

# packaging

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## PACKAGING



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## ETIPACK SPA

Flexible packaging labelling for sanitizing products: the Etipack project for transparent gel refills packs

## LATEST NEWS



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## RESEARCH INTO SUSTAINABLE PACKAGING

Thousands of ways to replace plastic



SONIA V. MAFFIZZONI  
*Editorial Manager*

Resilience, innovative capacity, and a strong drive for sustainability. With this focus, the packaging sector weathered the storm and came out a winner on the other side. Not only was it unaffected by the crisis, but it looked at consumers with awareness and was able to respond to their needs, even those that were unexpressed.

Plastic only where needed, many alternative materials, policies geared towards a true circular economy, and a huge push towards technological innovation. The sector surprised us, as we'll show you in these pages, offering the best and always looking ahead.

Italian creativity is limitless. And when it meets technology, true Made in Italy excellence is born, that for which we're known around the world.

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## LABELLING



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**ALTECH SRL**

Altech presents the latest innovations in the labelling and identification sector

## PRINT



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**SATO**

Automated print and apply, a matter of choice

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# 6<sup>e</sup> PUMA ANNUAL MEETING: ACCELERATING TOWARDS THE END OF PACKAGING AS AN ENVIRONMENTAL PROBLEM

**O**n 16 March 2022, the 6e annual meeting of the PUMA project took place, Live Hybrid from the Van der Valk Hotel in Dordrecht. Live Hybrid means that 1/3 of the more than one hundred participants were physically present in the hotel, while the other 2/3 participated real-time and interactively from around the world. Together they focused on two important dossiers in the packaging environment issue. How do we better understand the material flows of emptied packaging for better recycling? How do we produce 150 million tons of packaging plastics without CO2 emissions and thus, for example, 'biobased'?

by Michael Nieuwesteeg, Helen Crowe, Serra Anker\*

## Why PUMA?

Initiated by NVC in 2016, the PUMA project has grown into the collective effort of the entire business packaging community to end packaging as a global environmental problem. Packaging has been around since ancient times, but the 20e century has seen a dramatic acceleration.

The world now packs at least 320,000 products per second, resulting in as many emptied packages later in time and in a different location. This has led to major environmental concerns. The packaging sector will retain its societal "license to operate" only if these concerns are properly addressed.







At the heart of PUMA is a holistic view of packaging, combined with the belief that by working together, exchanging information and innovating, we should be able to leave packaging's environmental problems behind us. This insight was also expressed by keynote speaker Philippe Blank from Henkel. He showed how PUMA as a "third dimension" is literally and figuratively guiding the thinking about packaging recycling or circular economy.

PUMA also stands for global cooperation based on mutual respect and understanding. This is the reason why the PUMA MANIFESTO is released in multiple languages. This meeting introduced the Korean edition of the manifesto. The first three printed copies were handed over live with a special live hybrid gimmick from Dordrecht to Korean co-authors Younjung Choi (University of Twente in Enschede) and Junmo Kwo and Demi Woo (KraftHeinz in Chicago, USA).

## **Coding emptied (plastic) containers for recycling: less is more**

One of the challenges is to combat the chaos that occurs after packaged products are delivered to the consumer-user. Over time, all the emptied packaging materials return, but

in a different location and in a disordered state. Worldwide, there are two initiatives to create order by coding plastic packaging in particular: Holy Grail 2.0 (with Digimarc Corporation in particular as technology driver) and Food2Food 2.0 (technology driver FiliGrade). Both explained their ongoing pilot projects in detail in parallel session A. of the meeting, led by manager NVC Information Services Helen Crowe. Then came the moment of truth: pilot projects are nice, but when are we going to implement all this beauty as a packaging world? The following proposition was put on the table: "Coding of plastic packs for better Collect-Control and Backend processing must be implemented worldwide in the year 2025". The result was general unanimity: everyone thought this should be the case. From PUMA's perspective, the conclusion was therefore clear: it is now a matter of quickly defining a limited number of flows for the backend, so that the coding and the Collect-Control can be brought into line with them: less is more.

## **150 million tons per year of biobased plastic packaging: why not?**

Global consumption of plastic packaging is currently about 150 million tons per year. For the enthusiast: that



is fifty times 150 billion bottles of 20 grams per year. It is expected to double in the next ten years. In this respect, packaging applications appear to be gaining in importance compared to transport applications such as petrol or fuel oil, where electrification is slowing down demand (growth). The market share of bio-based plastics is minuscule compared to what is produced from pumped up petroleum: less than 1%. From PUMA's perspective, it is clear that recycling alone can never be the solution; we cannot "recycle our way out of environmental problems. Parallel session B. therefore put the question at the center, whether and if so how we could make the standard plastics PE, PP, PET and perhaps PLA and PEF based on renewable resources in large quantities.

The session started with a thought experiment by Serra Anker, graduate student at the NVC on this topic. Suppose the Markerwaard were to be reclaimed and planted with forest, how much plastic packaging material could be produced annually? At least one million tons per year would be feasible: at current raw material prices this would represent an annual turnover of about €1 billion.

Speakers and participants from Avantium (Bart Langius), TotalCorbion (Martin Doornheim), Novamont (Henk Vooijs) and Braskem (Martin Clemesha) completed the picture of

bio-based plastics production: a rapidly growing market, but still limited in relative size. For PET, a decline is even expected, in favor of PEF. So the session's proposition did set tongues wagging: "In the year 2030, 50% of the production of materials for plastic packaging can be bio-based". An astonishing proportion of the participants, just over half, agreed with the statement. But as if the participants were shocked by their own voting behavior, many hastened to mention that such a percentage of biobased plastics would surely not be achieved by 2030. Whereupon the PUMA question followed: why not?

### **On the way to the PUMA world conference**

Finally, the attendees cast a glance at the coming year, which will be marked by the upcoming PUMA World Conference, May 3, 2023 in Düsseldorf, Germany. There it will become clear how far the world has progressed towards the end of packaging as an environmental problem. The conference is also the kick-off for seven days of packaging trade fair interpack, in the same city, from 4-10 May 2023. A special PUMA/NVC booth there will support visitors and exhibitors at the fair with information and be the meeting point for everyone who cares about PUMA - and our beautiful planet Earth.

**[www.nvc.nl/puma](http://www.nvc.nl/puma)**







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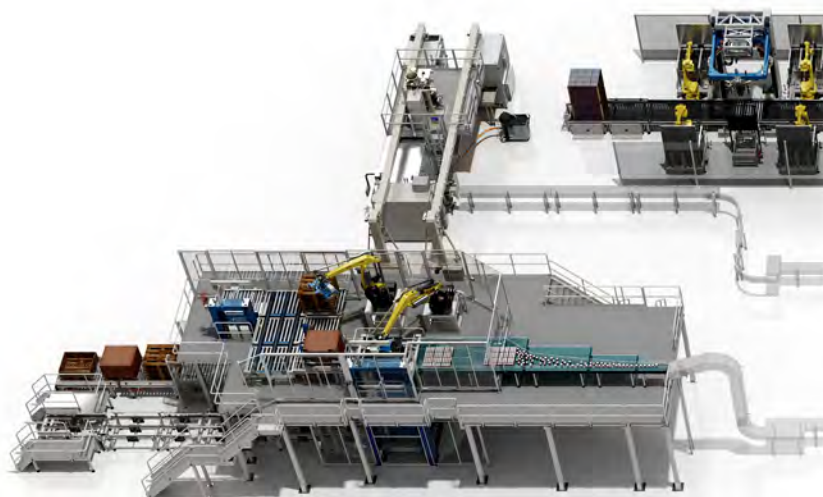
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# FLEXIBILITY – THE KEY TO HITTING THE MARKET FASTER AND MORE EFFICIENTLY

**Agility and flexibility are among the most essential assets any modern production environment can possess, so OEMs must help their customers by delivering machines and technologies that can keep pace with modern consumer demands**



**T**oday's modern consumer market is all about choice; not just between companies, but within brands too, as flavours, formats, portion sizes and packaging arrays are created to cater for every single market demographic.

As a result of these demands, those that supply these consumer markets – both globally and locally – have to exploit production and packaging technology that delivers the maximum possible agility. They need to get to market quickly to cater for what are becoming shorter and shorter windows of opportunity.

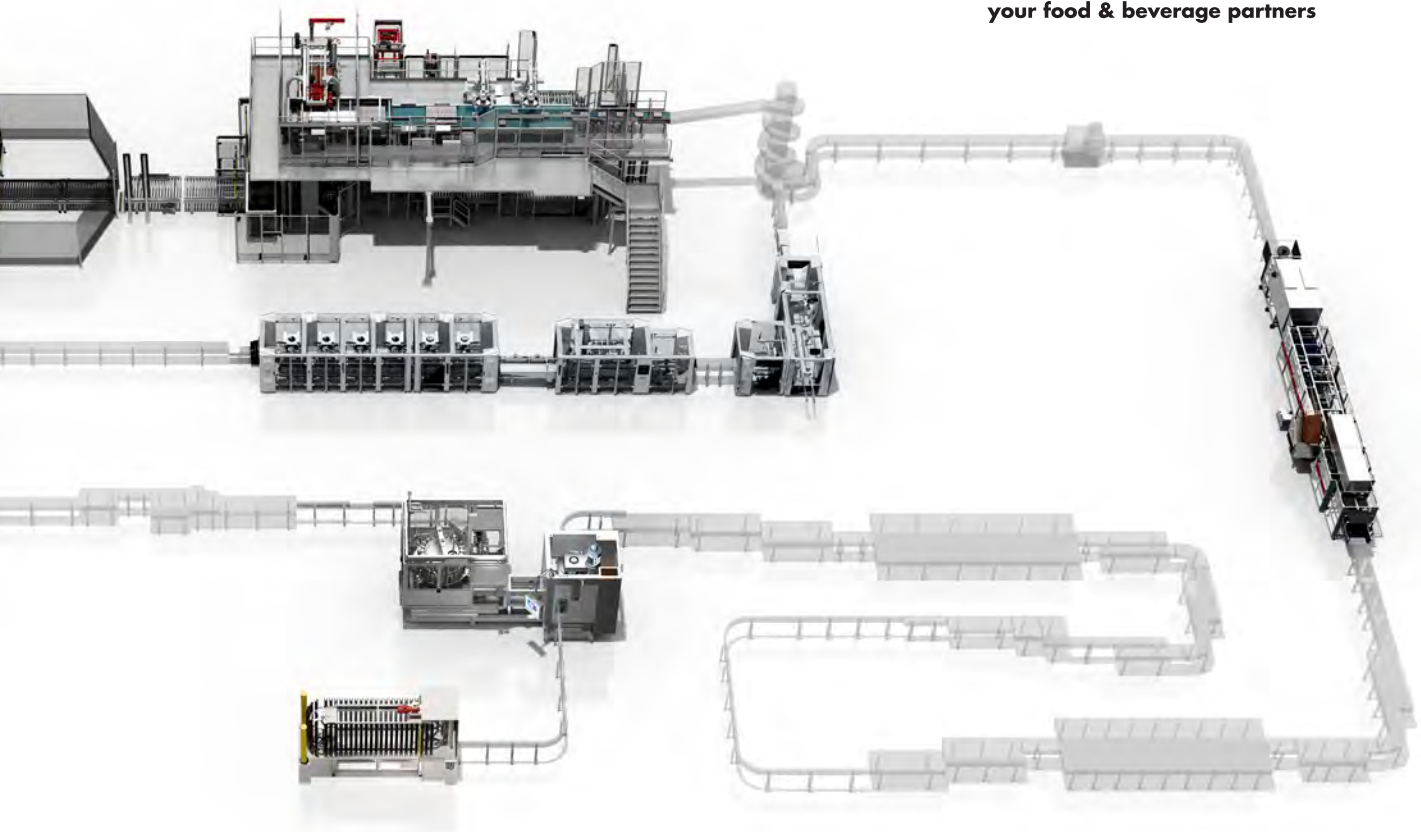
Modern automation has a huge role to play in the flexibility of contemporary packaging lines. But it is how this technology is deployed and exploited that makes the real difference. There has to be a perfect marriage of electrical, mechanical and electromechanical systems in order to cre-

ate the best possible agility; and this is where packaging machine companies can differentiate themselves.

However, like many modern business challenges, machine builders and their end-user customers have to think holistically too. They cannot consider technology or vertical capabilities in isolation. They have to see them as part of a system, cell or line and – especially important during this era of Industry 4.0 – how they all talk to each other and feed back into enterprise systems.

This all-important, integration-driven flexibility is a cornerstone of the Smart Packaging Hub; an initiative created by six like-minded companies that recognise the pressures end users are under. They have created a virtual space, where users can not only discover modern solutions to both new and existing challenges, but also witness examples of technological innovation and digitalisation in action.





The founder companies all offer advanced packaging solutions that are regularly co-located in applications around the globe. The Smart Packaging Hub formalises this common relationship and illustrates a synergistic approach to solving issues at all phases of the packaging lifecycle. This integration and flexibility ultimately delivers greater efficiencies and reduces TCO as tailor-made solutions work with each other to conquer even the most demanding applications.

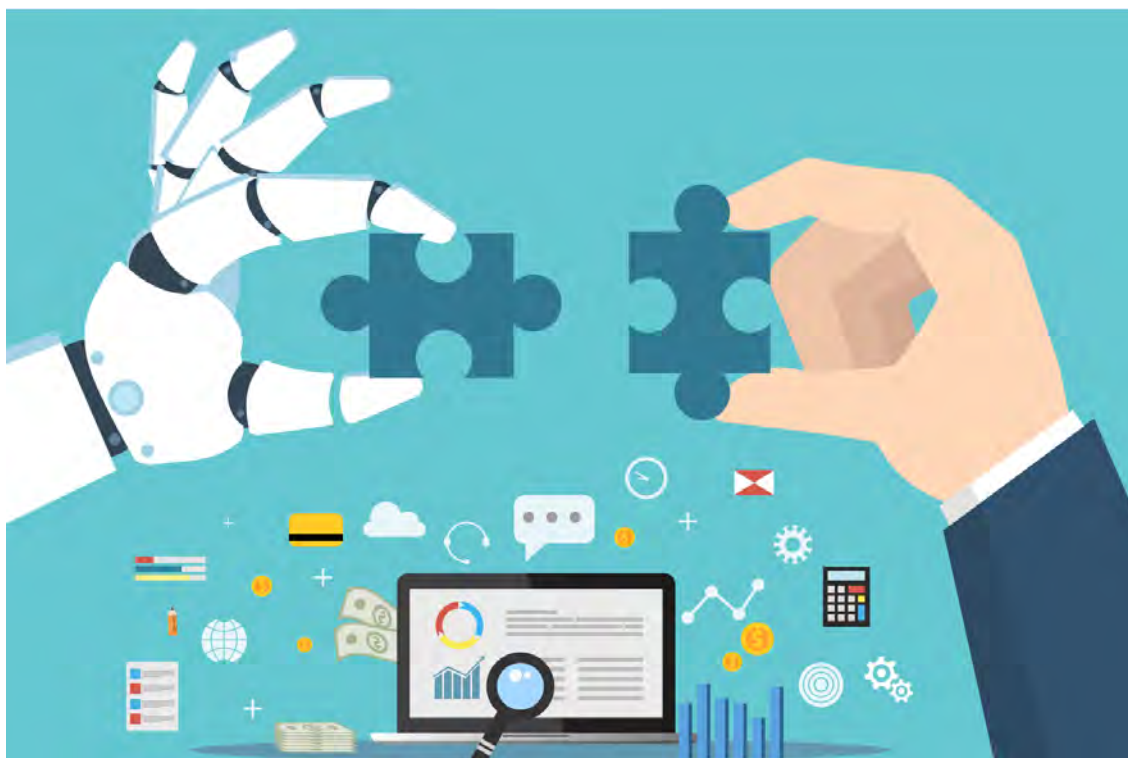
Opem is a specialist in fully customised coffee packaging machines.

This flexibility start with the product's shape, size and material and is then enhanced with appropriate technology that can fit the available real

## SECTORS

 PACKAGING





estate. Indeed, adaptation to local conditions and downstream supply lines is a regular feature of Opem designs. With customisation described as a 'state of mind' with the company, it can address the needs of small or large companies and can deliver best-fit solution to meet the precise needs of a huge variety of applications – from boutique grinders up to large multinationals.

Zacmi, a specialist in can filling and seaming has also recognised the need to deliver maximum flexibility from single machines, both in terms of packaging materials and formats and the foodstuff being packaged. In many cases it can supply a single machine where other competitors would need to supply two or more, all thanks to its advanced filling technology; all of which can be controlled by a single HMI.

Flexibility does not necessarily equate to added complexity. Cama Group offers secondary packaging machines that include fully automated changeover from one packaging 'recipe' to another. Full servo control removes the possibility of human error and can deliver error-free format changes in under 15 minutes.

Baumer has an ethos to deliver secondary packaging machinery that can simplify operation and deliver maximum flexibility. Indeed, some of its tailor made single-machine solutions can cater for over 60 different formats, while others deliver solutions implemented on shrink wrappers and wrap-around case packers on a single machine, which can easily switch between film only to tray & film or pad & film or wrap-around carton.

Cleverttech sees data and digitalisation as key tools towards flexibility and exploits modern automation and robotic technology to this end. Fast changeover, rapid adaptation and the ability to handle multiple product and packaging arrays is essential towards addressing the needs of end users and their very demanding customers.

Finally, Tosa's stretch-wrapping machines can adapt to a wide range of pallets and can perform various wrapping recipes, therefore not requiring a manual format change. This is possible thanks to a series of systems that optimize and adjust the countless control parameters during the wrapping phase, like the optimization of film distribution called "strategic film positioning".

On their own, these companies represent the pinnacle of packaging solutions and technology, but when put together, they create entire packaging infrastructures that define best practice in terms of efficiency, flexibility and adaptability.

[smartpackaginghub.com/en](http://smartpackaginghub.com/en)





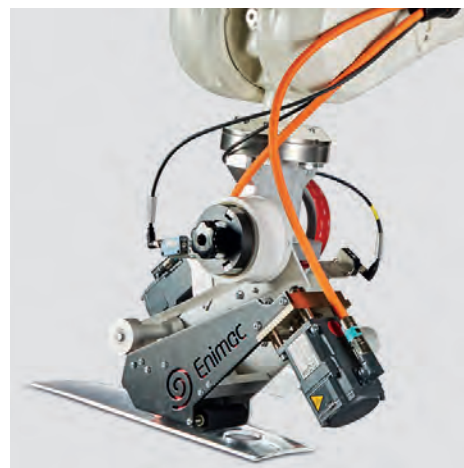


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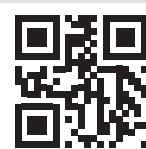
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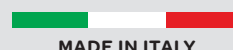
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Tape Application Made Easy



# FLEXIBLE PACKAGING LABELLING FOR SANITIZING PRODUCTS: THE ETIPACK PROJECT FOR TRANSPARENT GEL REFILLS PACKS

**A**chieving high-quality label application on a product with particularly challenging characteristics to manage: uneven surface, instability, soft surface and transparency. This was the goal of a leading company in cleaning, disinfection and hygiene solutions, looking for a system to apply a top label and a bottom label on refill packs of sanitizing gel.

This challenge proved to be particularly exciting for Etipack, which was called upon to measure itself with the design of a system capable of allowing perfect labelling on such irregular packaging and of managing different label formats with precision and efficiency.

**The solution: 4/2 customized system with two Strong 200 labellers and two print units for graphic layout and variable data.**

In order to achieve the goal desired by the customer, Etipack has designed a special 4/2 System, allowing the application of labels in two formats, above and below the product, while at the same time, being able to print graphic data and variables on the surface of the labels before application.

## **System features and configurations**

The system features two automatic variable data labeling and printing stations located at the bottom and top of an integrated product conveying system.

Two Strong 200 labelling machines with stepper motor, apply labels with an application speed of up to 20 m/min. They allow the recovery of backing paper up to 180 mm in diameter, thanks to the presence of a belt rewriter, and end-of-reel control thanks to an internal capacitive sensor. The upper labeller is equipped with an adjustable long dispensing terminal for separating from the backing paper and applying a 20 x 40 mm sized label. The lower labeller incorporates a paper rotation unit for 90° orientation of a 140 x 120 mm sized label.







