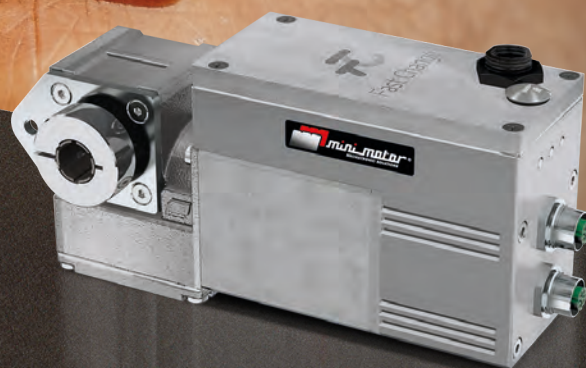


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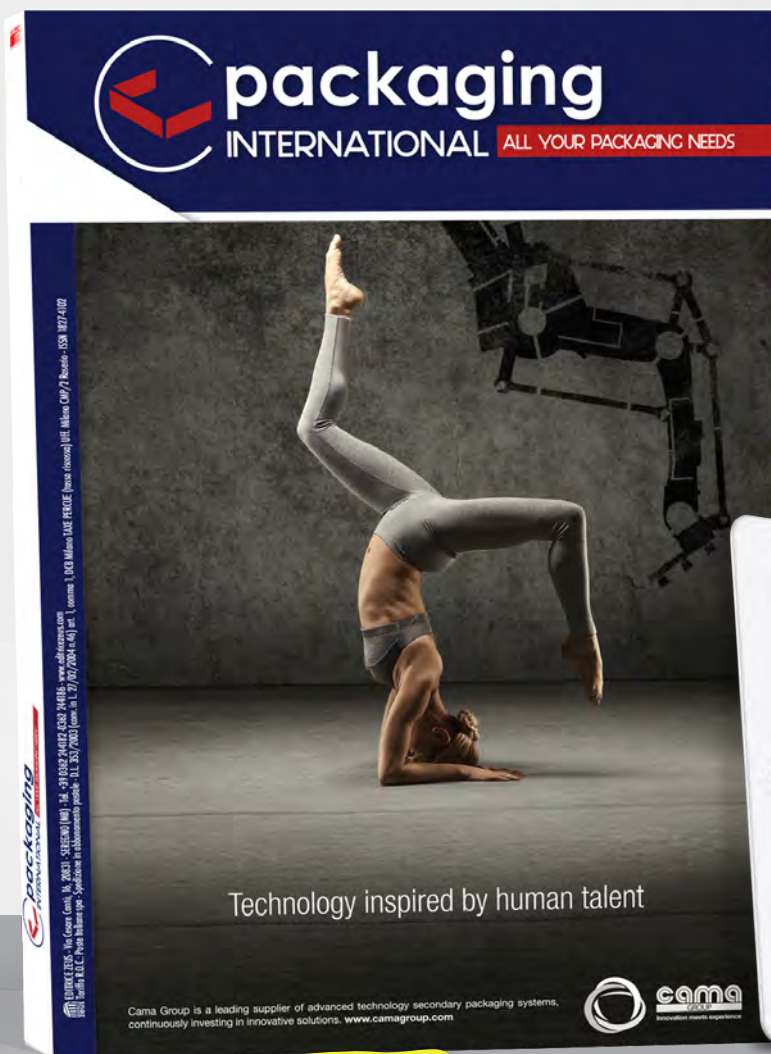
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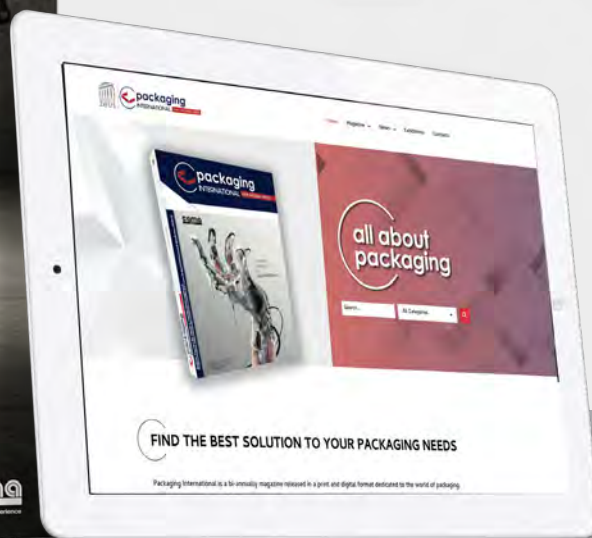
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SUSTAINABILITY



04/06

IMA SPA

Sustainability is a fundamental value on which IMA has based its operations.

PACKAGING



20/22

LBA SRL

Industrial wood packaging.



SONIA V. MAFFIZZONI
Editorial Manager

The future of packaging is linked to sustainability, there is no doubt about that. In fact, packaging is responsible for so much waste, especially in the food industry. Less plastic, fewer packages, greater efficiency, and total respect for safety are the common imperatives of consumers, institutions, and organizations. How are companies responding? From our publication's observatory, we can only note a great commitment and the deployment of all resources allocated to research and development. Packaging and non-packaging, made from the same material as the content, biodegradable films, absolute reduction of plastic (but, be careful, not demonization), packaging that is made from food waste, and a complete focus on sustainability. The cards on the table are becoming interesting, and the players have certainly accepted the challenge. As professionals and consumers, we are very curious to know about the next developments. Win the best.

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END-OF-LINE PLANTS

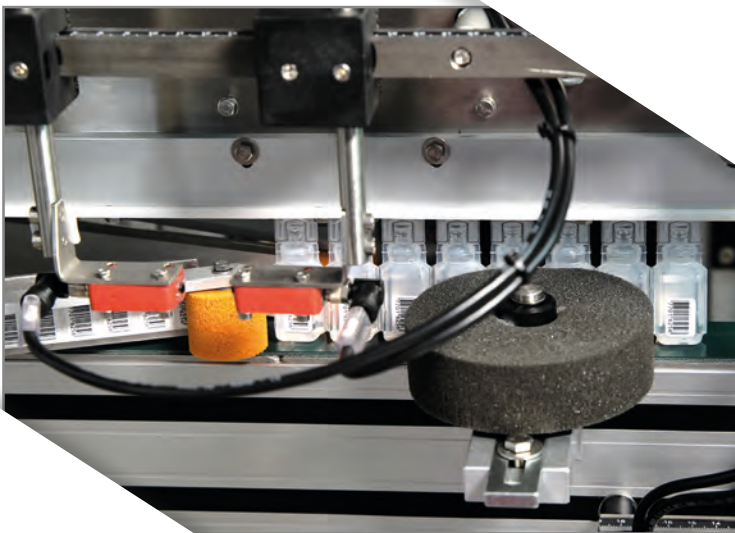


44/46

GEO PROJECT
INDUSTRIES SRL - CPI

The extent of success
in the food industry.

LABELLING



86-89

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Labelling solutions
for stable and unstable
blow-fill seal packages.

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SUSTAINABILITY IS A FUNDAMENTAL VALUE ON WHICH IMA HAS BASED ITS OPERATIONS

Sustainability is a fundamental value on which IMA has based its operations for many years and is a very important pillar of the system. The Group's commitment towards this matter is embodied by the corporate IMA ZERO project.

The Company has been prioritising sustainability since years and committing to concretely implementing new eco-friendly projects and initiatives, annually publishing a sustainability report too. Not only this, but we also honoured our pledge through our **IMA ZERO** project, launched in 2019 to minimise IMA's environmental impact in the manufacturing sector.

IMA ZERO is divided in 4 categories: **LOW, NOP, E-MOB** and **YOU**.

LOW (Low-Impact Program) refers to the pledge to lower the Group's impact on the environment, **reducing emissions, waste, as well as water and energy consumption, and preserving natural resources**.

NOP (No-Plastic Program) fosters the employment of eco-friendly materials for the gradual **reduction of plastic** in packaging produced by IMA machines. To this purpose, **IMA OPENLab** plays a fundamental role: the Group's network of technological laboratories and testing areas is dedicated to the research of sustainable materials alternative to plastic, technologies and production optimisation processes.

E-MOB (Sustainable Mobility Program) includes the Group's projects about **sustainable and electric mobility**, for example the implementation of **e-charging stations** at IMA's plants to charge hybrid and electric cars during working time. Also, in the last years the Group established the "Bike to Work" project that fosters the use of bike through kilometeric incentives for employees who use it for home to work transfers, as well as the availability of personal annual public transport tickets paid by the Company to reduce the use of personal means of transportation.

YOU (Human-Centric Program) concerns the Group's commitment to putting people at the centre, promoting different projects related to **equal opportunities, inclusion, integration, professional development**, and anything that can improve working and living conditions.

OPENLAB – THE PLACE TO SHARE

For IMA the study of materials has become a crucial point in development in the sustainable field. In particular, our **IMA OPENLab** plays a fundamental role in the research of **materials** that are both



SECTORS

 **PHARMACEUTICAL**

 **FOOD**

 **PERSONAL CARE**



nosp

NO-PLASTIC PROGRAM





eco-friendly and **machinable**, and it represents a pillar of our **No-Plastic Program (NOP)**.

OPENLab is our network of technological laboratories that research, study and analyse sustainable materials (plastic-free, compostable or biodegradable, recyclable and/or more sustainable plastic-based materials).

At our innovative laboratories, customers have also the possibility to test new materials on the machines on-site under the supervision of our material technologists too.

IMA ZERO is our latest commitment towards creating products, production processes and services, benefitting from a renewed logic of sustainability and from the awareness that **our efforts today will help to shape the world of tomorrow**. Winning the Best Packaging Award with our HYWRAP20 is a concrete result of our sustainable pledge.

Discover our sustainable solution for the **Pharmaceutical, Medical Devices, Food, Personal Care, Tissue & Nonwoven, E-commerce** and **Tobacco industries**

www.ima.it/en/





MORE SUSTAINABLE SOLUTIONS, LESS PLASTIC IN PRODUCTS AND PROCESS

Z E R

NOP (No-Plastic Program) means we promote eco-friendly plastic substitutes for the packages manufactured on IMA machines. Through the research and testing of alternative processes and materials together with our partners we foster plastic-free and sustainable, compostable, biodegradable or recyclable packaging solutions.

According to these objectives, IMA established **OPENLab**: the Group's network of technological laboratories and testing area, dedicated to the research on **sustainable materials, technologies and production optimization processes**.

Discover more about **IMA NOP** on ima.it/imazero
and **IMA OPENLab** on ima.it/open-lab



**PACK EXPO
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INNOVIA LAUNCHES CPE45 AND WPE45, THINNER PRINTABLE LABEL FILMS WITH REDUCED CARBON FOOTPRINT

Innovia Films, a major producer of BOPP films, is launching CPE45 (clear) and WPE45 (white). These two new label facestock films, are the result of in-depth material science from our scientists, to produce label films that are not only naturally printable, but significantly thinner than alternative filmic label materials, like PE (Polyethylene).

- New facestock films that support the move to thinner materials that are designed for recycling.
- To be launched at LabelExpo 2023.

