP® is a unique, configurable suction pad concept with individually optimized parts for gripping, lifting, and level compensation.

Handling small bags in cartons is the specialty of the piGRIP® suction cups from Piab, which feature particularly soft lips that grip different package surfaces. The piGRIP® suction pads enable fast and safe handling, facilitating the automation of fast processes.

Piab's COAX® vacuum generation technology minimizes energy consumption while offering a safe and fast grip due to its high initial flow rate. COAX® ejectors deliver three times the flow rate of a conventional vacuum ejector with the same air consumption, resulting in up to two times the speed.

The pump unit can deliver high performance even with low or fluctuating supply pressure. This was demonstrated in independent comparative tests conducted by the "Fraunhofer Institute for Machine Tools and Forming Technology IWU" in Dresden.

These tests showed that Piab ejectors require significantly less compressed air to achieve the same result as ejectors from other suppliers. Consequently, their use reduces the cost of compressed air supply and thus the total cost of production.

Note: photo of the packaging plant of Cama Group with piGRIP® grippers and Piab's COAX® vacuum generators from Piab.

Founded in 1981, CAMA Group is an international leader in the design and production of complete high-tech secondary packaging systems for important multinational groups in both the food and non-food markets. CAMA Group annually invests 5% of its profits in Research and Development to offer its customers innovative solutions with a high degree of customization.

Digitization is part of the company's DNA. CAMA Group produces smart and responsive machines, ready for data analysis, which allow realizing virtual Factory Acceptance Tests through video conference calls (Live FAT). All this is fundamental to face the emergency related to covid.

CAMA Group staff (200 people), is composed of a team of highly specialized engineers and technicians, committed to the company philosophy of "total quality process system". CAMA Group works in close collaboration with a network of qualified suppliers, identified as C.S.P (Cama Selected Partners) - including Piab Italia - whose performance is constantly monitored and controlled in the application of the company's solid and stringent quality control procedures.



PICCOLI PLAST, IN LINE WITH THE NEW TRENDS OF THE GREEN ECONOMY

Piccoli Plast is a family run company founded in the 90s in a small warehouse of about 600 square meters.

The company over the years has grown considerably and has made itself known both nationally and internationally in the production of blown plastic containers.

Piccoli Plast srl is now located on a total area of 11,000 sqm of which about 7,000 sqm are covered. Into the area there are around thirty latest generation low consumption blowing machines and an internal workshop equipped for the production of molds and the related equipment. There are also well-organized warehouses for the storage of raw materials and finished products. A new photovoltaic system for the production of clean energy will be installed shortly

We have diversified productions that are destined for different sectors such as food, cosmetics, pharmaceuticals, chemical / detergents and coating.

We also specialize in the production of liners of different models for 117 and 217 LT drums.

In addition to the standard products, our technical and design office is available for customized items on request, and for the feasibility and realization studies of molds in our internal workshop.

We periodically create new articles and product lines to offer innovative and sustainable packaging, in line with the customer's requests.

Recently we have completed a new PET packaging ideal for food supplements. The bottles of the new Zen series are available in 200 ml and 250 ml format in PET material with PFP 28 closure.

For some products we also offer a "Just in time" service, keeping the items always available in stock for small quantities.

The company also offers a wide range of closures and accessories to provide the customers with an increasingly complete service.

We are proud of our job and we do it with commitment. We are convinced that plastic must not be banned a priori, it is necessary to make correct use of plastic products and packaging and a careful disposal. It is necessary to raise awareness and improve the culture of citizens and Institutions towards a true "circular economy".

We need a strong commitment to the recycling of all materials and the use of products made with PCR-ma-



SECTORS

✓ COSMETIC/
PHARMACEUTICAL

✓ CHEMICAL /
DETERGENT

✓ CHEMICAL



terial, according to the directives of the EU. For this reason Piccoli Plast, in line with the new trends of the green economy, proposes innovative solutions and models to promote the transition towards a circular plastic economy by offering the possibility, on request, to have containers made with materials from renewable sources (sugar cane), containers in “post-consumer recycled” PCR-HDPE and R-PET.

Since 2004, the company has adopted a UNI EN ISO 9001: 2015 certified quality management system.

We also proud to have the ISCC-PLUS certification: The International Sustainability & Carbon Certification (ISCC) is an International certification program for the circular economy that focuses on verifying the traceability of recycled materials (e.g. mixed plastic waste) on the basis of mass balance accounting principles.

www.piccoliplast.com



ZEN
scopri la nuova serie.



PICCOLI PLAST
blow moulded packaging

www.piccoliplast.com

LESSEBO KASKAD NOW AVAILABLE IN SOUTH KOREA VIA DOOSUNG PAPER

Lessebo Paper announces today the launch of Lessebo Kaskad at Doosung Paper, which makes one of the most environmentally friendly, high quality coloured paper ranges available to customers in South Korea. Lessebo Paper has been producing paper since 1693, making it one of the oldest paper manufacturers in Sweden. The company focuses on sustainable and innovative graphic paper in the premium segment.

Lessebo Kaskad is an environmentally friendly paper manufactured in Sweden from chlorine free pulp (TCF).

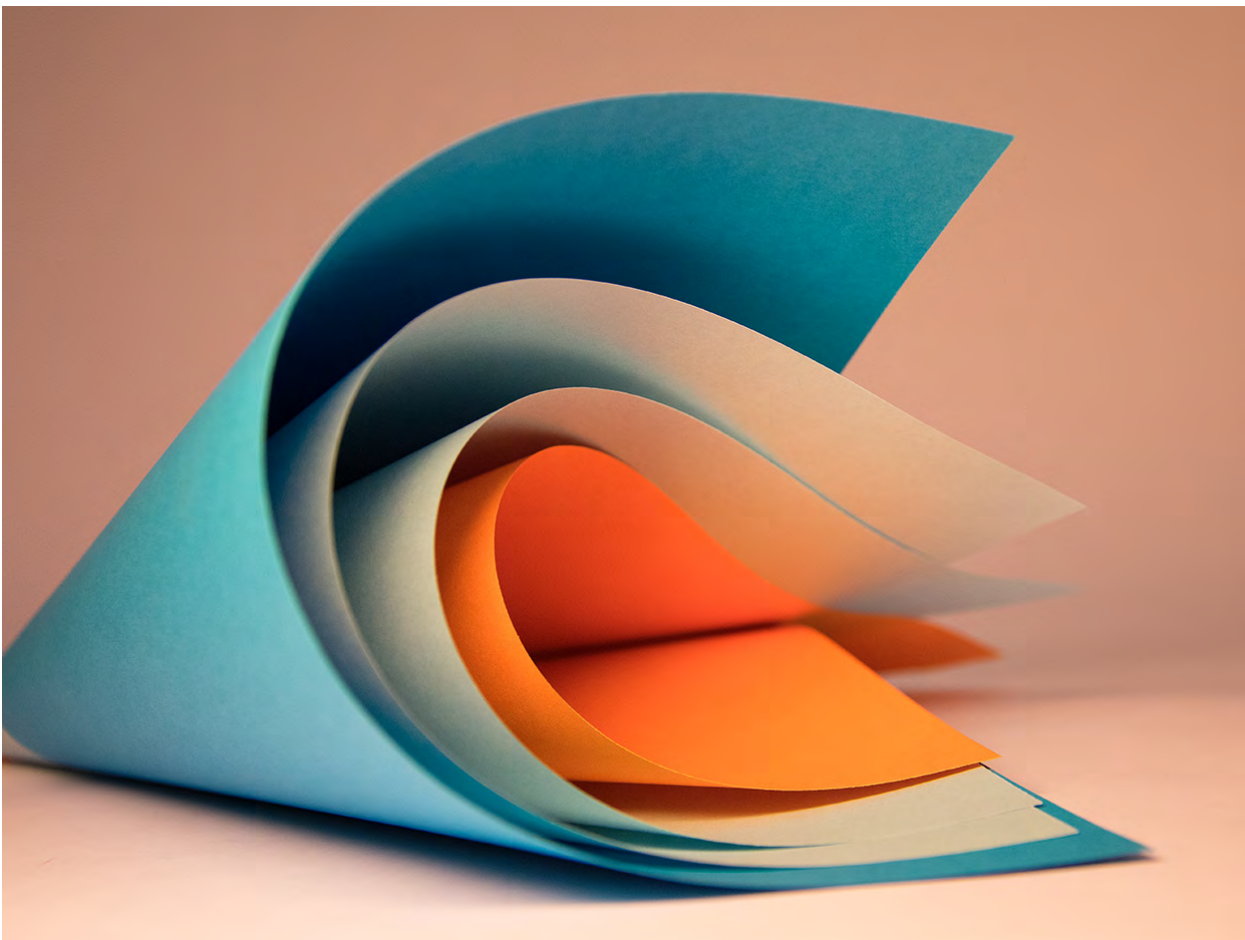
The quality is acid free, has a matt, non-reflective surface and is resistant to ageing in accordance with ISO 9706. Lessebo Kaskad is already available in a large number of countries and is a very popular quality to use for luxury packaging applications – such as liner

for boxes and quality paper bags – but also for books and other creative printing matter.

Doosung Paper is a South Korean paper merchant established in 1982 that today is represented at 6 locations across the country. The company has several paper stores across South Korea and their Doosung Paper Gallery and design education center are cultural spaces for designers and artists, which perfectly complements their offer to the market.

“We are proud to be working together with Doosung Paper, serving the South Korean market with Lessebo Kaskad and our other high quality, environmentally friendly papers of Lessebo Paper,” states John Tucker, Sales Manager at Lessebo Paper in North and South America, Asia and South Africa.

lessebopaper.com



PUMA IN PARIS FOR COSMETICS AND BODYCARE

The PUMA project is the collective effort of the business packaging community to end packaging as a global environmental problem.

Based on the PUMA MANIFESTO, global developments in packaging and the environment are analyzed. With the French edition of the Manifesto in hand, a PUMA team went to Paris in early 2022 and studied the packaging of cosmetics and body care products. All this in the run-up to the PUMA World Congress, 3 May 2023 in Düsseldorf, Germany. The PUMA MANIFESTO can be downloaded for free from www.nvc.nl/puma



Michaël Nieuwesteeg

Managing Director of
NVC Netherlands

COLLECT-CONTROL AND BACKEND

Emptying the pack is done at a different location and time than filling it. Thus, in general, a collection step and a processing step are needed that do not create environmental problems. The Collect-Control step can only go well if the consumer is willing and able to participate. How and where should the emptied packaging be disposed of responsibly? Information on packaging is not very unambiguous; for example, at Yves Rocher we find the French 'triman logo' fraternally next to the DSD logo.

A big issue is still how detailed the information to the consumer should be and to what extent 'broadband' backend processing will become available.

The same week that PUMA visited Paris, the French President Macron was pleased to report that Eastman Chemicals was going to build a processing plant in France to convert all kinds of collected plastic packaging, including that from cosmetics packaging, into new raw materials.

Eastman's project has also received the support of an impressive number of international brands that see mo-



lecular recycling as a crucial tool for achieving 'circularity'.

LVMH Beauty, The Estée Lauder Companies, Clarins, Procter & Gamble, L'Oréal and Danone have signed letters of intent for multi-year supply agreements from this plant, which will have a capacity of 160,000 tons of collected plastic waste per year.

THE PACK-USE-EMPTY (P-U-E) SPIRAL



This is where it all starts: packaging the product, using the product, and ideally, using the product completely (and thus emptying the pack completely). We find exuberant packaging (see, for example, the Sephora Holiday Vibes multi-package) and you might wonder how much residue is left in the plastic tube of a viscous product like Chanel aftershave balm. That the industry is trying to do something can also be seen: l'Occitane's provides a special tool (the 'magic key') so you can use all of your favorite cream. Monoprix brings sachets 'with 50% less plastic' for facial care. But the number of daily uses for different products does vary for the same pack by a factor of two (twenty times for the face scrub and forty times for the face cream).

THE FRONTEND

Whoever wants to pack a product, needs packaging materials. One way or another, these materials come from existing stocks that have not yet been touched by man, from renewable sources that have not yet been touched by man or from materials that have already been used and are supplied again from a backend process.

For the 'organic', plant fiber based packaging such as folding carton, it is apparently assumed that consumers recognize it as renewable.

As such, this is not often listed on cosmetics packaging. Challenged by this implicit environmental claim, the inorganic packaging materials are also beginning to stir at the Frontend.

How about a large display in a L'Occitane flagship store on the Champs Elysees that the aluminum tubes are made of at least 96% recycled aluminum? With that, the elephant in the room of packaging materials has now also become visible: how much energy do we need to sustainably live up to these claims (and also those of a process like the Eastman Backend process mentioned above in the plastics sector)?



PROSYSTEM - SINCE 1991 TAILOR-MADE PACKAGING TECHNOLOGIES

High technology meets the attention to detail of Made in Italy

Since 1991, ProSystem has been one of the market leaders in the production of single machines and complete lines for packaging, palletizing, wrapping and depalletizing.

Quality, efficiency, functionality, respect for human resources and the environment: these are the values that guide our company today and for the future.

But the heart of ProSystem's experience is in technology: each machine is designed and built according to the specific needs of the customer, to offer efficiency and maximum economy at a delicate stage of the product's life. Emblematic is the COMPAL series, the monoblock of packaging and palletizing that have also conquered Australia.

It is a tailor-made approach that has made the company famous all over the world, bringing the excellence of Made in Italy in the automation sector.

The company is operating in various fields of application, from the food sector, home care, personal care, chemical, to petrochemical, paints and solvents.

Each project is faced as a challenge, in which the difference is the skills and the team's harmony.

The stages of a service of excellence

The company's know-how is made possible by a method that accompanies the customer at every stage, from feasibility analysis to design, from implementation to after-sales assistance. It is a turnkey service, increasingly appreciated by customers who are looking for a unique contact person to rely on.



casing machine

After-sales and technical assistance is just one of many things we take pride in, with a service of spare parts in just 24/48 hours, able to ensure the fast recovery even in case of breakdowns, with a team ready to leave for every corner of the world - the location of the office next to the airport Catullo in Verona is strategic.

The redesign also plays a key role: the dedicated design team is able to revisit the lines to meet every need - including new formats, production speeds and extensions

A family history

Founded by Renzo Brizzi, ProSystem is the story of a family business, where skills and passion are handed down from generation to generation. Today Renzo's daughter, Jessica





company plant

Brizzi, supports her father in the management of the company, with the role of Sales and Marketing Manager of Prosystem.

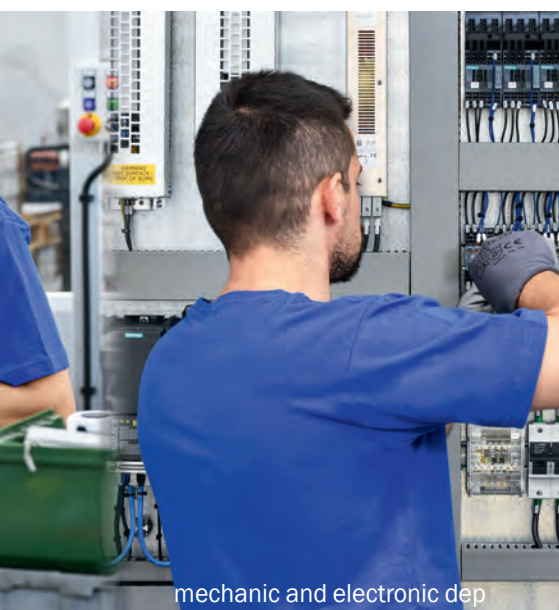
The company today

With the new frontiers of packaging - increasingly sustainable and based on lot - the company is making numerous investments to make the machines increasingly efficient in consumption and open to innovation.

ProSystem can be your partner! 🏢

www.prosystem-packaging.com

proSystem
PACKAGING



mechanic and electronic dep

SECTORS

- ✓ FOOD
- ✓ COSMETIC
- ✓ PHARMACEUTICAL
- ✓ CHEMICAL
- ✓ PAINTS AND SOLVENTS

NEW PACKAGING MACHINE FOR COFFEE: SYNTEGON INTRODUCES PMX

Waiblingen/Germany, January 25, 2022. Syntegon Technology is expanding its portfolio for coffee packaging machines with the PMX packaging machine for ground coffee and whole beans. The machine can be used for different packaging formats thanks to fast format changes and full-corner-sealing. A modular concept enables manufacturers to react fast to changing market requirements and customer needs. At the same time, the PMX fulfills modern requirements with respect to sustainability and digitalization. It processes recyclable mono-materials and reduces energy and material usage through condition monitoring.

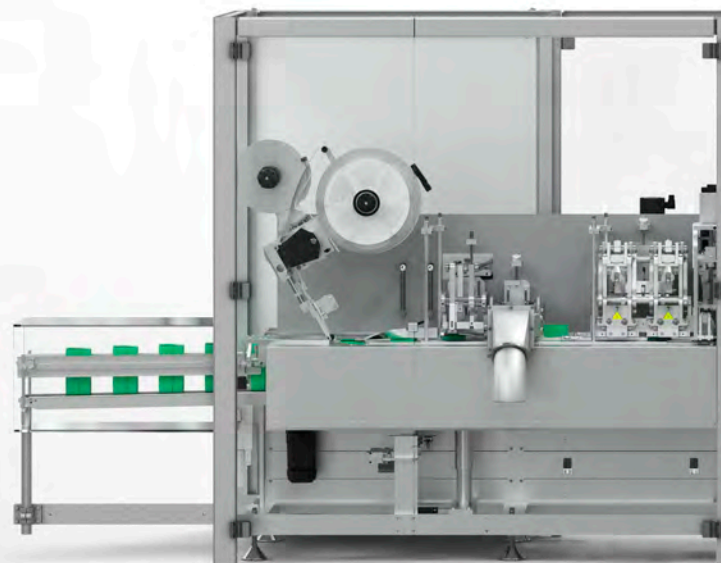
Highest flexibility through modular design

The PMX is composed of individual modules which make dosing and closing stations as well as the machine design individually configurable. Thanks to the modular structure, specific customer requirements can be realized while also achieving efficient output: the PMX packs up to 65 packages of 500 grams of whole coffee beans per minute. To reach an output of up to 100 packages per minute, the machine is also available as a double tube version. All stations are designed to process recyclable packaging materials and valves made of mono-materials like polypropylene or polyethylene to meet the needs of sustainable value creation.