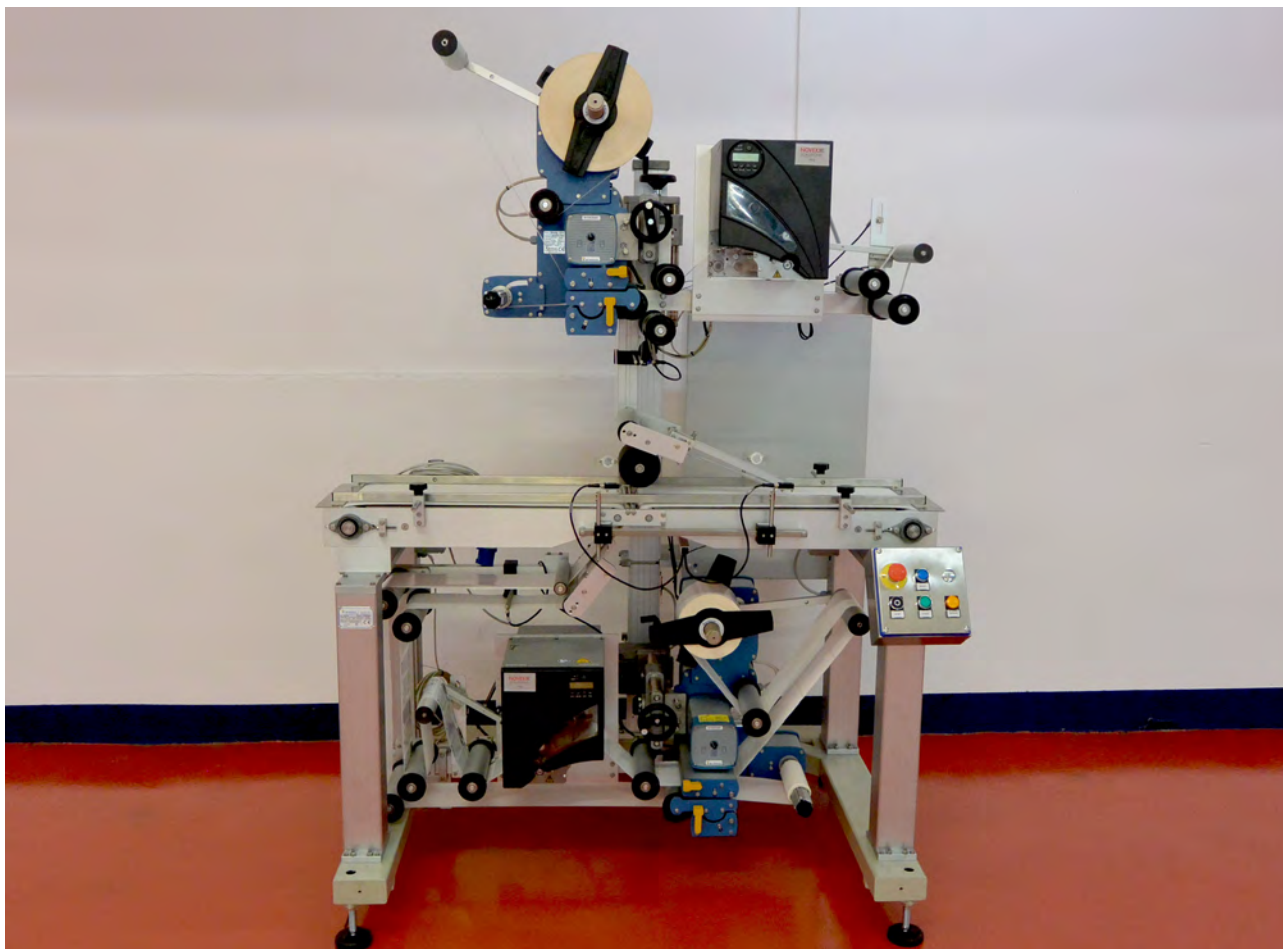
## SECTORS

✓ PACKAGING

✓ FILM

✓ LABELLING





To allow precise and secure data printing on labels, the system integrates two industrial printing modules PEM 6" by Novexx Solutions equipped with "ribbon saving" mechanism and able to cover a printing width up to 160 mm with a 12 dots/mm (300 dpi) resolution. The printing unit located in the upper labelling station is dedicated to variable data overprinting on the smaller label. The printing unit located in the lower labelling station is programmed to print the graphic layout, together with variable data overprinting.

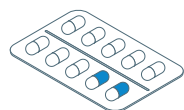
In order to obtain the perfect application on the particular package, the system uses two start photocells that allow the correct and reliable detection of the packaging by correctly managing the transparency, while a roller applicator acts on the irregular surface of the product by flattening it to facilitate the label application.

The system is included among the Sistema 4 series, which comprises a range of automatic labelling systems for the application of pressure-sensitive labels on the top and bottom of products. These systems are configured as small, self-sufficient labelling lines that transport and label the product, either off-line or connected to other packaging machines such as filling and thermoforming machines.

[www.etipack.it/en](http://www.etipack.it/en)







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# IFP PACKAGING, PACKAGING, SHRINK WRAP PACKAGING TECHNOLOGY



**I**FP Packaging has, for more than 25 years, provided a strong reference point for shrink wrap packaging technology. Since it joined the Tecno Pack S.p.A. group in 2011, it has embarked on a new path of technological, commercial, and industrial development.

The company produces continuous electronic packaging machines that are built on entirely cantilevered structures and guarantee high performance, operational reli-

ability, sanitation, and project customisation.

Automatic loading systems, shrink wrappers of every size, and complete end-of-line equipment are entirely customised by the technical office in order to adapt every product to the specific needs of the client.

Meanwhile, the company has sturdy and versatile packaging machines on the market, built in series, with an excellent quality-price ratio. With IFP Packaging, every format finds its perfect packaging, with solutions ranging from





controlled atmosphere to high speed, all the way to the most advanced automation, while always guaranteeing the best possible result.

IFP Packaging machines are able to package, preserve, and protect all food products, wrap technical articles (even large formats like mattresses and radiators), create and contain groups of bottles or jars, give boxes a shiny and invisible skin, and guarantee the correct number, weight, and quantity within every package.

#### **DIAMOND 650 2 Belts**

Diamond 650 2 Belts is IFP PACKAGING's new model of horizontal electronic packaging machine for single layer film, **characterised by the latest generation of technology and electronics, a cantilevered structure, and outstanding performance.**

Diamond 650 2 Belts is the product of cutting edge design which has made it possible for a high performance, professional, and durable machine to meet the requested target price, lending itself, with the utmost versatility, to becoming a product that is suitable for small enterprises as well as big industry, capable of packaging single products with or without a tray and using shrink-wrap depending on the requirements.

Its cantilevered structure and the accessibility of its parts simplify all maintenance and cleaning operations, and the plastic roll that is loaded in front of the operator facilitates its operability. The model is available in painted or stainless steel versions.

The range of sizes and the continuously rotating heat-sealing system make it possible to package both short and long pieces, like, for example, piping or unstable objects.

Equipped with a standard motorised conveyor belt, it offers the possibility of packaging multiple packs to-

gether, in a line or side-by-side. Its production capacity is 60 ppm, with the additional option of automatic loading.

The version with an integrated shrink-wrapping tunnel is particularly interesting and ready to be inserted in automatic processes such as line packaging machines.

The option of having the machine configured from right to left and from left to right allows a single operator to control two machines at the same time. The touch screen makes it possible to save up to 200 different programs, with the possibility of applying motorised changes in format between different packaging needs.

Finally, the time that elapses between installation and starting the process is kept to an absolute minimum thanks to the series of practical and easy-to-understand tests provided by the company.

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## SECTORS

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 **BIOMEDICAL**

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# MINI MOTOR WIRELESS TECHNOLOGY: COA – CAN OVER AIR

New patented technology named COA is bound to become a reference in the sector

**M**ini Motor was established in 1965 and took its present company setup in 1974 strongly orienting its production to **electric motors** for industrial sector. Starting with metal and electricity, its know-how was further extended to **electronics** and **IT technology**, and between the end of the 70s and the beginning of the 80s, its background was further developed with industrial automation and mechatronics, strategic traits and inherent part of Mini Motor's DNA since its foundation.

## **Research, development, and innovation: COA – Can Over Air, Mini Motor new wireless technology.**

In 2012, Mini Motor started new design renewal and R&D path by introducing drives on gear motors and servomotors, followed by design and development of an extensive product range that would continue for many years to come. At the same time, the company was also committed to different types of fieldbus, analogic firstly (Canopen and Modbus), and the evolved bus Ethernet secondly (Profinet, Ethercat, Powerlink and Ethernet IP).

All that let to considerable saving in terms of wires and support chains, and especially to more efficient control boards by delocalizing drives directly on the motors. After this phase, in 2018 the company focused on a new, ambitious, and exciting project: doing something more for machinery overall saving.

From this work **COA – Can Over Air** was created.

Mini Motor has studied a proprietary wireless bus on ZIG-BEE technology on 2.4 Mhz, which enables driving a motor wirelessly by simply sending information through a coordinator provided by Mini Motor, which creates a real transparent wire to remotely control all changeover or speed variations, and torque. This new patented technology named COA is bound to become a reference in the sector, as wires used to be. The code number of the new range will have the prefix "W" and this letter can be applied to all Mini Motor integrated drives of Series DBS, DR and FC-Fast Change for highspeed changeover.

Mini Motor has always a step into the future. Let's join in this innovation path!.

[www.minimotor.com](http://www.minimotor.com)



Fast Change

**SECTORS**

**AUTOMATION**







**GSP 50 S**  
electronic horizontal  
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*general system pack*

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# GSP - PACKAGING MACHINES AND AUTOMATIC PACKAGING SYSTEMS

**G**eneral 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**

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](http://www.gsp.it)

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

## SECTORS

✓ FOOD

✓ BIOMEDICAL

✓ HARDWARE



# 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.

Visit:

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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

 **FOOD**

 **BIOMEDICAL**

 **HARDWARE**



# EXPERTISE AND RESEARCH OF THE BEST RAW MATERIALS TO GUARANTEE A HIGH QUALITY PRODUCT

**S**tella Maris was born in 2014 in Canosa di Puglia, from the desire of a young woman, Vanessa Garofalo (graduated in Pharmacy and mastered Cosmetics at the University of Ferrara, Cosmast). The faith in her possibilities, the certainty of her personal skills and the audacity of the ambitions lead Stella Maris to be an always growing industry in cosmetic production.

Stella Maris guarantees high quality, thanks to GMP ISO 22716:2007 certification. This is a non obligatory certification, but Stella Maris wanted and obtained it in 2016, yet, to guarantee high quality of its production and its products.

Strengths are expertise and daily research for the best raw materials to guarantee a high quality product and that respects determined standards. Start point for the birth of a Stella Maris signed cosmetic is the choice of raw materials: these are selected and chosen from the best suppliers, and are the foundation for the product's creation.

Stella Maris idealizes its path getting inspired by great realities, and that's why it is made from a synergic team made of professionals, to leave nothing approximated.

Professionists of the team study every situation in a slavish and scrupulous way. Actually, with the help of computerized logistic management system and the use of innovative tools and machinery, is able to optimize the productive process, making Stella Maris efficient and professional, able to operate on all the Italian and foreign territory in a competitive way.

Stella Maris realizes and produces every cosmetic product for third parties, guaranteeing and satisfying its own client requests. There's a strong attention to the client's needs, since the first steps, so that all the client requests can be satisfied.







## SECTORS

✓ COSMETIC

✓ PRODUCTION





Every cosmetic is formulated and produced following the customer instructions in terms of ingredients, texture and perfume. Stella Maris offers the opportunity to develop a personal cosmetic brand, following its customer from the formula studies to the finished products.

Stella Maris is always looking for innovative methods and quality to define productive standards and tends to the pursuit of higher quality levels.

Passion and determination are what push Vanessa Garofalo and the Stella Maris' team to recreate every day new ways to reinvent itself and get better, studying solutions that can help every client and meet its problems.

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## RESEARCH INTO SUSTAINABLE PACKAGING: THOUSANDS OF WAYS TO REPLACE PLASTIC

**Sustainability – as a corporate value, driven by consumer awareness and the need to preserve planetary resources – has become a topical trend for companies in all areas of business, engaged in researching innovative solutions. The food and beverage industry is no exception and has come up with a number of possible solutions aimed at reducing the use of plastic.**



a cura di  
**Elisa Crotti**

**S**ustainability as a business philosophy also embraces the world of packaging, where the great challenge lies in replacing plastics, whose characteristics and properties are difficult to match in other materials. The research laboratories of leading international companies are therefore presenting and perfecting innovative, if not ground-breaking solutions, which have been presented at Anuga FoodTec 2022 in Cologne.

Driven by growing market pressure and consumer awareness, the food and beverage industry is orienting its packaging choices towards renewable raw materials and recyclable materials, leading them to replace







traditional packaging with more contemporary solutions. Many producers are attentively evaluating the possibility to replace plastic, in favour of renewable fibres or alternative materials. It goes without saying that across-the-board solutions do not exist; quite the contrary, each proposal needs to be adapted according to the philosophy “a container for every content”. In this case, more than ever before, personalization is the keyword.

Wherever possible, composite films or plastic trays are being replaced by mono film or cardboard. This requires new generation modular machines, based on intelligent robotics and automation, to process both traditional and new sustainable packaging.

Some solutions are already available on the market and there are companies which, showing a high degree of flexibility, have been able to offer avant-garde solutions, for instance in the ambit of sparkling beverages.



## SECTORS

 PACKAGING







ages and beer, where films and plastic rings have been replaced by cardboard alternatives, and these are processed without causing delays in productivity or poorer performances. Then there are the flowpackers which process both conventional composite films, with hot-cold sealing, and recyclable or paper-based films. Here the key challenges consist in maintaining the efficiency levels of the machines, since it is certainly more complex to work with paper-based film: paper is more susceptible to tearing and wrinkling; it is stiffer and requires special attention during processing to prevent stoppages. Furthermore, it is abrasive and may therefore damage the mechanical parts of the machine in the long term. For these reasons, the latest generation flowpackers must be designed to handle such criticalities, perhaps by contemplating more resistant or protected surfaces.

Another aspect of great significance regards the contact with foodstuffs: the more complex and perishable the food, the more difficult it is to find valid alternatives to plastic, which must be researched in the ambit of bioactive materials. In this case, one strategy consists in covering the paper utilized with safe waxes and natural proteins, and with organic-based additives. Some interesting results have emerged: on one hand, the proteins act as a barrier against oxygen, and the waxes against vapour, which prevents such foods as fruit from losing too much moisture. On the other hand, organic-based additives perform an antioxidant and antimicrobial action, which improves the preservation and shelf life of the food product. None of which prevents the paper from being collected and recycled after use.

Since sustainability is based on the 3Rs, Reduce, Reutilize and Recycle, another critical aspect is that of reducing consumption. The various solutions are aimed at reducing the quantity of plastic, whenever it is not possible to identify a substitute. Also in this respect, much has been accomplished: thanks to structural innovation, we have succeeded in using from 15 to 40% less plastic for the packaging of tomatoes, berry fruits and stone fruits. After use, these containers may be collected for recycling, destined to become raw materials for further utilizations.

The principle governing this rising trend is that of the circular economy: the circular economy is a generic term used to define an economy that is designed to be regenerative. It is an economic system planned in such a way as to reutilize materials in subsequent production cycles, to minimize waste. To all effects and purposes, this is one of the keys to sustainability.





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Messe  
Düsseldorf  
India



# PMR DESIGNS LABELLERS, FILLING AND CAPPING MACHINES WITH INDUSTRY 4.0 TECHNOLOGIES

**P**MR attends Ipack Ima with several innovative machines: the **Roller Capper**, a machine with a capacity with a hourly production of 6000 pcs/h, adaptable to various types of caps, controlled by brushless motors, equipped with digital panel with tele-assistance and interface to external systems in **Industry 4.0** logic. For this project we also worked on HMI (Human-Machine Interface), developing an ad hoc software capa-

ble of managing the format change, easy and fast, that integrates with business and management systems in smart manufacturing.

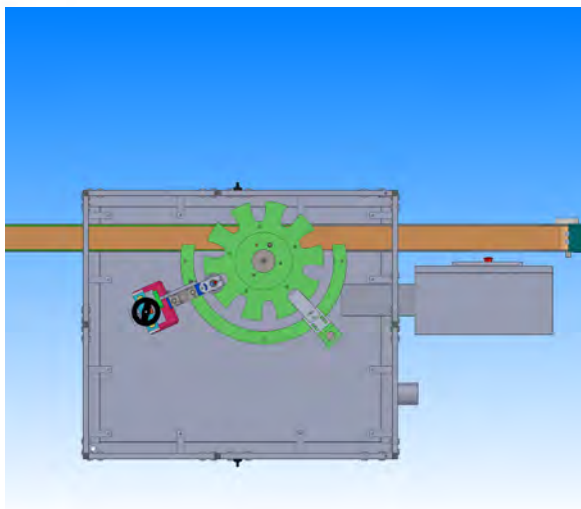
In the exhibition there will also be the new Monobloc **PMR MFC 22**, a machine for filling jars with liquid/dense products and capping with twist-off capsules. The dosing unit consists of an AISI 316 stainless steel pump and a two-



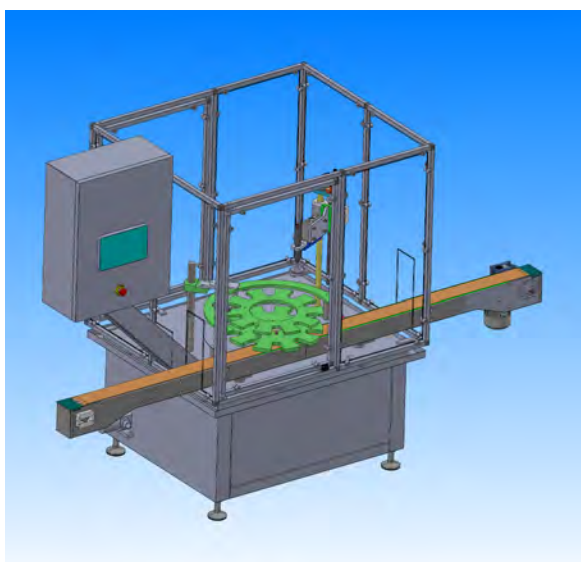
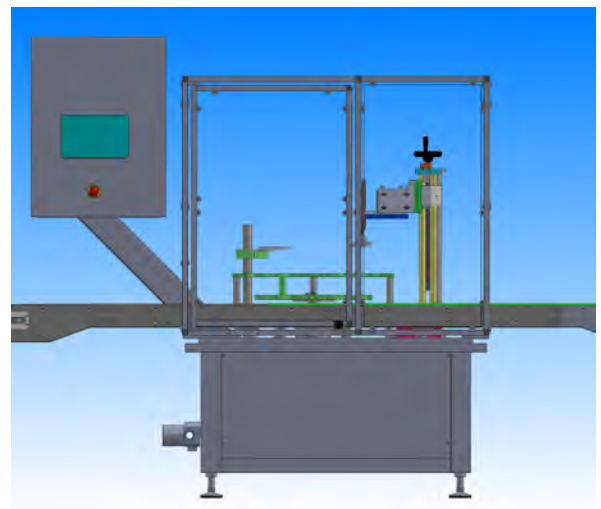




**FILLING & CAPPING LINE**



**PMR MFC 22 MONOBLOCK**



## SECTORS

- ✓ FILLING
- ✓ CAPPING
- ✓ LABELLING



way pilot valve, synchronized to the dosage. The capper has a head with pneumatic motor, with torque adjustment. The system has a capsule feeder, with adjustable descent channel for different formats and capsule presence control device. This machine, with independent operation, can be adapted to the needs of the customer, depending on the product and the container to be packaged.