“In the Home and Personal Care arena, clear and white polyethylene label facestock films are routinely used, but these can be replaced by CPE and WPE, which have many advantages over them” says Alasdair McEwen, Product Manager Labels and Graphics at Innovia Films. “CPE and WPE are approximately 40% thinner than the polyethylene films used, meaning you can use a label that is much thinner, and most importantly using less of the planet’s scarce fossil resources. CPE also has outstanding clarity and very low haze compared to a polyethylene label, making it perfect for use on clear-on-clear applications

on PET bottles” adds McEwen. One of the main benefits of using CPE or WPE, is that they maintain the high machine direction stiffness of bubble produced films, meaning end-users and applicators would see no reduction in label dispensing speeds.

“This has been an extremely important development for Innovia” says Lucija Kralj, Business Unit Director Labels. “It is vital with any new products that we launch, that they align with the markets move to packaging materials that will meet design for recycling guidelines, and CPE and WPE do just that. Alongside that, these films give our customers not only the ability to significantly downgrade, but also improve their carbon footprint”.

CPE45 and WPE45 are fully available immediately.

www.innoviafilms.com

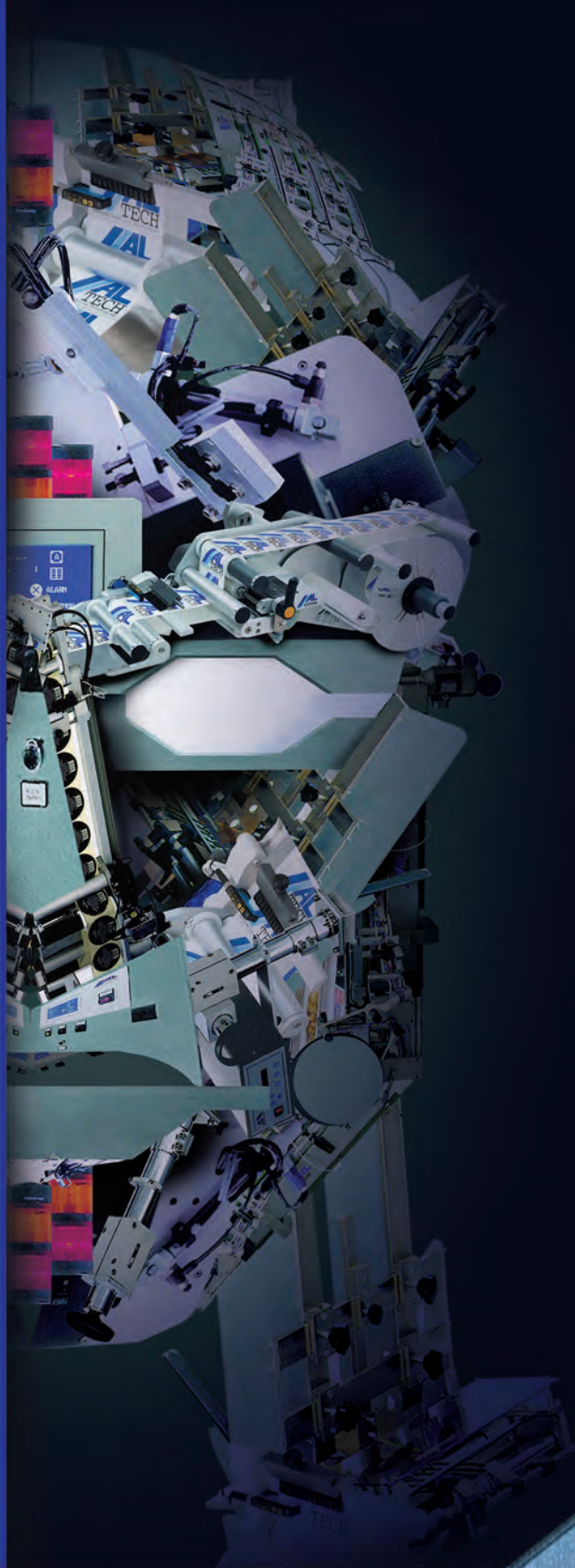




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ALTECH - ADVANCED LABELLING TECHNOLOGIES



ALline CH
Horizontal wrap around
labelling machine

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

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

Its range encompasses the following products:

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

ALritma – high-performance label applicator, which can be easily integrated in packaging lines.

It is also available with thermal transfer printing group in the ALritmaT version, for print/apply applications.

ALcode – real-time print-apply systems which apply labels immediately after printing, in any position, on both

stationary and moving products (even at high speeds).

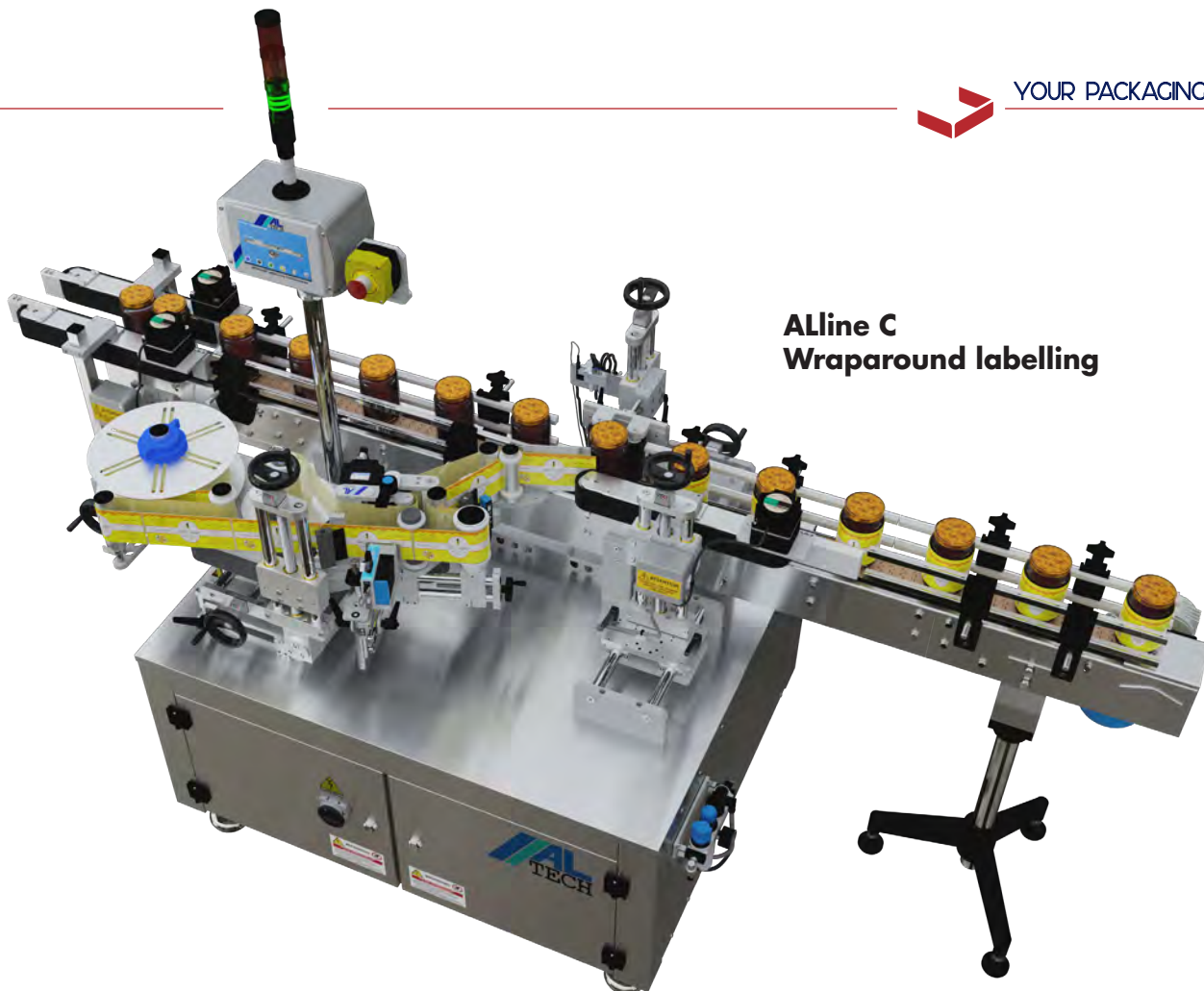
A specific pallet labeling version, ALcode P, is able to print and apply A5 format labels on two consecutive sides of a pallet (normally front and side, per EAN 128, or even three sides on request).

ALbelt – simplified linear system which is open, compact, and particularly economical.

It can be configured for wraparound, c-wrap, top, bottom, top and bottom, top and side labeling of various products, cylindrical or flat. It's ideal for labeling cases, boxes, trays, jars and cans.

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

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



ALline C
Wraparound labelling

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

For further information

info@altech.it

www.altech.it

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ALcode
Print & apply label applicator

SECTORS

✓ **PACKAGING**

✓ **BEVERAGE**

✓ **FOOD**



GICHERSTAMPA IS AMONG THE LEADERS IN THE LABEL INDUSTRY. PARTNERING WITH MAJOR BRANDS SINCE 1977

Gicherstampa is a family-run business, established in 1977 in the heart of the Marche region, in the city of Fermo, Italy. In the 1980s, thanks to great intuition and continuous innovation, Gicherstampa began its journey in fanfold paper.

In the 2000s, due to a market impasse, Gicherstampa responded to market needs and ventured into the self-adhesive label sector, specializing in the food and wine industry. As a result, under the leadership of Vittorio Ginevri Cherri and Maura Donzelli, with the support of their daughters Gaia and Giada, Gicherstampa successfully consolidated its position in the new arena.

Gicherstampa established itself in the market through the use of cutting-edge technologies based on printing methods such as offset, flexo, and digital. Gicherstampa manufactures exceptional and personalized labels using special inks like glossy, hot and cold foil, dry embossing, glitter, tactile screen printing, sandblasting, pearlescent paints, perfumed inks, and much more. Attention to detail, passion, and professionalism are among the values that represent the business. At Gicherstampa, the client is accompanied from idea inception to realization by a team of experts that strives to achieve the best result.

Gicherstampa is FSC and UNI EN ISO 9001 certified and a partner of C4 Recycling, utilizing the Release Liner Recycling service.

www.gicherstampa.it





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A SMALL PRODUCT OF BIG QUALITY

EMS99 di **Marco Ventura** is a company specialized in the production of steel types, marking wheels, interchangeable characters, holders, cliché for packaging machines in the pharmaceutical, cosmetic, food and tobacco sectors.

Considering its use, the steel type is **a small product** that requires **great quality** for its technical tolerances.

Our products are made of steel for cold works, engraved and tempered, or made of brass for hot printing. The traditional engraving with chip removal allows a clear print thread.

Steel types are made according to drawings or samples for various types of machines, not only Italian ones.

In a world where companies use more and more laser or inkjet systems for printing and encoding, the new rules that lead to the product serialization process are still an unknown feature, especially for small and medium companies.