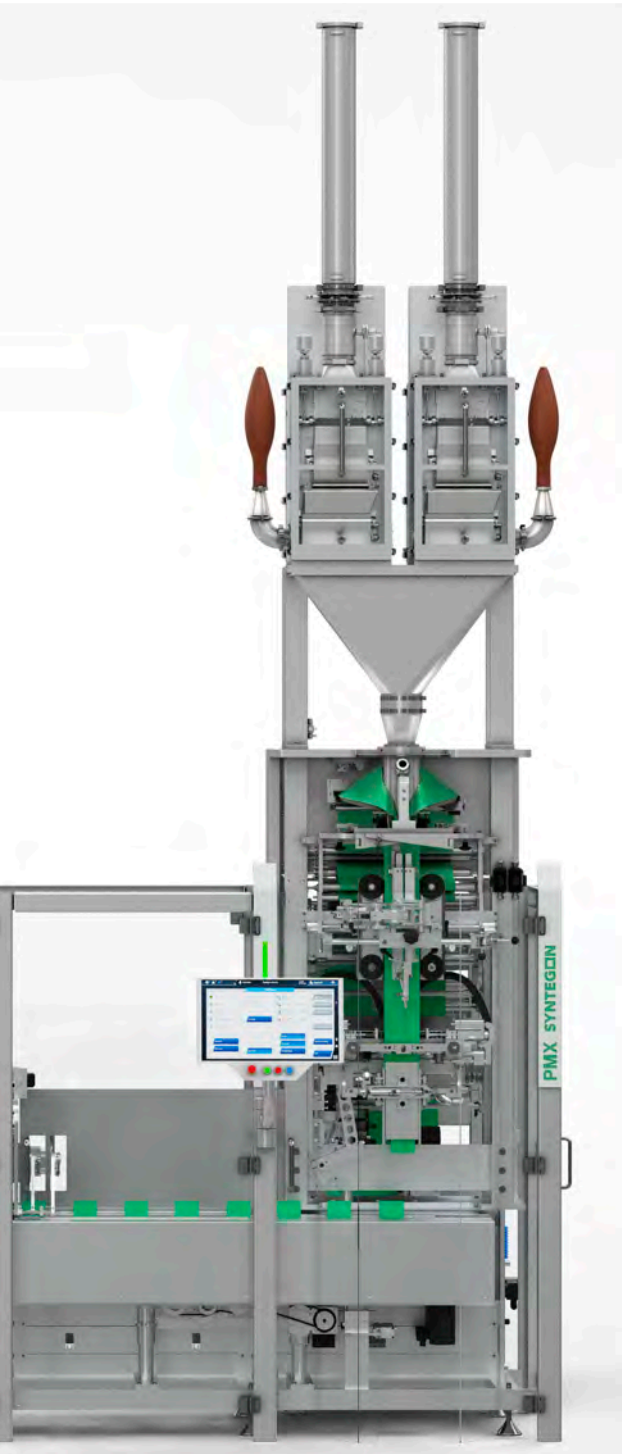
The PMX platform's flexibility offers a crucial advantage for coffee manufacturers. 3D format changes on the closing unit can be achieved automatically at the push of a button. If the bag cross-section format is changed, the machine will be ready for use again after just 30 minutes. It is therefore suitable for small, medium and large packaging formats – various bag variants and closing elements can be combined.

The PMX produces coffee bags with package weights between 200 and 1200 grams, both with upright and downfolded top parts. The bags are reclosable via tin tie, labels or adhesive tape. If required, manufacturers can use an innovative spout closure through which the coffee beans are emptied out at the packaging side – a con-

The PMX is composed of individual modules which make dosing and closing stations as well as the machine design individually configurable.



- Highest flexibility enables customer-specific format requirements
- Full-corner-sealing for attractive design options
- Condition monitoring reduces resource consumption



All stations of the PMX are designed to process recyclable packaging materials and valves made of mono-materials such as polypropylene or polyethylene – taking sustainable value creation into account.



venient feature, especially for end users. The “neutrafill” process, in which the coffee is gas-flushed before and during the packaging process, ensures aroma protection.

Full-corner-sealing for attractive product presentation

To make the best use of the print area and ensure that the label is easy to read, the full-corner seal does not have longitudinal seams on the back of the packaging. “This type of sealing not only looks attractive on the shelf, but also pays off in terms of sustainability. By positioning the full-corner-sealing module in the front area of the forming tube, the packaging materials can be retracted within just a few cycles – which reduces the loss of material significantly”, says Dr. Hans Albrecht, project manager at Syntegon.

Lowering the height of the machine reduces the cycle time, which enables higher packaging speeds. This also results in a lower drop height for the coffee beans, which reduces the breakage rate and rejects significantly and leads to better ergonomics for format changes. The full-corner-sealing can be retrofitted to existing PMX machines at any time. Manufacturers can thus plan for the long term with the machine even in case of design or format changes.

Latest sensor technology monitors resource consumption

To keep energy consumption as low as possible, the PMX is equipped with condition monitoring. In addition, the consumption of inert gas and packaging material can be digitally monitored and controlled. Machine data is collected in real time and clearly displayed on dashboards.

“Coffee is a popular product whose quality must be protected. Our goal was to develop an efficient packaging machine that offers manufacturers enough flexibility for future changes as well as meeting sustainability requirements,” emphasizes Christina Holm, product manager at Syntegon.

www.syntegon.com

SYNTEGON

PROCESSING & PACKAGING



The PMX is suitable for numerous small, medium and large packaging formats. Different bag variants and closure elements can be combined.

Increased capacities at Sappi's Austrian site in Gratkorn

EXPANDED PRODUCTION OPTIONS FOR IN-DEMAND FUSION TOPLINER

Sappi, a leading provider of sustainable woodfibre-based packaging materials, is expanding production of its successful Fusion Topliner grade to its flagship mill in Gratkorn, Austria.

The Fusion Topliner – a white virgin fibre liner for high-quality corrugated packaging – will also continue to be manufactured at Sappi's Ehingen mill in Germany. With this project, Sappi isn't just expanding its production capacity in the corrugated board business. By offering the same product quality from both mills, Sappi is bringing production closer to its customers – to guarantee a sustainable and short supply chain in the heart of Europe.

- Sappi's Fusion Topliner virgin fibre liner strengthens brand image and impact, and demand continues to grow
- Capacities are now being expanded through significant investment at Gratkorn mill, Austria
- Volumes will be enlarged in the next months to ensure reliable customer supply

Just a decade ago, there were only two options on the market for coated white corrugated liners: either kraft liner made from high-quality raw materials and with a very low recycled content, or test liner, which consists almost exclusively of recycled paper. As an alternative, Sappi developed its Fusion Topliner, now the most wi-

Discover brilliant corrugated solutions.



sappi



dely used corrugated liner made from pure virgin fibre. It is recommended for applications such as premium quality consumer goods packaging and POS displays – where high visual impact and differentiation are key. The product also stands out with exceptional strength and versatility.

Sappi's Fusion Topliner has been successful on the market for many years. Demand for the product has continued to grow, due to its exceptional characteristics for print quality and finishing.

Production is now being expanded from the German mill in Ehingen to include Sappi's flagship mill in Gratkorn.

The available capacities are now being expanded to include the production of Fusion Topliner in addition to existing graphic papers.

Volume availability will be increased month by month to support the expected growth of our customers, and to satisfy large requirements in the corrugated board business.

"Gratkorn offers the best possible technical prerequisites for the production of our Fusion product. With the investments we have made, Sappi is strengthening both its packaging and speciality paper business as well as the Gratkorn mill itself," explains Sappi Sales Director Packaging & Digital Solutions Luis Mata.

Sappi is a leading global provider of sustainable woodfibre products and solutions, in the fields of dissolving pulp, printing papers, packaging and speciality papers, casting and release papers, biomaterials and bio-energy. As a company that relies on renewable natural resources, sustainability is at our core. Sappi European mills hold chain of custody certifications under the Forest Stewardship Council™ (FSC™ C015022) and/or the Programme for the Endorsement of Forest Certification™ (PEFC/07-32-76) systems. Our papers are produced in mills accredited with ISO 9001, ISO 14001, ISO 50 001 and ISO 45001 certification. We have EMAS registration at 5 of our 10 mills in Europe.

Sappi Europe is a division of Sappi Limited (JSE), headquartered in Johannesburg, South Africa, with 12,500 employees and 19 production facilities on three continents in nine countries, 37 sales offices globally, and customers in over 150 countries around the world. Learn more about Sappi at www.sappi.com

SECTORS

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OMAG, TECHNOLOGY AND FLEXIBILITY IN SINGLE DOSE



Omag is an Italian company that has been designing and manufacturing packaging machines for powdery, granular, liquid and pasty products in 3 and 4 side sealed sachets, stick-packs and doy-packs for over 45 years. Omag was founded in 1973 and today counts over 120 employees and its export business accounts for 70% of the turnover.

The company has three production plants: one entirely dedicated to the production of components (about 65% is produced internally) and the new headquarters of over 6000 square meters where mechanical and electronic design, machinery assembly and testing take place.

International sales network and, thanks to agents and distributors, a global presence, which is also supported by two foreign sales offices in Russia and Ukraine, directly managed by founding partners.

Our products

All Omag sachet and stick packaging machines can be manufactured on a variable number of rows, equipped with different dosing systems, combined with robotic counting units and cartoning machines and can be com-

pleted with different options such as batch number and expiry date printing, check weighers, etc.

Our main characteristics are certainly quality, sturdiness, design and reliability and they can be found in all our packaging machines, but the key attribute that set us apart is the flexibility.

In our business there are no machines built in series: each machine is designed ad hoc, tailor-made according to customer's objectives and requests.

SECTORS

 **PACKAGING**



At the base there are highly technological machines able to meet our customers' needs, also through robotized systems and each machine is different from the other. This is flexibility as we understand it, which, combined with passion and the desire to push ourselves higher and higher, has allowed us to get where we are today.

Customer centricity

We do what we do best: we design and build high quality, high-tech machines with an essential design to ensure easy operation. We pay great attention to our customers' needs, in fact it is fundamental for us to fully satisfy them not only during the sale phase but especially after the installation of the packaging machine. A well-structured after-sales office allows a prompt assistance to the customer also through on-site and remote interventions, training and training activities. We offer customer service and create a relationship of mutual trust that brings value to both. We also support our customers in the pharmaceutical sector with the drafting of highly professional GAMP5 documentation packages that simplify the validation process of our machines.

Innovation and Industry 4.0

From a technological point of view, in recent years we have focused on issues related to the opportunities offered by **industry 4.0 and energy saving**. In fact, all our models are now offered in a fully electronic version, guaranteeing flexibility and energy saving.

As far as industry 4.0 technologies are concerned, we use a series of software implemented on our packaging machines to comply with regulations in terms of traceability, safety, quality and interconnection with company information systems.

In addition, thanks to remote control, our customers can request additional services that allow us to monitor and interact with packaging machines installed worldwide with real-time access to a series of functional data to diagnose their status and provide targeted assistance in case of anomalies. With the aim of ensuring increasingly timely service, we are developing artificial intelligence algorithms for predictive maintenance, i.e. the prevention of potential faults before they occur in order to avoid unexpected production downtime. We have also integrated augmented reality systems so that the customer, by framing the packaging machine with a smart device, can have immediate access to a series of data, user and maintenance manuals and analyse the status of the machine in complete autonomy.

www.omag-pack.com



PERSONALIZED SLEEVES AND SELF-ADHESIVE LABELS

Orograf S.r.l. has been in the SELF-ADHESIVE LABEL and SLEEVE business for 50 years and We are a well-established firm, both in Italy and internationally, hold ISO 9001:2015 certificate. We offer a high-quality and highly flexible all-round service, from graphic design through to final printing.

Our production facilities are highly innovative and use the most advanced manufacturing technologies.

We have a wide range of printing systems (letterpress, screen, HD flexo, digital, offset, hot relief, dry relief, perforation, glitter effect and on-foil pantone overprinting), and we can print on all types of material, adhesive and non-adhesive (laid, embossed, metallized paper, synthetic films, twin and booklet labels, reels and sheets), for any kind of end product. But what really distinguishes Orograf S.r.l. is that we can combine multiple printing systems on the same production line and therefore offer our customers unique and customized final products tailored to their specific needs.

FOOD Labels

Regardless of whether they are applied on packaging or directly on products and fresh foods, labels for foodstuffs must be produced respecting a series of precautions dictated by the particular products on which they are to be applied. Above all they must be produced in compliance with consumer health protection laws.

OROGRAF uses top-quality certified and guaranteed materials that meet these legal requirements and guarantee consumer protection. In addition to informing the consumer about the product, food labels can be used as warranty seals or open-and-close labels; they can also carry advertising, recipes, warnings, information about competitions, discounts, and so on.

As well as being customized with logos, colours and ingredients, food labels also need to carry traceability information, such as barcodes, progressive numbers, production and best before dates, batch codes and other variable data.



SECTORS

-  COSMETICS
-  FOOD
-  WINE AND SPIRITS
-  INDUSTRY
-  PHARMACEUTICALS

Orograf offers a wide range of plasticized materials, white and transparent, as well as standard finishes such as lamination and protective anti-UV coatings, hot foil printing and relief embossing.

Orograf offre una vasta gamma di materiali plastificati, sia bianchi che trasparenti, oltre a rifiniture standard come la laminazione e vernici UV protettive, stampe con lamina a caldo e goffrature a rilievo.

SLEEVES

A sleeve is a tubular label that shrinks when heated, perfectly fitting the product and giving it great visual appeal. Our sleeves (produced in PET, PVC or PLA) can be printed in multiple colours, including metallized ones.

An important characteristic is the option of providing every sleeve with a “tear off” system. This is essential for products that consumers need to be able to open easily after purchase; this system also allows the sleeve to be removed from the container for recycling, once the product has been consumed.

MULTIPAGE, TWIN LABEL and PEEL-OFF

Multipage, Twin and Peel-off labels are all great solutions

when the available space is limited and needs to be optimised.

Multipage labels, as their name suggests, have a number of pages and they come in different sizes and formats: they can take the form of folded leaflets; detachable or with a transparent resealable cover; or booklets (bound like a book).

Peel-off labels can have 2 layers (4 printable surfaces), 3/4/5 layers, or a booklet format; they can be printed in multiple colours, also internally, and there is the option of adding various other features, such as a tear-off system.

Twin labels are special self-adhesive “page-like” labels where a second layer (or page) can be applied on top of the first. This can be peeled back, read and repositioned.

Visit:

www.orograf.it



EWS METAL BELLOWS COUPLING FOR HIGH-SPEED APPLICATIONS REVISED

The specially for high-speed uses designed metal bellows coupling EWS has been revised and now offers a multitude of new advantages.

Thanks to its high balancing quality and the rotationally symmetrical design with a low moment of inertia, the new EWS can now be used at up to 57,000 rpm.

It is still available in 6 sizes, but now for an higher torque range of up to 700 Nm, with a bore diameter between 5 and 60 mm.

A specially designed conical clamping ring hub is used as a non-positive shaft-hub connection. At the

specified tightening torques, the conical ring is pulled against the cone hub in a 'block stop'. The initial gap size is thus reduced to zero, which prevents the conical ring from tilting or overloading.

The hubs and bellows of the new ENEMAC EWS coupling are joined in a special micro-plasma welding process, which makes the connection absolutely permanent and the transmission torque of each individual bellows layer is safely transferred to the hub.

The drive element offers optimal backlash-free use in the temperature range from 233 K to 473 K.

www.enemac.de



POLYRETWIN, THE PACKAGING REVOLUTION IN THE PHARMACEUTICAL AND FOOD INDUSTRY

Andolfi & C. meets the needs of the pharmaceutical and food market thanks to the benefits of the ecological, recyclable and resistant Polyretwin laminated film, to be used on automated packaging machines.

In this complicated moment, the pharmaceutical and food sectors are paying increasing attention to the population's safety, hygiene and health. For this reason, they are looking for safer packaging with no risk of bacterial contamination and that can guarantee the perfect integrity of the product. The packaging has to be extremely resistant to contact and perforation and, above all, it has to have a little environmental impact.



Andolfi & C. was founded in 1961 and was one of the first companies in the Marche region to begin the transformation of polyethylene with particular attention to environmental sustainability.

This care has laid the foundations of the position it currently occupies in the flexible packaging sector. Production flexibility and specialised workforce allow the company to meet the different needs of their customers globally.



POLYRETWIN

Andolfi has the answer to the demands of the pharmaceutical and food industries with 100% recyclable packaging films (as well as compostable and biodegradable films from renewable sources) offering cutting-edge technological solutions. Polyretwin is an eco-friendly recyclable laminated film that is much more resistant than polypaint with PP and PET, used on automatic packaging machines.

Polyretwin ensures better production performance in terms of sealability and packaging speed as well as a significant cost reduction of the film per linear metre. Moreover, the film can be completely neutral or customised with the company's graphics.

Andolfi's production line is equipped with modern co-extrusion systems with automatic control allowing the use of all materials in the converting sector with excellent results.

Polyretwin is the revolution in the pharmaceutical and food industry that can finally meet the demands of today's market thanks to its many advantages.

www.andolfi.it



SECTORS

 FOOD

 PHARMACEUTICAL

 COSMETIC

BEUMER DELIVERS TEN HIGH-CAPACITY PACKAGING SYSTEMS TO SPANISH OIL COMPANY

Spanish oil company relies on ten high-capacity packaging systems of the BEUMER stretch hood A series for petrochemical pellets

For decades, a Spanish oil company relied on the shrinking method to wrap in film the palletised PE bags filled with petrochemical pellets, but some of the systems were now up to 30 years old. They no longer met the currently required safety standards with regard to both operation and maintenance. Therefore, the company entrusted BEUMER Group with the installation of ten high-capacity packaging systems from the BEUMER stretch hood A series. Within six months, the system provider supplied them to each of the company's plant sites and integrated them into the already existing palletising and packaging lines. The machines meet the high safety requirements and are also energy efficient.

One of the major European players in the petrochemical business is situated in Spain and produces more than six million tons of chemicals per year. Two of its manufacturing facilities are located in Spain, one in Portugal. After production, the petrochemical pellets are filled in big bags, octabins or 25 kilogram PE bags and then delivered to customers.

These bags are palletised and wrapped in film to protect them against environmental impacts and dust. For this purpose, the plants have been using the shrinking method since the 1980s.

"The machines worked reliably, but had already been in operation for 20 to 30 years," describes the purchasing manager. "In the meantime, various problems arose that had nothing to do with the machines, but with the technology", because the heat required for the shrinking method is generated by these machines using gas or electric power. The open flame repeatedly caused small burns on the film. Thus the pellets often melted with the film. The continuous fire hazard implied higher insurance rates and



the aging systems had to be maintained frequently. This was expensive and, due to the gas pipes, dangerous for our service technicians. In addition, the energy consumption of the systems in operation was high, and it became more and more difficult to get spare parts on the market.

"We were searching for an economic and above all safe packaging system that could be maintained easily and efficiently", says the project manager of one of the Spanish plants. The shrink systems that had been in use until then had been supplied decades ago by BEUMER Group, among others.

Therefore this time, the responsible persons also turned to the single-source provider for packaging lines from Beum. "Our customer was looking for a manufacturer with high quality standard, many years of experience, high reliability and world-wide references", says Plácido Valle Santafosta, sales engineer at BEUMER Group in Barcelona. In the tender process, the system provider was awarded the contract to supply systems for one of the Spanish plants, and in August 2019 to supply further machines for the other plant - a total of ten packaging systems. Both companies quickly agreed on the scope and schedule and the project was ready to begin.

Stretch film - the economical alternative

Stretch hooding should now be used instead of the shrinking method. "This packaging solution does not require the use of heat; this prevents the film from sticking to the product during the process", explains the project manager.