PMR has been manufacturing packaging machinery for over 50 years and the labellers it offers are distributed all over the world. Among the historical models, now renewed and enhanced, there are: the **M3010 FB** labeller for the simultaneous application of 2 labels, the **M3005 T** for the application of labels on cylindrical, the Robottino for the marking of flat boxes, the **CLASSIC NEW3** and **PRINT & APPLY LM** heads and all table top, semi-automatic packaging systems. The **M3005 V** labelling line for C-shaped label application on trays produces up to 3,000 pcs./h and is a system much appreciated by cheese and fresh pasta producers.

PMR labellers can be used both offline and connected to other packaging machines (e.g. filling machines, thermoforming machines, cappers). In the labelling lines, to allow connectivity to the company network, a hardware expansion, a PLC and a program are installed. This allows communication with the equipment and have various available information; it is also possible to create an integration with the company management.

From a survey conducted by IISole24 ore and Statista, **PMR was among the 200 companies champions of Export 2022**, this thanks to the ability to follow the customer throughout the supply chain, up to the installation which is carried out directly through highly specialized distributors. PMR has adapted to the market with excellent prospects, continued its research and development process, investing in high-performance materials and application software for Industry 4.0.

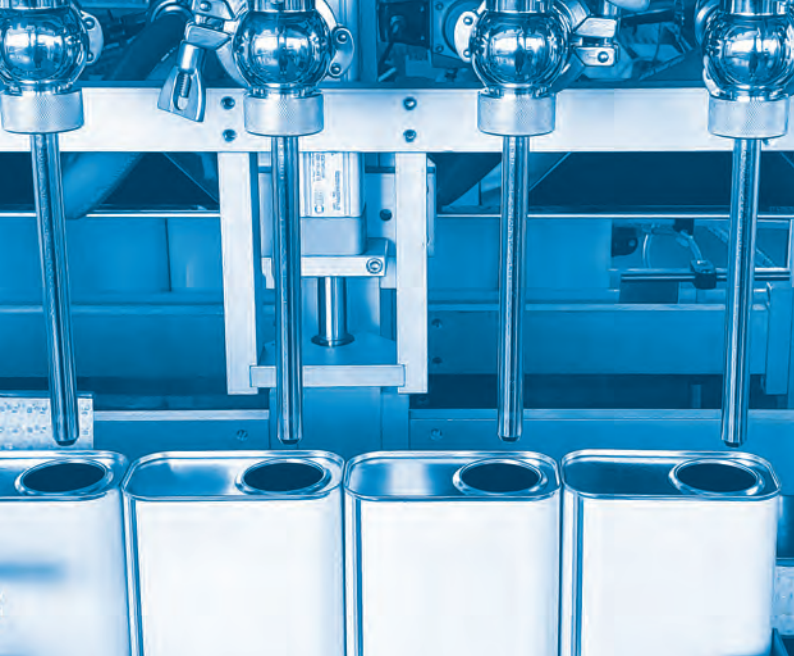
**PMR SYSTEM GROUP attends Ipack-Ima**  
**Pav. 2P – Booth A114**  
**www.pmr.it**



**FILLING • CAPPING • LABELLING**







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FILLING · CAPPING · LABELLING



# COMPACT AND EFFICIENT END OF LINE FOR THE FOOD & BEVERAGE INDUSTRY

**S**MI designs and manufactures bottling and packaging machines with an innovative design, equipped with IoT technology, in order to supply smart solutions for meeting the needs of competitiveness, production efficiency, flexibility, energy saving and easy management of the whole production plant.

At **Anuga FoodTec 2022**, one of the most important international trade fairs for the food and beverage industry, that involves all aspects of the food production, SMI will showcase the latest developments in the packaging industry, resulting from continuous investments in new products and technologies, aimed at providing the users with an appropriate support to face the market challenges. The companies that operate in the food and beverage sector must in fact have a strong business competitiveness and be able to quickly adapt their production lines to the new market requirements. The answer to these needs lies in choosing bottling and packaging machines and systems that are compact, flexible and environmental sustainable, designed for the smart factory and equipped with cutting-edge automation and control systems inspired to Industry 4.0 and Internet of Things (IoT) principles.

Packaging plays an increasingly essential role and for every company it is fundamental to provide large retailers with practical, resistant and eye-catching packs.

The end-of-line solution showcased by SMI at Anuga FoodTec 2022 (**Hall 5.1 – Stand C088**) includes the new **ASW 30 T ERGON** shrink wrapper with single lane infeed and 90° product infeed and the latest **APS 615 ERGON** semi-automatic palletizer.

The combination of these two machines offers all the advantages of an extremely **compact, flexible and efficient** end of line, that allows the food and beverage companies to easily adapt the production according to the changing consumption habits.







## SECTORS

✓ PACKAGING

✓ BEVERAGE

✓ FOOD





### Compact ASW ERGON shrink wrapper with 90° in-feed

In order to automate and optimize the end-of-line secondary packaging process, SMI offers different solutions suitable for every packaging need: from packs in film only, with cardboard pad or tray, to cardboard boxes, to multipacks in overlapping sleeves, etc.

For SMI investments in cutting-edge technology and innovation are the main driver for success in every company. Among the latest innovations in its product range, SMI has introduced 6 new models dedicated to the packaging of different containers with a **cylindrical, oval or square/rectangular base at the maximum output of 30 (ASW 30) and 40 (ASW 40) packs per minute.**

#### The advantages of ASW 30 T ERGON packer

- equipped with a single lane infeed, the ASW 30 T ERGON showcased at the trade fair offers the considerable **advantage**, also in economic terms, of not requiring the presence of **a divider for channeling loose products**
- **the format changeover operations are quickly and easily performed**, as it is possible to process various types of containers, of different sizes, without having to use any additional equipment
- compact solution that easily adapts to the logistical conditions of the end of line of any production plant
- the system with single lane infeed, preferably positioned on the side opposite to the operator, simplifies the cor-

rect channeling of loose products on a conveyor belt equipped with low friction thermoplastic chains

- in the pack formation area a pneumatic device groups the containers alternately before the packaging operation in the desired configuration; this section is characterized by a double belt system, that, by means of an electronic cam, separates the product according to the format to be processed. Subsequently, thanks to a rotary feeder, loose products are moved from the single lane to the multi-lane conveyor at the machine infeed
- the cardboard magazine is positioned under the infeed conveyor; from here the corrugated cardboard pads or trays, taken by means of an alternating motion picker equipped with a group of suction cups with pneumatic vacuum system run along the cardboard ramp and are positioned under a group of incoming products with the long side leading
- the unwinding of the film reels, positioned in the lower part of the machines, is controlled by a progressive brake that ensures optimal film tensioning
- the film splicing at the end of the reel occurs by means of a manual sealing bar. The reel-holder spindles have pneumatic locking and when the film reel is running out, a special device stops the machine.

#### Compact APS 615 ERGON palletizer

The tertiary packaging of food requires increasingly flexible solutions for improving the handling of the containers





and avoiding damages during their handling, reducing the format changeover time in order to quickly adapt the production to the new palletizing patterns and increase the performance with a reduced space.

**APS 615 ERGON palletizing system stands out for:**

- compact and ergonomic structure, that allows a significant space saving within low-speed bottling plants
- the ergonomic and functional structure of the APS ERGON allows the operator to easily and safely perform the activities related to installation, management and maintenance
- use of innovative, smart and customized technical solutions, that offer considerable advantages in terms of operational flexibility and economic competitiveness of the processes
- optimized TCO (Total Cost of Ownership) thanks to low operating and maintenance costs
- high level of flexibility, thanks to the possibility to realize several palletizing patterns, according to the specific customers' needs
- use of cutting-edge technology, that ensures great operational flexibility and possibility to adapt to the needs of format changeover, product changeover and/or plant layout
- the operations are controlled by a user-friendly machine automation and control system, guaranteed by an extremely intuitive graphic interface, by a touchscreen display

play and by POSYC® real time diagnostics and technical support functions

- the electrical panel, positioned outside the safety guards is a different module, that is not unwired during the transport and can be immediately installed at the customer's plant

**Compact and functional structure**

The core of the APS 615 ERGON semi-automatic palletizing system is composed of the structure where the three Cartesian axis system designed for the pallet formation is positioned. This is added to the infeed conveyor, the product picking head and the machine guards.

At the palletizer infeed, the product arrives at the product feeding conveyor and is cadenced by the rubber conveyor. Subsequently, it is brought into the picking position by a distancing conveyor; here the gripping head picks the pack, individually or grouped, and moves it to the pallet on the ground. The cyclic repetition of this operation enables to create several palletizing layers. The picking head is equipped with a motor for the product rotation, in order to place the pack on the layer in the position required by the palletizing pattern. Once the pallet formation has finished, the operator manually removes the full pallet and positions a new empty pallet.

**[www.smigroup.it](http://www.smigroup.it)**



# SÜDPACK AND SN GERMAN POUCH-PACK TECHNOLOGY

present sustainable flow pack concept at Anuga FoodTec

**W**ith the versatile Pure-Line portfolio, based on either PP or PE, SÜD-PACK and SN German Pouch-Pack Technology are coming together at Anuga FoodTec 2022 in Cologne to present a solution that is both innovative and sustainable for the packaging of a broad variety of products in bags. The fully recyclable packaging concept by SÜDPACK will be on display on the rotary form, fill and seal machine FME 50 in hall 8.1 at stand B-049 of SN German Pouch-Pack Technology.

SÜDPACK has further expanded its tried and tested Pure-Line product family, which reflects the spirit of the times – and especially that of the visitors to the trade fair. Here too, in the filling & packaging segment at this year's leading global trade fair for the food and beverage industry, the focus is on automated, cost-effective solutions that also go easy on re-sources and the environment while ensuring maximum product quality. In addition to recyclable mono-materials based on PP, the SÜDPACK port-folio now also includes solutions made of PE. Both film structures offer the properties







that are necessary for efficient and safe packaging, particularly of food products in doypacks. The spectrum of applications ranges from grated cheese to air-dried sausages and jerky, to nuts and snacks and right through to coffee, tea, herbs and grains. Depending on the products to be packaged, the high-performance films can be equipped with different barrier properties. Based on what is needed, the doypacks can be aroma proof and provide optimal protection against moisture, UV radiation or oxygen.

An additional advantage is the excellent machinability of the materials due to their broad sealing range, which results in a high level of process and packaging safety. At the same time, the formation of a sealing layer ensures the simple and efficient in-line application of common zipper systems, which are already available on the market as a PP-based product for flat bags and doypacks.

Last but not least, the Flow Pack Pure-Line can also be printed using SÜDPACK's newly developed and pioneering SPQ printing technology, which is setting standards in flexo printing with its low carbon footprint and was honored with the German Packaging Award in gold in 2021.

### **Flexible and user-friendly HFFS bag packaging machines**

The innovative and particularly sustainable film concept by SÜDPACK will be presented in Cologne on the SN horizontally operating bag packaging machine FME 50. The latest innovation by SN German Pouch-Pack Technology is an affordable, flexible and compact bag packaging machine for forming, filling and sealing three and four side sealed bags and doypacks. Using specifically designed dosing devices, the bags are filled with products of varied consistency and sealed. Without any difficulties or loss in speed or quality, modern recyclable materials such as PurePP or PurePE can be processed with an output of up to 100 cycles per minute.

The energy-efficient FME 50 impresses with its reliable SN technology and provides quick and easy access to the world of flexible bag packaging. It is designed to be a simple and efficient plug & play machine and is very easy to operate. The central gripper adjustment on the rotary table and the optimized height adjustment of the folding wedge contribute to a reduction of format changeover times, which greatly simplifies the operation of the machine.

### **A solution "on the cutting edge"**

Both partners are expecting a great deal of interest among visitors at Anuga FoodTec from all industrial fields because the trend towards particularly resource-conserving, recyclable materials will continue. SÜDPACK is currently faced with increased demand, especially from brand manufacturers: "As a market and technology leader in our industry, we aligned our product and performance portfolio early on to meet the new requirements in the market – and have already demonstrated our expertise in much noted pilot and development projects. We are now in a position to offer our customers solutions that are pioneering in terms of material efficiency, recyclability, renewable raw materials and circular economy," explained Holger Hoss, who as Product Manager is responsible for the flow pack solutions at SÜDPACK.

"The FME 50 allows us to combine customer needs, such as very short delivery times, ease of operation and a high level of quality, with low acquisition costs, and this is very much reflected by the popularity of the model. The fields of application are primarily dry food products, such as bulky goods, powder and granules, but also non-food products and lotions," added Felix Eberhardi, Marketing Manager at SN German Pouch-Pack Technology.

[www.sn-maschinenbau.com](http://www.sn-maschinenbau.com)

[www.pouch-packaging.com](http://www.pouch-packaging.com)

# SÜDPACK



# NEW STANDARDS, NEW TECHNOLOGY

In the recent years we entered the era of sustainable packaging. New procedures and technologies help our market to raise its standards and as packaging machinery designer and builder we implemented new instruments to face new challenges. The need for flexibility, traceability, sustainability and attention for consumers gave us the opportunity to improve our offer.

## Simple and hygienic

Universal Pack machines are built to guarantee the highest hygienic level in the simplest manner. The R&D department has designed and developed automatic CIP systems for cleaning the inner parts of dosing systems. As a matter of fact, these systems ensure the full equipment cleaning without the need for disassembling. These solutions are aimed to reduce machine downtime by providing ready-to-work spare units. All cleaning systems are designed and built abiding by EHEDG guidelines and 3-A sanitary standard.

The next hygienic level available implies Ultra-clean technology, equipped with laminar flow to prevent contamination of the product area by isolating the dosing and forming groups from the external environment. The hygienic proposal is also extended to the packaging: decontamination and sterilization lamps ensure the highest hygienic level of the laminated film.

## Traceability and certifications

We uniquely code every single component, keep full track of it and provide documentation certifying its compliance with Pharmaceutical and Food industry regulations. An essential list includes for instance: certificates of all materials and parts in contact with the product, welding certificates, calibration certificates and parts full traceability. The provision goes beyond the latter certificates for proving the components quality and compliance, as it stretches to further documents concerning the line construction and effectiveness. The list goes on with IQ (Installation qualification), OQ (Operational







## SECTORS

✓ PACKAGING

✓ PHARMACEUTICAL

✓ FOOD







qualification), PQ (Performance qualification), FDS (Functional design specifics), HDS (Hardware design specifics) and Risk analysis, FAT and SAT ad hoc protocols.

#### **For the planet**

Our non-stop research in reducing the packaging industry carbon footprint resulted in streamlined machinery design for packing recycled, recyclable and compostable laminates. LCA (life cycle assessment) is used to measure the environmental impact of our products and identify optimal ways to reduce it. It is a 360° analysis that goes beyond the mere packaging produced and involves every step of the packaging machinery production process. We develop our solutions shoulder-to-shoulder with the main global film suppliers and test them in agreement with major multinational companies in order to provide them with a turn-key solution able to produce eco-packages.

#### **Universal lab**

Over 30 years of scientific research. Our in-house laboratory was built to always ensure the most sustainable and efficient packaging solution. The research in Universal Lab allows us to optimize machine design, efficiency and reliability by studying the most significant properties of products and newly developed laminates. That's why we are ready to pack any product using the latest eco-laminates

in the market and always looking out for the development of new materials.

#### **The company**

Universal Pack is an international reference in the field of packaging. The company has over 50 years of experience in designing and building vertical machines and complete automatic lines for packaging single dose products for the food, pharma, chemical and cosmetic industry. It is present in over 150 countries and has installed more than 8000 systems. It offers cutting-edge solutions for any type of package: stick-packs, sachets sealed on all four sides, shaped packs and cartons.

**[www.universalpack.it](http://www.universalpack.it)**







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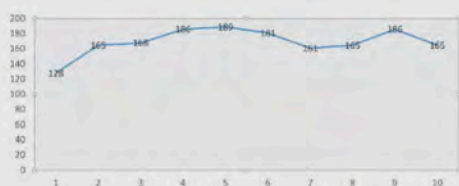
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# ALPHAMAC AIMS TO REDUCE ELECTRICITY CONSUMPTION

**A**lphaMAC has developed its range of blow-molding machines starting from the knowledge acquired from the previous experiences of two generations of electric machines and presents itself on the market with a very advanced technology regarding consumption.

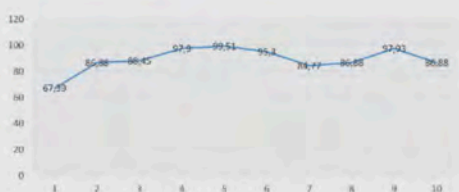
One of the most current and important aspects with the evolution of technologies in the field of extrusion and blow-molding is certainly the reduction in electricity consumption, obtained thanks to the conversion of the motion from hydraulic to electric. Begun in 2006, this transformation has led today to have extremely reliable and repetitive machines, reducing drastically the maintenance linked to hydraulics (about 65% less), also eliminating the environmental impact linked to the periodic disposal of oil, and with a greater flexibility in process regulation, having many more controllable parameters available.

## 1. ABSORBED CURRENT IN A



Average current absorbed: **167.2 A**

## 2. INSTANT POWER IN KW



Average power: **88.038 kW**







an IMA Group Company



## SECTOR

✓ PACKAGING

✓ AUTOMATION

✓ FOOD - NO FOOD



The surveys carried out on machines in production confirm that the average electrical consumption achieved is much lower than it was on hydraulic machines, in particular when the machine is used at its maximum capacity if we consider the consumption per kilo of extruded plastic.

In fact, the most important part of consumption is linked to the heating of the resistances that keep the extruder and extrusion head at the set temperature, regardless of how many kilos the user transforms.

In a practical case, we can see how an ALPHA 800D machine, with double station, has an extremely low consumption.

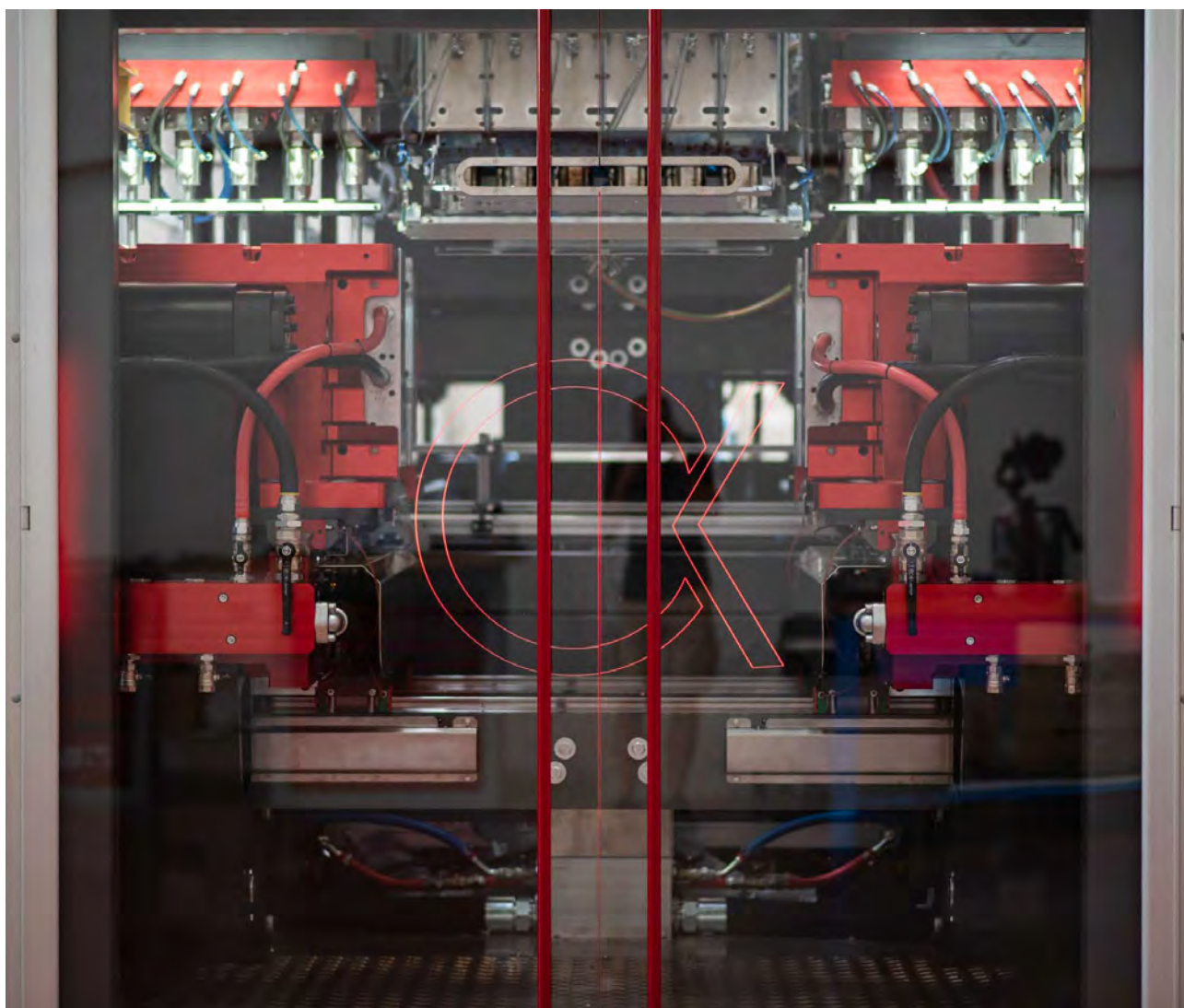
From the tests carried out and from what has been detected by the actual consumption of the machine, the average hourly consumption at standardized drive is equal to 65.2 kW/h, which reported to the number of extruded kg/h (287 kg/h) correspond to an average hourly consumption of 0,23 kW/h/kg.