SECTORS

- ✓ PACKAGING
- ✓ PHARMACEUTICAL
- ✓ FOOD, COSMETIC



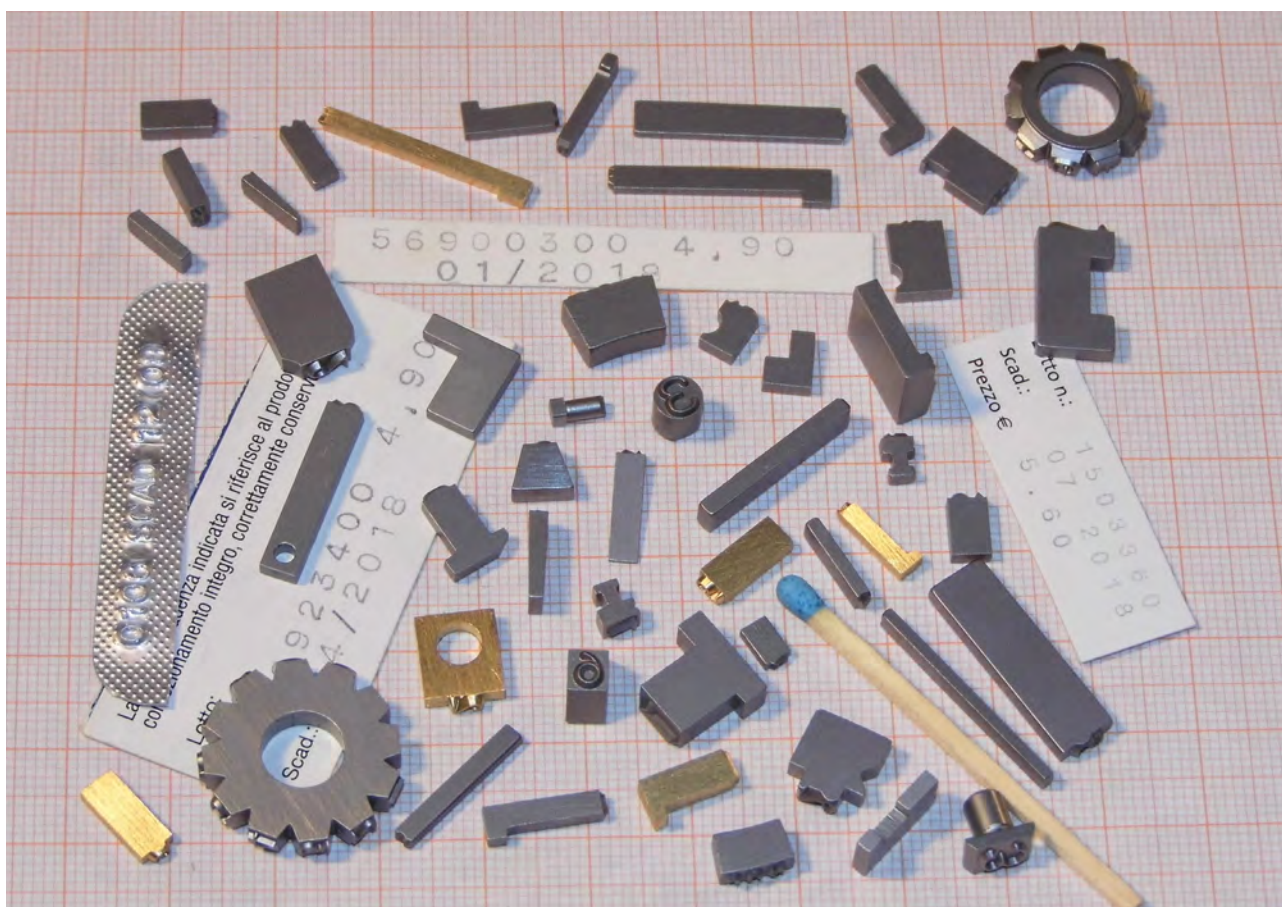


Considering what above mentioned - and in order to represent a bridge between the old and the new way of working - our company has decided to be next to people who still use a product of undisputed validity and reliability such as the steel type. We offer our customers the highest flexibility in the quantities to be ordered on the basis

of the actual need, very often concerning only small re-stocking.

The quality of the products and the compliance with agreed deliveries are our priority.

www.ems99.it



FOOD LABELING BETWEEN REGULATIONS AND TECHNOLOGICAL INNOVATIONS

Food labeling is of fundamental importance to ensure the safety and transparency of products. Companies are using technologies such as blockchain, AI, QR codes, and sensors to improve product traceability and quality.



by Walter Konrad

Food labeling has become a central issue in contemporary society. The quality of food and food safety are distinctive elements of European culture.

Food labeling allows consumers to have clear and transparent information about the products they purchase, as well as ensuring compliance with current regulations. In this article, we will examine the main rules governing food labeling and the technological innovations available to companies to improve production and control processes.

The regulatory framework

The regulations on food labeling are based on Regulation (EU) No. 1169/2011 of the European Parliament and of the Council, known as FIC (Food Information to Consumers). This regulation establishes the mandatory information to be included on the label, such as the product name, list of ingredients, expiration date, storage conditions, allergen indication, and nutrition table. The health ministries of the various countries are the entities responsible for controlling and monitoring compliance with regulations on food labeling, including the prohibition of unfair and misleading commercial practices.

Technological innovations in the food industry

Food companies are using new technologies to improve product traceability and ensure compliance with current regulations. Among these, we find:



image: unsplash.com



- 1 - Blockchain: This technology allows for the creation of a secure and unalterable digital record of transactions along the production chain. In this way, companies can guarantee the origin and quality of the ingredients used, offering consumers greater transparency.
- 2 - Artificial intelligence (AI) and machine learning: The use of advanced algorithms and automatic learning systems allows for real-time analysis and monitoring of product quality, and the detection of any anomalies or irregularities in the labels.
- 3 - Smart labels and QR codes: The adoption of interactive labels and QR codes allows consumers to access detailed information about the product and its production chain simply by using a smartphone. These solutions offer a more complete and personalized experience for the customer, who can make more informed purchasing decisions.
- 4 - Internet of Things (IoT) and sensors: The use of connected devices and advanced sensors along the production chain allows for the collection and real-time monitoring of data, improving resource management and reducing waste. For example, sensors can be used to monitor temperature during the transport and storage of products, thus ensuring the safety and quality of food.
- 5 - 3D printers for labels: 3D printing allows for custom labels for each product, with greater flexibility and a lower incidence of errors. This technology can be particularly useful for companies that produce food in



SECTORS

 PACKAGING

image: pexels.com



small batches or with specific characteristics, such as organic or gluten-free products.

- 6 - Digital platforms and management software: The use of digital platforms and specific software for label management simplifies and speeds up the process of creating and revising labels. These tools can help companies comply with current regulations and prevent any penalties for non-compliant labels.

In conclusion, food labeling is a topic of great relevance, both from a regulatory and technological point of view. Companies in the industry must comply with the provisions in force, providing clear and complete information to consumers. At the same time, the adoption of innovative technological solutions can contribute to improving the quality, safety, and traceability of food products, as well as ensuring transparency and customer trust.



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of packaging. The process of placing and packaging goods inside containers often represents the most costly and time-consuming aspect in terms of man-hours for the client.

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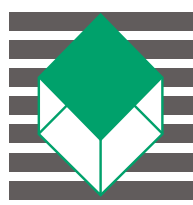
Every packaging may require additional protections or accessories to maximize its effectiveness and adequately safeguard the goods during warehousing, handling, and transportation. LBA provides specific consulting to determine when it is appro-

priate to include coatings, fastening elements, protective films, moisture reducers, or other additional accessories during the packaging phase,

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PROTECTING YOUR PRODUCTS SINCE 1991

It was 1991 when Walter, Maria Grazia, and Davide started and shaped their project of manufacturing beehives and separators. Back then, the idea of offering the market that particular support for protecting products being shipped worldwide wasn't very widespread, but it immediately received a positive response.

From that moment, the three pioneers made investments and innovations to stay one step ahead, creating a well-organized structure with technologies and machinery and ensuring quick and customized responses to their customers. Today, L'Alveare, considered a leading company in the production and delivery of tensioned and corrugated





cardboard packaging products, relies on highly experienced collaborators, an always updated machine park, the ability to work with various sizes, and the availability of its own means for direct deliveries. Sustainability, environmental attention, and organizational efficiency are at the core of the company's philosophy, in addition to being the basis for the quality of the

offering, with the awareness that dealing with fragility and responding to the need to "protect" means thinking thoroughly about preserving every creation of humankind.

The use of recycled and recyclable cardboard allows customers to reduce the carbon footprint of their products, support-



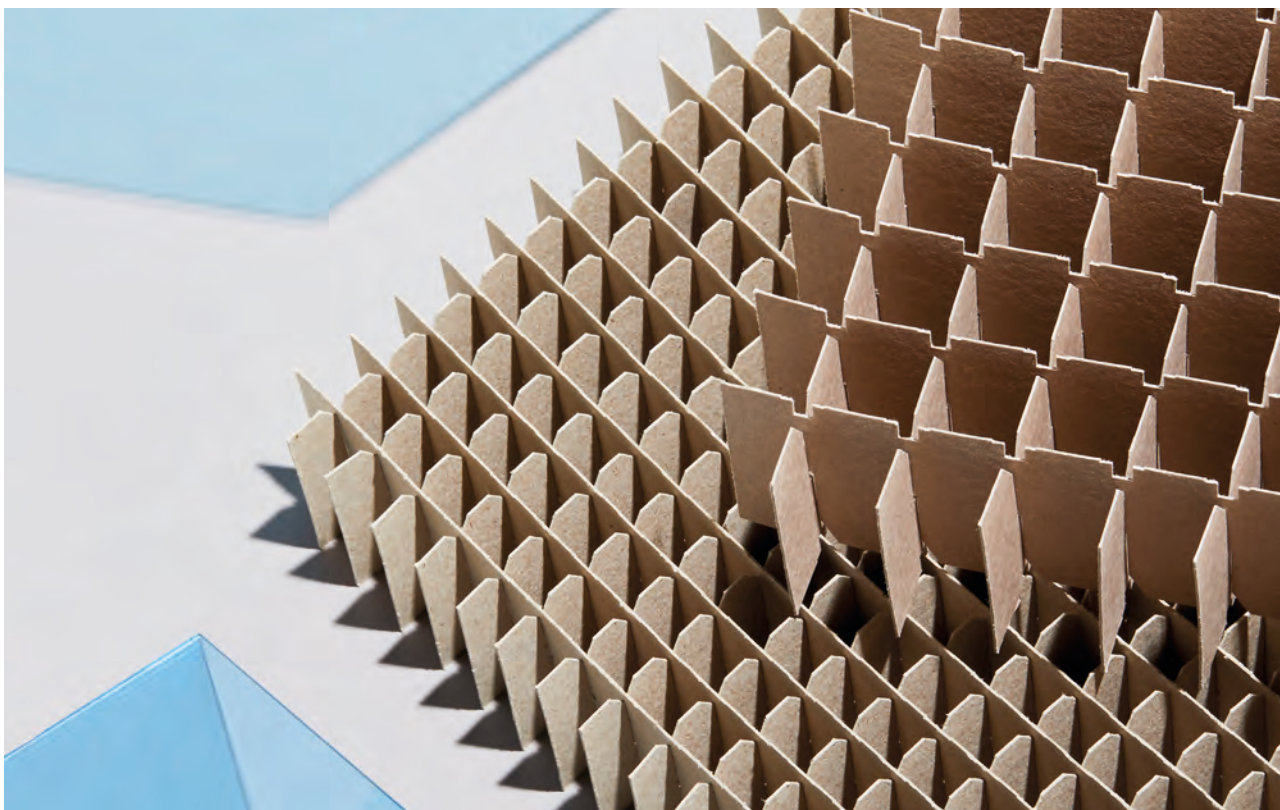
SECTORS

✓ PHARMACEUTICAL

✓ FOOD

✓ COSMETICS





ing the image of a sustainable company, which is increasingly demanded by the market and consumers.