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 AUTOMATION

 FOOD

The easy, intuitive and reliable operation of the new BEUMER stretch hood A is especially appealing to customers



er. In order to guarantee protection during transport and load stability, the stretch film adapts to any product that is stacked on the pallet. The film is very stretchable and its contracting forces keep the goods tight together. The development in film production is advancing steadily. Thus, more and more stable stretch films are available on the market, and since these films can also be produced in increasingly thinner layers, this in turn saves material. In the future, stretch films will be increasingly used for this purpose. For reasons of sustainability, these stretch films contain increasing amounts of recycled material and increasingly consist of bioplastics.

Stretch hooding has the ability to package the pallet for high-bay storage systems, with understretch or with different base reinforcements. Thanks to the high transparency of the stretch film, the packed goods are clearly visible. And the barcodes on the bags can be scanned quickly and consistently. Logos and text can also be printed on the film to be used as an advertising medium. A flat film placed on the pallet offers additional protection against external influences on all six sides of the stacked pellets. This ensures that the bags filled with pellets are protected reliably against environmental influences such as sunlight, dirt, and humidity during transshipment and outside storage. "This was very important to the responsible persons since they have to transport the goods safely and in perfect condition to the customers", says Valle Santafosta, sales engineer at



Plácido José Valle Santafosta, BEUMER Group: "Our customer was searching for a manufacturer with high quality standard, many years of experience, high reliability and world-wide references."

BEUMER. In addition, the stretch film keeps the bags tightly on the pallet, preventing them from slipping.

BEUMER stretch hood: the right machine

The BEUMER stretch hood A is very energy efficient: A film transport system, which is particularly gentle on the material, introduces the previously cut and sealed film hood into the system. On its way to the crimping and stretching unit, the sealing seam on the film hood cools down so that it can be crimped without losing time. This allows for the elimination of energy-consuming cooling and efficiency-reducing cooling times. This way the pallets can be packaged at a high bag sequencing.

In order to facilitate the work for the maintenance personnel and to ensure high system availability, the new packaging system was designed without a platform. Maintenance work, such as changing the blades or the sealing bars, is handled at the floor level. Additional benefits include the compact design and the resulting low height and small footprint. "We have equipped this line with the BEUMER Human Machine Interface, which makes it easy and simple to operate", says Valle Santafosta. "The operators are provided with an easily understandable and intuitive interaction concept, enabling them to define the same efficient working sequences for all machines." Displays help visualise how and where to make the necessary settings. The user can for example call up video sequences that show the changing of the film roll and the film knife. For other set-up work, the operator panel includes graphics and step-by-step instructions.

Rapid project phases

"In winter, we supplied the first two BEUMER stretch hood packaging systems to the Spanish plant, a few weeks later two additional ones", reports Valle Santafosta. Installation took place in autumn. BEUMER Group also delivered two packaging systems to the other Spanish plant in winter and two further ones in August. Some of the systems are equipped with roller conveyors for the pallet transport system.


When being asked what the largest challenge of this project was, Valle Santafosta reflects for a moment. "For one, the short delivery period of only six months. In addition, the period for commissioning is fixed and cannot be extended, otherwise operation would be stopped for too long." Furthermore, the machines have to be integrated in the existing packaging lines. This involves combining the latest safety standards of the BEUMER stretch hood with the safety levels of the existing systems. But we have a lot of experience in this," emphasizes Valle Santafosta. "We solve this with separate safety circuits."

www.beumer.com

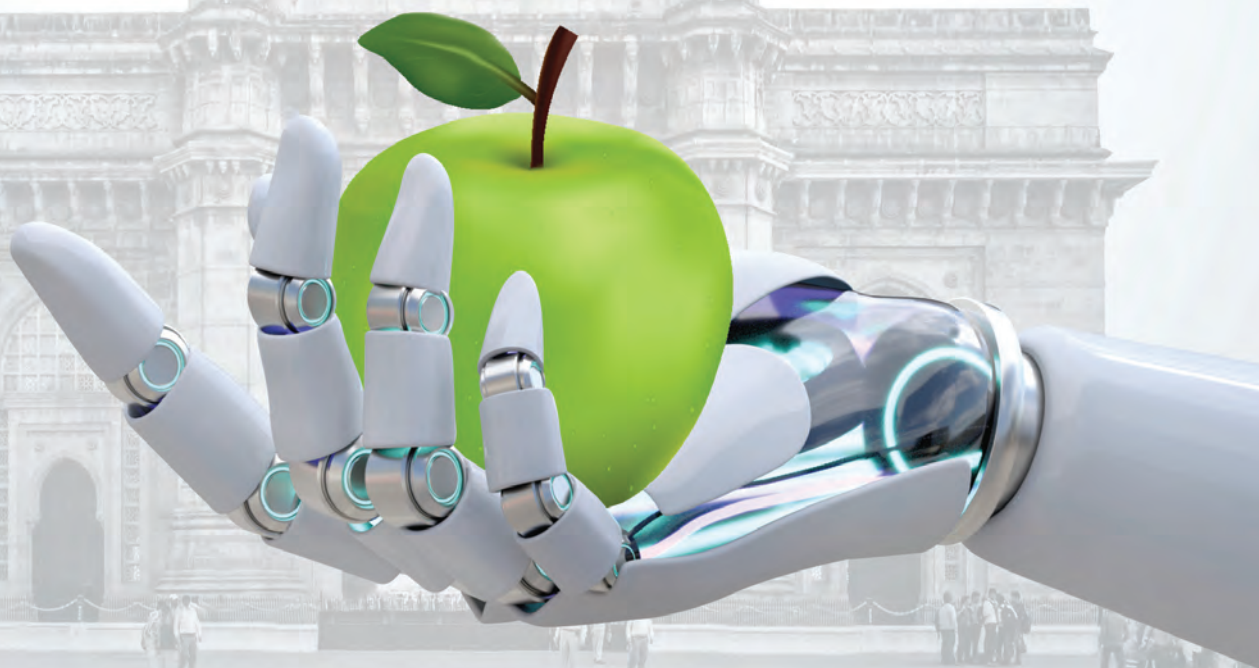
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ENIMAC ISN'T JUST ANOTHER SPECIAL-PURPOSE MACHINE DESIGN COMPANY

Enimac founded in 2013 and located in Italy just outside of Milan, designs, manufactures and sells standard tape application machines, custom tape application solutions, and tape applicators for integration into production lines or other machines that require an added tape application process. The company helps customers accurately apply tape where needed, increase productivity, save external costs, and free internal personnel from taping for more value-added activities.

It has clients in over 30 countries from the Americas to Europe and Asia and has distributors in several countries and also sells direct.


Its standard products apply tape to many products – envelopes, posters, pocket folders, FSDUs, wobblers, frames, cardboard sheets, PVC strips, aluminum sheets, etc. Enimac currently has three standard machine models for small, medium and large formats.

Key characteristics of their applicators include:

- All applicators are individually programmable.
- Fully electronic with no need for compressed air.
- Easily read and apply tape to white, colored, black, transparent and die-cut substrates of many materials including paper, cardboard, plastic, metal, glass, etc.
- Apply many different types of tape with the same applicator
- Can apply more than one strip of tape with the same applicator

In addition to the standard products Enimac has also delivered solutions with 2- & 3-axis



cartesian systems, pick & place technology, and is developing a Cobot solution. The company serves many industries including packaging, automotive, medical, and appliances among others. Being part of a tape converting group Enimac advises clients on tapes that are right for their application and its machines and also develops solutions that are perfectly adapted to a particular tape and/or substrate. Enimac is not just another special purpose machine design company. It has tape in its DNA. 

www.enimac.it/en





It has tape in its DNA



Enimac

Tape Application Made Easy



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✓ FOOD

✓ COSMETIC

✓ PHARMACEUTICAL



PACKAGING THAT REFLECTS LIFESTYLE

Packaging design has always been pivotal to the success of consumer goods. But the last few years have seen significant changes in the way packaging is used to convey brand messages.

Sappi, a leading provider of sustainable woodfibre-based packaging materials, is expanding production of its successful Fusion Topliner grade to its flagship mill in Gratkorn, Austria.

Packaging generally conveys the first impression of a product and gives the brand an identity. Consumers want to feel that the packaging caters to their lifestyle. The form this lifestyle takes can change rapidly and is no longer as static as it used to be. Climate awareness, health and wellness, sustainability, New Work, knowledge culture and connectivity are the current defining trends, says packaging designer Roman Klis. At FACHPACK, the founder of brand strategy and design agency Klis talked about the future of brands and design and altered consumer behaviours.

He believes there will be huge momentum due to the purchasing habits of Generation Z, i.e., people born between 1997 and 2012, because baby boomers and Generation X would also orient themselves to the behaviour of Gen Z. According to Klis, this is tantamount to a historic change that has not happened in the preceding generations. As a result, trends will become apparent on the market much faster, and manufacturers will need to respond to them quickly and agilely.

Generation Z is developing its own preferences, which are similar across the world. A brand design that is popular in the Middle East will therefore also appeal to European and American consumers. This is due above all to social media like Instagram, the effect of which is that affinities and lifestyles are becoming increasingly similar worldwide.

Lifestyle brands therefore need to speak a different language and align themselves to young consumers to reach older consumers as well. One example given by Klis is the launch of Teekanne Organic Teas. Previously, the company had lost market shares with the traditional design of its organic teas. Thanks to a new packaging design featuring matt, natural-looking surfaces and a “hippie look”, the new pack appeals to the taste of Ge-

neration YZ. However, baby boomers and Gen X are also important purchasers, accounting for over 50 percent. Klis describes these kinds of designs as non-verbal key visuals that convey the brand message immediately.

These key elements work equally well in the online and bricks-and-mortar retail environments. However, messages like sustainability, climate protection and health need to be credible and authentic. Conversely, insincere claims very quickly fall flat in social media and at a global level, says the packaging designer.

How the pandemic is changing lifestyle trends

The coronavirus pandemic has also had a global impact on people’s purchasing behaviours over the last few years. Global lifestyle trends like regional sourcing, sustainability, online retail and health-driven consumption have accelerated further as a result. B+P Consultants advise that companies must therefore adapt particularly the design aspects and functionalities of packaging to these new circumstances.

In the coronavirus era, consumers are generally purchasing more consciously with an increased focus on regional and sustainability.

The trend towards locally produced goods made with ingredients purchased locally can be observed worldwide, say the consultants. Less surprising is the increase in health awareness, a strong driver for purchasing decisions. This trend already existed but has intensified further, according to B+P.

With a view to online retail, a survey by global strategy and marketing consultants Simon-Kucher & Partners confirms that many consumers have switched to online shopping. And just under 30 percent of respondents indicated that they wanted to stick to these new ways of shopping after the pandemic as well. When it comes to online shopping, consumers especially appreciate aspects like the convenience (e.g., delivery to their home, less time invested) and the unlimited availability of products (e.g., wide product range at any time of day).



At the same time, a trend towards individualisation is also being observed. For manufacturers, this means that packaging and packing processes are becoming more complex, and even batch size 1 needs to be possible in automated processes. A pioneer in this area is MyMuesli, which was able to adapt to defining consumer trends at an early stage with aspects like health, wellness, online retail and individualisation.

The company offers highly customised product options tailored to a customer's own DNA or personal gut microbiome.

The fact that manufacturers can react quickly to lifestyle trends is largely due to the advances made in packaging technology and packaging printing. Without digital printing, innovative designs and customisations would not be possible.

Increasingly intelligent packaging machine control systems also provide the necessary flexibility to respond quickly to new trends. Exhibitors at the next FACHPACK (27 - 29 September 2022 in Nuremberg) will again present the latest developments as part of the main event theme "Transition in Packaging".

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SECTORS

PACKAGING





Pharma 4.0 with intelligent size changeover

SIKO presents solutions for optimized size changes

“Size changeover” is not necessarily a term that immediately makes people stop and pay attention in the pharmaceutical industry. However, considering the challenges in pharmaceutical manufacturing, which are characterized by cost and competitive pressure as well as strict regulations, intelligent size changeover means competitive advantages in terms of efficiency, product quality and process reliability. With automated, networked solutions, pharmaceutical companies can take a decisive step towards Pharma 4.0. In the pharmaceutical industry, the concept of centerlin-

ings must always be selected in order to prevent unnecessary deviations in the process and thus a reduction in product quality. The aim is to network manufacturing, technology, maintenance and electronic data acquisition in the best possible way in order to make optimum use of plant efficiency. In addition, the growing variety of products and ever smaller batch sizes in pharmaceutical manufacturing demand a high degree of flexibility from the systems. This is where size changeover comes into play, which can be a decisive factor when it comes to system availability. With optimized size changeover, reconfiguration times for product changes can be significantly reduced and process reliability increased. SIKO GmbH, manufacturer of sensors and positioning systems, has introduced various options for size changeover, from purely mechanical position indicators to fully automated positioning drives.

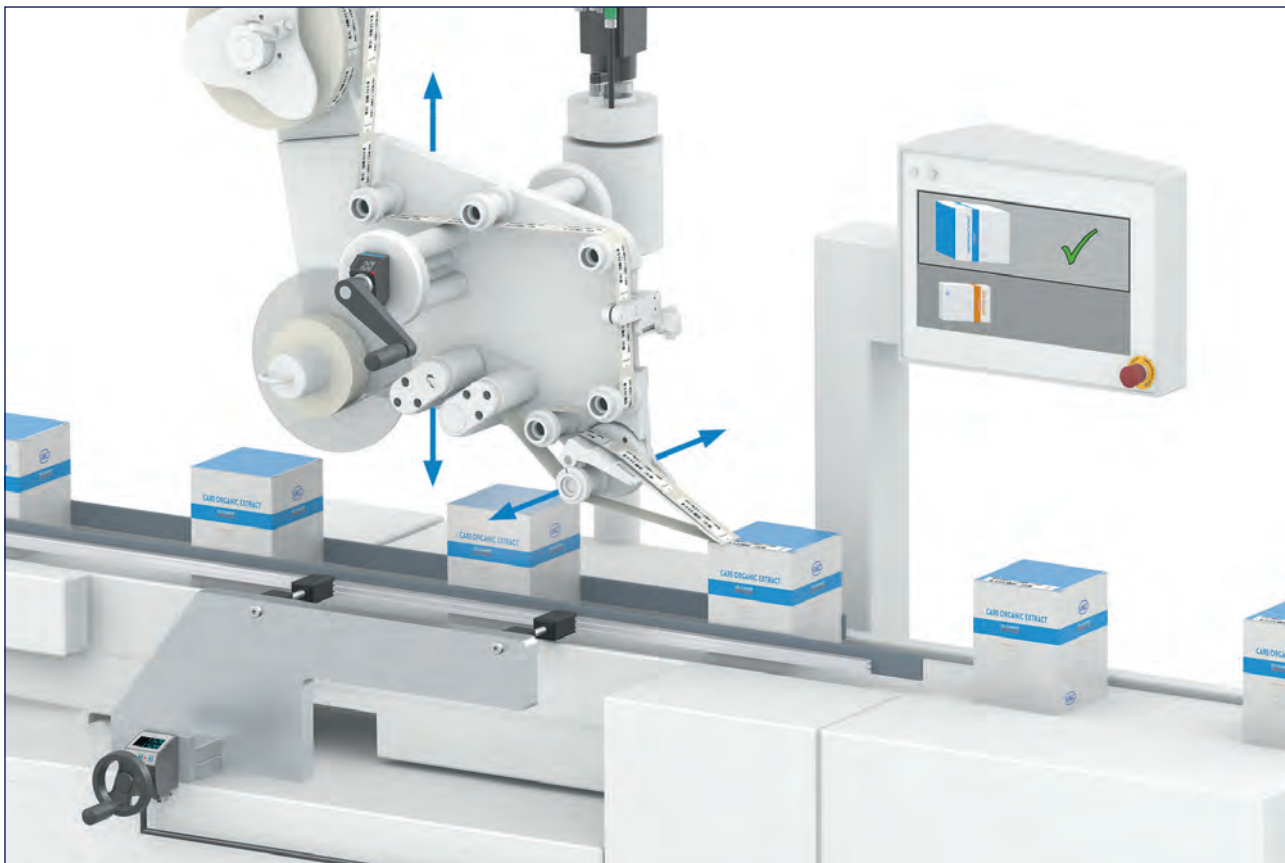


Figure 1: Size changeover using a labeling machine in pharmaceutical manufacturing



Benefits of optimized size changeover

In pharmaceutical manufacturing, size changeover takes place everywhere, especially in packaging processes, labeling and product inspections. Whenever the dimensions on the machine have to be changed for a new product, this involves size changeovers – whether manually via a crank or automatically via an actuator.

Always exercise caution when changing the machine settings, as errors can creep in and have a negative effect on the product result. Monitored or even automated size changeover minimizes the risk of incorrect settings and can make processes more flexible. The advantages of optimized size changeover are as follows:

- high repeatability, meaning that drugs are always manu-

factured using the same form and quality

- faster reconfiguration times and thus an increase in process speed
- an increase in efficiency and a reduction in costs
- an increase in process reliability, which is a decisive criterion in pharmaceutical manufacturing

A distinction is made between manual, monitored and automated size changeovers. Which type of format change is most suitable depends on the requirements: the more sizes need to be changed over and the more demanding manufacturing is from a quality perspective – which is usually the case in the pharmaceutical sector – the more sensible it is to use monitored or automated positioning systems.

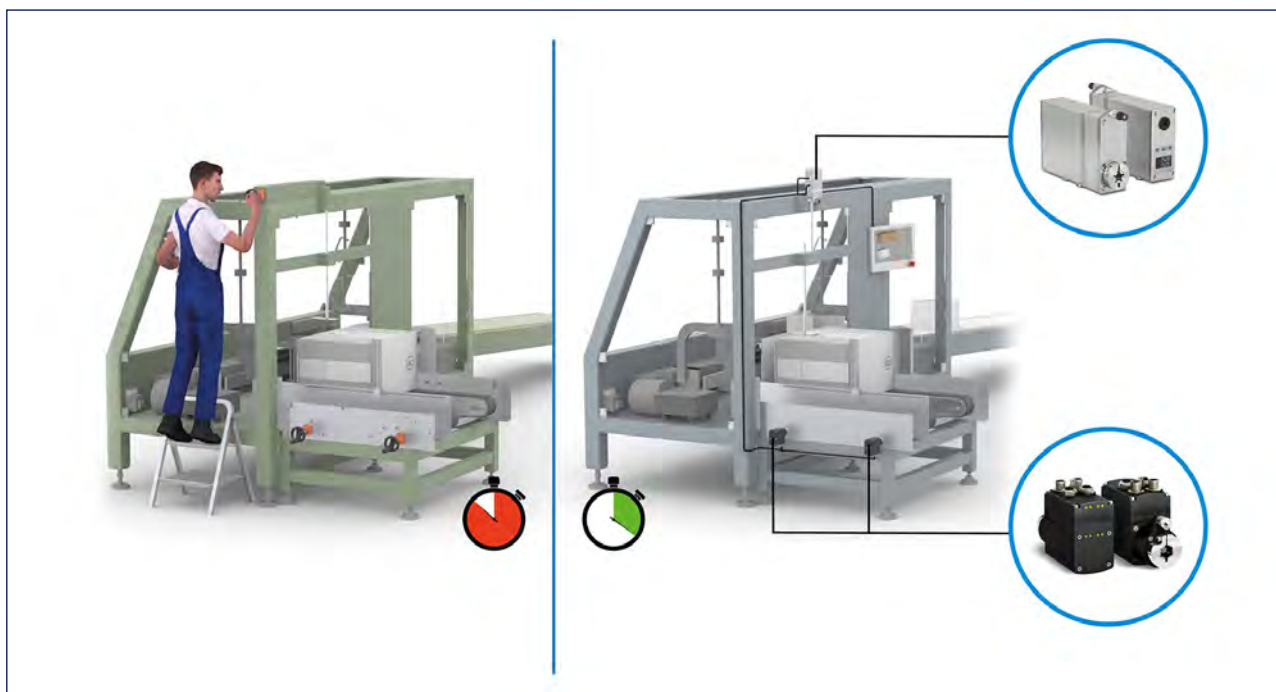


Figure 2: Time saving comparison, manual versus fully automated size changeover on a carton erector

Manual size changeover

For manual size changeover, both mechanical and electronic position indicators are used, which indicate the actual value of the current position. They are suitable for basic machines with rather infrequent adjustments. The common mechanical-digital SIKO position indicators are very precise, easy to read and are configured specifically for each application.