In addition to the reduction in actual electrical consumption, the energy savings due to a lower use of chilled water necessary to cool the hydraulic power units of obsolete machines must also be considered. This saving can be conservatively estimated for about 1/3 of the actual consumption of a chiller that supplies water for an equivalent bottle production.

Finally, AlphaMAC favors cooling technologies aimed at significantly increasing the water flow rate in favor of a higher water temperature, a solution that offers further savings from an energy consumption point of view for mold cooling.

This result confirms the construction quality and technical choices of the ALPHA series machines, thanks to the use of the highest quality and latest generation components, reinforcing AlphaMAC position on the market as an innovative company focused on sustainability.

**[www.alphamac.it](http://www.alphamac.it)**





# Best seller 2020-2021 AlphaMAC



## ACCESSIBILITY AND SAFETY

Optimized design for a greater accessibility from both sides, with easier and safer mold changing and maintenance operations.

## COMPACTNESS

Compact floor occupation with just 2,2x4,6 meters in the 600 mm stroke version.

## MAINTENANCE

Alpha ZERO is almost maintenance free due to the absence of bobbing and the centralized lubrication.

 **ZERO**  
alphaMAC

[www.alphamac.it](http://www.alphamac.it)

# DUETTI PACKAGING: THE COMPLETE RANGE OF MACHINES DEDICATED TO PACKAGING

**D**uetti Packaging with decades of experience, designs and manufactures complete lines for the automation of secondary packaging.

The high level of personalization in the solutions, ensures that the individual requirements of each and every customer can be met.

The expertise of the technical and commercial staff allows us to identify and develop the most effective decision to streamline packaging operations for end-of-line and logistics.

The production of Duetti Packaging includes the complete range of machines involved in packaging, with connections and data interfaces with other parts of the line, both upstream and downstream.

The range of equipment starts with depalletizers, to take empty containers and feed them to the filler and then further down the line Duetti Packaging, with its cartoning machines takes back control of the containers which can be bottles, (both glass and plastic), canisters or jars and inserts them in preformed cases that can be later closed by adhesive tape or hot melt glue.

Duetti packaging next can palletize boxes, cartons, shrink-packs, trays, crates with a wide selection of machines available from the production range with all modes of automatic palletizing possible, i.e.: Cartesian, gantry, sweep (high & low level) as well as industrial robots.

From the palletizer we go to automatic pallet wrapping with rotary table, rotary arm, ring stretch-wrappers or hooding machines all available.







**Duetti**  
packaging



**SECTORS**

✓ **PACKAGING**

✓ **AUTOMATION**





### 1\_DEPALLETIZERS

traditional and robotic depalletizers

### 2\_CARTON ERECTOR

form and seal the carton lower flaps with hot melt glue or adhesive tape

### 3\_PICK & PLACE

vertical, lateral, wrap-around, robotic, monoblocks(form, fill and close)

### 4\_CLOSING UNITS

carton sealing with hot melt glue or adhesive tape

### 5\_PALLETIZERS

traditional and robotic palletizers

### 6\_STRETCH-WRAPPERS

rotary table, rotary arm, ring stretch-wrappers, hooding

### 7\_AGV SHUTTLES

Automatic Guide Vehicles for pallets

### 8\_AUTOMATED WAREHOUSES

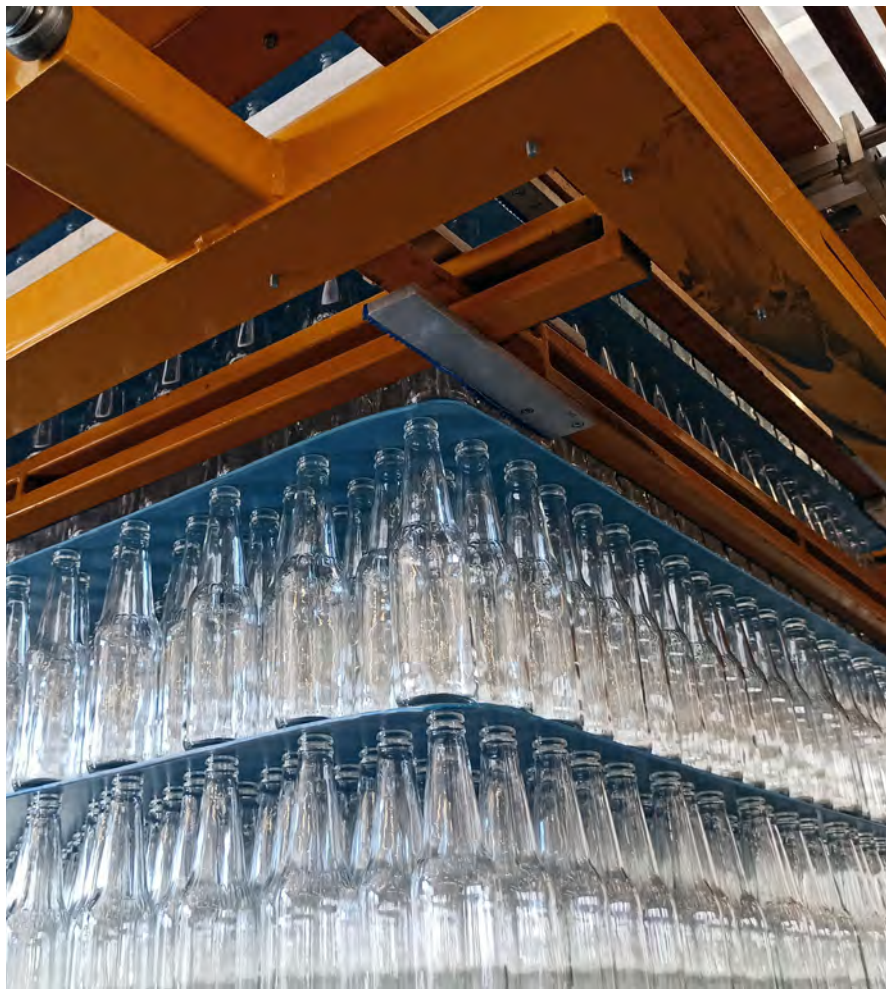
automated warehouse and picking solutions for multiple pallets

The wrapped pallet is not necessarily the end, as options exist to transport pallets with Duetti Packaging shuttle car systems and range of AGV/LGV models automatically to the warehouse without the need for forklifts or operators, the same systems can be used for feeding stacks of empty pallets to palletizers or placing the pallets on the ground.

Duetti packaging management software can ensure traceability and warehouse operations with integration with a company management system.

In the end when the product needs to be stored in the warehouse Duetti Packaging, in partnership, can provide automatic warehousing as well as picking/depicking solutions for multiple pallets.

**[www.duettipackaging.com](http://www.duettipackaging.com)**



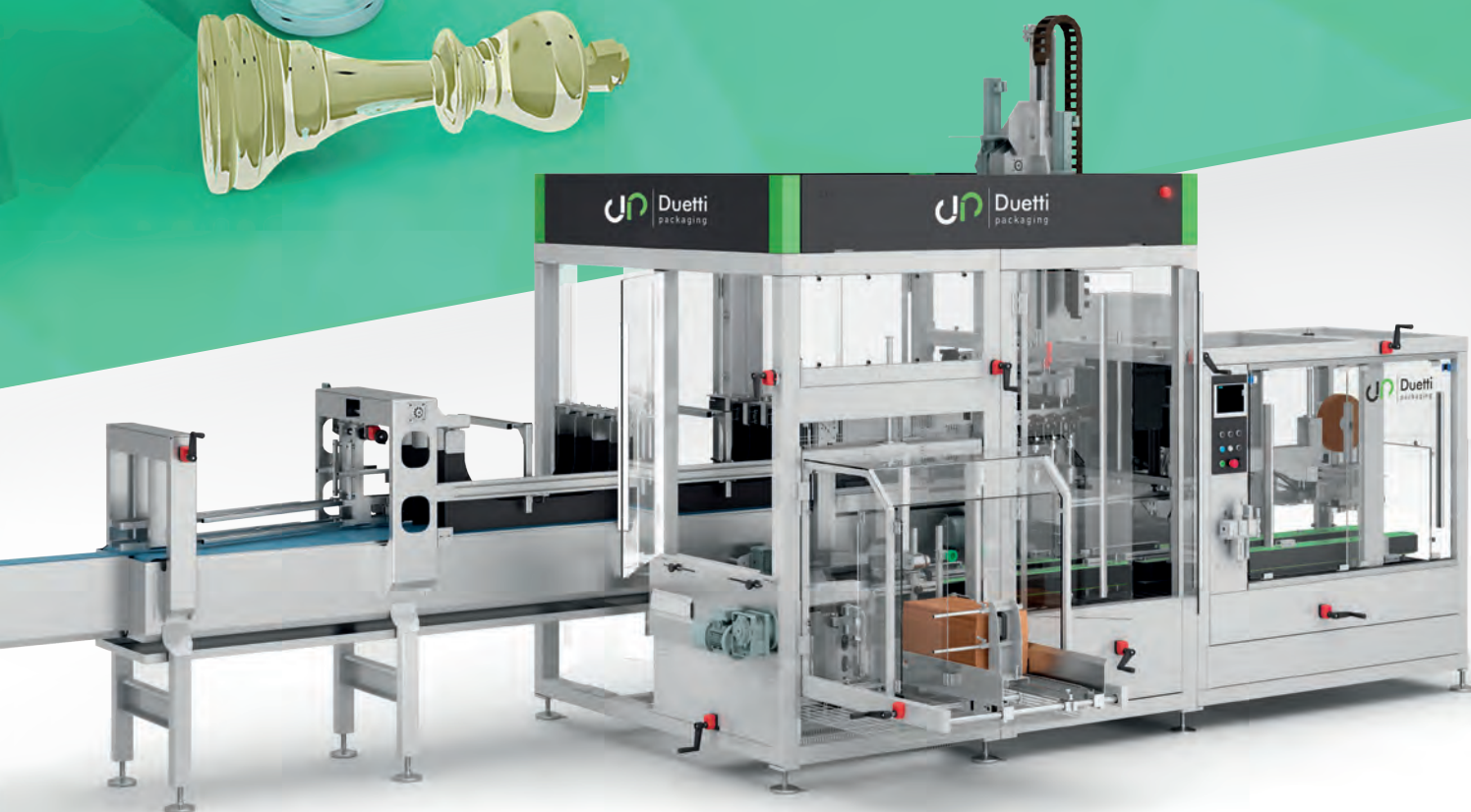




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Tel. +39 049 9471274 [sales@duettipackaging.com](mailto:sales@duettipackaging.com)



# PREMIUM LITHO PRINTED PACKAGING FOR CORRIGAN'S ORIGINAL

**A**t Saxon Packaging, we are specialists in litho printed packaging solutions and understand perfectly the many benefits they can bring to a business. Having the right packaging in place can help to raise brand awareness and provide a valuable platform for promotion and communication to customers. Litho printing is the most premium print process for packaging and can help to position a product as a premium choice in the market. That is exactly the reason why, when Corrigan's Original approached us for their latest product packaging, we knew litho was the way forward.

## About Corrigan's Original

Corrigan's Original comes from humble beginnings, after its founder, Howard Corrigan, launched the brand from a kitchen in 2018. He and his team wanted to bring an

exciting new drinks product into the market, and their vision was a family-friendly soft drink, developed from their previous experience in the wine industry.

They came up with a delicious soft drink product and needed the perfect packaging to launch their new product and showcase its originality and premium stance. The Corrigan's Original team reached out to our Saxon Packaging team after finding us on Google in February 2021 and went on to place their first order with us in July.

## The Packaging Challenge

The Corrigan's Original team came to us with a brief for two 12 x 250ml can packs, and they needed packaging which was strong and sturdy, whilst also being bright to stand out from the competition. Their vision







was drinks packaging which had an amazing shelf presence, showcased their fun brand perfectly, and also kept their products safe and secure inside. This was Corrigan's Original first experience running a can packaging enquiry from start to finish, and we were keen to make it a smooth and positive one.

Our team suggested the use of an EB flute board for ultimate strength, while still being cost-effective. The Corrigan's Original team used their own design team for their artwork, which featured bright colours and bold botanical print illustrations. In order to make this beautiful design truly stand out, our Saxon Packaging team recommended a litho printing process and a matt laminate finish. Litho

printing offers the highest quality finish and the cleanest colours, helping to position the product as a premium option in the market.

During the time of the order, Saxon Packaging encountered challenges faced by many other businesses still operating during the Covid-19 pandemic. Despite the strains put on our teams, we made every effort to reduce the impact on the client. Thankfully, with help from our planning and production teams, we managed to deliver Corrigan's Original's order safely and efficiently.

The finished litho drinks packaging solutions were an overwhelming success, and are now being used across wholesale, cash and carries, and in various retail stores around the country. Corrigan's Original were delighted with the finished packaging, particularly the premium feel and branding made possible by litho printing. Corrigan's Original products are now being rolled out in British Airways Lounges, The Langham Hotel Group, Oakman Inn, and the ETM Group.

"Working closely with Corrigan's Original was a great experience. Whilst the covid-19 pandemic presented its challenges throughout, we were still able to produce two fantastic looking examples of litho printed drinks packaging. I'm delighted to learn that both of these boxes have been a great success for Corrigan's Original and look forward to continue to support them as they continue to grow". – Sam Ball, Internal Sales Co-ordinator at Saxon Packaging.

"It was great working with Saxon Packaging. I found the team extremely helpful and professional despite the challenges we all faced during COVID-19. I am really pleased with the look and feel of the boxes and have had many great comments from customers and prospects. I look forward to working with them in the future on the packaging for my new flavour, which is due in late May." – Howard Corrigan, Co-founder & Director of Corrigan's Original.



# 50<sup>TH</sup> ANNIVERSARY – FACCA PACKAGING COSMETICS

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



**W**e are proud to announce that we are celebrating this year the 50th anniversary of Facca 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 Facca 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. Facca 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](http://www.facapackaging.com)

## **SECTOR**

 **PACKAGING**

 **PERFUMERY**

 **COSMETIC**







# THE **PUMA** MANIFESTO

working together to the end of packaging as  
an environmental issue worldwide







# THE PUMA MANIFESTO

## WHAT IS PUMA?

PUMA is the collective effort of the packaging business community to end packaging as an environmental issue worldwide.

## WHAT IS PACKAGING?

Packaging is the activity of temporarily integrating an external function and a product to enable the use of the product.



*Waste essentially is an unwanted by-product of a (manufacturing) process*



## WHAT IS NVC?

NVC Netherlands Packaging Centre was established in 1953 to stimulate the knowledge and expertise in packaging. Since then, we have grown into an association with over 500 member companies in the Netherlands and abroad. The packing-filling (FMCG) industry, packaging manufacturers, retailers, manufacturers of packaging machines, wholesalers, recyclers, designers, even a number of financial institutions: they all are members of the large and vital NVC business family. The NVC membership, innovation projects (like PUMA), information services and education programme stimulate the continuous improvement of packaging worldwide.

## WHEN IS PACKAGING AN ENVIRONMENTAL ISSUE?

Environmental issues are harmful effects of human activity on the biophysical environment. Waste essentially is an unwanted by-product of a (manufacturing) process. The activity of packaging creates environmental issues when the resources involved, either wanted or unwanted ('waste'), constitute an environmental issue.



*Environmental (planetary) problems caused by us, People, can – and will – also be solved by us, People*



## WHY DO WE HAVE TO ACT NOW?

Packaging has been with mankind already since ancient times in some moderate form, but the 20<sup>th</sup> century has brought a dramatic acceleration. The world 'does it' now at least 320,000 times per second and this is causing substantial environmental concerns. Packaging will only keep it's societal licence to operate if these concerns are properly addressed.

## ABOUT THE MANIFESTO

This Manifesto outlines the way forward to end packaging as an environmental issue worldwide. It consists of the PUMA Model to describe the essentials of the packaging activity and its relation with the resources involved. A conceptual roadmap is presented to be applied by every individual actor and the world packaging community as a whole in a self-organising manner. Key elements are open-minded sharing of reliable information, continuous knowledge development and truly holistic innovation. Environmental planetary problems caused by us, People can – and will - also be solved by us, People.



*Packaging will only keep it's societal licence to operate if the environmental concerns are properly addressed*





# THE PUMA MODEL

## THE VOCABULARY

First, PUMA defines the activity of packaging: temporarily integrating an external function and a product to enable the use of the product. There is no Law prescribing that we must do it (packaging). For instance in recorded music, streaming services like Spotify show that we can live without. If we decide to engage in the activity of packaging, the pack-use-empty (verb) spiral P-U-E is a consequence. This results in emptied packs later in time and at a different location. Waste is defined as an un-wanted effect of a (human) activity. Consequently a collect-control step must be built-in, followed by a postulated backend (BE) process step. Mirror-wise, a frontend (FE) step is required to obtain the necessary packaging materials. Philosophically and thermodynamically and in terms of information science, the situation at the backend is fundamentally different from that at the frontend. Both processes may be described in terms of converting, though.

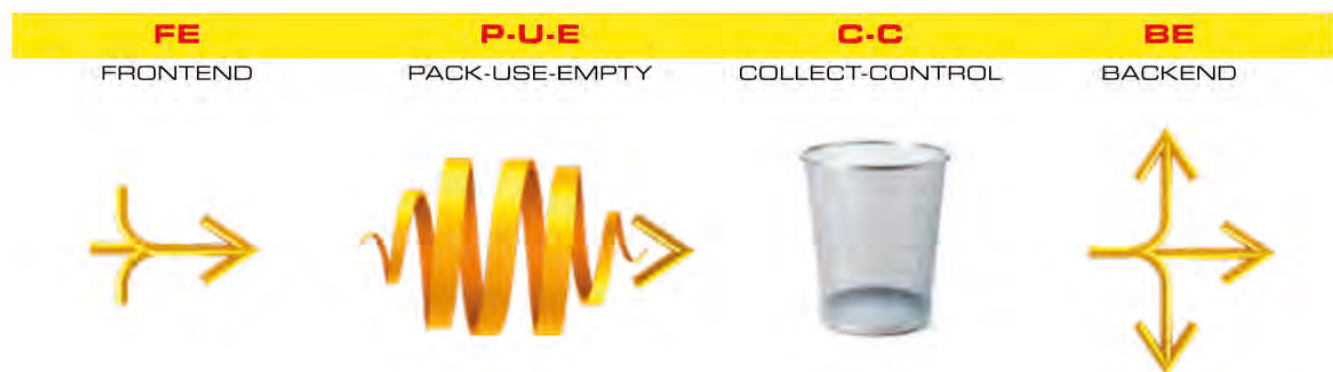


*Holistic innovation is needed as we are all interconnected in packaging*



## ADDRESSING THE ENVIRONMENTAL ISSUES

Environmental issues may come and go, depending on the many different interactions between our human activity and planet earth. Whereas the PUMA model remains unchanged, its application to environmental issues may vary in the course of time. In this first edition of the PUMA Manifesto we focus on litter, CO<sub>2</sub>, and (inadequate) pack optimisation. These three issues are deemed to be the most important in the current environmental packaging debate. The resulting table serves as the basis for addressing (future) environmental issues adequately.