Solutions of every complexity and size are available for different categories of clients, including the Beverage Sector (separators and beehives for wine, spirits, beverages, and wa-

ter bottles), Glassware Sector (for glass bottle and container manufacturers, up to a maximum size of 1250 mm), Mechanical and Mechatronics Sector, as well as the Pharmaceutical/ Cosmetic Sector.

www.alveare.com





THE GLOBAL INTELLIGENT PACKAGING MARKET

The global intelligent packaging market size is estimated at USD 23.08 billion and is anticipated to grow at USD 56.02 billion at a CAGR of 9.03% in 2030.

The incorporation of cutting-edge technology and functionality into conventional packaging strategies is referred to as intelligent packaging, also known as smart packaging. To improve product safety, quality, and customer experience, interactive elements such as sensors, indications, tracking systems, and interactive features are included in the packaging. Information regarding the product's origin, ingredients, expiration date, and storage conditions may all be found in real-time thanks to the capabilities of intelligent packaging.

This guarantees product authenticity and aids in customer decision-making. To keep track of the product's location and state along the supply chain, tracking systems can also be incorporated.

View More Information About Intelligent Packaging Market

Tamper-evident seals and indicators are examples of elements that may be used in intelligent packaging to give visible clues if the box has been opened or tampered with. This helps to maintain the quality of the goods and guards against theft or unauthorized access.

Through the use of technologies like augmented reality (AR) and near-field communication (NFC), smart packaging may provide consumers with engaging experiences. Customers may obtain more product details, promotions, or tailored material by scanning or interacting with the box using their cell phones.

The market for intelligent packaging has been increasing steadily in recent years and is anticipated to do so in the years to come. Customers are growing more conscious of the value of product quality, safety, and sustainability. They look for details about the provenance, ingredients, and authenticity of the products. By offering real-time product information, traceability, and interactive experiences, intelligent packaging satisfies these requirements and increases customer engagement and confidence. Across a range of industries, governments, and regulatory agencies are enforcing stronger requirements around product safety, labelling, and traceability. By delivering precise and up-to-date information on product information, origin, and handling, intelligent packaging solutions assist businesses in adhering to these standards.

Speak To Analyst

The market for intelligent packaging is predicted to develop significantly over the next several years, according to market research surveys. The market is expanding as a result of ele-

ments such as increased IoT and sensor technology usage, rising customer demand for transparency and product information, and the requirement for supply chain optimization. Additionally, collaborations between packaging firms and technology suppliers, ongoing innovation, and financial expenditures in R&D have an impact on the industry.

Intelligent packaging presents chances to design interactive and interesting customer experiences. Businesses may offer more product information, incentives, loyalty programmes, and personalized content with technologies like QR codes, augmented reality (AR), or near-field communication (NFC). By doing this, you may increase customer engagement, foster brand loyalty, and encourage repeat business. Better supply chain visibility and control are made possible by intelligent packaging. Businesses may receive real-time insights on inventory levels, product conditions, and location by combining tracking systems, sensors, and data analytics. As a result, the performance of the supply chain as a whole is improved, losses are decreased, logistics planning is better, and inventory management is made more effective.

Request Here to Download a Free Report PDF Brochure

The cosmetics and personal care business uses intelligent packaging to improve customer experiences and product security. Information about product components, use guidelines, and possible allergies is available via smart labels and QR codes. Consumers may use their smartphones to access more product information, lessons, and tailored suggestions thanks to packaging that uses NFC technology. Product integrity is ensured by tamper-evident features, which also prohibit unauthorised access.

One of the key geographical markets for intelligent packaging in North America. Due to the existence of well-established companies, advancements in technology, and stringent regulations controlling product safety and labelling, the market is growing. The United States and Canada are the two nations that contribute the most to the market in this sector.

Leading provider of labelling and packaging materials Avery Dennison has been working hard to provide intelligent packaging solutions. In order to provide customers with interactive experiences and the ability to track their purchases, companies have adopted technologies like RFID (Radio Frequency Identification) and NFC (Near Field Communication) stickers. Additionally, Avery Dennison has worked with other businesses to provide smart packaging solutions for a variety of sectors.

To find out more, visit

www.adroitmarketresearch.com



TECNO PACK: DEVELOPMENT AND STRATEGY TO REACH NEW GOALS

Over three decades have passed since the early 1980s, when, in a small building on the outskirts of Schio, two enthusiastic and passionate technicians began tinkering with several used packaging machines with the intention of getting them back into working order.

This type of activity was known as “revision”, a term that has become extinct in this world of “disposable” products.

It was through the continuous process of disassembling, replacing, modifying, and testing these ageing machines that the two ultimately decided to develop the new and

modern flow pack packaging machines.

In 1985, the first packaging machines from the newly established Tecno Pack company were introduced on the market and immediately received a favourable reception from clients.

Thus began the company’s long journey, a company whose priority is to respond in a timely and professional manner to the increasingly stringent demands of the market, courageously and determinedly embarking on the challenging path of automatic packaging systems.

These were years of hard work, sacrifice, and ongoing research, as well as of achievements and growth.

Meanwhile, Tecno Pack moved to a new location, in the Schio industrial area, which was better able to handle the company’s growing and changing logistical and production needs.





In 2011, operations moved to a new facility occupying over 6,000 square meters, still located in the traditionally industrious town of Schio, since the second half of the 19th century nicknamed “the Little Manchester of Italy”.

Machine after machine, system after system, the story continued with the inevitable intertwining of professional and personal events that never undermined the company’s corporate ideological continuity, which was supported through the years by a constant investment in and commitment to research and innovation.



SECTORS

✓ LABELING

✓ CODING

✓ COSMETICS





This generated the success which allowed Tecno Pack, during these years of continuous growth and development, to purchase and revive three companies and see them flourish: General System Pack, IFP Packaging, and Euroimpianti.

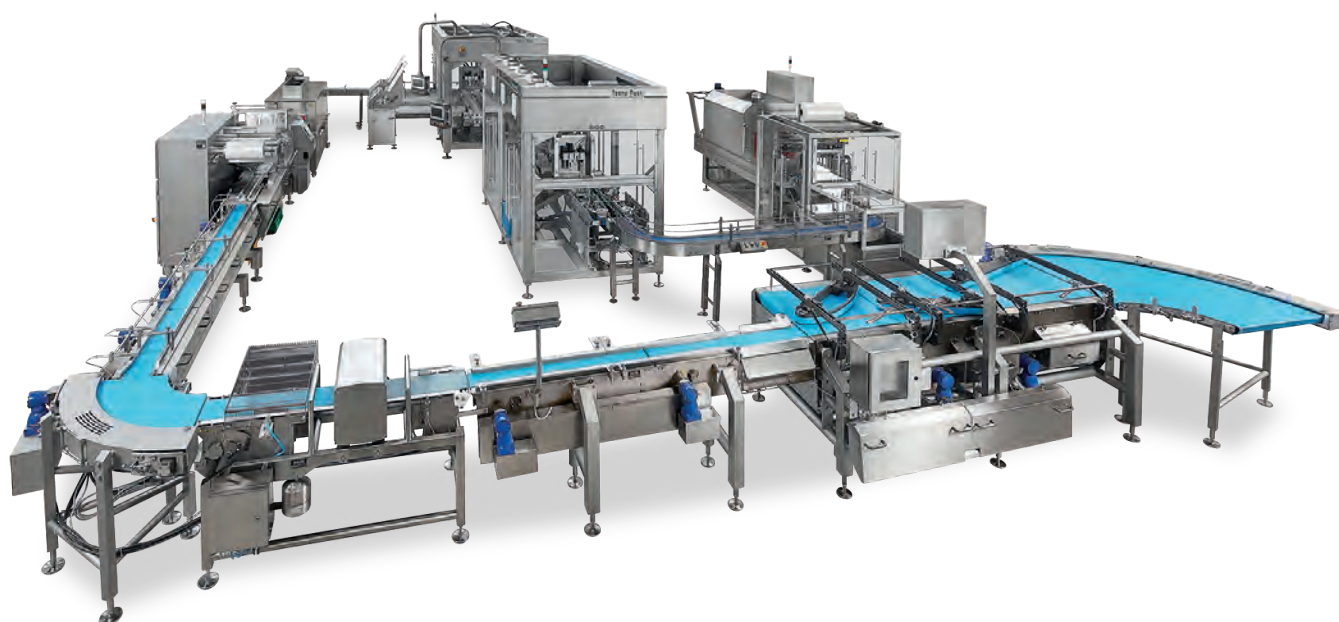
Thanks to their global technological portfolio, the group of Schlio companies is now recognised as a world leader in the packaging industry, providing a global solution that covers everything from product manufacturing to packaging, at every stage. Their automated solutions, tailored to each individual client company, integrate primary, secondary, and tertiary packaging, as well as palletizing.

Today, the world of small and medium-sized industry that relies on the Tecno Pack group can benefit from the experience and technology that the company has developed over decades with all of the major global food groups which, by renewing their trust each day, continue to fuel ongoing research and development. www.tecnopackspa.it

www.tecnopackspa.it

Tecno Pack

PACKAGING MACHINES



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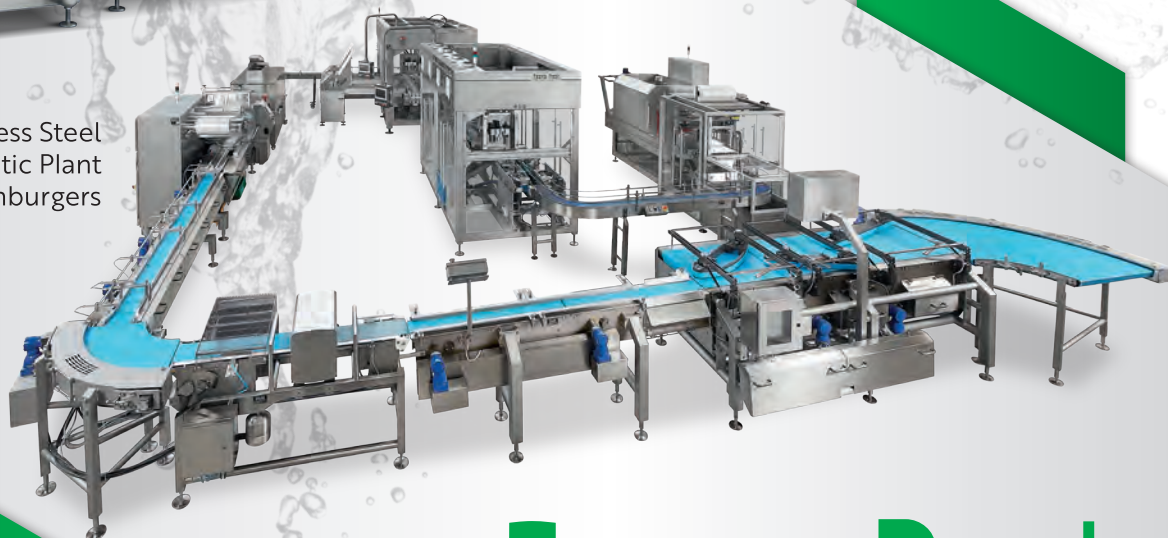
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PACKAGING MACHINES

SUSTAINABLE PACKAGING FOR DRY PET FOOD

Innovative approaches for paper-based packaging with polymers

Author: Dr. Bettina Plaumann, Kuraray Europe, Segment Team Paper & Packaging

Various trends and requirements are currently transforming the packaging market: renewable raw materials, reducing the amount of packaging material, cutting CO₂ emissions, monolayer packaging, recyclability, repulpability and biodegradability – to name a few. The overriding and most urgent trend in packaging is sustainability. That has resulted in the development of packaging concepts centred on sustainability for various types of products. In the dry pet food market, however, conventional paper packaging is considered problematic because it uses halogenated fluoropolymers to create a barrier to fat. In this sector, applying a very thin layer of carefully selected plastics may make more sense and be more sustainable.