Electronic position indicators have an advantage over mechanical ones in that they are freely programmable and can therefore be used with greater flexibility. Parameters such as spindle pitch, decimal places, direction of rotation, mounting position or use in angle mode can be conveniently configured. Practical: Mechanical and electronic vari-

ants are compatible for installation, so that reconfiguration or expansion is not problematic.

Monitored size changeover

Monitored size changeover is made possible by bus-compatible electronic position indicators with setpoint value specifications, which are integrated into the machine control system. Actual and target values are exchanged and compared between the individual position indicators and the higher-level control unit with the aid of a formula management system in which all product variants are stored with their setpoint values as formulas. This enables increased process reliability, as the system is only restarted when all setpoint and actual values on the indicators



match. Rejects or damage to system parts are thus avoided. The changeover of the axes is still carried out manually with this variant, whereas the monitoring of the correct settings is carried out electronically. The special feature of the electronic position indicators are the LED lights which

clearly display the position status to the operator: Green lights for “position correct”, red lights signal “position not correct”. In addition, the display includes an integrated arrow direction indicator, which indicates in which direction the changeover has to be made.

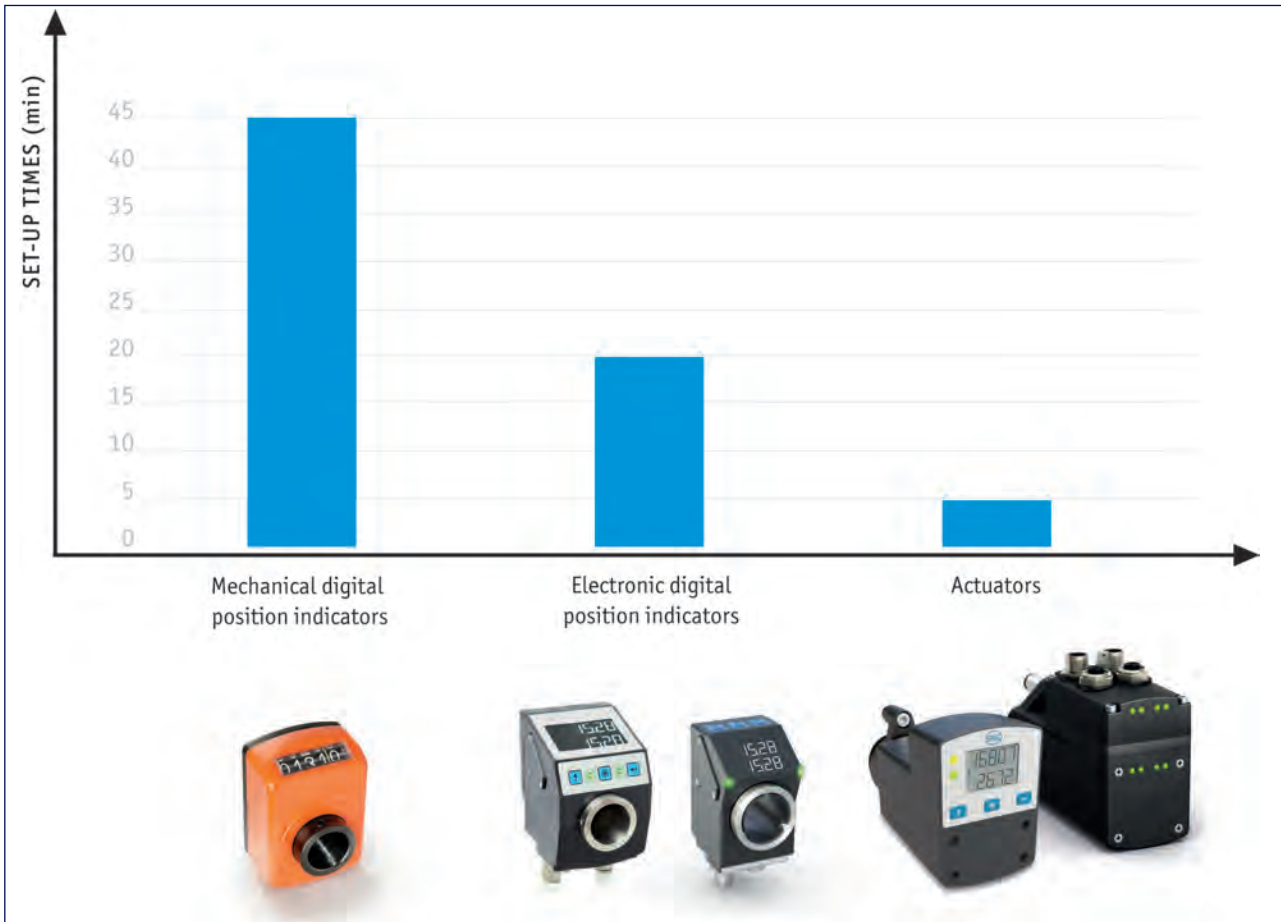


Figure 3: Comparison of optimization potential through intelligent positioning solutions

Manual size changeover

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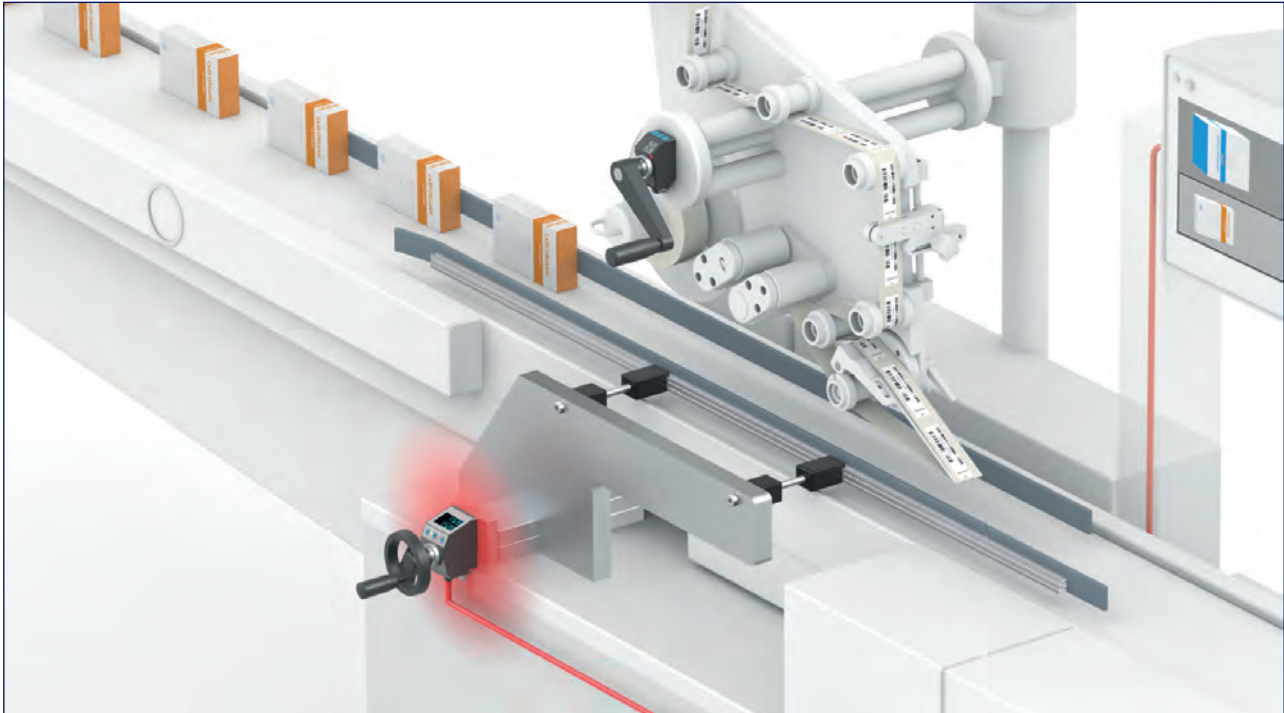


Figure 4: Size changeover using electronic position indicators in pharmaceutical manufacturing

Applications for monitored size changeover

Monitored size changeover can be helpful in pharmaceutical manufacturing, for example, in the case of systems for cartoning machines requiring frequent adjustment or in the case of product labeling. A relatively new development is “Track & Trace” systems, which requires prescription drugs to be provided with a clear, traceable label. This involves a wide variety of processes such as printing, reading, labeling and weighing, and thus numerous adjustments. The process reliability of these systems is significantly increased with monitored size changeover.

Automatic size changeover

If axes are changed over without any manual intervention, this is referred to as automatic size changeover via compact positioning drives. The actuator, which is networked with the machine control system, moves directly to the required position. With automation, a further significant reduction in reconfiguration times is achieved. In addition, automation is worthwhile if system parts that are difficult to access have to be adjusted frequently.

An actuator is characterized by its highly integrated design, which combines all components in one device: the brushless DC motor (which is wear-free), a low-backlash and powerful gearbox as well as position encoder and power and control electronics. The integration of the actuator into the machine controls as well as the communication with the controls is easily achievable, not least thanks to a large number of common standard interfaces. These include Siemens-compliant Profibus or Profinet interfaces, cost-effective serial interfaces such as RS485 and CAN, IO-Link and modern Industrial Ethernet interfaces.

Depending on the requirements of the application, different power classes of actuators are required: from small actuators with low power requirements for fine adjustment in a folding box magazine to feeding systems for large cardboard boxes where entire machine aggregates have to be moved with actuators with relatively high torques.

With this variant of size changeover, too, the controls only initiate a system restart when the process data exchange between the drive and the control has resulted in a match between the actual and setpoint values.



Figure 5: Size changeover using SIKO position indicators on a Track & Trace system in pharmaceutical manufacturing

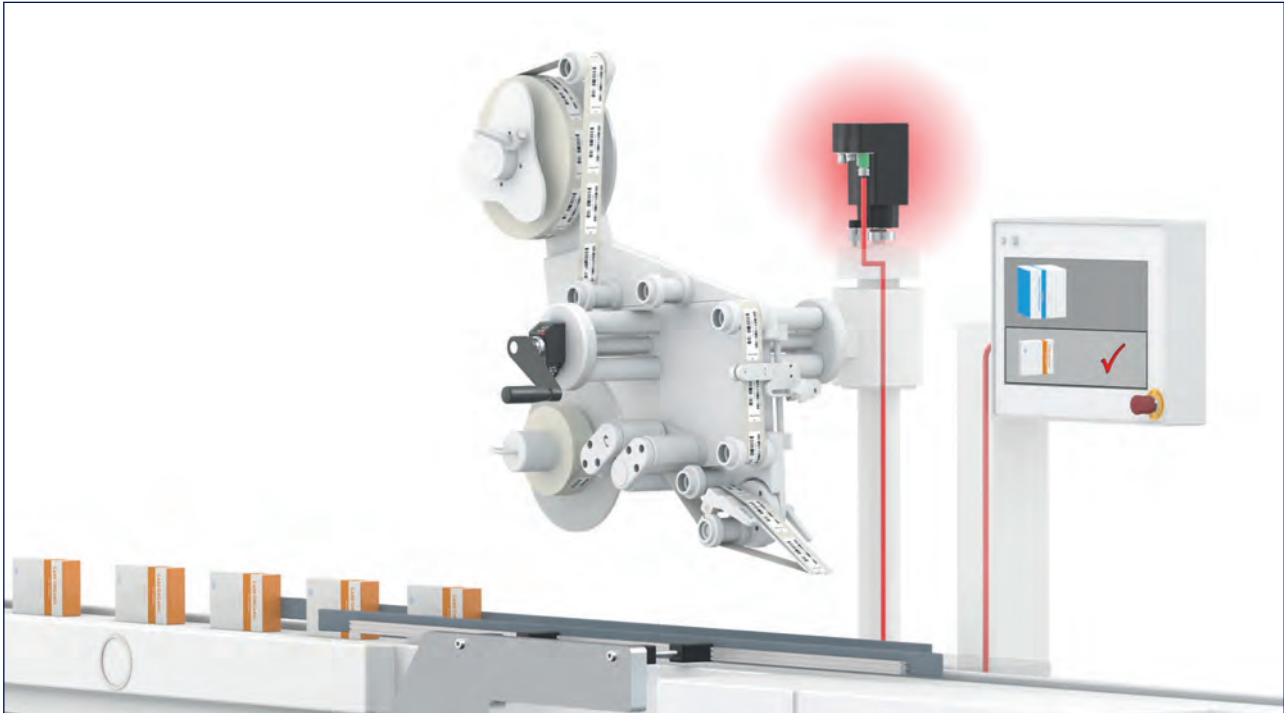


Figure 6: Automated product changeover using a SIKO actuator on a labeling machine for drug boxes

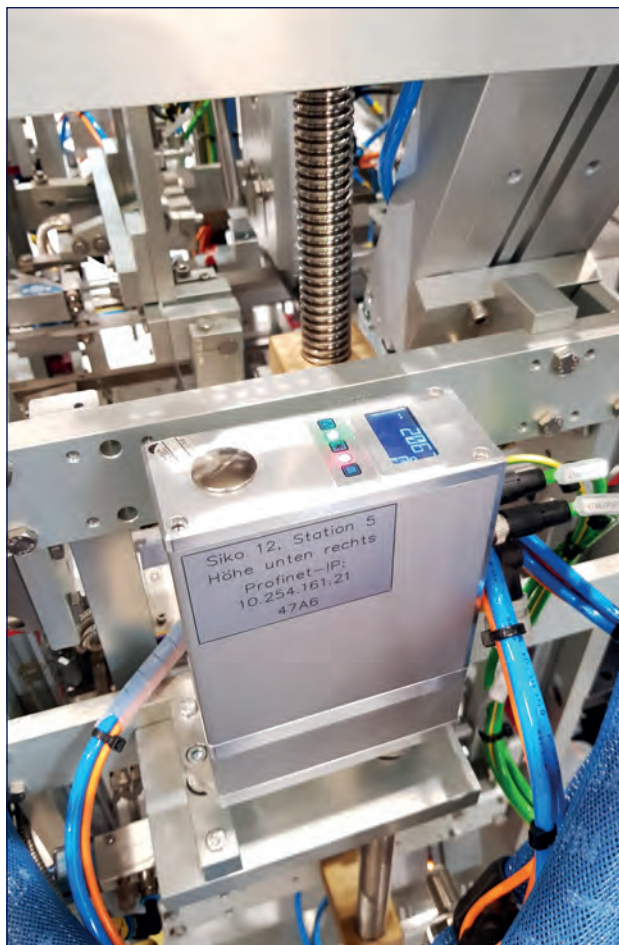


Figure 7: Automated machine reconfiguration with SIKO actuator

Predictive Maintenance

Another functionality of the compact actuator makes it possible to draw conclusions about the operating status of both the actuator itself and the system itself: the diagnostic capability. By collecting and monitoring various parameters of the drive, such as current consumption in the motor, temperature or voltage values at the control and load circuit, irregularities and thus the need for maintenance can be detected at an early stage. If specified values are exceeded, measures can be taken immediately.

Conclusion: More automation, more data

In pharmaceutical manufacturing, smart size changeover involves several dimensions: there are the directly measurable effects such as reduction of set-up times, increased plant availability, increased efficiency and increased process reliability. In addition, intelligent solutions help to carry out such secondary processes within manufacturing as unobtrusively as possible. If possible, you should not have to worry about size changeover; if it works well and reliably, you can turn your attention to key demanding activities such as line clearance or extensive documentation. Peripheral components such as position indicators and servomotors are becoming increasingly important as a result of increasing automation and digitalization. This is demonstrated by recent developments such as “Track & Trace” systems. Additional benefits such as data collection, self-diagnosis and service life monitoring of the components make smart size changeover a crucial element of Pharma 4.0.

ATP ENGINEERING & PACKAGING IS THE NEW IMA ILAPAK AND IMA RECORD SALES AND SERVICE AGENT IN SPAIN

We are pleased to announce that ATP Engineering & Packaging, S.L is the new sales and service agent and OEM integrator for IMA Ilapak and IMA Record in Spain.

IMA Ilapak and IMA Record are the leading manufacturers of flow wrap machines and vertical baggers. For almost 50 years, with their wide range of flexible packaging solutions, they have satisfied every form, fill and seal packaging applications of the food, pharma, medical devices, and wet wipes industries.

The common vision between IMA Ilapak, IMA Record and ATP, paved the way to forge this partnership aimed to ensure the best sales and service approach to the Spanish market.

Starting from December 2021, ATP will become the official Spanish sales representative for IMA FLX's HFFS flow wrappers, VFFS baggers and weighing & counting systems. In addition, the ATP technical team, which gained in recent past an extensive knowledge of IMA Ilapak and IMA Record solutions, will be on hand in the field to

ensure a timely and first-rate assistance.

“ATP is the right partner to achieve our goals in Spain. Thanks to this cooperation, we can fully meet the expectations of our customers in terms of local sales & service” says Luca Bordin, Managing Director of Ilapak International SA.

“The partnership with ATP organization will allow us to offer a strength support to the local market for our existing applications and generate new opportunities in the Iberian territory” Ivo Galimberti, Sales & Marketing Director of Record S.p.A.

“We are delighted to be partnering with IMA Ilapak and IMA Record as it marks another milestone in our drive to bring the latest packaging technologies to our customers in Spain.”, says Nereo Urbano, CEO of ATP Engineering & Packaging. “This partnership will help ATP to reinforce our market position in the packaging industry further, as well as accelerate our growth strategy over the next years”, adds Laura Jordan, General Manager of ATP Engineering & Packaging.



New sales & service agent and OEM integrator

ATP Engineering & Packaging is the new IMA Ilapak and IMA Record sales and service agent in the Spanish market



IMA ILAPAK AND IMA RECORD, PART OF THE IMA FLX HUB, ANNOUNCE TECHNOLOGY PARTNERSHIP WITH ATP ENGINEERING & PACKAGING



New partnership announcement

ATP Engineering & Packaging announces a technological partnership with IMA Ilapak and IMA Record



Ilapak International SA, based in Grancia-Lugano and the Italian manufacturer Record Spa, world leaders in the design and production of HFFS flow wrapping machines, today announced their international technology partnership with ATP Engineering & Packaging, S.L, a leading company in the field of packaging engineering and robotics. ATP Engineering & Packaging, with more than 25 years of experience in the packaging industry, is today one of the foremost companies in the production of automated systems with artificial vision guided high speed robots. Located in one of the most important industrial areas of Catalonia, the Vallès Occidental, ATP has a 4000 m² facility which includes offices and a large production area. Improving the competitiveness of customers is the main goal of ATP, IMA Ilapak and IMA Record. This common vision combined with the successful collaboration of these three companies over the years, led to a technology partnership with aim of fully integrating flow wrapping packaging platforms and robotic systems. This cooperation allows to offer complete packaging solu-

tions to increasingly meet the specific needs of customers while dealing with only one supplier.