	FE	P-U-E	C-C	BE
Litter			✓	
CO <sub>2</sub>	✓			✓
Inadequate pack optimisation Product Packaging material + Total environmental impact				
Future issues	✓	✓	✓	✓

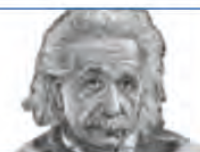




# SUPPORTING PUMA



*Success comes from deeper understanding and supplementing earlier insights*



## I SUPPORT THE PUMA MANIFESTO AND HEREBY PLEDGE TO:

- ✓ Reference the PUMA Model as an insightful source to address the activity of packaging worldwide
- ✓ Apply the vocabulary as used in the PUMA Model and positively contribute to possible improvements
- ✓ Contribute to the PUMA annual plenary meetings to the best of my capabilities
- ✓ Make my decisions and base my opinions on the state-of-the-art in packaging (i.e. on reliable, verifiable and up-to-date information) and using all information and knowledge that is brought to my attention
- ✓ Stimulate continuous education and training of those with a responsibility within the activity of packaging
- ✓ Contribute to helping facilitate all phases of PUMA (FE, P-U-E, C-C, BE)



*Everything flows and so does the activity of packaging;  
we can put a clock back, but not the time*



## MY DETAILS:

Company name

Initials and surname

Date of birth

Address

Phone

E-mail

**For an overview of recent references and background information worldwide please visit [www.nvc.nl/puma](http://www.nvc.nl/puma)**



# UFLEX ANNOUNCES CAPACITY EXPANSION IN PACKAGING FILMS

**N**oida: **UFlex Ltd**, India's largest multinational flexible packaging company and a global player in polymer sciences, today declared its financial results for the quarter ending December 2020. With packaging becoming a lifeline in the battle against COVID-19 pandemic, the company has successfully supported customers and consumers with packaging solutions in the past quarters. The company witnessed a surge in demand for multiple lines of businesses while also adding newer clients. The company posted strong growth numbers with **Consolidated Net Profit surged by 89% YoY to INR 159.9 crore.**

## **UFlex announced domestic and international expansion for its Packaging Films business in the results.**

Speaking of the capacity expansion, **Rajesh Bhatia, Group CFO at UFlex Limited** said, *"The highlights of this quarter are commissioning of the brownfield BOPET film line in Poland with a capacity of 45,000 TPA. The trial run for our BOPP plant in Hungary and BOPET plant in Nigeria have already commenced and both the plants are expected to be commissioned soon. In India, we have not expanded the capacity of Packaging Films since the last 16 years and are now setting up greenfield BOPET and CPP lines in Karnataka to meet the growing demand. We are also expanding outside India with plans to set up brownfield CPP film line at our UAE plant that will add a production capacity of 18,000 TPA."*

**Ashok Chaturvedi, Chairman & Managing Director, UFlex Limited** said, *"UFlex has played a pivotal role in providing packaged products to the end consumers during the pandemic. In line with our vision to go glocal and serve the last mile with our best-in-class innovative and sustainable solutions, we are scaling up our international as well as domestic operations. Driven by a robust order book and consistent market growth, we are doubling the manufacturing capacity of our Aseptic Liquid Packaging plant in Sanand."*

The earlier capacity of the group's Packaging Films plant in Poland was 30,000 TPA and with an additional 10.4 meter wide BOPET line of 45,000 TPA getting commissioned,

**FlexFilms is the largest BOPET manufacturer in European Union.** In India, the current capacity of Packaging films line with BOPET, BOPP, CPP put together is 92,000 TPA. **The new lines to be added in South India will have a cumulative production capacity of 63,000 TPA. The UAE plant that** currently houses a BOPET line with capacity of 22,000 TPA, **will have an additional capacity of 18,000 TPA once the CPP line is commissioned.**

**In Q3 FY 2020-21, UFlex also introduced a range of new products and solutions across its business:-**

## **FLEXIBLE PACKAGING BUSINESS**

### **Matt finish 3D Pouches Packed with Value-added Features :**

UFlex developed six variants of matt finish film based 3D pouches to pack coffee beans for Al-Fanoos Coffee in the Saudi Arabian and Gulf markets.

The BOPP, PET, PE structure pouch holds myriad features such as 3D design for shelf impact, Hot Stamp to prevent from counterfeiting forces, Slider Zipper that promotes re-usability at the point of consumption, a Breathing Valve that allows excess gas to exit from the pack such that packed contents remains fresh for a longer duration, a See-through Window on the side, and a Side Handle that allows easy carriage.

With all these features packed in, this pouch is a perfect combination to add value and convenience to brands as well as consumers.





- Expansion in India with set up of greenfield BOPET & CPP plant in Karnataka
- New CPP Line to be set up in UAE
- Commissions BOPET Line in Poland ~to become the largest BOPET Manufacturer in EU ~ Introduces a series of solutions across businesses

**Easy Tear Laminate for Sanitizers:** With the demand for sanitizers and disinfectants still booming due to Co-



rona virus scare, the vertical developed two variants of easy tear laminate for I2Cure BioShield Lotion

that allows easy dispensation of alcohol-free sanitizer. With the lotion being Halal certified, it has been receiving a lot of interest from Middle East, South Asian and Indian markets.

**Jumbo Bags for Proamino-T Poultry Feed:** The jumbo bags for packing poultry feed are one of the few bulk bags in non-woven format with high tensile strength and weather resistance. The bag that is developed for Indian market offers durability and convenience of carriage with safety, despite its capacity to carry mass quantity.



**R&D Successfully Commercialised Many of its Solutions:** The R&D team of Flexible Packaging business works closely with many brands to offer them bespoke solutions besides constantly creating new solutions based on market research. With its extensive findings, quite a few of the innovations were successfully commercialised:

- Easy to peel strength pouches for PS Kona WB Coffee in which the peel strength has been customized with regulated opening force.
- Paper foil based laminated film for packing seasoning mix for Kroger Ranch Salad Dressing & Seasoning Mix.

- Replaced PET in EVOH based BOPP film structure to make it a recyclable Monopolymer laminate for Purina Dog Chow PET Food.
- Special PET + PET based retort pouches replaced previously used oriented nylon for packaging of pre-cooked rice for TJ Morris. The replacement in structure has led to cost saving for the brand.



## ENGINEERING BUSINESS

### A New Variant of Secondary Slitter Developed:

UFlex introduced 'ACCU ECOSLIT 30', a secondary slitter with a capability to slit 3000 meters wide web powered with a capacity for slitting into six ups with a speed of upto 800mpm, making the company the only Indian Manufacturer to engineer such a kind of machine.



### A Machine that Seals the Bag and its Counterfeiting Challenges:

In some markets, pouches and bags are stitched after filling of product making it vulnerable to counterfeits as it is easy to unstitch, replace the product and stitch back the pouch for retailing. To fix this issue, UFlex has developed a Bag-Sealing machine 'WS 535' that replaces stitching with sealing. Moreover, this all-in-one bag sealing machine fits many applications, laminate



structures & bag dimensions and delivers clean seals and enhanced look and feel of the bag/pouch to the customers.

### CHEMICALS BUSINESS

**Alcohol-based Dual Purpose Sanitizer:** Continuing its expansion of product portfolio to fight Covid-19, UFlex launched dual purpose alcohol based hand sanitizer 'FLEXGUARD-I' that contains Isopropyl Alcohol IP-75% V/V and complies with WHO guidelines. This skin-friendly sanitizer can be used to clean hands as well as surfaces and is being supplied via bulk distributors for commercial purpose.



**Patent for New Process to Derive Epoxy Ester Resin** - UFlex secured a patent for a new process to derive Epoxy Ester Resin following the provisions of the Patents Act, 1970. This is the first patent for Chemicals business ever in India and will ensure technical advancement in providing a process for resin preparation without the need for waste water treatment, a significant move in the direction of sustainability.



**Solvent based PU Adhesive for Velcro Application** - The vertical developed a solvent based two components PU adhesive that is specially designed to provide

stiffness to Velcro after application to hook & loop fastener. Its best use is in orthopaedic, apparel and footwear industry segments.



### Water-based Oxygen barrier Coating for Food Packaging Application:

UFlex launched a water-based oxygen barrier coating 'FLEXCOAT UF0008' for food packaging to achieve oxygen barrier properties on BOPP and CPP films. This coating provides extended shelf life to food packed and is suitable for use in snack packaging segments like noodles, potato chips, cookies, etc.



### HOLOGRAPHY BUSINESS

#### Holographic Aluminium Lidding Foil for Pharma Industry:

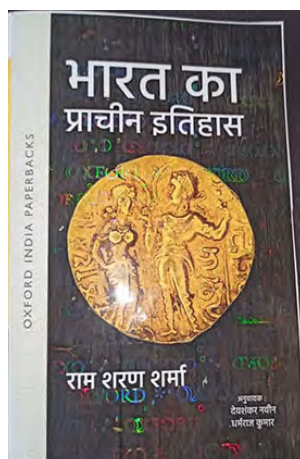
In order to arrest the counterfeiting threats in pharma sector, the vertical developed robust anti-counterfeiting solution through holographic aluminium lidding foil commonly used for blister packs. The holographic foil has overt features which are easily recognizable to the end user. The foil also allows use of covert features on this solution lending authenticity to pharma company drugs.



#### Holographic Thermal Film for Books & Publication:

The Publication Industry is one of the worst victims of counterfeiting where duplicators impinge sales by undercutting price and damage authentic brand reputa-





tion. In order to address publications' concern, an eco-friendly transparent holographic thermal film was developed for lamination on book covers that besides protecting it from counterfeiting, also boosts the aesthetics with excellent gloss on book, enhances cover transparency and fosters good bond strength.

**Holographic Film for Ghee Packaging:** Ghee is a part of daily consumption in every household and is highly prone to counterfeiting. In order to fight the menace of duplication, UFlex has developed a customised Holographic Film for outer carton packaging replacing the use of plain metalized film laminated cartons for a prominent ghee brand thereby



helping differentiate pure ghee from the fakes. Anti-counterfeiting features are engrained in this film's design, such that it not just prevents it from counterfeiting but also offers a unique look to the carton and adds shelf impact.

## CYLINDERS BUSINESS

**Rotogravure Printing Cylinder for Watermark on Steel Sheets:** UFlex manufactured watermark printing cylinders on steel sheets by its state-of-the-art laser engraving line making the company the first Indian manufacturer to achieve this feat. This process has been a challenge in the past as the pigments of steel sheet paint are substantially different in size and shape as



compared to conventional gravure inks, therefore rotogravure printing on metal substrates was critical and that too with minimum depositions effect required for watermark. The customization of cell geometry (in the form of a hexagonal honey comb cell structure) of the rotogravure cylinder on direct

laser engraving line is the task here as the pigments of the steel paint inks have a tendency to get stuck inside the cells of the engraved cylinder (cell filling). This

breakthrough will be beneficial for brands and will enhance the products' image.

## ABOUT UFLEX:

UFlex is India's largest multinational Flexible Packaging materials and solutions company and a leading global player in Polymer Sciences. Since its inception back in 1985, UFlex has grown from strength to strength to evolve as a truly Indian Multinational with consumers spread across the world. UFlex today has state-of-the-art packaging facilities at multiple locations in India with installed capacity of around 1,35,000 TPA and has packaging film manufacturing facilities in India, UAE, Mexico Egypt, Poland, Russia, and USA with a cumulative capacity of 3,81,000 TPA.

Integrated within its core business of Flexible Packaging & Packaging Films are allied businesses like Aseptic Liquid Packaging, Engineering, Cylinders, Holography and Chemicals which further gives UFlex a superior edge over competition. UFlex offers technologically superior packaging solutions for a wide variety of products such as snack foods, confectionery, sugar, rice, other cereals, beverages, tea & coffee, dessert mixes, noodles, wheat flour, soaps, detergents, shampoos, conditioners, vegetable oil, spices, marinades & pastes, dairy products, frozen food, poultry, anti-fog, pet food, pharmaceuticals, contraceptives, garden fertilizers, plant nutrients, motor oil, lubricants, automotive and engineering components etc.

All UFlex plants are accredited with ISO 9001, 14001, HACCP & BRC certifications. UFlex caters to markets spanning across the globe in over 140 countries like USA, Canada, South American countries, UK and other European Countries, Russia, South Africa, CIS, Asian and African nations. Some of UFlex' clients on the global turf include P&G, Nestle, PepsiCo, Coca-Cola, Mars Wrigley, Tata Global Beverages, Mondelez, L'Oreal, Britannia, Haldiram's, Amul, Kimberly Clark, Ferrero Rocher, Perfetti, GSK, Agrotech Foods, Johnson & Johnson amongst others.

UFlex is a winner of various prestigious national and international awards for its products, technology and process excellence from renowned organizations like Dow, AIMCAL, FPA, WorldStar WPO, Packaging Europe Sustainability Awards, SIES, IFCA, PrintWeek and more. UFlex became the 'first company in the world to recycle mix plastic waste' for which it earned recognition at Davos Recycle Forum in 1995.

[www.uflexltd.com](http://www.uflexltd.com)

# ALTECH PRESENTS THE LATEST INNOVATIONS IN THE LABELLING AND IDENTIFICATION SECTOR

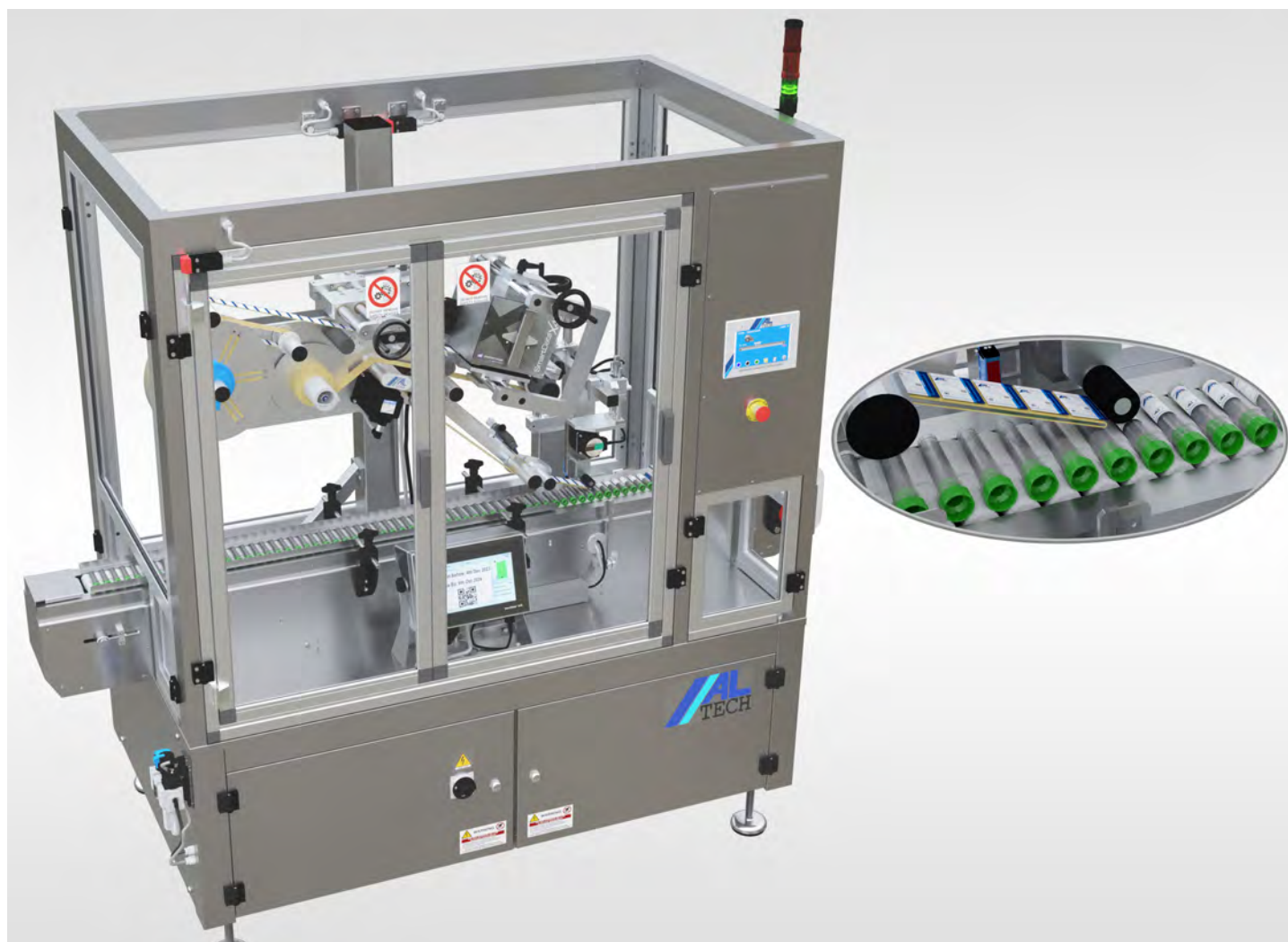
**A**fter two years of enforced closure, 2022 will see the resumption of trade fairs with physical attendance in the packaging sector as well. ALTECH is enthusiastically preparing to attend Ipack-Ima, which will be held at the Milan-Rho exhibition centre from the 3rd to the 6th of May.

Ipack-Ima is a trade fair specialised in materials and machinery for processing and packaging, and has become synonymous with technological innovation and international attendance. ALTECH, specialised in the design and production of labelling machines, will be in attendance, showing off its most recent innovations in the material

identification and labelling sector. Attendees will be able to get their hands on the company's latest products at **Stand C25, D26 in Hall 4.**

More specifically, visitors will find the following new products on display:

- An ALLine E/C linear system for **front-back** labelling of flat and elliptical bottles. The system on display will be equipped with a special feature – an electronic system able to change between formats on the machine simply by bringing up the recipe on the display, relieving the operator of the need to make most mechanical reg-







**ALTECH will be present presenting  
the most recent innovations  
at Stand C25, D26 in Hall 4.**



## SECTORS

- ✓ FOOD
- ✓ BEVERAGE
- ✓ COSMETIC
- ✓ CHEMICAL
- ✓ PHARMACEUTICAL



ulations. This new system is not, however, a spectacular idea developed only to amaze attendees, but is actually a device which can already be ordered from the range of available options for ALline labelling systems.

- A newly designed ALcode P system, able to **print and apply labels to pallets** at multiple positions and heights. The system, which will be exhibited as a concept, is based on a programmable robot arm which offers exceptional flexibility, and can be easily reprogrammed to satisfy a multitude of pallet labelling requirements.

The ALTECH stand will also feature numerous other machines representative of ALTECH's selection of labellers,

from the range of labelling heads (recently overhauled, and also **available in industry 4.0 version**) and the AL-code print/apply series, through to a system for labelling food trays and a wrap-around labelling system for vials and syringes. All systems will be exhibited fully operational, as per ALTECH tradition.