The pet food market is booming

In industrialized countries, the pet food market has grown rapidly in recent years – in parallel with the number of pets. The restrictions imposed during the pandemic doubtless contributed to the increased interest in pets, which has also led to a boom in pet food. In fact, the number of packaging units sold is growing faster for dog and cat food than for any other type of fast moving consumer goods (FMCG): the compound annual growth rate (CAGR) was around 25 percent between 2015 and 2020.

Paper is regarded as sustainable

Consumers generally regard paper-based packaging as more sustainable. That applies to food for human consumption as well as pet food. However, it is vital to ensure that innovative packaging solutions continue to meet the full range of functional requirements for food or – in this case – pet food packaging. That is an inherent challenge for paper-based packaging because a reliable barrier to the fat content of pet food is essential. For example, cat food generally has a 10 percent fat content while the fat content of dog food is typically up to 20 percent.

Fluorinated hydrocarbons are problematic

In conventional paper-based packaging, the essential greaseproof barrier is normally achieved with the aid of

very problematic substances: fluorinated hydrocarbons. Halogenated polymers such as fluoropolymers are highly controversial because of their potential harmful effect on the human – and animal – organism. Moreover, pet food packaging containing fluoropolymers is extremely difficult to recycle. New, more sustainable alternatives to the common packaging types used at present need to ensure a similar barrier to aroma, odour and grease.

Intelligent new packaging concepts

The four paper-based packaging innovations presented here meet these requirements because their barrier properties are based on Kuraray's future-oriented polymers. These packaging solutions, some of which are already in commercial use, are ideal replacements for paper and cardboard-based packaging with greaseproof properties based on fluoropolymers. They combine sustainability with functionality.

1. EXCEVAL-coated paper bags

Example of a conceptual structure for such packaging:
Paper / moisture barrier coating / EXCEVAL coating / heat-sealable coating

This type of paper-based packaging is already in commercial use in the food sector. A thin, water-soluble EXCEVAL coating acts as an oxygen and aroma barrier.

EXCEVAL is a halogen-free, hydrophobically modified polyvinyl alcohol (PVOH) from Kuraray. It has been specifically developed to ensure that it is resistant to water, oil and grease.

EXCEVAL can be applied to paper using conventional coating equipment such as rotogravure coaters and rod coaters. Dispersions of polyolefin or other polymers are used as a heat-sealable coating on the inside of the packaging. The big advantage of these structures is that they can be repulped without problem in standard paper mills. Repulping is a technology approach that has been established in the paper industry for many years. However, it cannot be used for fluoropolymers because they are not soluble in water.

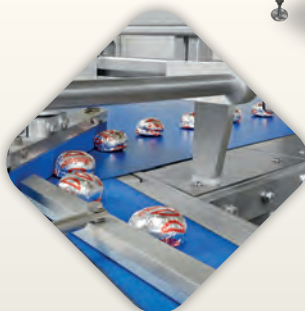
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general system pack

2. Paper-based pouches with a vacuum metallized layer of EVAL and BOPP

This packaging concept is based on the following conceptual structure:

Paper / vacuum metallized EVAL EVOH BOPP / laminated cast polypropylene

Kuraray's ethylene vinyl alcohol copolymers (EVOH) are marketed as EVAL. A film made from EVAL EVOH and biaxially-oriented polypropylene (BOPP) is metallized under vacuum with a thin layer of aluminium, creating a barrier to aroma, oxygen, light and moisture. A simple cast polypropylene foil is laminated onto the inside of the pouch to act as the sealing layer. A tenter frame is used for co-extrusion of the BOPP and EVOH for the outer layer. This packaging concept avoids the use of a far greater amount of aluminium in the form of aluminium foil. Nevertheless, EVAL EVOH provides an excellent substrate for vapour deposition of aluminium as well as an extremely reliable oxygen and aroma barrier. The packaging therefore prevents oxidation of the fats contained in dry pet food. The vacuum metallized layer is a very good light barrier and preserves the vitamin C in the pet food. This packaging concept uses the smallest possible amount of plastic and also optimizes the repulpability of the paper fibres because they can easily be separated from the small amount of polymers in the washing-step system. The reduction in the amount of aluminium deposited also makes the polymers used in this paper packaging recyclable.

3. Paper-based pouches with a metallized film layer of EVAL and MDO-PE

This packaging concept is based on the following conceptual structure:

Paper / vacuum metallized EVAL EVOH MDO-PE / CPE

This paper packaging is based on the same principle as the previous example. However, in this case, the ethylene vinyl alcohol copolymer (EVOH) is combined with polyethylene instead of polypropylene. The inner sealing layer is made of polyethylene and the vacuum metallized film and EVAL EVOH are deposited on machine-direction oriented polyethylene (MDO-PE). Thanks to the tremendous technological advances that machine manufacturers have made in production equipment for multilayer film in recent years, multilayer films with MDO-PE have become an attractive alternative. Using MDO technology, both cast and blown co-extruded films can be uniaxially oriented to achieve better properties. This packaging

concept also prevents oxidation of fat and preserves the vitamin C in pet food. The packaging does not contain any aluminium foil or BOPET. Moreover it uses the smallest possible amount of polymer and allows problem-free repulping of paper fibres.

4. Repulpable paper packaging with PLANTIC biopolymer

This packaging concept is based on the following conceptual structure:

Paper / PLANTIC film / sealing layer made of e.g. PE, PBS or PBAT

This paper packaging is already used commercially for food. PLANTIC film is laminated onto the inner side of the paper. Kuraray produces PLANTIC biopolymer from renewable raw materials. It is made from thermoplastic starch and is biodegradable and compostable (home and industrial composting). Due to its high gas barrier properties, this biopolymer can be used in packaging that preserves aroma and effectively keeps out oxygen. In this packaging concept, an inner sealing layer - polyethylene, polybutylene succinate or polybutylene adipate terephthalate - is applied to the PLANTIC film and also acts as a moisture barrier. This production technologies used for this type of packaging are extrusion coating, lamination and extrusion lamination. The inner sealing layer and adhesive can easily be separated from the paper in the repulping process. Moreover, thanks to this biopolymer, the repulping yield is higher than e.g. a conventional PE layer because the fibres do not penetrate the PLANTIC film. Consequently, all of the paper fibres can be repulped without difficulty.

Consumers and brand owners driving the trend

Greater sustainability and circularity are an urgent issue for the whole of society and are being driven forward by legislators and consumers as well as brand owners and manufacturers. The objective is to find circular packaging solutions. Several major players in the food sector, from Danone and Mondelez to Nestlé and Unilever, have already published voluntary commitments or pledges. There is still plenty of scope to improve the sustainability of packaging for dry pet food. Intelligent use of modern polymers can help give popular paper-based packaging the necessary functionality - without compromising on sustainability.

www.packaging.kuraray.eu

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FOOD AFRICA AND PACPROCESS MEA TO LAUNCH IN DECEMBER WITH AN EVEN LARGER AREA

Following the success of Food Africa and pacprocess MEA last year, concrete plans to expand this year's duo of trade fairs have begun. Here, exhibiting companies can expand their contacts in Africa and the Arab region in a targeted manner.

Food Africa, Africa's leading trade fair for the food industry, will take place together with pacprocess MEA again in 2023 in Cairo, Egypt. In the past few years, both events have developed into hot spots for the entire food industry of the African continent and the MEA region. pacprocess MEA additionally addresses all fields of application in the packaging and the related processing industry. Both events will be held from 12 to 14 December at the Egypt International Exhibition Center (EIEC) and are organized by Messe Düsseldorf, IFP Egypt and Konzept.

Months before its kick-off, the trade fair duo is already making very good progress, the total area of Food Africa has been expanded from three to four halls. This means that an exhibition area of approximately 40,000 square meters is available overall.

The decision to expand the trade fair by an entire additional hall is the organizers' response to appropriately meet the demand and create opportunities for additional formats and special exhibitions. In the past year, a total of 25,821 visitors from over 72 countries attended both trade fairs.

Egypt as an important actor on the global market

Looking back on the past seven years shows the huge development of the Egyptian food industry. The number of companies more than tripled in this time period.





Factories were continuously modernized and a total of 16.3 billion euros was invested in the food industry. Thus, the Egyptian market for food and beverages generated 4.1 billion dollars in the past year and constituted 14 percent of the country's total exports.

These figures show that the future of the Egyptian food and beverage market is promising.

Food Africa is the industry's leading trade fair

Building on its long-standing presence in the African food and beverage industry, Food Africa has developed into the most important event for decision-makers from all over the world to harness the business potential of Egypt, Africa, and the MENA region. Here, exhibiting companies meet local, regional, and international wholesalers, distributors, and retailers.

Exhibitors and visitors of Food Africa profit from further benefits: The hosted buyers program brokers relevant contacts and enables planning security and thus contract con-

clusions directly on site, which gives exhibitors the opportunity to expand their business. Another important part of Food Africa is the specialist conference that brings together international experts to discuss various topics in agriculture and food science. At the Live Cooking Show supported by the Egyptian Chefs Association, local and international cooks will prepare unique recipes. The Barista Show is a prestigious contest that coffee experts shouldn't miss.

Pacprocess MEA unlocks potential

pacprocess MEA is also highly anticipated, the event is under the umbrella of the interpack alliance and will again showcase a wide range of packaging materials, processing, and packaging technologies as well as solutions for automation and digitalization. In addition to benefiting from the strong food industry in Egypt, the exhibiting companies are also operating in the environment of a strong consumer market with more than 100 million inhabitants, which offers a huge potential for consumer goods manufacturers. The Egyptian packaging, printing, and processing industry has reported considerable growth in the last few years. For example, printing and packaging exports increased by 37 percent in the first half of 2022. The Egyptian printing and packaging market is also expected to expand with a forecast yearly growth rate of 4.1 percent between 2021 and 2025.

pacprocess MEA also supports business on site with a hosted buyers program that facilitates worldwide networking between exhibitors and professional buyers as well as a specialist conference that brings together international experts from the packaging and processing sector.