“The combined expertise in robotics and flexible packaging solutions from ATP and IMA ILAPAK will allow our customers to break existing boundaries in terms of performance and flexibility through new automated and integrated reliable solutions” says Luca Bordin, Managing Director of Ilapak International SA.

“The result of the close partnership between ATP and IMA Record will be the strengthening of our presence on the territory for stand-alone packaging solutions as well as for integrated automatic packaging lines” Ivo Galimberti, Sales & Marketing Director of Record S.p.A.

“With their industry-leading packaging machinery and deep expertise, IMA Ilapak and IMA Record are the perfect technology partners for us, as we all support our customers to adapt their packaging manufacturing needs’ to Industry 4.0 and thus boost their competitiveness in the market”, remarks Nereo Urbano, CEO of ATP Engineering & Packaging.



FreshSAFE packaging concept for equilibrium atmosphere packs

EXTENDED SHELF LIFE FOR DELICATE NATURAL PRODUCTS

Fruit and vegetables continue to live after harvesting. If the product is to re-main fresh and appetising in the pack up to the point of consumption, the metabolic processes must be controlled by an innovative method. Thanks to the FreshSAFE packaging system from MULTIVAC, there is a method of producing equilibrium atmosphere (EMAP) packs, which optimises the oxygen content in the packs in a continuous, natural and sustainable way. Les Maraîchers d'Armor, a cooperative in the French region of Brittany, uses the technology to pack its white beans, the so-called "Cocos de Paimpol", in trays under modified atmosphere, enabling the shelf life and quality of the product to be preserved for as long as possible.

Les Maraîchers d'Armor is a cooperative situated in the heart of the vegetable growing area of Les Côtes d'Armor. More than 420 gardeners, operating in the north west cor-

ner of Brittany, cultivate over 80 types of vegetables as well as strawberries and other fruits, and the annual production quantity is around 175,000 tons. In conjunction with two other cooperatives in Brittany, the products are marketed under the well-known label of "Prince de Bretagne".

Cocos de Paimpol – well-loved and very delicate

Around 200 producers concentrate on the cultivation and propagation of white beans, which are marketed under the name of "Cocos de Paimpol". These yellow and violet-flecked pulses with their egg-shaped seeds and delicately melting "bite" find their ideal growing conditions in the area between Paimpol and Tréguier. In 1998 the "Cocos de Paimpol" was the first fresh vegetable and the first Breton product to receive a special designation of origin, and several years later this became a protected product name.





“In order to be able to satisfy the demand from consumers for a ready to cook, “all-in-one” product, the idea was conceived in 2020 of packaging the Paimpol beans under modified atmosphere,” explains Florian Josselin, who is responsible for new product innovations at the cooperative. “The challenge was to find a reliable packaging concept for a semi-dry product, which alters extremely rapidly after harvesting.”

The solution: FreshSAFE. This process involves pre-perforated films, or films perforated mechanically on the MULTIVAC packaging machine itself, which ensure that a controlled oxygen permeability is achieved, and this can be matched exactly to the specific respiration characteristics of the particular fresh product.

The objective is always to maintain the most beneficial concentration of oxygen and carbon dioxide for the particular product. This equilibrium atmosphere (EMAP) is achieved through the interaction between the respiration of the product and the required permeability of the film. The FreshSAFE packaging system can be produced on thermoforming packaging machines and traysealers as well as chamber machines.

T 600 traysealer with FreshSAFE microperforation system

At Les Maraîchers d'Armor the T 600 is used, the smallest fully automatic MULTIVAC traysealer that can be integrated into a line. This versatile and scalable model is suitable for packing small and medium-sized batches very flexibly, and it is particularly easy to operate thanks to its IPCO6 machine control with touchscreen. The T 600 is equipped with the MULTIVAC FreshSAFE microperforation system, which automatically perforates the upper web during the packaging process. Thanks to the cost-effective needle perforation system, all current upper webs can be perforated to the individual permeability that is required.

In order to meet the requirements of Les Maraîchers d'Armor, the packaging line also included a TDS 300 denester from TVI, as well as a MDC drag chain in-feed system and direct web printer from MULTIVAC. The packs themselves consist of a board tray and a transparent upper web, so that the consumer can see the freshness of the product at a glance.

Significantly extended shelf life thanks to FreshSAFE

Due to the FreshSAFE microperforation system, the product retains all its sensory characteristics in the pack. It remains appetising as well as fresh, and its shelf life is significantly longer than products packed in other types of packaging. This means that there is considerably more leeway in the supply chain, and this gives processors like Les Maraîchers d'Armor a better opportunity to market their high-quality but delicate natural products.

More information on packaging fruit and vegetables can be found at:

<https://de.multivac.com/de/fresh-produce/>

MULTIVAC

SECTORS

PACKAGING



The best pet food solution requires the right expertise

The Pet Food industry is experiencing a robust growth, due, in part, to a pet adoption increase. The owners are also spending more, on average, on the keeping of their pets. The average cost of Pet Food products has experienced a compound annual growth rate (CAGR) of 3.3% in the last 10 years and is projected to grow by 4.1% in the next five years (2022-2026). Volpak has the right expertise to effectively overcome the challenges of the sector, offering a wide portfolio of solutions, both for pre-made pouch packaging and form fill seal machines.

The Pet Food growth: Higher value products, higher profits for producers

In 2020 pet population growth in developed markets, and saw a major pivot in ownership to higher income house-





holds. The trend has continued in 2021, with the consolidation of the working habits of the families that decided to adopt and care for one or more pets. All of this, according to data shared by Euromonitor, has led to a 9% increase in Pet Products and, more specifically, an 8% increase in Pet Food, especially of premium products (9% increase), followed by mid-market and low-cost products. Branded products have also seen a higher increase in their market share when compared with private label products. The spread of Pet Food products has been especially significant in high-income regions, such as US, Europe, and Japan.

Pet food in pouches: practical and popular

This type of flexible packaging offers several advantages, such as convenience, a large capacity in relation to the size of packaging and, if produced with the correct materials, a long shelf life. For this reason, it is the ideal choice for the packaging of dry products (kibble or treats), as well as semi-moist products (meat-based food), or liquids (soups). Pouch packaging is usually made by FFS (Form Fill Seal) machines, such as the ones designed by Volpak, which boasts more than 40 years of experience in this field. FFS machines span all the stages, from forming to filling to hermetic sealing. These processes are critical: in the case of pet food, machines must dose the product with precision and handle it correctly during package forming and sealing, while meeting strict hygiene standards.

The right expertise to meet Pet Food Industry needs

In the case of liquid Pet Food packaging (typically meat with sauces), it's essential to be able to count on machines capable of guaranteeing the highest precision in the pouch forming and sealing stages, in addition to a careful handling of the packaging. These are mainly low-capacity pouches, usually around 200 ml, typically used for mid to high end packaging and products, sold predominately in developed markets.

The best solution, for both dry and liquid products

On the other hand, dry products, such as kibble, require machines that can work at high speeds and with large formats, half a kilo and above. These products are mainly aimed at the US market as well. The specific solutions designed for "form fill seal" packaging also allow a more efficient offsetting of the initial investment, ensuring the same

quality and characteristics of pre-formed packages - mostly used in Us & Asian markets - in terms of shelf-life. The reels of packaging material are less expensive than pre-formed pouches and allow to save material, which benefits the environment as well.

Sustainability without sacrificing quality

Sustainability is, in fact, another important issue, especially in high-income regions such as the United States, Europe and Japan. When it comes to this issue, Volpak's machines can offer a competitive advantage since they can employ environmentally friendly mono-materials for the packaging stage. Pouches are also a convenient type of packaging in terms of layout, since there is no empty, unused space inside them. This also reduces transportation costs.

Uncompromising quality

All of this is possible without sacrificing quality: pouches made with Volpak's machines typically feature a double sealing system, the first one ensures an effective hermetic sealing and is produced by an ultrasound system, but this is not all. To be more aesthetically appealing, Volpak's packaging also include a second sealing system, which is produced by a heat-sealing tool and serves mainly an aesthetic function.

The strength of a big industrial group at your service

Being part of the Coesia group enriches the company's know-how, as the Group brings further expertise also thanks to partnerships among its member companies. This environment allows Volpak to work in a predictive manner.

Cutting-edge research

For example, when designing a pouch packaging line dedicated to pet food, the company can carry out specific tests before the final installation by simulating production conditions, and putting pouches into the same stress conditions that they may undergo during the actual process. These tests are carried out at the "Pouch Lab", a research and development center at Volpak's headquarters. Here the company tests the mechanical resistance and behavior of pouches by using different materials and simulating different environmental conditions.

***data provided by Euromonitor**



PRE-MADE POUCH FILL & SEAL MACHINES FOR PACKAGING FOOD AND NON-FOOD PRODUCTS

DolcePack is a young and dynamic Swiss company specialized in supplying innovative machinery for packaging food and non-food products. The DolcePack team has decades of experience in product weighing and packing providing state of the art machinery with focus on quality, efficiency and sustainability.

DolcePack designs and manufactures pre-made pouch fill & seal machines.

The company's technology combines all key elements for modern machines, designed with flexibility for the quick changing markets requiring short runs for multiples SKU's.





The R-EVO 800-S Pre-made Pouch Fill & Seal machines are simple for operator use with full-frontal station visibility and automatic change overs.

These benefits allow for wide possibilities in pouch variation all within a small footprint. R-EVO is designed for packing products like solids, liquids, and powders in multiple pre-made pouch types and sizes.

The benefit of pre-made pouches allows reduced waste compared to rigid containers, glass or aluminium.

The required volume/weight are less which correlates to less material waste and reduced carbon emissions from transporting more product in less space. This alone can give anywhere from 80-90% less carbon emissions, from production to transport combined.

DolcePack proudly has capability to work with both mono-material and paper pouches.

The mission to create machinery as modular units to add and combine based on specific production needs will make the production layout much simpler and straight forward.

With the vision versus sustainability, DolcePack works with Mespac Spain as exclusive Italian agents. As Mespac has developed their program versus sustainability in increased production efficiency and reducing material requirements, DolcePack is working towards goals of reducing energy required to run our machines and becoming full electric.

Machinery is just one key to the puzzle of optimizing packaging your product, DolcePack is also experienced in package analysis and consumer usage analysis.

Allowing to connect the dots and maximize the consumer experience. With this, we can scout the materials and machinery needed to package properly the products presented to us.

The atmosphere at DolcePack is to accept projects and challenges with open arms to learn, grow and satisfy each customer with their project goals.

For more information contact DolcePack at:
idea@dolcepack.com
Ph. +41919434445

SECTORS

 **FOOD**

 **NON-FOOD**

DUETTI PACKAGING INNOVATION FIRST AND FOREMOST

Duetti packaging was founded in 2008 in Galliera Veneta (PD) Italy, immediately moving towards the design and construction of end-of-line packaging systems.

The years following its foundation are characterized by a gradual affirmation of the company throughout the Italian and foreign territory, through the creation of a young and professional sales network.

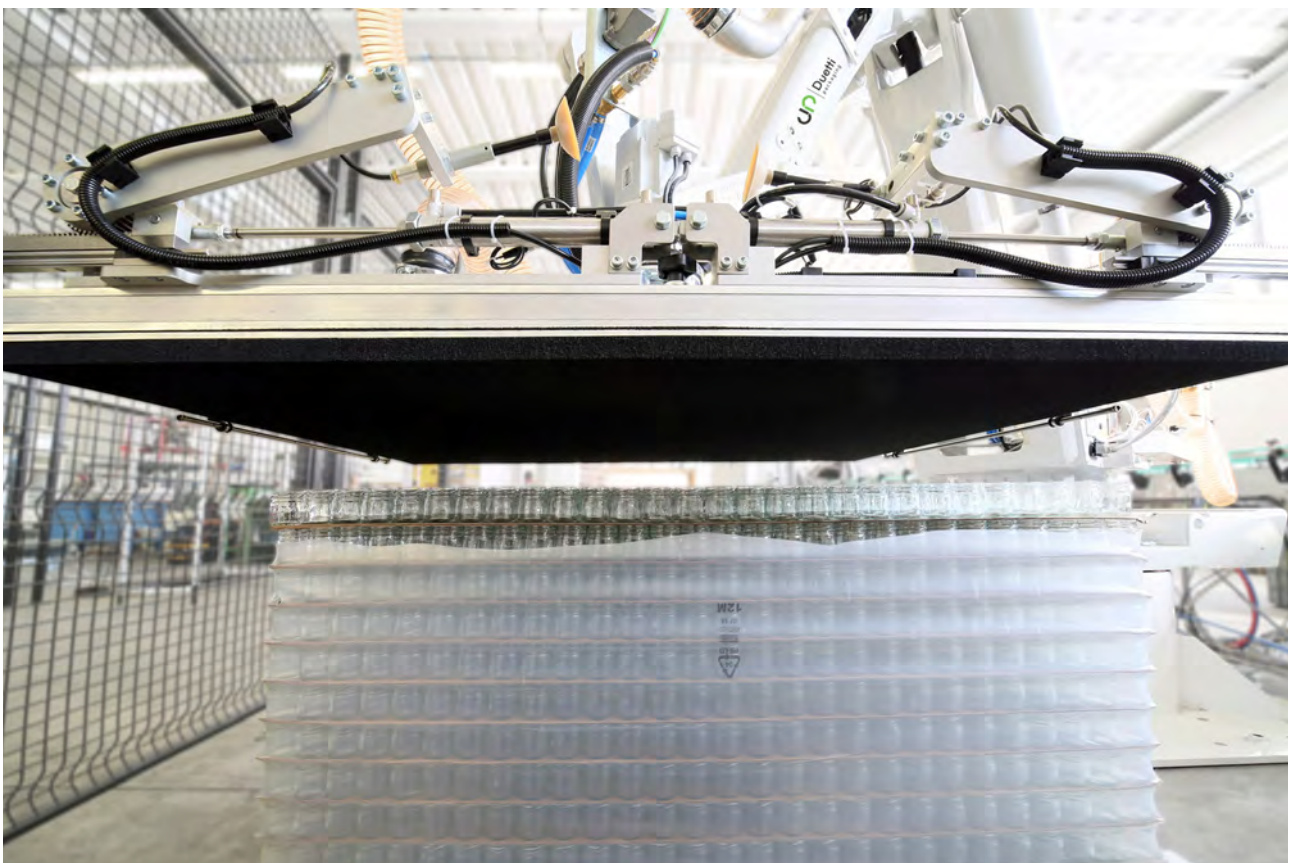
Our production range includes depalletizers, form and close cartons units with adhesive tape / hot melt glue, vertical / horizontal carton packers, pick & place, wrap-around, traditional / robotized / Cartesian palletizers, handling and supervision systems.

Duetti designs projects by studying the best solution in terms of flexibility, productivity, and footprint. The attention given at every stage of production, together with an efficient after-sales service, ensures successful installations all over the world.

Duetti Packaging has many years of experience, above all in the beverage, canning and glass industries, especially meat and fish sauces, pickled vegetables, fruit juices, soft drinks, water, etc.

Special attention is given to technological development in every department, from electronics to electromechanics, from mechanics to programming, allowing Duetti Packaging to present itself with innovative solutions in the field of secondary packaging automation.

Advice, collaboration, and trust are the corner stones on which the company's success has been built with our machines designed and built to achieve performance, be functional and reliable over time. The structure of the machines allows easy cleaning and maintenance by the operator guaranteeing the quality. Duetti's commitment to research and development allows it to offer the market increasingly advanced solutions, not only from the technical point of view but also in terms of service quality, optimization of the produc-



Robotic layer depalletisation of jars



Wrap-around of honey jars



Multiple wrapping of cans containing milk powder

tion process combined with simplicity of use and maintenance.

The process of growth and transformation, albeit very rapid, has always been accompanied by careful and intelligent production and marketing planning, which has allowed Duetti to establish itself as one of the most dynamic and innovative companies on the market, an essential condition for becoming one of the most recognized partners.

To guarantee the quality of production and services, Duetti Packaging with Industry 4.0 standard and is ISO 9001 certified.

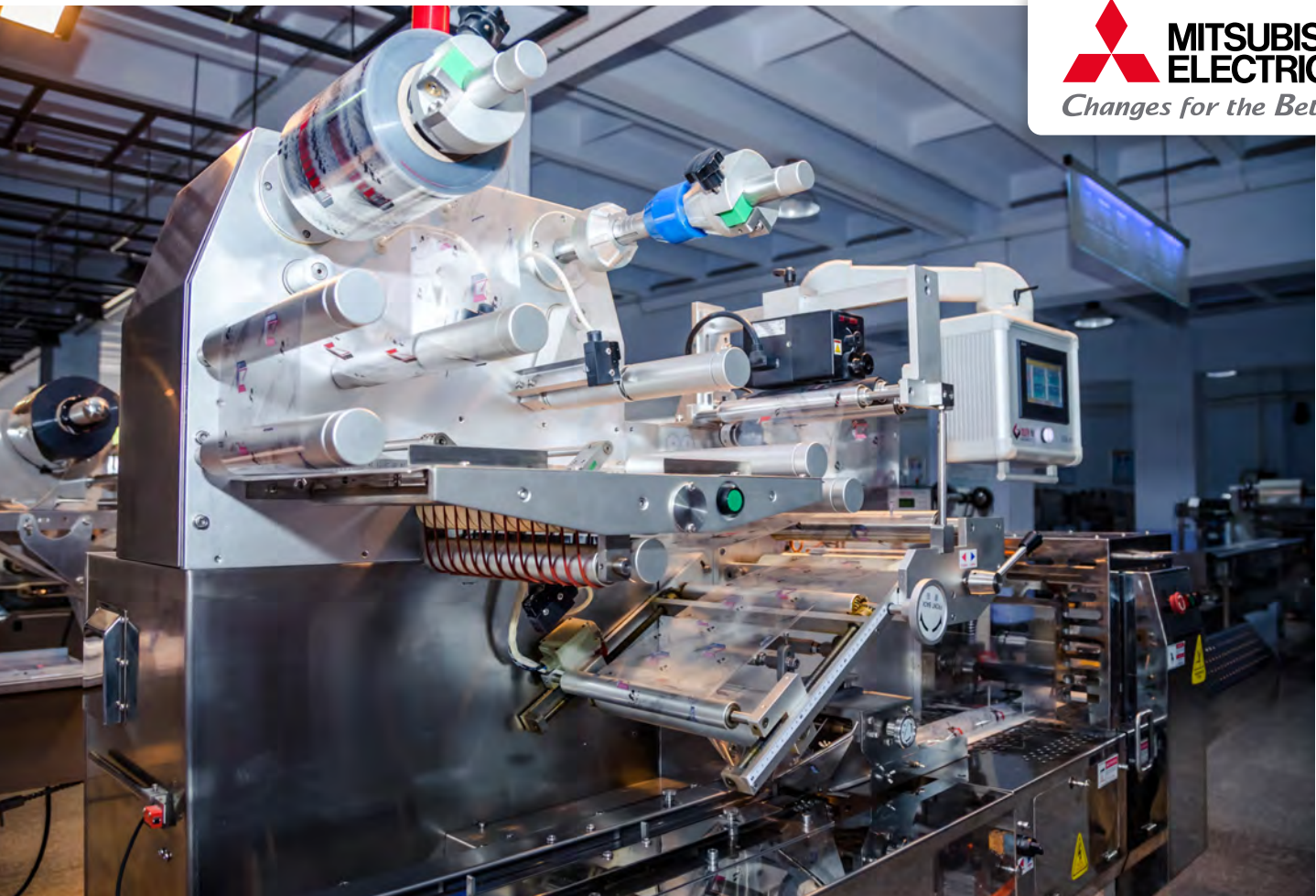
www.duettipackaging.com

CREATING INTELLIGENT PACKAGING SOLUTIONS FOR A GLOBAL MARKET

Located in the beautiful coastal city of Qingdao, Golden Packaging (Golden Pak) has many years of rich service experience in the ice cream industry, as well as providing all kinds of packaging equipment for many leading enterprises in the cold beverage industry such as Meiji, Wall's, Nestle, Yili, Mengniu, Bright Dairy, Hongbaolai, and Baxi. Golden Pak's equipment is also exported to more than 60 countries and regions including the United States, Germany, Japan and Russia. With the support of Mitsubishi Electric and Qingdao Keling, they not only develop and upgrade special equipment for horizontal feeding, organizing, packaging, sorting and palletizing for many industries such as food and medicine industries, but also create a comprehensive solution for the packaging process by using the

e-F@ctory framework.