[www.altech.it](http://www.altech.it)







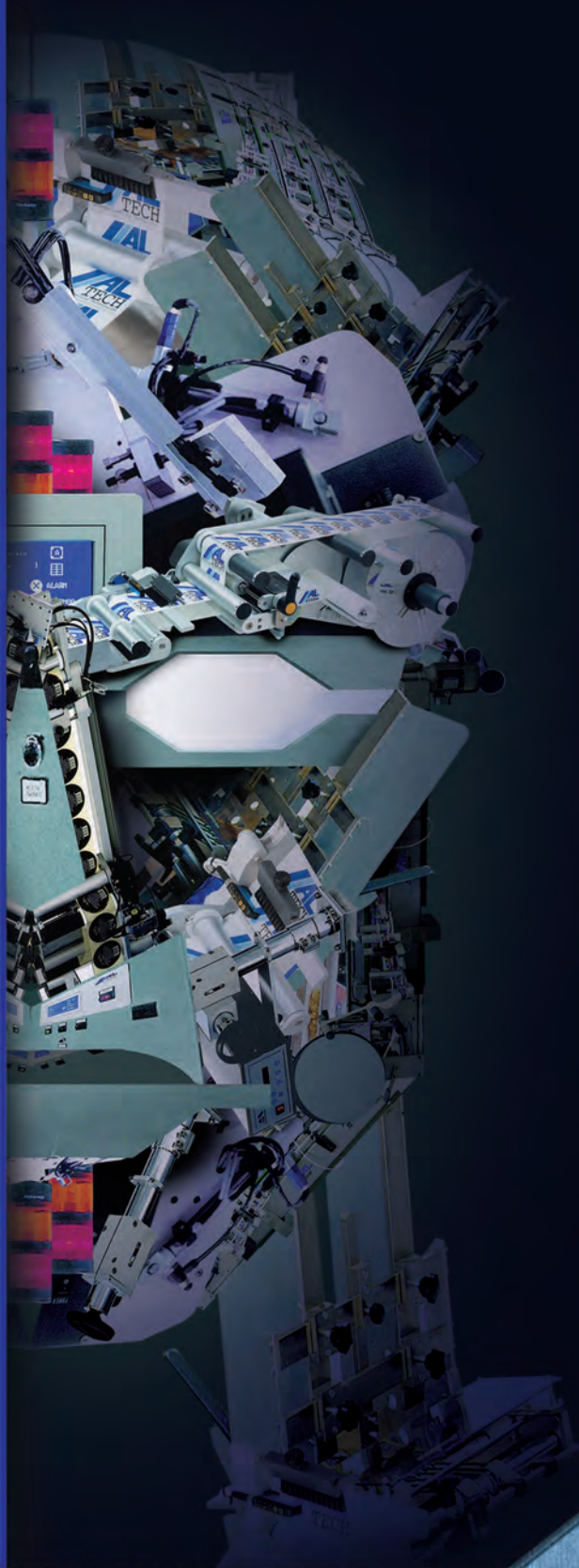
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FIERA MILANO RHO - ITALY  
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Visit us at  
**Hall 4 - Booth C25 D26**





# FULL DATA CAPABILITIES = MAXIMUM BENEFITS... BOTH SIDES OF THE SALE

**D**igitalisation at device, machine, plant and enterprise level is completely re-writing the rule books in terms of how companies can function and operate in the era of Industry 4.0.

Today, the most powerful resource in any engineer's toolbox is operational data. How companies then exploit this data may subsequently define their standing within an industry as well as drawing the line upon which success and failure are based.

Data-based smart operations are defining a new paradigm in just about every industry. But to many, Industry 4.0, the Industrial Internet of Things (IIoT) and digital transformation are just buzz words. To really understand their potential, you have to appreciate the impact that data and connectivity have, and witness some of the incredible results of their effective deployment – in both real-life and virtual applications.

In today's modern landscape, smart factories rely on four core capabilities:

- Digitisation of processes and methods
- Smart components
- Enhanced communications (Industrial Internet of things)
- Real time interactions between Cyber-physical systems and humans

In combination, these will ultimately boost return on investment, through top line growth, a reduction in bottom line impact and overall risk mitigation. This is achieved by giving all stakeholders access to the information they need, when they need it in a form suited to their role, in order to help make their roles and outputs more useful and more accurate for those next in line – from the initial marketing of a product all the way through to its ongoing remote maintenance. The core message is about creating value!

For a class leading machine builder, such as Cama, aspects of Industry 4.0 provide an immense array of opportunities to not only create internal value,







# Cama Group's Massimo Monguzzi and Filippo Aspesi look at modern machine design in the light of Industry 4.0 and how it benefits both OEMs and end users in equal measure



## SECTORS

✓ PACKAGING

✓ BEVERAGE

✓ FOOD



but also external value, which has a direct impact on its customers' operations and bottom lines.

From a purely business perspective, Cama's customers are looking for:

- Higher throughput
- Faster time to market
- Shorter and less frequent downtime, and
- Quicker changeovers between batches/products

But to achieve all of these, machine builders have to balance the capabilities of real-time digital systems with the physical demands placed on the mechanics within machines.

Only with an intimate knowledge of application engineering and a real understanding of its own technology, can a machine builder hope to build the perfect synergy between the two. This is where Cama excels.

Filippo Aspesi, SW and Automation Manager at Cama, explains: "We have to sell the concept that Industry 4.0 capabilities offer a way to create value at different phases of a project and in different ways, but it is not a thing that you can sell alone. At Cama, it is a holistic approach that adds value to machines and projects for both us and our customers, and it has to encapsulate the whole project, not just small elements. It's all in the way we make them work together for mutual benefit."

Cama splits its Industry 4.0 capabilities into four primary pillars:

- Digital Twin & simulation, virtual commissioning
- Digital Twin & augmented reality
- Smart devices, connected machines and system integration
- Edge computing, data analysis and connectivity

"These four pillars certainly give us the value that we at Cama require from digitalisation," adds Massimo Monguzzi R&D Manager at Cama, "but since these apply 99% to customer projects too, the added value is also there for the customer to exploit."

Looking at the pillars individually, the goals for Digital Twin & simulation, virtual commissioning include:

- Advanced tools for marketing and sales
- Estimate and demonstrate performance of complex systems
- Minimise projects risks through preliminary feasibility studies, and
- Reduced development time for SW programming and commissioning

These are achieved using a number of approaches. Digital Twin technology allows engineers to see machines in action before any fabrication has commenced. They can predict issues, improve flows and iron out any bottlenecks before final design is signed off. The digital twin and pro-







cess simulations can also be shared with marketing and, of course, with the customer and then exploited for virtual commissioning and FAT procedures.

Expanding on this, the augmented reality capabilities of digital twins (the second pillar), give operators the ability to overlay machine schematics and animations, along with instructions and information essential for training, improving operations, undertaking tooling changeovers and performing guided maintenance activities, with the core goal of reducing downtime to an absolute minimum.

The next pillar, smart devices, connected machines and system integration, provide the real operational value for the customer. The goals of this include:

- High-level line performance monitoring
- Production data collection
- Recipe and orders management
- Product traceability

By offering full connectivity from field level, through control, supervision and management levels, all the way up to the enterprise, seamless data flow allows companies to make instantaneous line-side decision and modifications, based on real-time operational data. Connectivity at device level is essential for this to happen. These components are closest to the action and although small, can often have – and make – the biggest impact.

Smart devices can help to:

- Reduce machine stops for undetected anomalies
- Reduce downtime for batch changeovers using RFID and tracking technology
- Reduce human factor and serious consequences

- Quickly identify machine failures or environment changes
- Avoid setup or adjustment errors, and
- Simplify change of damaged or defective devices

The associated fieldbuses upon which they run are also vital, which is why popular standards such as I/O link, Ether-Net/IP and PROFINET are used.

Smart devices also deliver the capability to embrace the capabilities of edge computing – the fourth and final pillar. “We are working on edge computing to create an additional layer between the machine (control) layer and the factory (supervisory layer),” explains Monguzzi and Aspesi. “This allows customers to aggregate output from the field level and turn it into data that delivers more significant information to the higher levels. This segregation of information can be exploited for both security and intellectual property purposes as well as being used to collect historical information for analytics and trend reporting, where the data can be collected in historian packages for shift and day-based analyses, to spot trends and anomalies.”

In all cases – and supporting all four pillars – data is the core component! Without operational data and seamless data paths, industry 4.0 and the IIoT would simply not exist. By completely digitalising all of its machines, operations, and processes, Cama not only makes its own procedures far more streamlined, efficient and cost effective, but the same technology allows it to pass these benefits and additional digital capabilities on to its customers. It really is the prodigal win/win situation.

[www.camagroup.com/digital-manufacturing/](http://www.camagroup.com/digital-manufacturing/)



# AIRLESS COSMETICS

The airless bottle is a solution that completely isolates cosmetics from the air, to ensure better preservation and performance. A breath-taking modern technology.

**P**lastic bottles for cosmetics have been on the market for some decades now, and their application is growing constantly. They are so practical, safe, and versatile that they come in an infinite variety of formats, colours, and standards – we see them on store shelves all over the world, from large-scale distribution to ultra-luxurious showrooms – and they have met with great success, with numerous operators of the packaging industry investing in research and development.

One interesting result deriving from their considerable efforts is the “**airless**” **dispenser**, an alternative way to contain and preserve cosmetics.

## An airless technology

From the outside there isn't a great deal of difference between a normal bottle and an airless one, apart from the fact that the latter normally and almost always dispenses at the top through a suitable pump sprayer for the content. Inside, however, **the technology is completely different**.

In fact, the airless bottle uses a **non-pressurized mechanism, consisting of a pump and a double-chamber container**, separated by an internal piston, thanks to which the product never comes into contact with the air or, consequently, with the external environment.

Basically, if we were able to have a peep inside the dispenser, we would see that whenever the pump sprayer is pressed down, a piston rises and forces the product upwards, causing it to dispense. In this way, **the bottle “pushes” its contents out**, without any intake of air.

Used for cosmetics, but also for pharmaceutical, herbalist and food products even, this packaging has just one limit: **the nature of the product it contains must be creamy, semi-fluid or slightly viscous**.

## Cosmetics designed to be admired

Thanks to social media, today's consumers assess cosmetics using the most powerful of the five human senses: sight. For this reason, airless bottles would



by **Elisa Crotti**







seem to play a vital role. Quite so, because the product dispensing moment focuses the consumer's attention on texture and its various nuances, to the advantage of the most original choices. Such as the **pleasant surprise of textures that are crystalline, or delicately pink, with pearlescent streaks or a sorbet effect**, in pastel shades or, conversely, in saturated colours. This is one way to enable a perception of the intense rheological research carried out by laboratories.

### Safety

However, airless is not only an aesthetic option. Airless dispensers offer numerous essential advantages for the product and its application, making it a mindful choice.

In the first place, the airless dispenser **completely isolates the product from the air**, and therefore guarantees its perfect preservation. In fact, the absence of contamination enables the percentage of preservatives to be reduced to a minimum (literature reports **a reduction of up to 4 times compared to traditionally packed cosmetics**), since they are no longer necessary. In practical terms, **the container has an impact on the formula it contains**.

**Hygiene** deserves a chapter apart: as well as having no contact with air, neither does the product come into contact with the fingers and skin of those who use it, apart from when it is applied, which, also in this case, prevents any form of contamination.

### The right amount dispensed, without waste

We know that in the case of dermocosmetics, cosmeceuticals and pharmaceuticals, **precision – in terms of the quantity dispensed** – is an essential factor. And airless dispensers have a role to play in this game too. By enabling a precise amount of product to be dosed, predetermined by the formulator who knows its characteristics and nature, it guarantees an optimal and most efficacious use of the contents. Let's consider, for example, a very active and concentrated eye serum, for which – literally – a couple of drops are sufficient to guarantee its action and efficacy. It is difficult to dose such a small amount using your fingers; hence the airless, perfectly calibrated dispenser comes to our aid: press once and the product is ready for use.

This also translates into a **reduction of waste**, even more efficacious because **no trace of the product will remain on the neck** of the bottle or surrounds of the tube (since it is pushed by the pump) and used completely. In this respect, the airless dispenser can also be considered an ecological choice.

A final note regards the dispenser pump, which may assume different shapes associated with its specific use: rounded for massaging the product on the area to be treated, without even having to handle it, blunted to help smooth it out or elongated to apply the product in the groove of a wrinkle.

What can we add? A little big innovation for what would seem to be a simple accessory of cosmetic products. This is exactly the appeal of packaging: its ability to "dress" the product is only the start of the story, the rest still has to be written.



## SECTORS

 COSMETIC

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# POLYRETWIN, THE PACKAGING REVOLUTION IN THE PHARMACEUTICAL AND FOOD INDUSTRY

**A**ndolfi & 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.







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](http://www.andolfi.it)**



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# FE GROUP – YOUR BEST PARTNER IN LABELLING

**T**he 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







## SECTORS

✓ PACKAGING

✓ LABELLING





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?



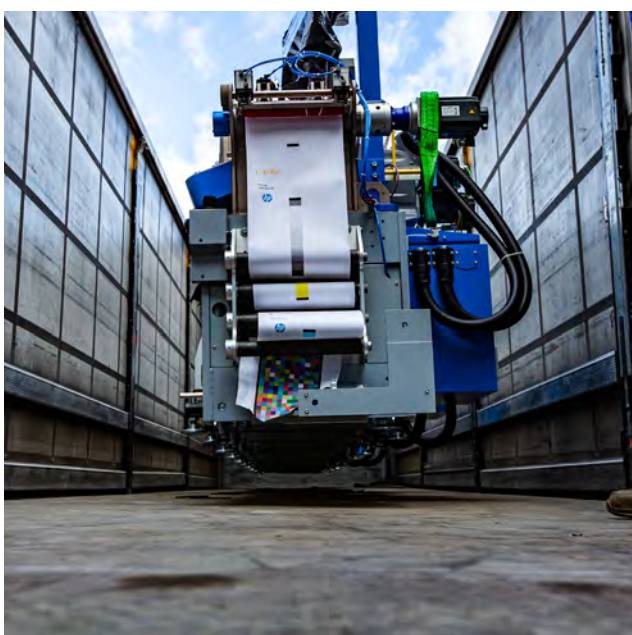


### Find exactly what you are looking for!

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](http://www.fegroup.it)

# ECO&FOOD: MULTIFUNCTIONAL PACKAGING IN DIRECT FOOD CONTACT REALLY SUSTAINABLE FOR THE ENVIRONMENT

## **P**ackaging & Sustainability: what's his Role?

A recent European study commissioned by Pro Carton - the European Association of Carton and Cartonboard Manufacturers - on European consumer packaging perceptions study tells us that packaging has become more than just a container for consumers: it's a recurring opportunity to assess the environmental impact of a brand and it's able to increase the sustainability perception of a product - second only to the production methods aspect of the product itself with almost half of those questioned strongly agreeing that COVID-19 has made us more sensitive to environmental issues.

Packaging stays in the consumer's eye longer than any other marketing tool: often the packaging design communicates the product before its content and creating value and customer trust.

The importance of packaging to the environment is also demonstrated by the fact that six out of 10 Europeans say that the environmental impact of a product's packaging affects their purchasing decisions: almost two thirds say they changed the products they buy because of concerns about packaging.

For this reason, many brands are committing many resources to researching materials and technologies to reduce packaging pollution.

### **Wrap, carry, cook and Eat food**

Thanks to the Know-how on innovative materials and to the study of the market by the R&D Team of LIC Packaging, an innovative corrugated board specific for the direct food contact has been born HT Board, a revolutionary material as nature intended.

HT Board was born from the need and conviction to offer solutions in pure virgin paper not only able to pack food but also to carry, cook and eat food in a single pack.







# HT Board®



# LIC

PACKAGING

Creating innovation, manufacturing solutions.



## SECTORS

✓ PACKAGING

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## 5 HT BOARD DIFFERENT HT BOARD QUALITIES FOR CUSTOM SOLUTIONS

Thanks to this unique material and to the experience and industrialization capacity of the production department, today ECO&FOOD business unit of LIC Packaging designs and manufactures custom solutions to meet the customers' needs belonging to different food sectors and their different product characteristics.

ECO&FOOD Team developed 5 different HT Board compositions that allow to increase and improve both the performance of barrier to fats, oils and liquids in general and as non-stick material.

These features combined with the fact that the paper is by its nature breathable, often greatly reduce the moisture during cooking thus optimizing the process and consequently improving the quality.

It therefore results in a better uniformity and a potential reduction of cooking times.

In the various compositions there is also the choice to use the Grass paper as raw material in the HT Board production with the logic to reduce its environmental impact in the world.

The Grass Paper contains up to 40% of grass fibres and to produce 1 TON of raw material there is a Co2 emission reduction of 75% in the atmosphere, energy savings up to 4500Kw/h and water savings up to 5000L because it takes only 2L. Moreover in the grass fibre production no chemicals are used.

## Recyclable and Compostable

HT Board is totally recyclable in the paper chain according to Aticelca 501/2019 and received the biodegradability and compostability certification according to EN 13432.

## Certified Tests

With a view to selling HT Board packaging especially in the ready meals and take-away sectors which are constantly growing due to the changing customer LIC Packaging has carried out various tests to verify their direct food contact conformity by an accredited laboratory simulating different test conditions in order to assess their correct use and functioning.

The cooking or heating test of food directly inside the HT Board trays were applied to refrigerated and frozen different types of products.

The stress test results were excellent and the trays strength even aesthetically was optimal:

- In traditional oven up to 60' at 220°.
- In microwave oven up to 15 minutes at 900W

## Conclusion

Really Eco-Friendly solutions, performing and food certified: with the HT Board material the ECO&FOOD line reached the goal of being the only cardboard packaging able to enhance food, both preserving it during transport and enhancing its cooking and heating.

The FSC certified raw materials combined with the paper knowledge allowed LIC Packaging to develop this winning project.

[www.licpackaging.com](http://www.licpackaging.com)





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# DEAR COSMETICS PACKAGING, SAY CHEESE!

They also call it “the silent salesman”: packaging is an element of prime importance that greatly impacts the purchase decision. Even more so now that shopping has moved from the shelves to the web, it is a phenomenon that can be encapsulated in the concept of “instagramability”. In brief, packaging needs to be good-looking and photogenic.



by **Elisa Crotti**

**P**ages and pages have been dedicated to packaging in marketing manuals. The wrapping that envelops and contains the product is such a significant aspect of communications that it is rightly considered to be **part of the marketing mix**, meaning the set of marketing levers deployed by a business to satisfy consumers and achieve their market goals. It is so relevant in fact that it is referred to as the “silent salesman”.

The reason for this term can be explained in a few words: all consumers, no matter how naturally rational they tend to be, generally make purchases on emotional grounds and their rationality only kicks in at a later point, mainly to justify an emotional choice. It is not surprising, therefore, to learn to what extent the packaging, the external image of a cosmetic product, can evoke visions, emotions, and dreams, making it more desirable







than others. The consumer is totally unaware of this mechanism, hence the silent salesman concept.

### The right packaging

While thousands of marketing pages have been dedicated to packaging, the truth no one is willing to admit is that there are no universal elements for defining

successful packaging. Whether a certain type of packaging pleases or not is an aspect not only **defined by the historical period**, but also by other elements that inevitably “dialogue” with the pack. First and foremost, **consumers and their personal value system**.

Also of primary importance is **the relationship with the product content**, which is valorised by the pack-



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aging, and even narrated in some cases. Let's take the example of an organic cosmetic product, presented in a glass jar with a bamboo lid: this sort of consistency is bound to be a winner because it inspires consumer confidence. Equally relevant is the **channel** used to distribute the product. To put it in banal terms, if a product with a mass retailing image is distributed through perfumeries and beauty shops, it will probably be a flop. And so on, in a long list of situations in which the risk of something misfiring and the silent salesman becoming hostile lurks around the corner. Finding the right packaging is an authentic art.

Two elements, however, seem to have become constant trends in recent times.

The first of these is a preference for **honest packaging**, devoid of excess. People do not like overpacking, that is, when the secondary wrapping is out of all proportion with the primary container, so much so that it requires extra filler material. Examples of this kind can be found in some women's bathroom cabinets: 15 ml jars of cream contained in 5x12 cm boxes. Ethically and ecologically unacceptable.

The second trend, closely related to the first, regards the clear preference for **sustainable packaging**, whose global market will reach a value of about 440 billion dollars by 2025, with an annual growth rate of 7.7% (survey conducted by the market research company, Research and Markets).

Also, on the grounds of new directives on plastic issued by the European Commission, the cosmetics packaging market will undergo an authentic green revolution: polluting materials will be increasingly replaced by **paper packaging** or made from recyclable or biodegradable raw materials.