For more information, visit

www.foodafrica-expo.com

www.pacprocess-mea.com



UNIVERSAL PACK: NOT JUST SUPPLIERS OF PACKAGING LINES, BUT ALSO PARTNERS.

FLEXIBILITY AND INNOVATION IN PACKAGING LINES AND SERVICES

Universal Pack is an Italian company specialized in packaging for food and pharmaceutical products. Thanks to advanced technologies and collaborations with important industry partners, the company can provide personalized and innovative solutions.

It is also strongly committed to environmental sustainability and the highest quality and safety of its products, particularly in the pharmaceutical line. We wanted to learn more about the types of packaging lines and markets served by this historical industrial reality in Romagna.

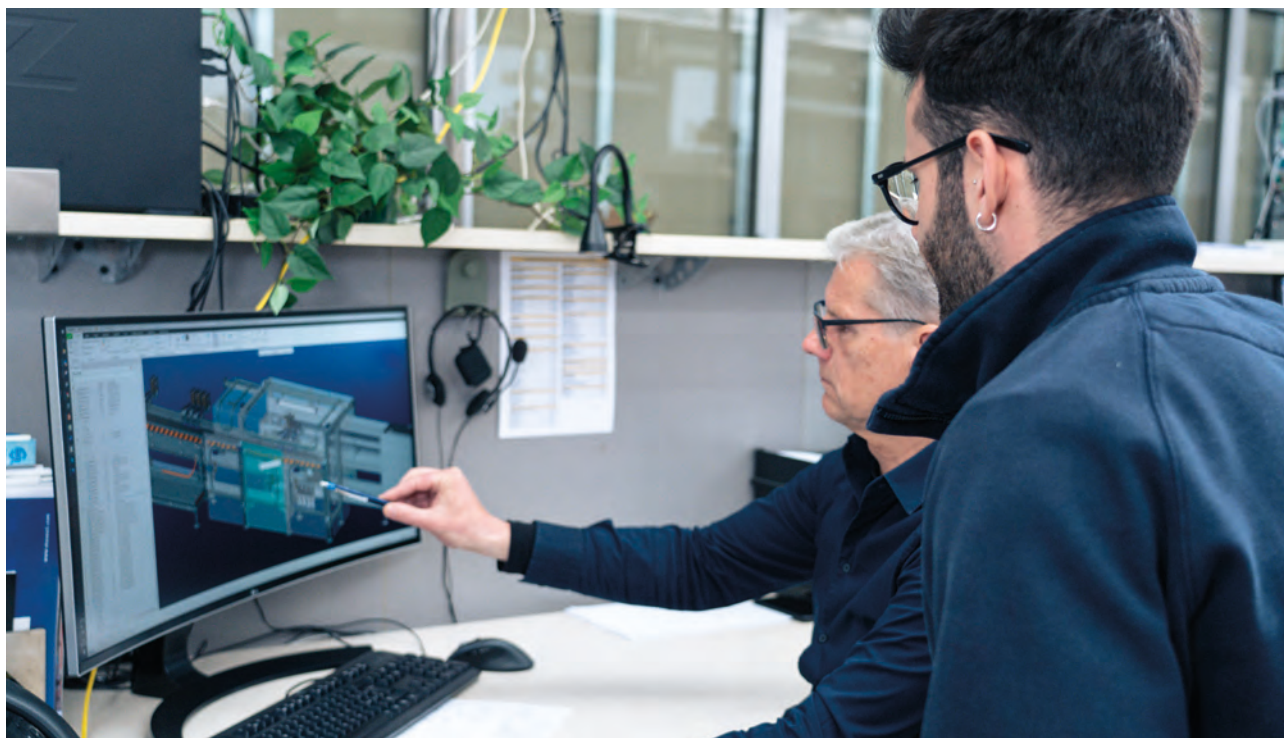
Let's start with the concepts of flexibility and versatility, which are some of the strengths of your know-how.

At Universal Pack, we are aware of the different needs of our customers, who require specific and customized products. For this reason, we have invested in advanced

technologies that allow us to provide a wide range of packaging solutions. We are also able to work with different types of materials and easily adapt to different production needs.

How important has this flexibility been in your business, and how important is it for your customers today in creating your lines? Can you give us an example?

A very relevant example is our SYNTHESIS ALFA Flexi, a stick-pack packaging line designed for maximum flexibility and not just high performance. It is a compact and flexible line with a modular format change, particularly suitable for small production batches or for third-party manufacturers, allowing for a rapid format change that is particularly functional for those who, for example, need to switch from packing liquids to powders during a production batch.





We know that environmental sustainability is an important issue for many companies in the packaging industry. Universal Pack has already started using recyclable or recycled films. What are the company's next objectives in this field? Sustainability is one of our fundamental values, and we are working to reduce the environmental impact of our activities.

Our goal is to increasingly use ecological materials and reduce waste production. Currently, 70% of our machines use recyclable or recycled films.

However, we are working to increase this percentage and develop new solutions that are even more sustainable.

Universal Pack has an internal laboratory and collaborates with important partners in the food industry. What are the main research and develop-

ment activities of the company, and how do they translate into innovative solutions for its customers?

Research and development are fundamental elements of our work. Our internal lab allows us to test new materials and develop new packaging solutions. In addition, we collaborate with important partners in the food industry, such as Unilever and Nestlé, to develop innovative products using our internal laboratory for analysis and studies. One of our goals is to offer increasingly sustainable packaging solutions that guarantee maximum quality and safety for consumers.

The quality of products and consumer safety are top priorities for Universal Pack, particularly in the pharmaceutical line.

How do the product traceability and serialization systems work, and how does the company ensure

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PACKAGING



PHARMACEUTICAL



FOOD



four chats with...



that each batch meets the required standards?

Consumer safety is one of our top priorities, especially in the pharmaceutical line.

To ensure the highest quality of our products, we use advanced traceability and serialization systems.

What consulting services do you offer your customers to help them test their products, particularly with regard to packaging materials or how the product reacts when packaged?

Our customer consulting service mainly focuses on evaluating the performance of films, particularly their elasticity and how the products behave when packaged.

We use specific testing techniques, for example, to assess the laminated film's ability to withstand deformation and return to its original shape after stress.

Based on the test results, we provide our customers with advice on how to improve the quality of their product packaging or how to select the right type of film for their specific needs.

Our goal is to provide our customers with personalized and high-quality solutions, not only as suppliers but also as reliable partners in their business.

www.universalpack.it



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INNOVATIONS IN PHARMACEUTICAL PACKAGING: TECHNOLOGY FOR PATIENT SAFETY

From blister packaging to RFID technologies, the pharmaceutical industry is constantly investing in research and development of new packaging solutions to improve the quality of life for patients. This article explores the latest innovations in pharmaceutical packaging that are improving the safety and efficacy of medications.

In recent years, the pharmaceutical industry has made significant strides in the research and development of technologies and innovations in product packaging. This has allowed for the improvement of medication safety, efficacy, and ease of use for patients.

One major breakthrough in pharmaceutical packaging is blister packaging, which offers a secure and effective solution for the distribution of medications, particularly those that require precise dosages. Blister packaging can be made from various materials such as PVC, aluminum, or PET, and can be easily sealed to ensure product freshness and safety. Other innovative technologies in pharmaceutical packaging include single-dose sachets and child-resistant bottle caps. Single-dose sachets provide a convenient and portable alternative to traditional bottles, while child-resistant caps ensure that medications are protected from any accidental incidents at home.

Digital printing and laser coding are also important innovations in pharmaceutical packaging, as they allow for important information such as active ingredients, lot numbers, and expiration dates to be directly printed onto containers, making it easier for patients and healthcare professionals to identify products.





Our Editorial Office

New packaging materials have also been developed to improve the stability of pharmaceutical products. These materials are designed to withstand extreme environmental conditions, such as humidity, light, and temperature, ensuring that medications remain stable and safe for use during transport and storage.

Finally, the use of Radio Frequency Identification (RFID) technology is becoming increasingly widespread in pharmaceutical packaging. This technology allows for real-time tracking of products during distribution and storage, ensuring that medications reach patients in the safest and most timely manner possible.

Overall, it is evident that research and development of technologies and innovations in packaging are essential in ensuring the safety and efficacy of pharmaceutical products.

These innovations allow the industry to provide high-quality solutions that improve the health and well-being of patients, making the future of the pharmaceutical sector increasingly promising.



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 PHARMACEUTICAL

latest news



GPI, THE EXTENT OF SUCCESS IN THE FOOD INDUSTRY

To manufacture a successful end-of-line plants it is crucial to become customer's algorithm, and to be a proactive listener of his visions, an expert able to provide efficient and personalized answers.

It is not by chance then that GPI's motto is "Tailor made innovation with reliability", a catchphrase for innovative, customizable and highly renowned technologies.

In the forefront of the sector, GPI - Geo Project Industries has created a team of skilled experts in packaging advice and sales engineering able to build tailored solutions upon their partners' production and sales requirements.

GPI offers a comprehensive range of horizontal cartoning machines, forming machines, closing units as well as flexible lines and modular projects whose arrangement and configuration are adjustable.

That's a real revolutionary governance of the production of some of the most popular international brands.

Tailor made plants whose every single phase - from depalletization through primary and secondary packaging and right to palletization - expresses highly specialized know-how to meet customer's requirements down to the finest details, in any food sector.

A customized and successful answer in various sectors, such as dairy, confectionery, pasta, yoghurt & juice, frozen and dry food, and pet food.