In the years following 2000, the packaging industry in China developed very rapidly: on the one hand, packaging equipment could help customers reduce labor costs and improve the level of hygiene with the popularization of automation technology; on the other hand, a group of large enterprises emerged due to strong market demand. The traditional mode of small workshops could not adapt to large-scale production and standardized operation, and there was an urgent need for automation equipment with higher production efficiency. Golden Pak closely followed the development pace of their customers. With their stable product quality and timely responses, they had caught up with the



 **MITSUBISHI
ELECTRIC**
Changes for the Better

Golden Pak's packaging equipment is exported to more than 60 countries and regions including the United States, Germany, Japan and Russia. [Source: Mitsubishi Electric Corporation, Japan]



With the support of Mitsubishi Electric and Qingdao Keling, Golden Pak developed and upgraded special equipment for horizontal feeding, organizing, packaging, sorting and palletizing for many industries such as food and medicine.[Source: Mitsubishi Electric Corporation, Japan]

“fast track” of the packaging industry and quickly opened up new opportunities in food and CPG industries. After that, with technical support from Mitsubishi Electric and Qingdao Keling, they focused on the development of non-standard, customized products to provide more value and services to meet the demand from their customers in the cold beverage and pharmaceutical industries.

In such a highly competitive market, Golden Pak has always maintained their excellent product quality, reasonable prices, stylish design and comprehensive services that already won them the trust and praise of their customers as they have steadily moved forward in both foreign and domestic markets! Nowadays, the export ratio of their products is higher than 50%, mainly to developed countries as far afield as Germany, the United States, the United Kingdom, France, Canada, Australia, Poland, the Czech Republic, Japan, and South Korea as well as sales throughout Asia, Africa and South America. To support this Golden Pak has opened

a joint venture manufacturing plant in Indonesia to manufacture, sell and provide services locally, stepping towards a global production capability. Often the level of customers represents the strength of a company and this is especially true for Golden Pak: at present, they are working with top companies in the domestic and international food and phar-

SECTORS

 **PACKAGING**



maceutical industries such as Unilever, Nestle, Wall's, Yili Group, Mengniu Group, Wandashan, but also not to miss mentioning New Hope, Charoen Pokphan, Hsu Fu Chi, Want Want, Baiyunshan, Nice, Sanjin Pharmaceutical Company Limited, and COFCO.

Jin Weijian, General Manager of Qingdao Golden Packaging Machinery Co.Ltd. said, "About 5% of Chinese private enterprises survive only for 10 years, and the average life span of small and medium-sized enterprises in the United States is less than 7 years, which indicates that it is not easy for



There are a lot of products/brands that are familiar to Chinese people.
[Source: Mitsubishi Electric Corporation, Japan]

private enterprises to do a good job. Golden Pak has been there for eighteen years. Many employees have been with the company through thick and thin. Yet the company has always been energetic, as we take ‘creating value for customers’ as our business tenet, which is consistent with Mitsubishi Electric’s values.”

From packaging equipment and integration with the customer’s production systems, to providing back-end packaging engineering and comprehensive services, Golden Pak helps customers increase production, reduce costs, ensure sanitary conditions, and realize value creation and enhancement. “We want to have a place in China’s packaging machinery industry and make Golden Pak an influential brand in the industry.” Jin Weijian is confident about their corporate goals. The improvement of technical capabilities is not limited to successfully completing the production task of a certain process, but also to optimize the structural design and improve the compatibility of the system. In the words of Jin Weijian, “Achieve optimal quality and price”.

After the new development ideas were determined, Golden Pak fully adopted Mitsubishi Electric products. This seemingly ‘expensive’ strategy was the most ‘beneficial’. In recent years, the competition in packaging industry has been particularly fierce. Packaging equipment components have become more and more expensive, but the prices of whole machines are declining.

“Mitsubishi Electric’s products are stable in quality but with high prices, and end users want to buy inexpensive equipment. As a packaging equipment manufacturer, it is extremely hard to balance this contradiction, while obtaining reasonable profits, and ensuring the quality of the equipment. Fortunately, Mitsubishi Electric and Keling help us control costs through reasonable configuration and solve problems using their technology, so we have a strong base for competing,” Jin Weijian explained.

The technical support from Keling and Mitsubishi Electric was an important foundation for Golden Pak’s transformation and a critical factor in helping users to upgrade their processes. “Golden Pak design the machines, while Mitsubishi Electric and Keling provide electrical and system design support. This collaboration enhances the co-operation between

both the electrical and mechanical areas, with a future focus to add sorting equipment and box filling machines thus providing solutions for the entire back-end packaging.” In this way, Golden Pak has transformed from a single equipment supplier to a packaging engineering provider.

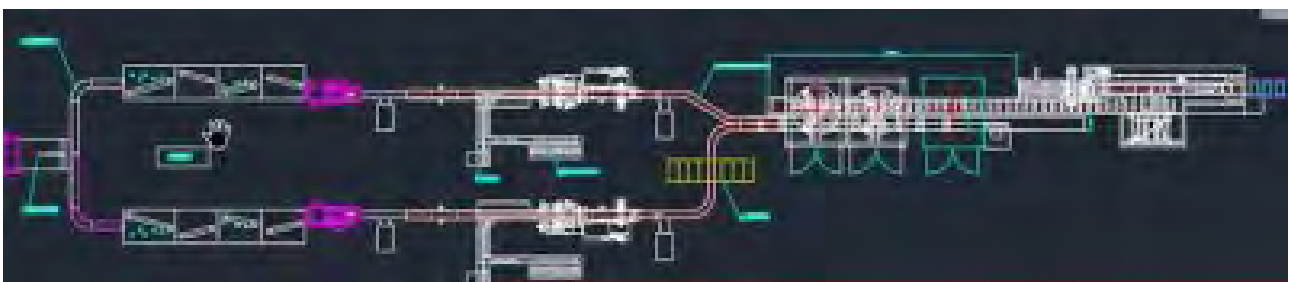
The installation of an automatic Baumkuchen packaging line at a customer’s site illustrates the effectiveness of these joint solutions by Golden Pak, Mitsubishi Electric and Keling. The project lasted for two months with Keling’s engineer Mr.Yang being stationed at the site, and Mitsubishi Electric’s technicians and experts on-hand to provide support. Mr.Yang said, “Sharing success with customers is our philosophy. Mitsubishi Electric has been rolling out many reliable and convenient solution packages in recent years. They support manufacturers to adopt concepts that can create more value for customers.”

This Baumkuchen packaging production line and the back-end project with multi-belt packaging adopted advanced technology and industry leading solutions. The production line has automatic sorting and feeding, automatic deoxidizer and labeling, automatic pillow packing, parallel spider robots, automatic boxing, various testing stations and other packaging elements. The integrated main controller watches over the entire process to maintain stability and to ensure things run smoothly.

Mitsubishi Electric not only has a full factory automation product line (from PLCs to industrial robots and processing machines, etc.), but it also has created the e-F@ctory digital manufacturing concept based on nearly a hundred years of manufacturing experience, built on a system framework and standards for creating intelligent factories.

“I hope that Mitsubishi Electric will strengthen its understanding of the industry and invest in science and technology, at the cutting edge of the packaging process, to support the needs of end users and promote the application and expansion of production lines, production workshops, and even the application of products and solutions for the whole plant.” Jin Weijian has extremely high expectations for Mitsubishi Electric. He said that once all production lines start to use Mitsubishi Electric’s technology, the stability of the packaging equipment will be better guaranteed.

Automatic Baumkuchen packaging production line project.





PARTNERING FOR SUSTAINABLE PACKAGING SOLUTIONS

Chocolate manufacturer Ritter Sport and Syntegon develop sustainable paper packaging





To meet customer expectations, food manufacturers need to rethink their products in terms of sustainability along the entire life cycle. Not only the ingredients and production processes of the product are crucial; the recyclability of the packaging also has a major impact on the ecological footprint. The German chocolate manufacturer Ritter Sport has set itself the mission to use eco-friendly packaging for its products. On the equipment side, the company is supported by Syntegon Technology. The packaging machinery specialist has helped Ritter Sport develop packaging solutions for its popular chocolate bars for more than four decades. The latest successful project in a series of many innovations: paper pouches for the colorful Ritter Sport mini editions.

Sustainability has been an integral part of Ritter Sport's mission for years. In 1991, the company pledged to introduce sustainable processes along its entire production chain. By 2018, Ritter Sport had become the first big manufacturer of chocolate bars to source only certified sustainable cocoa for its products, which is supplied by farmers and cooperatives in Nicaragua, Peru, Ghana, Nigeria and the Ivory Coast. In parallel, the company started developing more eco-friendly packaging alternatives for their typical square chocolate tablets. Together with the experts of Syntegon, formerly Bosch Packaging Technology, Ritter Sport collaborated to try out new packaging alternatives for the Ritter Sport mini editions.

Development as a real partnership

"Our goal was to use a material out of renewable resources, which can be disposed via the paper recycling stream. This also meant, that we needed to find a fitting packaging machine, which is not only able to gently handle paper, but also allows a flexibility for different packaging formats and runs stable at high speed," says Ivo Buncuga, Head of technical department at Ritter Sport. Instead of the common paper trays overwrapped with plastic film, Ritter Sport opted for a more sustainable paper packaging alternative to improve the product's ecological footprint. Besides its good recycling properties, paper also allows a variety of designs and has good haptic qualities, attracting customer attention at the point of sale.

When used for secondary packaging, paper needs to be handled much more carefully than plastic film. It is both stiffer and less robust, and might crease or tear during the packaging forming process or due to the product drop impact. Hence processing the material on high speed packaging machines requires a lot of expertise to achieve flawless packaging. Syntegon and Ritter Sport analyzed the perfect interplay between operator, machine, product, and paper material. "We explored a variety of packaging styles and pa-

per materials before deciding which solution fits our product best," Ivo Buncuga says. First paper tests were run on an SVE 2520 vertical bagger to see how the different paper materials behave on the machine. Technical and material requirements were then optimized to achieve a stable and reliable process with the chosen paper material.

A premium sustainable packaging solution

After reviewing the results of the testing phase, Ritter Sport decided in favor of a stand-up paper pouch for its different types of small primary packaged chocolate bars such as the Ritter Sport minis or the Choco Cubes. The premium paper pouch is an eco-friendlier packaging option and stands tall on the shelf as a real eye-catcher. The haptics of the fully recyclable packaging further supports customers' positive first impression of the product. For the sturdy, smooth and flex-crack-resistant paper pouches the existing SVE 3220 vertical bagger from Syntegon was upgraded.

"Syntegon was the first company on the market to produce and process vertical paper bags, so their expertise was a huge asset for the project," says Ivo Buncuga. "They proactively supported us along the whole process with valuable improvements and solved challenges throughout the journey – from the first test runs at their site in Weert to the final product launch in spring 2021."

Providing flexibility

Flexibility was another important requirement in the project: Since the Ritter Sport minis are not packaged in paper pouches for all markets right from the start, the solution needed to be easily adaptable to different packaging materials and styles. The SVE vertical bagger processes both paper and plastic film. When choosing the new doy-style packaging, the machine produces up to 60 paper bags or 80 plastic bags per minute. Format and material changes can be performed quickly and easily, keeping downtime to a minimum. The machine allows Ritter Sport also to package pillow pouches in both materials with an output of up to 100 per minute, giving the customer the utmost flexibility during production.

This new paper packaging solution is an important milestone in Ritter Sport's sustainability efforts. However, the German chocolate manufacturer is far from slowing down. "We have exciting projects in the pipeline. We are already working with Syntegon to find possibilities of using paper as a primary packaging for our original square chocolate tablets," Ivo Buncuga says.

The challenges of wrapping chocolate in paper In combination with a sensitive product such as chocolate, paper packaging poses its very own challenges. When used as primary packaging, it must provide sufficient barrier protection. The requirements vary according to the flavor pro-





file and the ingredients. Higher contents of nuts, nougat, creams or fruity fillings mean an increase in fat, which calls for higher barrier properties. The same is necessary if alcohol or different aromas are added to achieve a complex chocolate flavor. In these cases, the fully recyclable propylene is still the most sustainable packaging material.

Chocolate bars containing a high amount of cocoa, in turn, are better suited for primary paper packaging. Ritter Sport worked on a pilot project with Syntegon to develop a paper-based packaging solution for some of its products. The main challenge for the development team was to find a way to make gusseting folding work with the wrapping material, so that the finished packaging is both robust and keeps the product's typical 'knick pack' packaging functionality. First test runs with 100 grams chocolate were performed on existing Syntegon machines from the Pack Series for horizontal flow-wrapping with the support of the competence center in Beringen. The machines have been equipped with the new forming shoulder of the retrofit-kit "paper-ON-form", which is especially designed for cold-sealed paper. It reduces the stress on the paper during forming since the forming unit and sealing jaws are pre-configured based on the desired pack size and the material characteristics.

Working on future-proof packaging
In autumn 2020, a small quantity of Ritter Sport's chocolate tablets Schoko & Gras wrapped in paper were launched in a test market. Step by step, Ritter Sport will switch further primary and secondary packaging to paper-based solutions. Ritter Sport's reliable partnership with Syntegon has come full circle: More than 45 years ago, the chocolate manufacturer invented its signature Knick-Pack® format together with the Syntegon experts at the former Tevopharm site in Schiedam in the Netherlands. "Today, we are still in close contact working together on new packaging solutions. This time focusing on sustainable versions of our packaging that still has the characteristic design," says Ivo Buncuga.

FE GROUP – YOUR BEST PARTNER IN LABELLING

The Fedrizzi family has been on the labelling scene since 1985. The company was born from the initiative of Fabio Fedrizzi and his wife

Erna Hoerwarter, who pay particular attention to the quality of printed products rather than the quantity. We are describing a ‘work-of-art approach’ by a craftsman, rather than an industrial process.

Today the helm of the company is still in the hands of the Fedrizzi family, after the children Cristina and Luca, together with their spouses Vittorio Bighetti and Elisa Girardi, acquired the family business from their father. The strong values and family-led business model are precisely what have determined the uniqueness of the FE Group which, to date, boasts 36 years of experience.

Digital pioneers

FE Group has always believed in innovation and works with an unique approach to technology: being at the forefront to develop and make a printing technique their own. Digital printing is an example of this, an area in which the group has created a great reputation for themselves, being the first to install a digital printing machine for industrial production back in 2004.

The company always looks forward to the future and believes in the power of ideas: it is the only label maker that is completely digital.

What’s new?

Fine printed labels have always been one of the company’s core activities, naturally deriving from the orientation towards quality.

Precisely for this reason, the best technicians of the group have embarked on the road of engineering developments with Cartes in 2019. The company, in the first half of the year, installed a machine created specifically for hybrid embellishment with very high precision and definition, something never seen before. The first finishing with digital screen printing.

What to fine print?

The answer tends to be: everything. Beyond this simple answer, the technological upgrades of embellishment find absolute consensus in the worlds of wine and cosmetics, where we know that labels are





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the best spotlight for a product and fine printing plays a major role.

The artisanal breweries have also understood this and, as a target, they speak to an audience that is more and more oriented towards the refinement and uniqueness of their products.

It goes without saying that there is a happy marriage between embellishments and the brewers!

In addition to wine and beer, this blends perfectly with the cosmetics sector too, giving life to true expressions of elegance and refinement. The gastronomic world also emerges, where more and more products aspire to refined labels, with olive and olive oil producers always at the forefront.

FE GREEN

The expansion of machinery improves many aspects including speed and, at the same time, precision. In addition, energy efficiency is improved, contributing to the protection of our planet and its environment, as well as optimising waste management. Digital printing allows, of course, operations with minimal waste.

Together with technological improvements, the materials, from paint to paper, are chosen carefully, too. They are oriented to have a low environmental impact and branded as eco-sustainable. For example: have you ever tried hemp or corn paper for your labels?

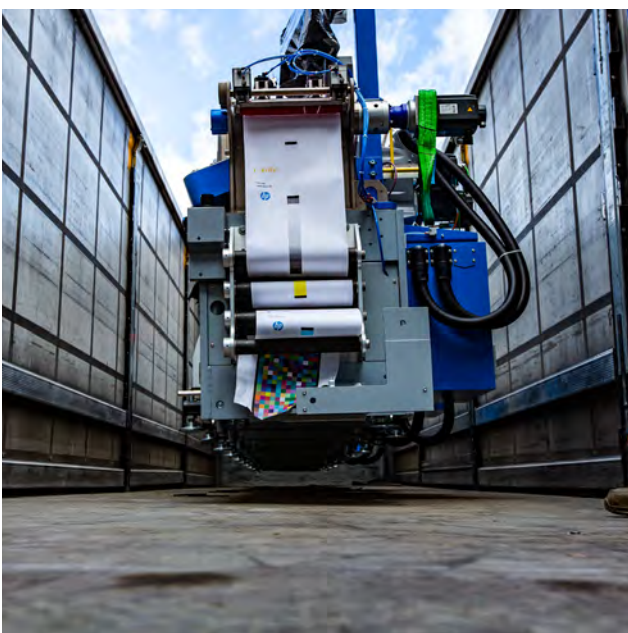


Find exactly what you are looking for!

Whatever the needs of our customers, the technical department will develop the best solution in terms of choice of materials, defining the most suitable ones based on the application and conditions of use: no need of our partners is ever neglected!