## The importance of being noticed

Being noticed has always been the primary vocation of packaging, but the context with which products interact has radically changed. And this brings us back to the topic of the Covid-19 pandemic.

More specifically, while the shelves of a sales point – perfumery, beauty salon, chemist, or herbalist – were until recently the only go-to places for the purchase of cosmetics, today the web has become our virtual shelf.

So, market research has responded by coining the concept of **social packaging**, because instagramability has become an essential criterion in successful marketing strategies, so much so that packaging philosophies have been reshaped to become increasingly creative with a versatile design.

It is superfluous to explain how different it is to design a successful packaging solution for a three-dimensional world, which finds its perfect setting in a 2D world: no longer just the outer wrapping of the item on sale, but the promise of a desirable experience.

Here are some tips for those engaged in designing Instagram-ready packaging, the channel through which consumers will form their "first impression" of the product. The keyword is **minimalism**. "Less is more" is a popular mantra, and particularly true of the web. We consult the web from the screen of a PC or a smartphone, and it makes a big difference when the product image occupies just a few centimetres of space. So, the focus is on transparency: if there's one thing that hardly ever goes out of fashion it's pared-down, monochromatic, and readable packaging, devoid of fuss and frills. We can look to important brands for examples: Gucci, Chanel and Dior lead the way. Not only do they



communicate elegance, but they also stand out clearly when photographed.

Another certainty lies in **pastel shades**, which are perfectly identifiable on a screen, pink especially, officially the web's most beloved colour. If pink is not your favourite colour, it is nevertheless important to identify a colour palette and stick to it, so that you are immediately recognizable and associated with that colour. There are plenty of everyday examples to refer to: what would Coca-Cola be without red?

### The challenge of cosmetics packaging

Designing the “right packaging” on a market that is ever evolving and increasingly crowded is becoming an authentic challenge, on which product success is hinged. In a delicate balance between adaptation to trends and innovation, between what is instinctively pleasing and what stimulates the curiosity, to generate amazement, new packaging solutions are being developed with unprecedented materials, colours, images, and sensorial effects. It is a job for tightrope walkers that awards those who are sufficiently daring.



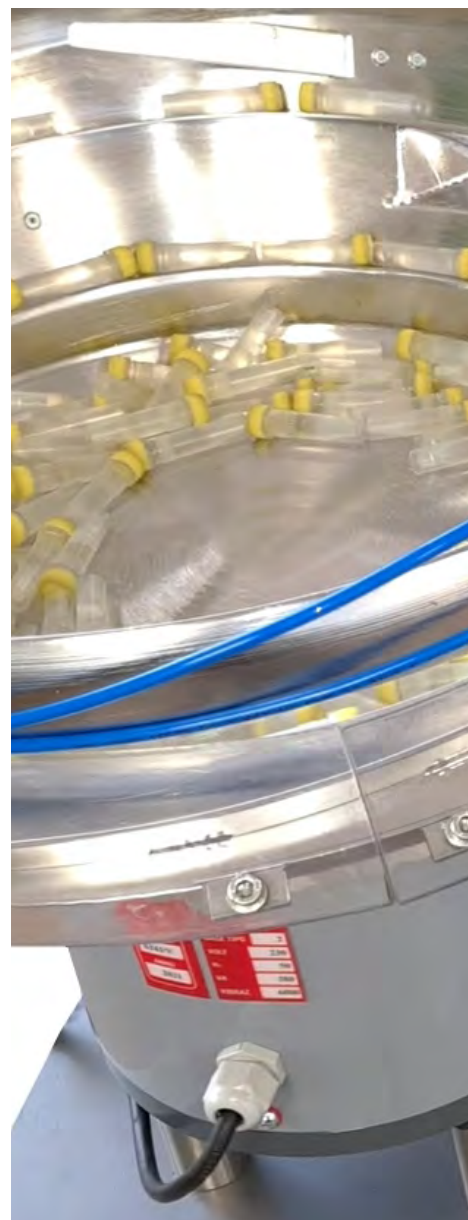
# PACKIN DESIGN AND PRODUCE MACHINES FOR APPLYING SELF-ADHESIVE LABELS

**B**ased in northern Italy, in Desio, in the province of Monza and Brianza is a manufacturer of automatic and semi-automatic solutions, with some patents, for application on various types of products.

One of the focal points that unites Packin equipment is operational simplicity. Always at the center is the operator who, according to the internal design philosophy, must have ergonomic working positions, operational simplicity, easy loading of label rolls, rapid format changes, automatisms, and synchronization of the moving parts with the use of solid innovative technology making everything simple and intuitive to use.

High quality components, abundant use of stainless steel even for all screws, the constructive modularity, lead Packin products to be reliable over time with an excellent quality / price ratio.

Packin has also brought some innovations in the semi-automatic machines sector: the Pk-52 model, a compact and industrial label applicator for round products with diameters between 10 and 100 mm and 160 mm wide. It can apply a wrap-around label or two double-sided labels. Can be connected in-line to the inkjet color printers







# Packin

of the major manufacturers, thus allowing many advantages including complete autonomy in graphics creation with savings on the purchase of stock of customized labels. The label graphics, complete with all the necessary variable data, are managed in real time from printing to application on the cylindrical product in a single step, producing about 1200 pieces/hour.

The Pk-62 model allows labeling of small objects with fall down the product after labeling is finished. It allows runs of about 2500 pieces/hour. The product size limit for this model is 35mm in diameter and 100mm in height.



## SECTOR

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Another patent (from 2012) covered by Packin technology is the semi-automatic printing & applying system for round objects integrated with the thermal printer mod. Pk-50M.

A motorized rotator integrated with some thermal printer models allows to apply labels with variable data overprinting on round products with diameters from 10 to 110mm. and with label passage up to 104mm. Depending on printer type are available at 200, 300, 600 dpi. Productivity is about 1000 /hour.

Packin's automatic in-line labelers, Pk-LINE-Easy, offers compactness, performance, modularity, use of high-quality materials such as brushless motors.

Are dedicated to round products to apply wrap-around, front/back labels, labels in phase with the seal, etc. Possibility to install accessories such as inkjet markers,

photocells for transparent labels, etc. Some different configurations to applying up to 6000 pieces/hour.

Pk-80: automatic applicator for small round objects with a diameter from 10 to 35mm.

The machine is equipped with a product alignment system through a video camera that works in combination with a vibrator.

The products are then loaded onto a ribbon and carried between the rubberized rollers where they are labeled and then ejected downwards where a container collects them.

Productivity of about 2500 pieces/hour in a fully automatic cycle. Possibility of connections to thermal printers, TIJ2.5 inkjet marker.

**Visit:**  
**[www.packin.it](http://www.packin.it)**

# Packin

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# PROSYSTEM - SINCE 1991 TAILOR-MADE PACKAGING TECHNOLOGIES

## High technology meets the attention to detail of Made in Italy

**S**ince 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

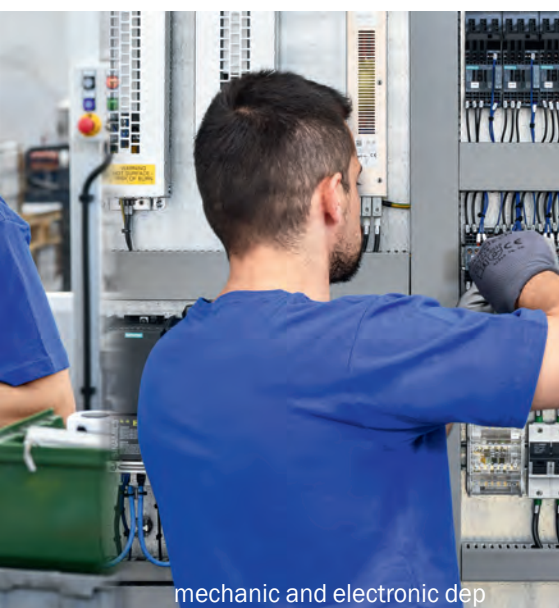
Brizzi, supports her father in the management of the company, with the role of Sales and Marketing Manager of Prosystem.

#### 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](http://www.prosystem-packaging.com)



mechanic and electronic dep

## SECTORS

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



# AUTOMATED PRINT AND APPLY, A MATTER OF CHOICE

**S**electing 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

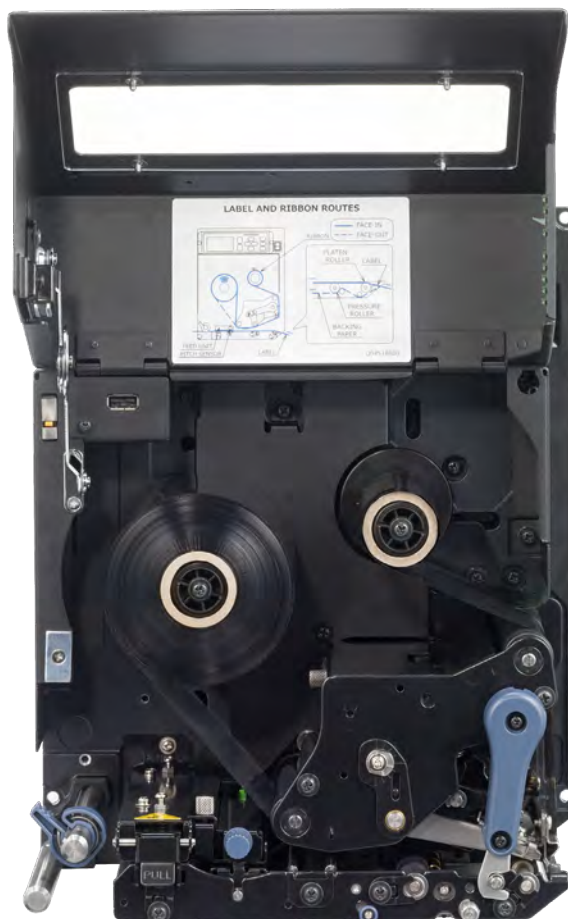
Just like a vehicle engine, there are many elements of the print engine that require scheduled cleaning, maintenance and, sometimes, replacement; components such as the thermal print head or the platen roller. If these items are difficult to replace, or if areas of the printer are not readily accessible 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](http://www.satoeurope.com)



## SECTORS

✓ PHARMACEUTICAL

✓ COSMETIC

✓ FOOD



# FORMAT CHANGEOVERS FOR INSPECTION UNITS IN BOTTLING PLANTS

**I**nto 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.







## 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.”

[www.halstrup-walcher.com](http://www.halstrup-walcher.com)





# MONDI AND THIMONNIER TEAM UP TO MAKE RECYCLABLE PACKAGING FOR LIQUID SOAP REFILLS

**M**ondi, a global leader in packaging and paper, has joined forces with French machine supplier Thimonnier to develop a recyclable packaging that reduces plastic waste.

The companies have created a new packaging for liquid refills that is designed so that it can be entirely emptied. The berlingot sachet is made from a recyclable mono-material, coextruded polyethylene (PE). It not only weighs less but also reduces plastic usage by more than 75% compared to rigid plastic bottles. The refill solution can replace the current industry standard of multilayer PVC refill containers, which are effectively not recyclable.

The unusual shape of the sachet is eye catching and differentiated. The durable and leak-proof solution allows consumers to smell the product inside, a particularly useful feature for the liquid soaps it is designed to protect. The lightweight material also makes it more convenient for customers, especially those who are buying in-store.

“Our goal working with Mondi was to find a packaging alternative with low environmental impact and good runnability. We are pleased to have found a solution that achieves both”, explained Eric Duhoo, General Manager at Thimonnier.

For Mondi, the solution was further demonstration of the benefits of partnership and its importance to achieving a truly circular economy. “Our Mondi Action Plan 2030 (MAP2030)

sustainability framework sets ambitious goals to tackle global issues across the value chain: creating circular-driven packaging and paper solutions that are made by empowered people taking action on climate. We are proud and excited to partner with customers like Thimonnier to achieve our goal of keeping materials in circulation and making a real difference”, said Olivier Werbrouck, Regional Sales Consumer Flexibles, Mondi.

MAP2030 includes a target to make 100% of Mondi’s products reusable, recyclable or compostable by 2025. The sustainability plan also includes other commitments and targets in relation to circular driven solutions, people and climate – all of which are underpinned by a set of responsible business practices. Mondi has a long history of working with industry leaders to design packaging that is both effective and sustainable by design. The berlingot refill packaging was launched during the 25th edition of the CFIA in Rennes, France from 8 March to 10 March.

[www.mondigroup.com](http://www.mondigroup.com)



**SECTORS**

**PACKAGING**



# OPEM SPA HAS ALMOST HALF A CENTURY OF EXPERIENCE IN PRODUCT PACKAGING FOR THE FOOD&BEVERAGE SECTOR

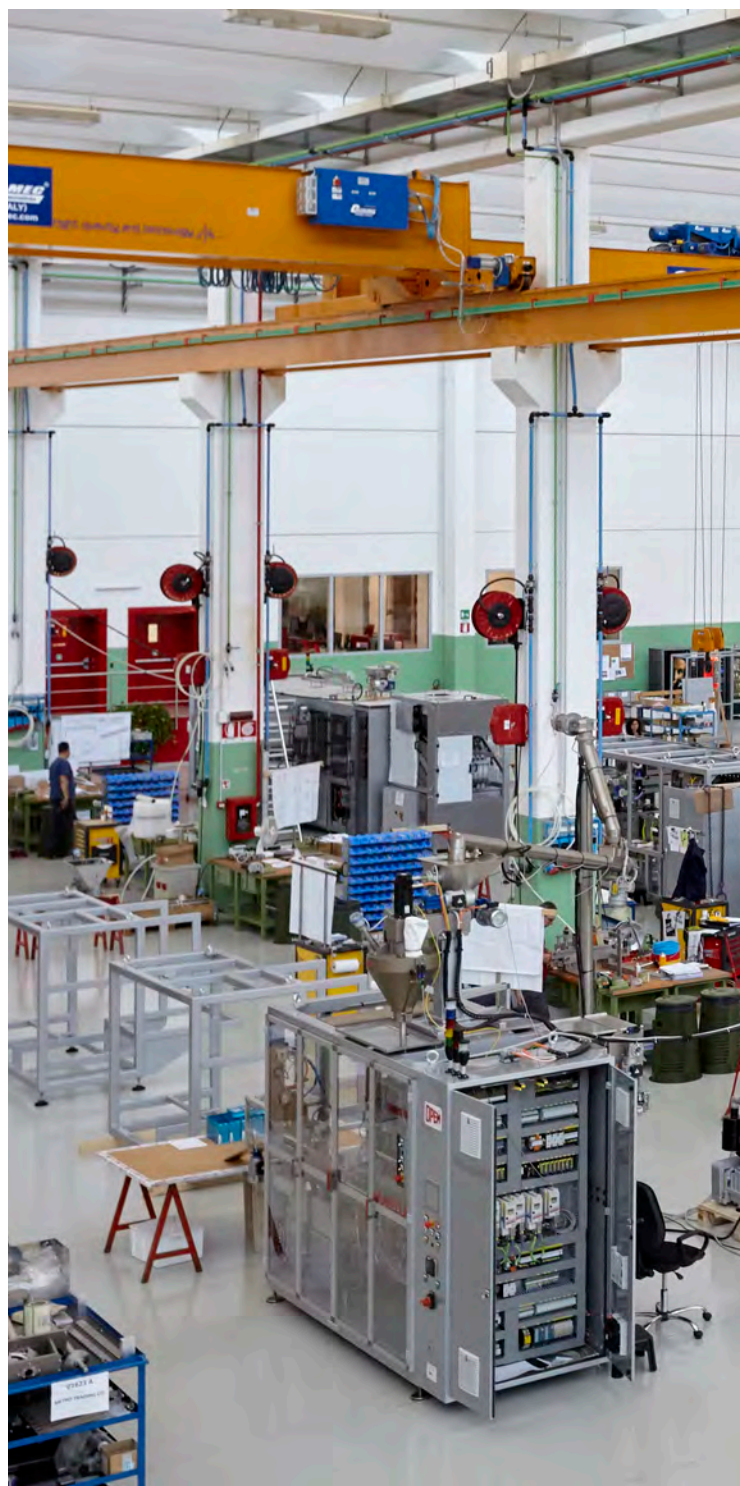
## **R** **ESearch AGAINST PLASTIC**

Opem Spa, a leading company in the packaging for granular and dry products sector with almost half a century of experience, has for some time been competing for customers with larger competitors thanks to its avant-garde machinery and technologies. Opem Spa designs and builds packaging machinery for food and beverages (with a particular focus on coffee, the company's core business), and for some time it has been trying to reduce the use of plastics preferring alternative materials. Just like in other sectors, the coffee sector is promoting the use of less plastic.

For this reason, the internal Opem Spa R&D department has been making considerable investments to research alternative materials, especially biodegradable, recyclable or completely compostable materials. In view of this, Opem Spa developed a project which was submitted to the European Commission for validation. The goal of the project was to create a production line that not only use less energy but can also handle recyclable (such as aluminum) and compostable materials.

## **INNOVATION**

The project submitted to the European Commission (and for which Opem Spa also received an award), shows how much the company cares about putting forward technologies that provide high production levels with the lowest possible use of materials and energy. The machines designed and manufactured by Opem Spa employ highly energy efficient electric and electronic components as well as Artificial Intelligence control systems combined with top performing mechanical components with minimum weights and clearances. This means each packaged product can be manufactured at an extremely advantageous cost. In fact, the company makes large use of electronics to make sure its entire machine fleet functions perfectly and without using excess energy. Mechanics also play an important role in company procedures. Opem Spa production lines are not confined to just production; the company ensures they are maintained in top condition to drive down costs and waste (as concerns materials and energy) and, whenever a line reaches the end of its life, it is dismantled in a way that reduces its impact on the environment.







YOUR PACKAGING INSIDER

**OPEN**  
*green*

solutions to package your quality



## SECTORS

✓ PACKAGING

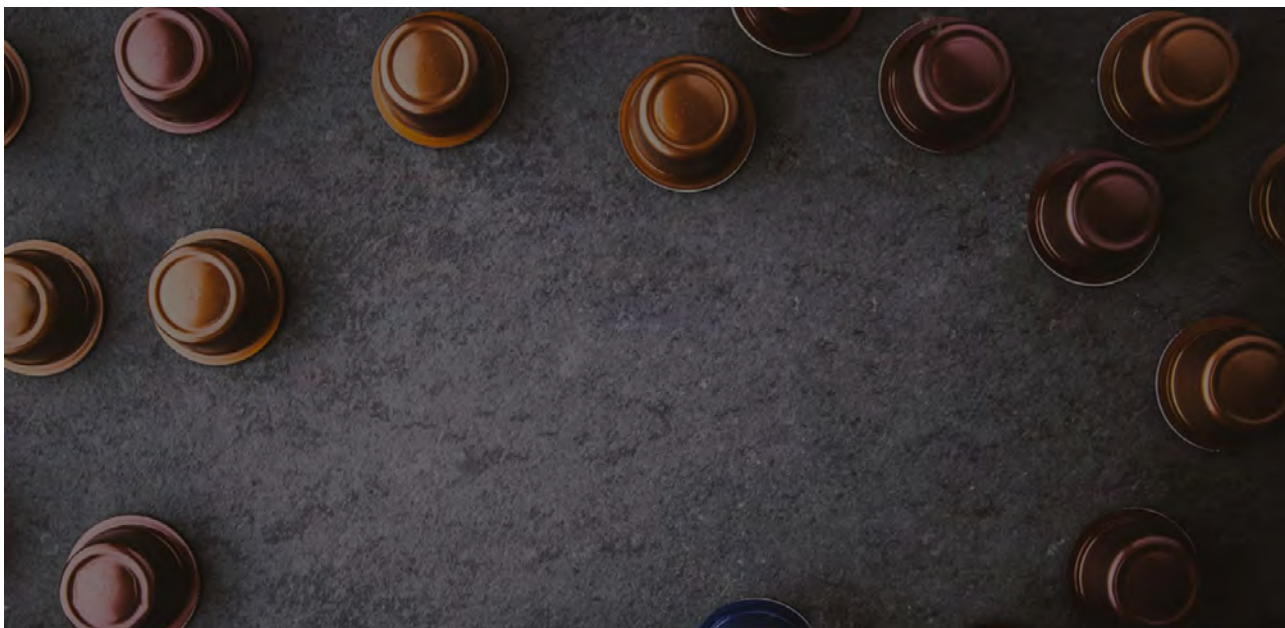
✓ FOOD

✓ AUTOMATION

packaging INTERNATIONAL







#### COMPANY VALUES

One of the characteristics that defines Opem Spa is its ability to always be attentive to its customers' requirements, as well as offering a team of experts who are great at solving customers' problems. The company is not particularly interested in manufacturing mass produced products, but prefers to offer a customized solution. Therefore, Opem Spa treats its customers to a warm and attentive embrace, of-

fering the opportunity to create a highly developed customized product. Not an easy project when employing high quality technology on an industrial level. Customization and attention to detail do not always match well with mass production (in terms of pods or capsules, Opem Spa can also produce thousands per minute).