GPI GROUP
GEO PROJECT INDUSTRIES



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 **PACKAGING**

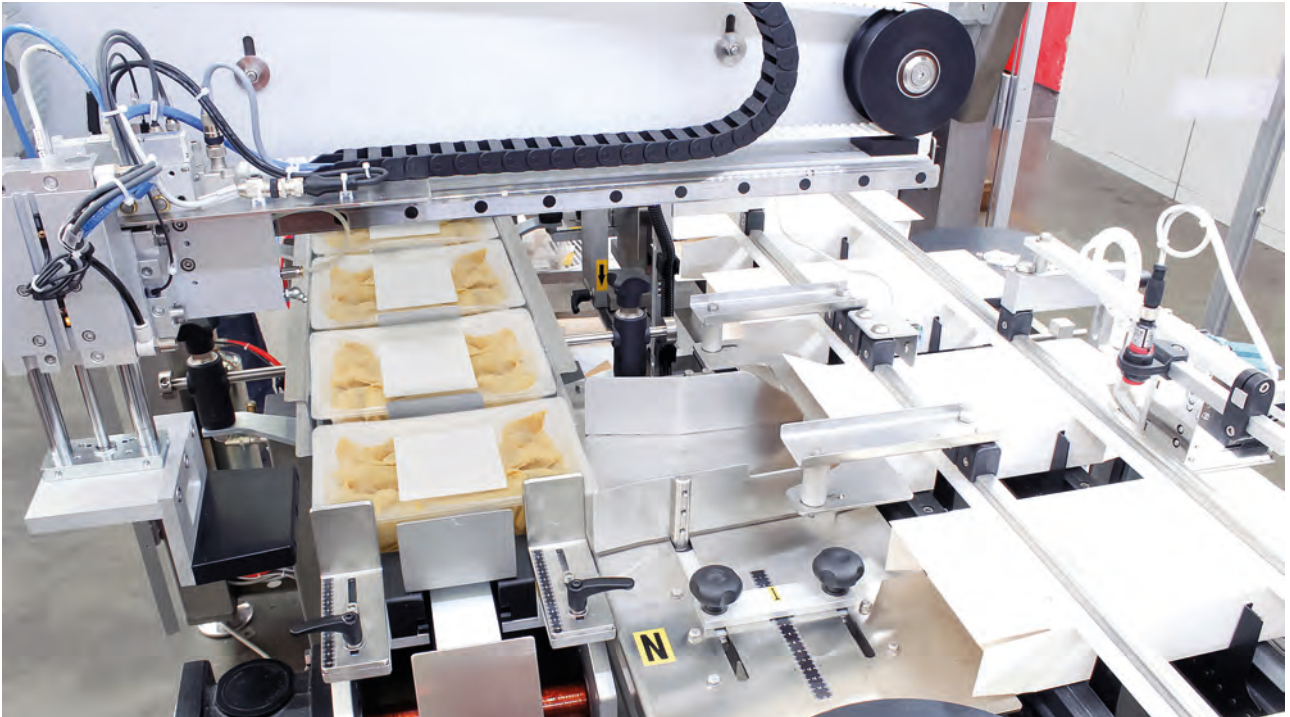


The demand for automation in end-of-line packaging processes is growing, such as pouches, doypack, flowpack, bags, sachets, alu-trays, and thermoformed trays, in different formats and materials. It is also worth remembering the most appreciated and unquestionable advantage of the pouches: moderate logistic expenses, easy disposability for end consumers thanks to small volumes, and sustainability deriving from low carbon footprint: energy cost per each package is lower and footprint minimal. Environmental awareness sharing continuous innova-

tion to be on the frontline of packaging evolution, which needs fast and constant study to safely handle the most diverse types of packaging.

Such teamwork also involves all the company's co-operators in an environment that focuses on innovation, full customization and reliability, values that blend with GPI's passion and well-established experience.

www.gpindustries.eu



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**innovation
towards
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technologies*

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MINI MOTOR REVOLUTIONIZES FORMAT CHANGEOVER INTRODUCING FCL, THE INNOVATION ALIGNED WITH THE FUTURE

Mini Motor, Italian leader company in the field of innovative solutions and mechatronics, integrates electronics and computer science into its motors, designed to adapt to the needs of a constantly evolving market such as industrial automation and motion control.

The company, with over 55 years of experience and an extensive network of distributors, is currently present in over

50 countries with branches in Europe, the USA, and the United Arab Emirates, in order to reach an ever-increasing number of companies worldwide with its innovations.

The latest marvel from Mini Motor is called FCL (Fast Change Linear), and is the ideal solution for **linear format changes**.

Designed to adapt to all applications that require a linear type of format change, it's available in two versions, both 100 and 200 mm of extension range, applicable both vertically and horizontally.

This solution is especially suitable for machines that require frequent format changes, such as the movement of sides and barriers in the adjustment of belts within machine flow.

FCL is made to last over time, thanks to the care and attention used in materials choice: the shaft is stainless steel and is IP 65 classified, therefore dust and water protected.

It can push up to 200 newton of force and supports 5 kg on fully extended shaft, thus ensuring high-level performance.



SECTORS

**INDUSTRIAL
AUTOMATION**

FORMAT CHANGEOVER

But the real strength of FCL, like all products in FC family, lies in its **versatility** and **technological innovation**. Equipped with the most common field buses for connectivity, it can also be integrated with Mini Motor's new COA (Can Over Air) wireless technology.

Mini Motor offers the possibility to adapt FCL to the specific operational needs of customers, providing **customized response** to the most complex challenges, as an added value to the product.

With FCL, Mini Motor does not just offer a quality product, but proposes an integrated solution, that can meet the

most different needs and increase efficiency and productivity by reducing machine downtime.

This product joins the range of the FC rotating format changeover.

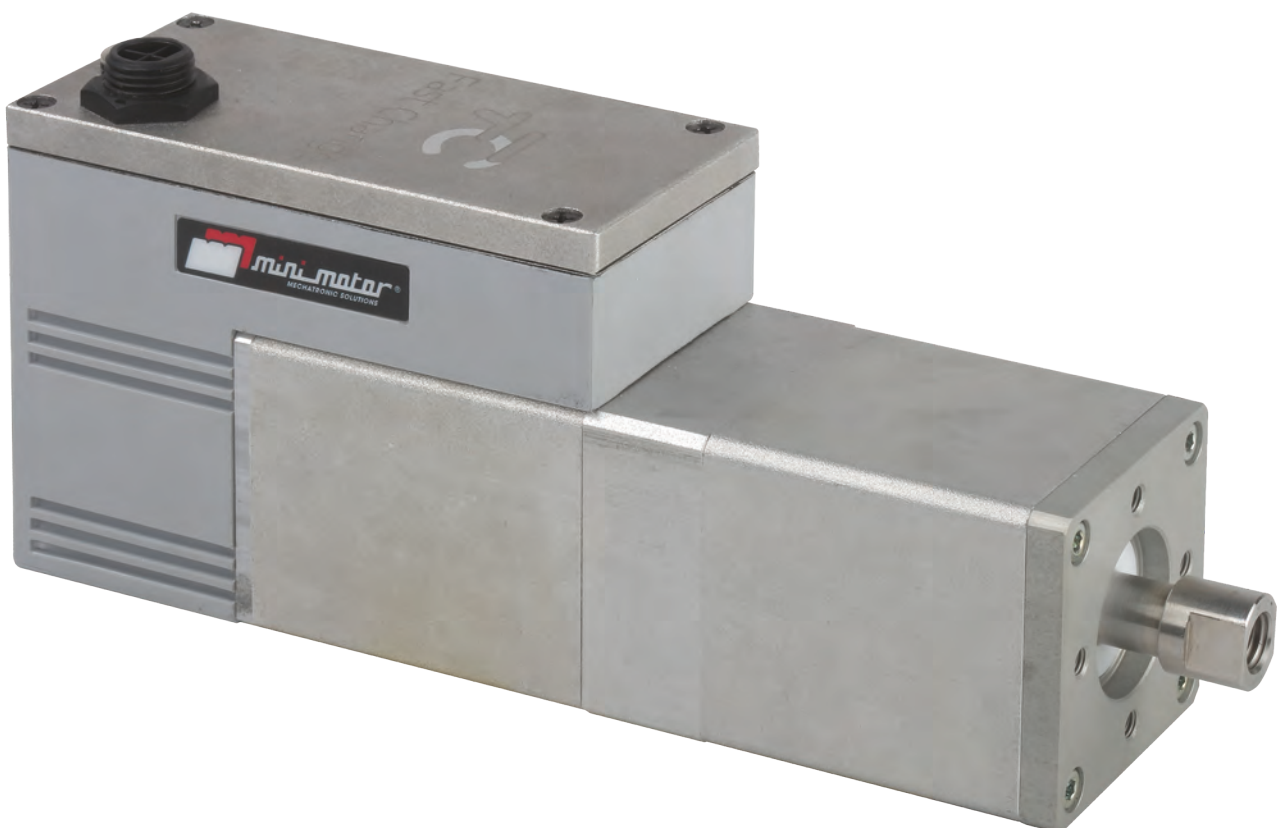
A real revolution in the world of format change, which once again confirms the company's commitment to innovation and customer satisfaction.

A commitment that, as demonstrated by FCL, shows no limits.

www.minimotor.com



Fast Change
Linear



OPPLIGER: THE EXCELLENCE IN SHEET-TO-SHEET LITHO-LAMINATING

Since 1994, Oppliger, a Swiss engineer, is leading the market of the laminators. Our facility is located in Brescia, Northern Italy.



The fully automatic sheet to sheet litho laminator Oppliger Sintesy 1616 S3 and 2020 S3 is an extremely high-performance machine that is fundamentally different from the rest of the machines on the market thanks to its innovative technical characteristics.

Some of the key characteristics that make the Oppliger Sintesy line one of the leaders in the world market include: high-speed performance of up to 9000 sheets per hour, a no-waste concept, high-precision lamination even with large formats, set-up times of just one minute thanks to the Matic S3 system and savings on glue consumption of up to 35%.

Thanks to all of this and more, another well-known manufacturer of machines within the graphics and converting industry has chosen to build the Sintesy machine under licence. In addition, its edge-to-edge lamination, coversheets with grammage below 150 g/m² and several new

technical details have also become standard for this machine line.

Another key feature of the Sintesy machine is its compactness: thanks to a unique delivery system it is only 56 ft in length which makes it on average 28 ft shorter than its competitors without compromising on quality or reliability. Sintesy is available in two sizes: 65"x65" (standard) and 81"x81" (maxi). It is also modular, which gives greater flexibility for the user.

Yet another selling point of the Sintesy S3 product line are auxiliary machines that allow it to be 100% integrated into the end user's existing production line.

One such auxiliary machine is the new DUPLEX pre-feeder, which feeds the substrate completely independently with any kind of material and allows the user to operate the machine automatically and safely. The



other auxiliary machine is the innovative Un-Flip-Flop Pile Equaliser TWIST 160 that normalises pallets with laminated sheets and is stacked in such a way as to avoid the warping effect.

The ready-formed and alternated packages are stacked in an even pile ready to go into the die-cutter, hence avoiding the need for manual operation by at least two employees in the die-cutting department.

The latest sales figures from Italy, Spain, Poland, Ukraine, the US, France and so on confirm the global leadership of our company. For us there are no problems, only solutions to meet the needs of our customers. It also enables them to combine the pre-feeder with a corrugator to create an 'in-line' production set-up without compromising

the functioning of the standard sheet-sheet lamination. Many major customers have chosen the Sintesy S3 solution from Oppliger for its technical features which differ so much from anything else on the market. When a potential customer is deciding between the Sintesy S3 and one of our competitors' products, all we have to do is demonstrate our machine on their premises and we will always come out on top. No one of others machines gave even comparable results to those achieved by the Sintesy S3 when it comes to performance and reliability. Several very important companies in the USA have placed their trust in Oppliger's Company.

www.oppliger.eu



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✓ PACKAGING

✓ PAPER CONVERTING

✓ LITHO-LAMINATING



MODULAR CM: FLEXIBILITY & COMPACTNESS. THE P.E. LABELLERS LABELLING SOLUTION PREFERRED BY WINE & SPIRITS

Modular CM is another P.E. labeling solution that combines flexibility and compactness

Modular CM is exhibited
at Vinitaly Enolitech 2023:
P.E. LABELLERS stand
Hall F | Booth B5

The labeling machine completely ergonomic and flexible, with the layout reconfigurable quickly and easily.