Personalise, personalise, personalise.

Today's trend is unique packaging. Yes, but unique for each customer, not just for the manufacturer. This increasing demand in the label market has led the FE Group to focus heavily on variable data. Today, it is



able to create an unlimited number of labels without ever printing one identical to another. No matter what the variable is: a code, a number, or above all a colour or the graphic design itself!

More space for information

Multi-page labels are a solution where the need to integrate information on the label is of utmost importance but the design or packaging itself impose space limitations. Whether they are small or medium-sized runs, instructions, information and even additional communications can be integrated.

Authenticity of the product

The phenomenon of product counterfeits is on the rise and brands find prevention precisely in the digital printing of labels. The solution is in traceability, variable data and invisible ink. Furthermore, the experience of the FE Group on anti-counterfeiting guides its partners in the harmonious integration of these elements in the product design!

FE Group provides its customers with many years of experience in every field of label printing.

It has staff capable of supporting companies from various sectors in order to find tailor-made solutions to dress the products in the best possible way for every occasion.

www.fegroup.it

GREINER PACKAGING

Partners with SABIC to create first bouillon packaging made from circular polymer for Unilever

These days, plastic packaging manufacturers are faced with ever increasing demands to incorporate more sustainable and more recycled materials, such as r-PP. For the first time, Greiner Packaging has now teamed up with global petrochemical leader SABIC and brand owner Unilever in a pilot project to produce tubs and lids for Knorr™ bouillon powder that are made from 100 percent certified circular PP from postconsumer plastic material. The new solution is already on the market.

Kremsmünster, Austria, December 2020. Greiner Packaging has already been testing various recycled materials for some time to determine their suitability for the production of its cardboard-plastic combinations. Now, the company has selected certified circular polypropylene from SABIC's TRUCIRCLE™ portfolio to realize a test project for Unilever. SABIC's material uses post-consumer mixed plastic as feedstock which is broken down into its molecular building blocks, to create virgin plastics which are then used to produce these new recyclable tubs and lids.

The goal is to produce about 1 million Knorr™ bouillon powder packages for Unilever from 100 percent circular polymer. As the availability of circular polymers will grow in the future, the number of circular tubs will grow alongside. "By producing some of the tubs from certified circular polypropylene, we want to set a new standard on the market together with our partners and demonstrate what is possible with recycled materials in the food segment. We also want to keep pushing forward with this development. Here at Greiner Packaging, we are not only focusing on certified recycled PP – we are also working on our first projects and tests with mechanically recycled PS," explains Jens Krause, Sales Director at the Swiss Greiner Packaging site in Diepoldsau.

No compromises in quality & performance

Knorr™ bouillon powder has now been marketed in the same cardboard-plastic combination for many years. The outer appearance, functionality and safety of the

new packaging is exactly the same, and the quality is likewise as high as ever. The difference is that it is made using recycled plastic, making it much more sustainable and environmentally friendly. Nothing has changed from the consumer's perspective, in other words, and they can still simply remove the cardboard sleeve from the actual tub when the packaging is empty before dis-





posing of the two components as usual. “Our goal is to continue making our packaging more environmentally friendly together with partners like Greiner Packaging and SABIC – especially in the food segment – without consumers having to lower their standards in terms of design, performance, quality, user friendliness, and food safety. We are now testing this using material produced from 100 percent circular polymer, with the goal of expanding across our portfolio by 2025,” says Mike Ross, Senior Packaging Manager at Unilever.

Advanced recycling: an opportunity for the future

The certified circular PP polymer from SABIC’s TRUCIRCLE™ portfolio is produced through the feedstock recycling of used and mixed plastic that could otherwise be destined for incineration or landfill. Difficult to recycle used plastic is broken down and taken back to the

molecular level by heating it at a high temperature in an oxygen-free environment, producing pyrolysis oil. The pyrolysis oil then enters SABIC’s production chain just like fossil-based feedstock to deliver new materials in compliance with strict quality requirements, such as the hygiene standards for food packaging. The resulting PP polymer is verified and authenticated under the International Sustainability and Carbon Certification (ISCC PLUS) scheme, which uses a mass balance approach. Greiner Packaging sees chemical recycling as an ideal supplement to mechanical recycling.

Greiner Packaging International GmbH

The new Knorr™ bouillon powder packaging is made from certified circular version of SABIC® FLOWPACT PP impact copolymer that is phthalate-free, safe for food contact while offering robust performance for high stackability and easy processing. The ISCC PLUS accredited material is a drop-in solution for replacing fossil-based plastics in the packaging industry without compromising product purity and food safety.

K3®-F packaging: the perfect design solution

Knorr™ bouillon powder comes in K3®-F packaging, which is supplied to Unilever as separate plastic tubs and folded cardboard sleeves. The sleeves are unfolded by a machine and slipped over the tubs directly before filling at the company. This process is especially suitable for global brand manufacturers like Unilever who offer their product in various markets or under different brands and therefore work with a wide range of decoration solutions.

This gives them a high degree of flexibility in terms of the design and keeps stocks to a minimum. Plus, the packaging is perfectly stackable, which saves space during transport, as well as making this process more sustainable. The packaging solution is ideal for powdered foods, cereals, pet food as well as various non-food applications. Once empty, the consumer can easily remove the cardboard sleeve and dispose of the two packaging components separately. Alternatively, the resealable and dishwasher-safe tubs can also be used to store foods once the original product has been consumed – either at home or for day-to-day use in the food service industry.

Packaging facts:

Technology: Injection molding Decoration: K3®-F cardboard-plastic combination Monolayer material: 100 percent certified circular SABIC® FLOWPACT PP impact copolymer

www.greiner-gpi.com



MONDI HELPS INDUSTRIAL CUSTOMERS SWITCH TO HEAVY-DUTY CORRUGATED PACKAGING

“All big things should come in smart packages” is the slogan of Mondi’s new marketing campaign for its heavy-duty (HD) corrugated solutions. Mondi is a leading European supplier of sustainable HD corrugated solutions with plants in Germany, Poland and Turkey creating fit-for-purpose packaging for industries as varied as automotive, chemical, machinery, metal, solar energy, heavy consumer durables, white goods, home construction and fittings, sports and leisure.

Mondi is making good progress in terms of integrating its new Turkish HD corrugated plants in Bursa, Corum and Gebze with its plants in Germany (Ansbach) and Poland (Simet), following the acquisition of Olmuksan in 2021. In recent years, Mondi has invested in new capacity, technology and machinery at its Ansbach and Simet plants, which are now some of Europe’s largest full-service, state-of-the-art facilities. Mondi Olmuksan is one of the leading players in the HD sector in Turkey, further expanding the group’s capacity to serve a broader range of industries and geographies.

“Our customers have been impressed that a HD corrugated container can withstand a tonne of top weight, or that a corrugated box can safely transport heavy items through hot and humid climates. Once they realise that HD corrugated solutions are a viable alternative, they get excited about all the added benefits of customisation, handling and transport efficiencies. And of course, switching to a lightweight, paper-based, recyclable material helps our customers achieve their own sustainability goals,” said Gerald Dörzbach, Sales Director at Mondi Wellpappe Ansbach

Mondi supports customers in making the switch to HD corrugated packaging, working closely together from initial analysis to design and implementation. Mondi’s new ThinkBox customer engagement centres are providing a dedicated space for collaboration and the development of solutions in the HD and industrial segment. Customers benefit from tailor-made, lightweight solutions that are a perfect fit for oddly shaped or heavy products while increasing the number of items per pack and maximising the use of limited cargo space.



- **Heavy-duty corrugated packaging can be used to ship a variety of large or heavy industrial goods and consumer durables safely, efficiently and more sustainably**
- **As one of the largest producers of heavy-duty corrugated packaging in Europe, Mondi’s highly-experienced team helps customers to design tailor-made solutions that are fully recyclable**
- **Recently acquired Turkish plants have bolstered Mondi’s ability to serve a broader range of industries and geographies**



“Shipping large and heavy items is increasingly complex and costly, in addition to the environmental impact. That’s why we believe ‘all big things should come in smart packages’. Manufacturers could benefit from switching to HD corrugated packaging for reasons of operational processes, logistics as well as sustainability. We want to reach companies who may not have considered

the possibility of a paper-based alternative to traditional crates and containers. We look forward to developing customised solutions that not only meet their needs, but are sustainable by design,” said Tarik Aniba, Sales and Marketing Director, Mondi Corrugated Solutions.

www.mondigroup.com



SECTORS

 PACKAGING



OPTIMA OFFERS SUSTAINABLE PACKAGING SOLUTIONS FOR NAPKINS

In 2021, Optima is continuing to drive its sustainability strategy forward. The company focuses on honest packaging solutions that take into account circular economy principles and deliver true sustainability. Paper packaging is one possibility.

Effective immediately, the new Bremen-based subsidiary Senning is offering paper product packaging lines such as napkins that can be flexibly converted from paper to film and vice versa. Retrofits are also possible.

“One of our main focuses is developing sustainable packaging solutions. Paper that does not contain composite materials such as plastic is a

Senning’s SE660 series machines can be flexibly converted from film to paper packaging. (Source: Senning)



One of Senning’s latest packaging projects: Napkins in paper packaging. The paper and tissue industry is increasingly using paper as a more environmentally friendly alternative packaging material. (Source: Senning)

The subsidiary Senning's machines can be flexibly converted from film to paper



This is possible thanks to an integrated gluing station. The retrofit is carried out with minimal effort. This makes Senning's investments in machine technology exceptionally future-proof.

Unique full wrap paper packaging

What makes these machines special is that Senning is the only supplier to offer full wrap paper packaging solutions for paper and tissue products. Paper can be used that is 100 percent paper, with no composite materials, therefore making it completely recyclable. As a result, Senning can now also meet the demand for greater sustainability in paper and tissue production. "It is also possible to use packaging made from recycled plastics, bio-based plastics and biodegradable plastics," Annette Bengs, Managing Director of the Senning GmbH, adds.

Further information on sustainability at the Optima Group can be found at:

www.optima-packaging.com/sustainability

OPTIMA

Optima supports companies worldwide with flexible and customer-specific filling and packaging machines for pharmaceuticals, consumer goods, paper hygiene and medical devices markets.

As a provider of solutions and systems, Optima accompanies these companies from the product idea through to successful production and throughout the entire machine life cycle. 2,450 experts around the globe contribute to Optima's success. 19 locations in Germany and abroad ensure the worldwide availability of services.

promising alternative to film packaging," says Dominik Broellocks, Group Sustainability Manager at the Optima Group.

In line with this, in addition to Optima Nonwovens, Senning GmbH from Bremen now also offers corresponding retrofit options for existing machines.

The company joined the Optima Group in October 2020 and specializes in paper and tissue product production and packaging. To enable producers to switch flexibly between paper and film packaging, new lines can also be designed on request.

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 SUSTAINABLE
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ATTENTION TO INNOVATION AND RELIABILITY CHARACTERIZES END-OF-LINE AUTOMATION SOLUTIONS

Geo Project Industries (GPI Group), through continuous research, based on a consolidated technological know-how, designs and manufactures complete end of line systems, which have an optimal response in satisfying the requirements of its customers in the world.

The complexity of the problems faced and resolved constitutes the “benchmark” on which the skills of the staff who operate at various levels within the Company are based.

Currently the design, with the help of the latest generation software, allows to develop the most realistic simulations, ensuring customers can evaluate all the dimensional and functional aspects of a proposed solution.

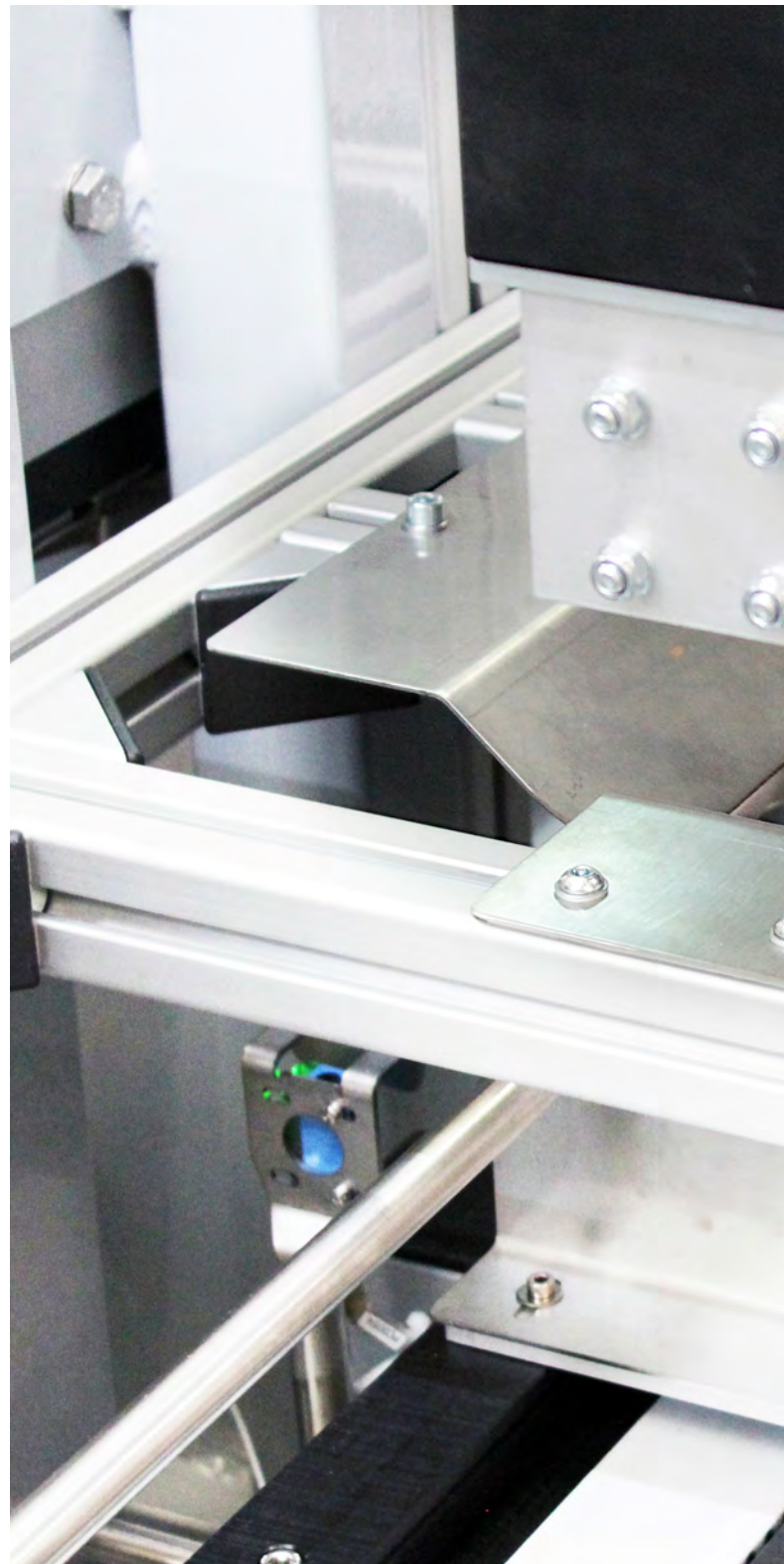
Since its foundation, the main objective has been the cultivation of highly specialized skills that could meet and satisfy the specific needs of the customer.

The new marketing trends increasingly involve the use of various packaging formats, therefore a strongpoint of GPI Group are the personalized solutions, accompanied by particular attention in testing and a prompt after-sales service.

The evolution in packaging design furthermore requires continuous study to be able to safely and securely handle the most varied types of products, in this sense the cartoning and palletizing of innovative boxes (custom cases, tray/lid, wrap-around) is the specialty of the GPI Group.

The product range includes Forming machines, Side loading Cartoning Units, Cartoning machines, Closing Units, All in One Units, Traditional and Robotic Palletizers, in addition to the other equipment needed for integrated lines.

The many years of experience of the designers, combined with the know-how acquired in dealing with the most varied packaging solutions, have ensured GPI Group can propose innovative and high-performance





GPI GROUP
GEO PROJECT INDUSTRIES



SECTORS

 **FOOD**





machines that combine gentle handling of the product with high speed.

Particular attention is also dedicated to territorial marketing and communication. The dialogue between area managers and worldwide agents is continuous and colla-

borative, not only in relation to sales and assistance but also to marketing, in order to meet local needs in terms of communication support.

www.gpindustries.eu



50TH ANNIVERSARY – FACCA PACKAGING COSMETICS

In the past 50 years, there have been many remarkable events. We have come through good times and challenging situations.



We are proud to announce that we are celebrating this year the 50th anniversary of Faca Packaging. We are gratefully looking back to the beginning, where in 1970 Mr. Aniceto Canamasas, began his career, with great vision, which has allowed us to be today`s global leading company in the cosmetic sector.

For Faca Packaging this year, despite the challenges, is an important and remarkable year as we are celebrating the 50th anniversary. In the past 50 years, there have been many remarkable events. We have come

through good times and challenging situations. Faca Packaging is the best example that, even though we are facing this current global situation, we continue being a leading position in the high-end and luxury sector of the cosmetic packaging industry.

In addition to this celebration, it is also a special year with regard to the development of our molds. Since this year, we add the mold number 3000 to our own workshop and mold manufacturing, which demonstrates the constant investment in Research and Development in injection and blow-molding to innovate our products.



At present, we find ourselves in a situation in which new markets demand a change in seeking sustainable solutions, and Faca Packaging is leading the way in this field.

New technologies

This year Faca Packaging has launched its most representative model, the T22 – version refill jar, which has been the subject of constant imitations in the last 20 years. Right now it has a refillable goblet, as well as the possibility of manufacturing its recyclable and recycled materials.

In addition, we have launched an authentic and unique airless jar on the market to preserve natural creams.

Sustainability

This year has also been very special for Faca Packaging since we are in the continuous process of updating and further developing the machinery.

Strong investments have been made in state-of-the-art machinery that is more sustainable and with lower consumption levels, both in the injection process, with the acquisition of heavy-duty machinery to allow multi-cavity molds in decoration, as well as in the assembly by cutting edge machinery such as using ultra-high-speed artificial vision cameras for quality control.

Since 2019, our company uses 100% renewable energy in the three factories, the Injection mold factory, as well as its offices, thus continuing with the commitment to a

sustainable environment. The entire electricity consumption comes from fully renewable energy. In addition to this, we cannot forget the most important pillars that Faca Packaging has always characterized: R&D, design, exclusivity, and quality. We continue with the purpose of manufacturing 100% cleanroom. We have the approval of ISO – 9001 certification and the current development of ISO-14001.

Value Added

Our product has two important factors:

The first one is the technical factor, which must guarantee the sealing and the properties of the cream, which are the functional elements on which the packaging design must be based.

The second factor is aesthetics, where essential aspects such as design, decoration, and finishes intervene.

Our extensive knowledge of these 50 years has allowed us to achieve that aesthetic, technological, and functional challenge is met in an exceptional way.

We maintain the philosophy of launching between 4 and 5 models per year, as well as increasing our list of patents that accumulates more than 300 until now.