**[www.opem.it](http://www.opem.it)**





# LESSEBO KASKAD NOW AVAILABLE IN SOUTH KOREA VIA DOOSUNG PAPER

**L**essebo 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).

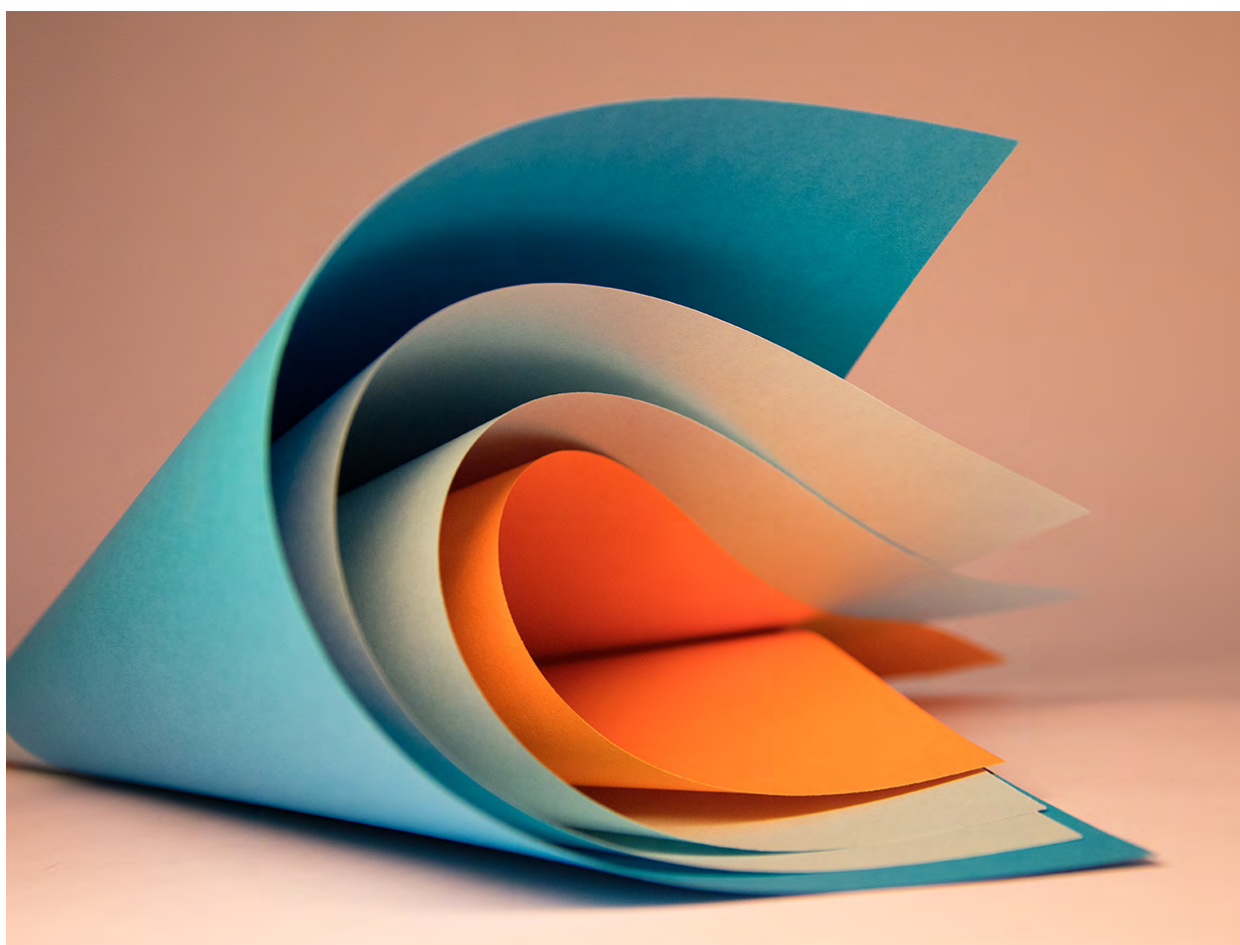
The quality is acid free, has a matt, non-reflective surface and is resistant to ageing in accordance with ISO 9706. Lessebo Kaskad is already available in a large number of countries and is a very popular quality to use for luxury packaging applications – such as liner

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](http://lessebopaper.com)**



# 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

**F**or 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 Beckum. "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.





## SECTORS



PACKAGING



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

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](http://www.beumer.com)**



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."



## “ CHEMICAL-PHARMACEUTICAL PACKAGING IS THE NEW NORMAL ”

In a changing world, with unexpected roads having opened up due to the pandemic, the packaging sector – for both food and non-food products – proposes its solutions, seeking new opportunities for development.



**W**ith health and safety as dominant themes both in the recent past and in the future, the sector presents its newest products at the IPACK-IMA trade show (3-6 May), with a global vision: from the packaging process to the design and study of innovative materials, and from end-of-line labelling all the way to automation and digitalisation.

This time the focus is the non-food sector, in particular in the chemical-pharmaceutical industry, in light of its fundamental role during the health emergency and given the forecast for 2022, which predicts the search



by  
Elisa Crotti

# GREINER PACKAGING

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

**T**hese 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](http://www.greiner-gpi.com)



for new development opportunities, especially in this context.

Whether we're talking about personal protective equipment, drugs, medical devices, food supplements, vaccines, products for sanitising environments and the skin, or simply beauty and personal care products, the sector is on the front line and in the spotlight.

The objective is clear: respond to emerging and increasingly present consumption demands, demands that will certainly be dictated by hygiene and health related aspects which are a consequence of the new normal.

Without neglecting (though this goes without say and has by now become a mantra of which there's no doubt) the increasing demand for environmental sustainability and the ever-growing attention which companies in all sectors are dedicating to it.

The competitive battle in the chemical-pharmaceutical sector is fought in different fields, with increasingly efficient and advanced packaging systems and a search for innovative and environmentally friendly materials, inspired or guided by the concept of circular economy. Without overlooking production, encapsulation, packaging, serialisation, and quality control technologies, with reference to the second big theme of the moment as well: digitalisation and the evolution towards industry 4.0.

And while it's true that "cross-contamination" is a medical term associated with unpleasant events, it's also

true that in this case it's enormously valuable and refers to the successful synergy between the consumer goods and the durable goods industries, with major interaction between the various production sectors.

This refers also to cross-industry solutions that apply to all sectors, like end-of-line, palletisation, coding, branding, labelling, and intralogistics systems.

A series of exciting challenges, which operators in the industry are ready to accept.





# EXHIBITIONS 2022-2023

## PROSWEETS

31/01-02/02/2022   
COLOGNE

Fair for the sweets  
and snacks industry.

## mcTER

24/02/2022 

Exhibition on energy efficiency.

## INTERSICOP

19-22/02/2022   
MADRID

Fair for bakery, pastry, ice cream, coffee.

## SIGEP

12-16/03/2022   
RIMINI

Fair for bakery, pastry, ice cream, coffee.

## BEER&FOOD ATTRACTION

27-30/03/2022   
RIMINI

Fair for beers, drinks, food and trends.

## mcT ALIMENTARE

31/03/2022   
VERONA

Fair on technology for the food&bev industry.

## FRUIT LOGISTICA

05-07/04/2022   
BERLIN

Fair for fruit and vegetables.

## VINITALY

10-13/04/2022   
VERONA

International wine & spirits exhibition.

## ANUGA FOODTEC

26-29/04/2022   
COLOGNE

Fair on food and beverage technology.

## PROWEIN

15-17/05/2022   
DUSSELDORF

International wine & spirits exhibition.

## COSMOPROF

28/04-02/05/2022   
BOLOGNA

Fair for the cosmetic production chain.

## CIBUS

03-06/05/2022   
PARMA

Fair of food product.

## IPACK-IMA

03-06/05/2022   
MILAN

Exhibition for the packaging industry.

## MACFRUT

04-06/05/2022   
RIMINI

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

## MIDDLE EAST 2022/23

### GULFOOD

13-17/02/2022   
DUBAI

Fair for food and hospitality.

### GASTROPAN

03-05/04/2022   
ARAD


Fair for the bakery and confectionery.

### HOSPITALITY QATAR

21-23/06/2022   
DOHA

Fair of Hospitality and HORECA.

### DJAZAGRO

30/05-02/06/2022   
ALGERS

Fair for companies  
of the agro-food sector.

### 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.

### ANUTEC

14-16/09/2022   
MUMBAI

Fair for the food&beverage industry.

### PACPROCESS FOOD PEX

23-25/11/2022   
MUMBAI

Fair for product from packaging.

### WOP DUBAI

22-24/11/2022   
DUBAI

Fair for fruits and vegetables.

### PROPAK VIETNAM

09-11/11/2022   
SAIGON

Fair for packaging, bakery, pastry.

### GULFOOD MANUFACTURING

08-10/11/2022   
DUBAI

Fair for packaging and plants.

### GULFHOST

08-10/11/2022   
DUBAI

Fair of hospitality.

### GULFOOD

20-24/02/2023   
DUBAI

Fair for food and hospitality.

# EXHIBITIONS 2022-2023

## SPS/IPC DRIVES/ITALIA

24-26/05/2022 

PARMA

Fair for industrial automation sector.

## HISPACK

24-27/05/2022 

BARCELONA

Technology fair for packaging.

## MECSPE

09-11/06/2022 

BOLOGNA

Fair for the manufacturing industry.

## LATINPACK

29-30/06/2022 

SANTIAGO CHILE

International packaging trade fair.

## FISPAL

21-24/06/2022 

SÃO PAULO

Fair for product from packaging.

## DRINKTEC

12-16/09/2022 

MONACO

Fair for the beverage, liquid food industry.

## FACHPACK

27-29/09/2022 

NUREMBERG

International packaging trade fair.

## POWTECH

27-29/09/2022 

NUREMBERG

The trade fair for powder processing.

## SAVE

26-27/10/2022 

VERONA

Fair for automation, instrumentation, sensors.

## mcTER COGENERAZIONE

23/06- 26/10/2022 

MILAN

Exhibition for cogeneration.

## SIAL

15-19/10/2022 

PARIS

Fair on food products.

## SUDBACK

22-25/10/2022

STUTTGART

Fair for bakery and confectionery.

## CIBUS TEC FORUM

25-26/10/2022 

PARMA

Exhibition & Conference on Food & Beverage Technologies Trends.

## SIMEI

15-18/11/2022 

MILAN

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

## ALL4PACK

21-24/11/2022 

PARIS

Exhibition about packaging technology.

## INTERPACK

04-10/05/2023 

DÜSSELDORF

Technology focused on packaging, bakery, pastry technology.

## TUTTOFOOD

08-11/05/2023 

MILAN

Fair B2B show to food & beverage.

## HOST

13-17/10/2023 

MILAN

Fair for bakery production and for the hospitality.

## IBA

22-26/10/2023 

MONACO

Fair for the bakery and confectionery industry.

## CIBUS TEC

24-27/10/2023 

PARMA

Exhibition & Conference on Food & Beverage Technologies Trends.

## BRAU BEVIALE

14-16/11/2023 

NUREMBERG

Fair of production of beer and soft drinks.

## EAST MARKETS 2022/23

### BEVIALE MOSCOW

29-31/03/2022 

MOSCOW

International trade fair for the beverage industry.

### UPAKOVKA

24-27/01/2023 

MOSCOW

International packaging machinery exhibition.

### INPRODMASH

13-15/09/2022 

KIEV

International packaging machinery exhibition.

### BEVIALE MOSCOW

14-16/11/2023 

MOSCOW

International trade fair for the beverage industry.

### AGROPRODASH

10-14/10/2022 

MOSCOW

Fair of machinery and equipment for agroindustrial industry.

### MODERN BAKERY

2023 

MOSCOW

Fair for bakery equipment and food ingredients.





# WE'VE TALKED ABOUT...

## **ALPHAMAC SRL**

**46/49**

Via Nobel, 20  
40064 Ozzano dell'Emilia - BO  
Italy

## **ALTECH SRL**

**66/69**

V.le A. de Gasperi, 70  
20008 Bareggio - MI  
Italy

## **ANDOLFI E C. SNC**

**76-77**

Via Vecchia Porto, 1599  
63019 Sant'Elpidio a Mare - FM  
Italy

## **BAUMER SRL**

Member of Smart Packaging Hub

**7/10**

Via Emilia Ovest, 93  
41013 Castelfranco Emilia - MO  
Italy

## **BEUMER MASCHINENFABRIK GMBH & CO. KG**

**106/108**

Oelder Strasse 40  
59269 Beckum  
Germany

## **CAMA GROUP**

Member of Smart Packaging Hub

**1- 7/10 - 70/73**

Via Como, 9  
23846 Garbagnate Monastero - LC  
Italy

## **CLEVERTECH SRL**

Member of Smart Packaging Hub

**7/10**

Via Brodolini, 18/A  
42023 Cadelbosco Sopra - RE  
Italy

## **DUETTI PACKAGING SRL**

**50/53**

Via Leonardo da Vinci, 43  
35015 Galliera Veneta - PD  
Italy

## **ENIMAC SRL**

**11**

Via Monzoro, 58  
20010 Cornaredo - MI  
Italy

## **ETIPACK SPA**

**12/15**

Via Aquileia, 55-61  
20092 Cinisello Balsamo - MI  
Italy

## **FACA GROUP**

**56/65**

Ctra del Mig. 1-13  
08940 Cornellà de Llobregat  
Spain

## **FAIRTRADE MESSE GMBH & CO.KG**

**85**

Kurfuersten-Anlage 36  
D-69115  
Heidelberg  
Germany

## **FEDRIZZI ETICHETTE GROUP SRL**

**78/81**

Via Gianni Brida/Gianni-Brida-Strasse, 43  
39100 Bolzano  
Italy

## **GENERAL SYSTEM PACK SRL - GSP**

**19/21**

Via Lago di Albano, 76  
36015 Schio - VI  
Italy

## **GREINER PACKAGING**

**110-111**

Greinerstrasse 70  
4550 Kremsmünster  
Austria

## **HALSTRUP-WALCHER SRL**

**98/100**

Viale Colleoni, 15  
(Palazzo Orione, 2)  
20864 Agrate Brianza - MB  
Italy

## **IFP PACKAGING SRL**

**II COP-16-17**

Via Lago di Albano, 70  
36015 Schio - VI  
Italy

## **KYUNGYON EXHIBITION CORP.**

**45**

Rm. 1101, Geumsan Bldg.,  
750 Gukhoe-daero,  
Yeongdeungpo-gu, Korea  
Seoul, Korea



# WE'VE TALKED ABOUT...

## LIC PACKAGING SPA

**82/84**

Località Breda Libera  
25028 Verolanuova - BS  
Italy

## MESSE DÜSSELDORF INDIA PVT. LTD.

**31**

20th Floor, Building  
No. 5 tower A,  
Dlf Cyber Terracegurgaon,  
122002 Haryana  
India

## MINI MOTOR SPA

**I COV-18**

Via E. Fermi, 5  
4201 Bagnolo in Piano - RE  
Italy

## NVC NEDERLANDS PACKAGING CENTRE

**4/6-58/61**

Stationsplein 9k  
PO BOX 164  
2801 AK  
Gouda  
The Netherland

## OPEM SPA

Member of Smart Packaging Hub

**7/10 -102/104**

Via della Cooperazione, 2/A  
(Area Ind. Spip)  
43122 Parma  
Italy

## PMR SYSTEM GROUP SRL

**32/35**

Via Bertacciola, 41  
20813 Bovisio Masciago - MB  
Italy

## PROSYSTEM SRL

**94-95**

Via Staffali, 19  
37069 Dossobuono - VR  
Italy

## SATO

**96-97**

Leuvensesteenweg 369  
1932 Sint-Stevens  
Woluwe  
Belgium

## SMI SPA - SMI GROUP

**36/39**

Via Carlo Ceresa, 10  
24015 San Giovanni Bianco - BG  
Italy

## STELLA MARIS DI VANESSA GAROFALO

**24/27**

Via Alcide de Gasperi, 202  
76012 Canosa di Puglia - BT  
Italy

## TECNO PACK SPA

**IV COV-22-23**

Via Lago Di Albano, 76  
36015 Schio - VI - Italy

## TOSA SPA

Member of Smart Packaging Hub

**7/10**

C.so IV Novembre, 109/111  
12058 S. Stefano Belbo - CN  
Italy

## UNIVERSAL PACK SRL

**42/44**

Via Vivare, 425  
47842 San Giovanni In Marignano - RN  
Italy

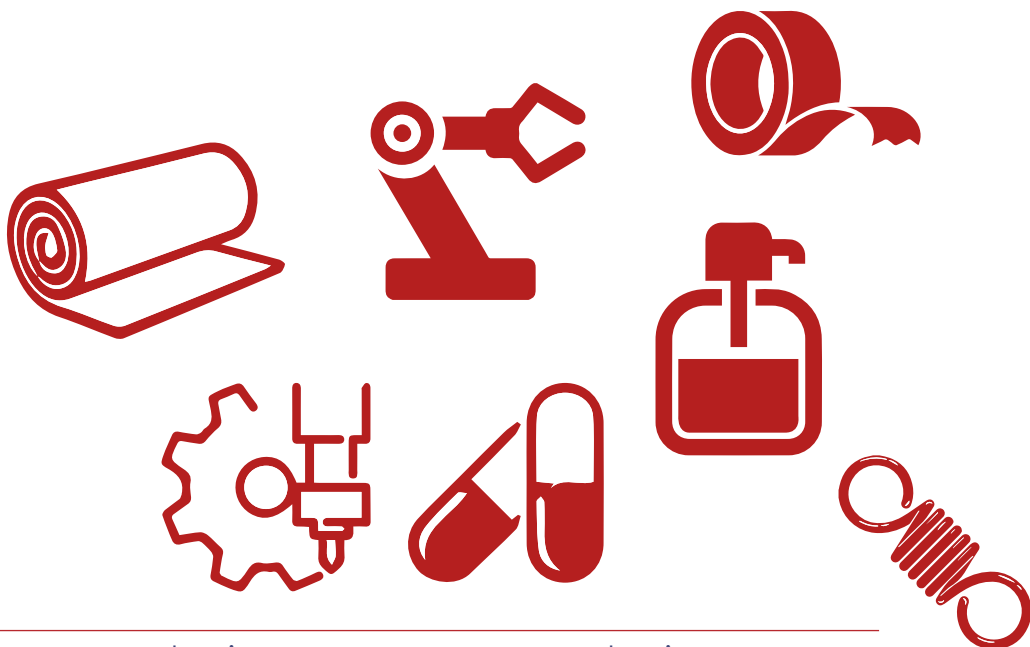
## ZANICHELLI MECCANICA

**SPA ZACMI**

Member of Smart Packaging Hub

**7/10**

Via Mantova, 65  
43122 Parma  
Italy





# PROPAK INDIA

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## New Market, Newer Opportunities!

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### 21-23 September 2022

Bengaluru International Exhibition Centre, Bengaluru



**For space booking please contact**

**Monica Preeti Rohra** | M: +91 96192 74838 | E: [monica.rohra@informa.com](mailto:monica.rohra@informa.com)

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