We are very proud to be able to turn 50 in these times, and obviously thank all our clients for the trust they have placed in us.

www.facapackaging.com

SECTOR

- ✓ PACKAGING
- ✓ PERFUMERY
- ✓ COSMETIC

BW PACKAGING SYSTEMS ALIGNS HEMA FILLERS WITH SYNERLINK

Complementary filling and closing companies to offer innovative solutions for global food and beverage markets



Two Barry-Wehmiller Packaging Systems companies based in France, Hema (in Quimper) and Synerlink (in Puiseux-Pontoise), have aligned to bring complementary rigid packaging solutions to the global food and beverage markets. Hema—which previously operated as a brand under Pneumatic Scale Angelus (PSA), another BW Packaging Systems division—will bring rotary filling solutions to Synerlink’s equipment portfolio.

“By bringing Hema and Synerlink together, we can leverage our local talent and product lines to strengthen our position as a trusted partner and leader in rigid, eco-friendly packaging solutions for the food industry, offering a broader range of filling equipment, including both rotary and inline solutions,” said François Truffier, Synerlink President. “Hema brings proven technology with a wide range of filling machines—for plastic, glass and metal containers—operating at speeds up to 40,000 containers per hour.”

In addition to its technology, Hema brings 80-plus years of experience in several key markets, including liquid dairy products, edible oils, sweetened products, canned meats and sauces, dressings and condiments, which will broaden Synerlink’s reach in these strategic segments. Over the years, Hema has installed more than 3,500 machines that fill bottles, jars and cans across 100 countries. Moving forward, Hema’s filling expertise will be leveraged to expand Synerlink’s offerings for existing food and beverage customers, and to deliver innovative and sustainable packaging solutions for the global food market.

“Although Hema is now part of the Synerlink organization, the Hema team will continue to work collaboratively with PSA’s thriving filling business and with each of our other divisions to continue our long-standing commitment to bringing integrated packaging solutions to our customers,” said Carol O’Neill, Barry-Wehmiller Group President, Packaging. “In the coming months, expect further communication from our leadership team as this exciting collabora-

tion continues to evolve and drive value for our customers through our wide range of filling capabilities.”

Hema originally joined the Barry-Wehmiller organization in 2015 when it was acquired by PSA, a global leader in packaging machinery for liquid- and dry-filling, capping, can-seaming and labeling applications. Since then, Hema has operated under PSA, augmenting its filling capabilities, and allowing BW Packaging Systems to expand its presence as a global leader in filling and closing technology. Today, PSA continues its long history of developing innovative filling and seaming solutions from its Akron, Ohio, facility, and will continue to support its growing customer base with new equipment and aftermarket services. In addition, the division will maintain its support of the installed base of rotary filling machines for both Hema and PSA product lines.

“Since 2015, when we had the pleasure of acquiring the Hema business, we’ve enjoyed the collaboration with our team members in Quimper, leveraging each other’s expertise to design and develop value-added solutions for our customers,” said Bill Morgan, PSA President. “As we look to realign some of those capabilities with our sister division Synerlink, PSA remains focused on our foundational commitment to excellence and innovation in filling solutions. We look forward to an ongoing partnership with the Hema and Synerlink teams, leveraging our combined global talent to drive sustained growth and superior service for our customers.”

Synerlink creates world-class machines and services for cup-filling, bottle-filling and form-fill-seal rigid packaging solutions by bringing together some of the industry’s most trusted brands, including Aprium, Arcil, Dairy Pack, Dnieper, Ermi and, now, Hema. Synerlink is one of several Barry-Wehmiller companies represented in BW Packaging Systems, which brings together the collective packaging capabilities of Accraply, BW Flexible Systems, BW Integrated Systems, PSA and Synerlink.

synerlink.com



FORMAT CHANGEOVERS FOR INSPECTION UNITS IN BOTTLING PLANTS

Into state-of-the-art bottling plants hygiene and efficiency are key words. The example of bottle inspection machines makes this particularly clear. The Linatronic 735 made by the bottling specialist Krones AG, monitors washed reusable bottles for dirt and damage optimizing speed and set-up time.

Reusing bottles should not mean compromising on the hygiene and proper condition of the bottles! At the same time, this requires a high level of flexibility as the bottle inspector must be capable of monitoring a wide range of bottle formats. For the operating manager, a hygienic design that can be adjusted automatically at the touch of a button to different bottle types equates to reproducibility and efficiency!

At the headquarters of Krones AG in Neu-Traubling, Germany, Mr Rudolf Fiegler, Head of Product Management for Inspection Technology, explains what flexibility means in practice to machinery and plant designers. The key is to be able to guide a wide variety of bottle formats safely through the inspection line at high speed (up to 72,000 bottles per hour). Glass bottles have tolerances of up to 7 mm so the bottles are guided by belts on both sides.

When the bottle format is changed, e.g. from a rotund to a thin bottle, the position of the belts must be changed using a positioning system. In order to prevent tilting, this must be performed simultaneously and synchronized for both belts by two positioning units.

Changing the belt position, however, is just the beginning: The bottle inspector contains a number of different inspection systems, which must be adjusted to the new bottle format. In Linatronic's plants several sensors and cameras are used to detect rust, residual liquids, thread damages. Krones AG uses PSE positioning systems from halstrup-walcher to make these positional adjustments as well.





halstrup walcher



SECTOR

 BOTTLING

 PLANTS

 FOOD



PSE positioning systems offer a very wide range of solution integrating into a compact design gear, motor, absolute encoder, drive. They are very easy to mount in place of an handwheel or other manual adjustments.

Thorsten Gut, Product Manager at Krones AG explains that between other features Krones AG, for this application choses halstrup-walcher PSE positioning systems because of the advantages of its absolute encoder (which the positioning system uses to measure its actual position) that ensures precision and safety even in the event of a power failure. An important role is played also from the strong “breakaway torque“, which is significantly higher than the nominal torque allowing the system to start up again after longer interruptions and be repositioned. Moreover without changing mechanical design is possible to select between 10 different buses and solutions with different hygienic standard. This flexibility helps to satisfy different applications and markets

Manual position adjustment is no longer convenient to automatic format adjustment with PSE. Thorsten Gut, Product Manager: “This prevents the machine operator making individual adjustments to the positions. It also reduces training costs and the workload for operating personnel as the new format is set ‘at the touch of a button’ rather than by a manual intervention, that requires instruction. This is critical as these plants are in operation around the world in countries with widely differing levels of training and education.”



The plant construction specialist Krones AG is well known for its turnkey plants and systems covering every aspect of bottling. And for its comprehensive world-wide service. Rudolf Fiegler, Head of Product Management for Inspection Technology at Krones: “Today, it is more important than ever that plants are highly available and standstills can be prevented in advance – both through on-site and remote maintenance. The PSE positioning systems we use constantly monitor themselves – in other words, they offer condition monitoring. This enables us to perform maintenance before problems arise (e.g. if a spindle becomes dirty) and significantly improves the availability of the plant.”

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WALKI'S NEW REEL WRAPPING PAPER, WALKI® REEL WOOD, IS ENTIRELY WOOD-BASED

With a wood-based reel wrapping paper entirely made of wood, Walki is helping the publishing industry to minimise its carbon footprint

When graphical paper for magazines is transported to the printer, the paper reels need to be protected. Walki has developed a 100% wood-based reel wrapping paper, where the protective polymer barrier is made with tall oil.

“Walki® Reel Wood is made of 100% renewable raw materials: plant-based tall oil and paper. In addition, we can potentially reduce the amount of the polymer component by more than 20%. Considering the scale of the board and paper industry, this kind of change does make a difference”, says **Carlo van Houtum**, Vice President, Sales & Marketing at Walki.

As tall oil is a side product from pulp production, no additional forest needs to be harvested to acquire it.

The Walki® Reel Wood was developed in collaboration with a customer.

Other customers have also shown a great interest in the fossil-free wrapping paper as it helps them and their customers, such as publishing houses, to reduce carbon footprint.

Walki uses the wrapping paper also for its own use in the Valkeakoski and Pietarsaari plants in Finland and in Steinfurt in Germany, in an effort to cut down on the company's own carbon footprint.

There are also plans to start using Walki® Reel Wood in Walki's UK plant in Garstang.

www.walki.com



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NÜRNBERG MESSE

AUTOMATED PRINT AND APPLY, A MATTER OF CHOICE

Selecting an automated print and apply system can be a daunting task, especially when it's a company's first foray into automated labelling. As the name implies, the print engine is the key component of the whole system and its choice should not be taken lightly.

The usual selection process revolves around specific aspects: already owned models, printing speed, Direct Thermal Vs Thermal Transfer, resolution etc... But that's limiting, not to say that is a mistake; there are other factors, often overlooked, that should be seriously considered during the evaluation process.

Serviceability

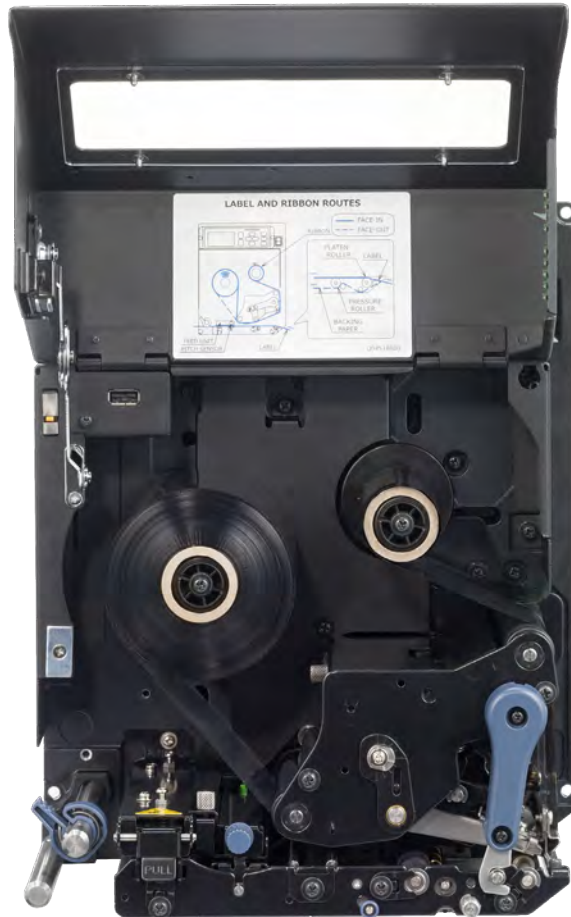
Just like a vehicle engine, there are many elements of the print engine that require scheduled cleaning, maintenance and, sometimes, replacement; components such as the thermal print head or the platen roller. If these items are difficult to replace, or if areas of the printer are not readily accessible for cleaning, the result can be defective printing, frustrated users and production line downtime.

Sometimes a more in-depth service work is required, being this the case it's fundamental the print engine can be easily removed and put back in place as fast as possible. This removable print engines, often referred to as an "OEM print engine", provide two important benefits: ease of access, ease of replace.

To ensure service can be done in a timely manner, it's important for key internal components to be simply accessible and that most of them can be reached without the need to disassemble other areas of the printer. Ask your technical personnel for their experience with different print engine models. We did so. That's why SATO specialised itself in OEM engines and our modules are the best in class when it comes to changing a print head without tools or accessing the PCB for maintenance.

Adaptability

Print engines are vastly different "animals"



when compared to traditional desktop label printers. The latter generally see either relatively low volume label production or bursts followed by long periods of idle time. Also, minor detail, they are generally in an office or other protected environment. Print and apply engines, on the other hand, see long periods of continuous production - up to 24 hours a day, seven days a week - directly in the production environment.

With this level of rigorous use, it's critically important for the selected print engine to have a fully committed design, development and support team in place as well as a long standing history of success and reliability in the market. SATO not only can offer that, 80 years in the business speak for themselves, but it's also capable of offering printers with both the smarts





and the capabilities of a desktop model and the resistance of a print engine. A partner of us was working with Arcelor Mittal and they needed a print engine capable of working in an environment with a temperature varying between 0°C and -40°C. Although we had better performances than competitors, we were still facing one technical challenge: the printer had to be capable of supporting a Zebra emulation inside a SAP system. Long story short: after some testing, turned out that the CL4NX series was perfectly capable of supporting the ZPL emulation and adapting to itself to the harsh environment. All thanks to the AEP suite, an AI platform residing inside SATO printers.

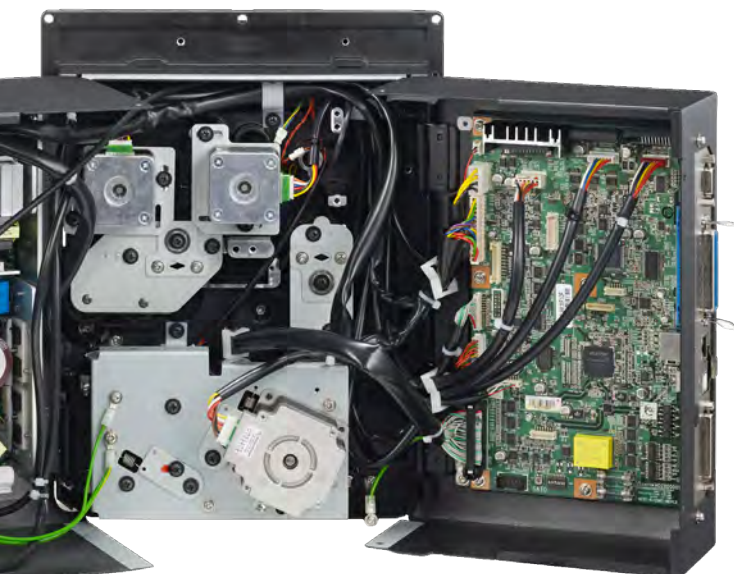
Conclusion

Technical specifications are just the first step of the selection process; just looking at the datasheet, or even worse making a choice based on the matching between your current desktop fleet and the new print engines can be detrimental for the whole production plant.

Adding the above criteria to the selection process is guaranteed to help companies choose a print engine that meets not only the technical requirements of the application but also the operational needs of the organization and the capabilities of its personnel.

Are you looking for help in the selection process? Do you want to have more insights on the SATO world and its expertise? Are you facing insurmountable problems with your production line? Make the right choice, contact us and we'll find a solution together, on site.

www.satoeurope.com



SECTORS

 PHARMACEUTICAL

 COSMETIC

 FOOD

EXHIBITIONS - EXHIBITIONS

2021-2022

SIGEP

15-17/03/2021

RIMINI

Fair for bakery, pastry, ice cream, coffee.



mcTER

12/04/2021

ROME

Exhibition on energy efficiency.



mcT COGENERAZIONE

21/09/2021

MILAN

Exhibition for cogeneration.



FACHPACK

28-30/09/2021

NUREMBERG

International packaging trade fair.



MEAT-TECH

22-26/10/2021

MILANO

Fair for the meat and ready meals industry.



HOST

22-26/10/2021

MILANO

Fair for bakery production and for the hospitality.



SAVE

27-28/10/2021

VERONA

Fair for automation, instrumentation, sensors.



mcT ALIMENTARE

28/10/2021

BERGAMO

Fair on technology for the food&bev industry.



MECSPE

23-25/11/2021

BOLOGNA

Fair for the manufacturing industry.



SIGEP

22-26/01/2022

RIMINI

Fair of ice-cream, pastry, confectionery, bakery.



PROSWEETS

31/01-02/02/2022

COLOGNE

Fair for the sweets and snacks industry.



INTERSICOP

19-22/02/2022

MADRID

Fair for bakery, pastry, ice cream, coffee.



FRUIT LOGISTICA

09-11/02/2022

BERLIN

Fair for fruit and vegetables.



BEER&FOOD ATTRACTION

20-23/04/2022

Rimini

Fair for beers, drinks, food and trends.



COSMOPROF

10-14/03/2022

BOLOGNA

Fair for the cosmetic production chain.



ProWein

27-29/03/2022

DUSSELDORF

International wine & spirits exhibition.



MIDDLE EAST 2021/22

GASTROPAN

21-23/09/2021

ARAD

Fair for the bakery and confectionery industry.



GULFOOD MANUFACTURING

07-09/11/2021

DUBAI

Fair for packaging and plants.



HOSPITALITY QATAR

09-11/11/2021

DOHA

Fair of Hospitality and HORECA



PROPAK VIETNAM

10-12/11/2021

SAIGON

Fair for packaging, bakery, pastry.



WOP DUBAI

22-24/11/2021

DUBAI

Fair for for fruits and vegetables.



DJAZAGRO

22-25/11/2021

ALGERS

Fair for companies of the agro-food sector.



ANUTEC

02-04/12/2021

NEW DELHI

Fair for the food&beverage industry.



PACPROCESS FOOD PEX

09-11/12/2021

MUMBAI

Fair for product from packaging.



GULFOOD

13-17/02/2022

DUBAI

Fair for food and hospitality.



IRAN FOOD BEV TEC

07-10/06/2022

TEHRAN

Fair for food, beverage&packaging technology.



PROPAK ASIA

15-18/06/2022

BANGKOK

Fair for packaging, bakery, pastry.



GULFHOST

08-10/11/2022

DUBAI

Fair of hospitality.



EXHIBITIONS - EXHIBITIONS - EXHIBITIONS

2021-2022-2023

VINITALY

10-13/04/2022

VERONA

International wine & spirits exhibition.



LATINPACK

26-28/04/2022

SANTIAGO CHILE

International packaging trade fair.



ANUGA FOODTEC

26-29/04/2022

COLOGNE

Fair on food and beverage technology.



CIBUS

03-06/05/2022

PARMA

Fair of food product.



IPACK-IMA

03-06/05/2022

MILANO

Exhibition for the packaging industry.



MACFRUT

04-06/05/2022

RIMINI

Fair of machinery and equipment for the fruit and vegetable processing.



SPS/IPC DRIVES/ITALIA

24-26/05/2022

PARMA

Fair for industrial automation sector.



HISPACK

24-27/05/2022

BARCELLONA

Technology fair for packaging.



FISPAL

21-24/06/2022

SÃO PAULO

Fair for product from packaging.



POWTECH

30-08/01-09/2022

NUREMBERG

The trade fair for powder processing.



DRINKTEC

12-16/09/2022

MONACO

Fair for the beverage and liquid food industry.



SIAL

15-19/10/2022

PARIS

Fair on food products.



SUDBACK

22-25/10/2022

STUTTART

Fair for bakery and confectionery industry.



BRAU BEVIALE

08-10/11/2022

NUREMBERG

Fair of production of beer and soft drinks.



SIMEI

15-18/11/2022

MILANO

Fair for vine-growing, wine-producing and bottling industry.



ALL4PACK

21-24/11/2022

PARIS

Exhibition about packaging technology.



INTERPACK

04-10/03/2023

DÜSSELDORF

Fair for packaging, bakery, pastry.



TUTTOFOOD

08-11/05/2023

MILAN

International B2B show to food & beverage



IBA

22-26/10/2023

MONACO

Fair for the bakery and confectionery industry.



RUSSIA CHINA

04-08/10/2021

Fair of machinery and equipment for agroindustrial industry.



25-28/01/2022

International packaging machinery exhibition.



22-25/03/2022

Fair for bakery equipment and food ingredients.



29-31/03/2022

International trade fair for the beverage industry.



13-15/09/2022

International packaging machinery exhibition.





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