The new rotary labeling machine is completely ergonomic and flexible, with its layout reconfigurable quickly and easily. Modular CM is a compact and solid machine available in 4 sizes from small to medium, up to 6 labeling stations, perfect for glass and plastic bottles, cylindrical and shaped formats, and for partial labels – front / back, neck labels, plastic I/L/U shape tax stamps. This solution has all the features to be loved by many sectors that need a small to medium-sized labeling machine, super flexible thanks its complete modularity, with a layout that can be reconfigured easily and quickly. In particular this ergonomic labeling machine meets perfectly the needs of many producers and bottlers in the Wine & Spirits sector. In addition to Wine & Spirits, Modular CM also satisfies the production needs of the Oil, Beer, Food & Dairy industries. It features labeling stations with pressure sensitive technology and cold glue, reciprocally interchangeable; they are replaceable in a few steps according to any production needs. The Modular CM is a machine that provides the highest standards of safety for the operators: it has up/down protections that, when raised, instantly stop the machine's operation. Modular CM was in the spotlight of many 2022 international trade shows, and also this year it will be present in significant fairs. The first in roadmap: Enomaq (Zaragoza – ES, 14-17.02.23) and Vinitaly | Enolitech (Verona – IT, 2-5.04.23).

www.pelabellers.com



 **P.E. LABELLERS™**

Founded in 1974 in Mantua (Italy), P.E. Labellers is a global leader in the design and manufacture of entirely modular and ergonomic automatic labeling machines. The developed solutions offer all available labeling possibilities, even reciprocally combined, through independent and interchangeable machines and stations. The company's lean production is inspired by the concept of total flexibility: with this Design Innovation approach, P.E. Labellers produces 450 machines each year, both rotary and linear, for the beverage, wine & spirits, food & dairy, but also personal & home care, pharma, chemical and pet food sectors. Today, 10,000 P.E. machines are installed worldwide and widely managed remotely thanks to continuous support and maintenance services. P.E. Labellers features a global dimension: 8 production sites distributed amidst Italy, US, Brazil and 500 employees all over the world. The company is part of the multinational group ProMach, a world leader in Packaging.

SECTORS

 **WINE & SPIRITS**

 **FOOD & DAIRY**

 **BEVERAGE**



ROTOPRINT, PACKAGING FIRST AID SINCE 1978

Rotoprint Sovrastampa S.r.l., born in 1978 in Lainate (Mi), with the packaging saved from waste and refurbished in the forty years of activity, has recovered over 1,000,000 km, it could go around the world almost 25 times.

This important result was achieved thanks to the system invented by Gian Carlo Arici to modify already printed, wrong or obsolete packaging, with overprinting with rotogravure machines.

Rotoprint specializes in graphically modifying pre-printed packaging, whether in formats (tetrapak, combibloc, elopak, boxes, cases, clusters, envelopes, bags) or in reels with single or multi-layer support (AL, CA, PA, PE, PP, PET, sleeves, tetrabrik, ecolean, adhesive labels, etc...).

Attentive to the environment, it has adopted the UNI EN ISO 9001 Certified Quality Management System.

Numerous awards that the company has collected over the years at an international level for eco-sustainability, including the WorldStar Packaging Award 2015, the most important world award in the packaging sector awarded each year by the World Packaging Organization.

The recognition received by Enel and the Symbola Foundation, which included Rotoprint among the examples in the report "100 Italian circular economy stories", was very important. Among the hundred leading Made in Italy companies, Rotoprint Sovrastampa stands out for having

brought something unique to the market, a system (International Patent - patented in the United States) that allows companies to fully recover their non-usable packaging leftovers (a due to errors, defects, updates in the labels, etc: it happens more often than you think) until the last participation with excellent results at the Nuremberg Fachpack 2022 fair.

"Ours is a small business and each order is handled with artisan care and in a personalized way.

At the same time, we have given ourselves an industrial perspective, because we are able to manage large orders and oversee the DE, FR, BE, NL, SP markets, declares the CEO Giovanni Luca Arici.

*Before Overprinting /
Prima della Sovrastampa*





After Overprinting / Dopo la Sovrastampa



SECTORS

- ✓ PACKAGING
- ✓ OVERPRINTING
- ✓ FOOD



*Before Overprinting /
Prima della Sovrastampa*



*After Overprinting /
Dopo la Sovrastampa*



While being able to count on a unique technology of its kind, Rotoprint does not stop innovating. For example, there is also flexo overprinting, a system that makes even the orders of small quantities of overprinted material convenient, which thanks to the automatic changeover and the latest generation technology is able to significantly reduce processing waste and guarantee quality with a "100% control system". And then, as always, there is the aspect of respect for the environment: "A project for the

use of water-based colors in overprinting is in progress, a further guarantee of eco-sustainability - concludes the CEO of Rotoprint -. It took a lot of study and research, because using these colors in overprinting is a demanding technical challenge. But we believe it is important to take the path of innovation and environmental sustainability to bring our customers further added value ".

www.rotoprint.com





OLIVER HEALTHCARE PACKAGING STRENGTHENS SUPPLY CHAIN, ADDS IN-REGION FILM & FOIL PRODUCTION

Acquisition of EK-Pack latest investment to bolster commitment to customers throughout Europe.

Oliver Healthcare Packaging, a leading supplier of sterile barrier flexible packaging solutions to the global healthcare market, today announced the acquisition of EK-Pack Folien GmbH, a manufacturer of high-quality film and foil technology, located in Ermengerst-Wiggensbach, Bavaria, Germany. This acquisition includes Vacopack H. Buchegger AG, a fully owned subsidiary of EK-Pack, based in northeastern Switzerland. As a part of the agreement, Oliver will acquire:

- The EK-Pack facility which has 23000 square meters of manufacturing space with 8 production lines for the production of complex multi-layer film and foil laminations.
- The Vacopack facility with 5150 square meters of manufacturing space and specialty equipment to support a wide range of bag packaging production.

“We are thrilled to see this partnership come to fruition,” stated Michael Benevento, President and Chief Executive Officer of Oliver Healthcare Packaging. “This acquisition gives us greater control over our supply chain and allows us to innovate new products to meet our customers’ evolving needs. In recent years, we have invested heavily in the European region to better support our customer base. This vertical integration is a strategic way to build scale and flexibility while insourcing many of our packaging materials.”

Marco Ziegler, speaking for his family as owners of EK-Pack, added: “We are proud to now be a part of Oliver! Oliver has carved out a leading spot within flexible packaging for healthcare, and this partnership should only strengthen that, especially in Europe. EK-Pack has been family-owned for 40+ years, and that’s how Oliver began as well. We are excited to continue providing reliable supply to our food customers while also expanding our



activities in healthcare. We know that our talented employees will no doubt feel right at home, contributing their expertise in packaging to ensure our collective success for many years to come.”

This acquisition is the latest in a series of multi-million-dollar investments that Oliver has made in Europe. Earlier this week, they hosted a grand opening celebration at their manufacturing facility in Venray, The Netherlands, which was recently expanded to more than double their manufacturing footprint. Other investments from Oliver have included programs to regionalize their supply chain, add additional converting equipment, and invest in automation technology.

For more information about Oliver Healthcare Packaging visit www.oliverhcp.com

SECTORS

 **PHARMACEUTICAL**

 **DIAGNOSTICS**



SCANNY3D: GEOMETRIC DEFORMATION CONTROL ON GLASS BOTTLES

Scanny3D has designed and developed a double laser spot rotating 3D scanner. It is a patented device, 100% “Made in Italy” that performs a 360 ° scan without contact, at high speed, at very high resolution and in a completely automatic way.

The 3D scanner allows you to digitize and analyze bottles, plastic bottles, containers of any material and shape and various accessories.

The device returns a high fidelity 3D model and the supplied software offers numerous functions designed specifically for the beverage, packaging and bottling sector, among which the possibility of exporting the 3D model as a “solid”, thus ensuring maximum compatibility with the main CAD-CAM software.

The scanner management software contains many features, including: section analysis and measurement; assessment of the centers of gravity; automatic alignment; symmetry calculation; quality check; evaluation of inclination and stability etc.

One of these functions, for example, allows you to obtain and analyze all the sections of the bottle, easily carry out all measurements, evaluate the centroids of the sections, align the 3D model based on the center of gravity or the symmetry of a section and more.

Among these numerous features, one is of particular importance for quality control on bottles.

This function allows you to geometrically and numerically evaluate the deformations of a bottle with respect to the “theoretical” model or with respect to a reference bottle.

With this function, the software automatically calculates and displays the ovality of a section of the bottle, the accuracy of the bottleneck screw, the symmetry of the neck, the inclination (slope) of the bottle with respect to the plane, any deformations in the lateral surface of the bottle. , and much more.



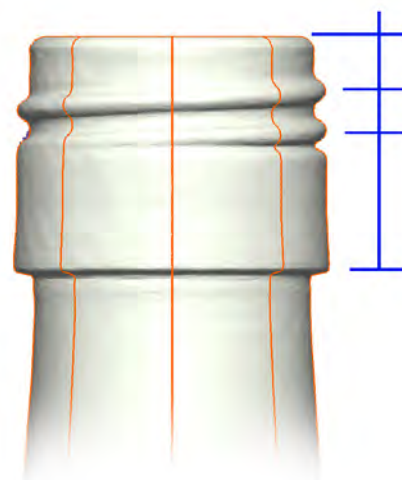
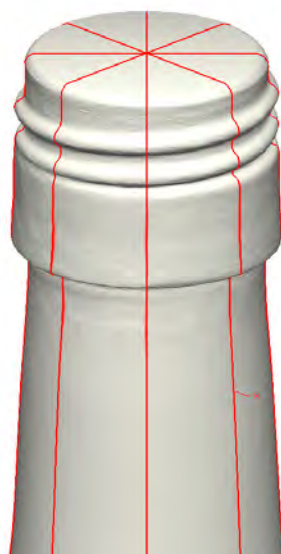
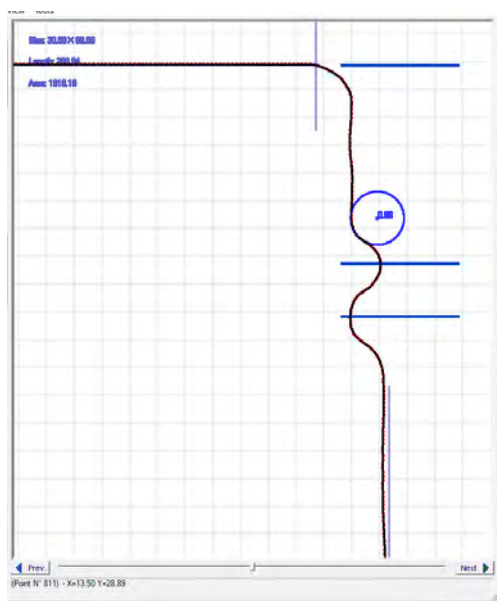
SECTORS



AUTOMATION



FOOD AND NON-FOOD

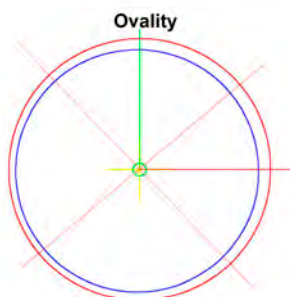
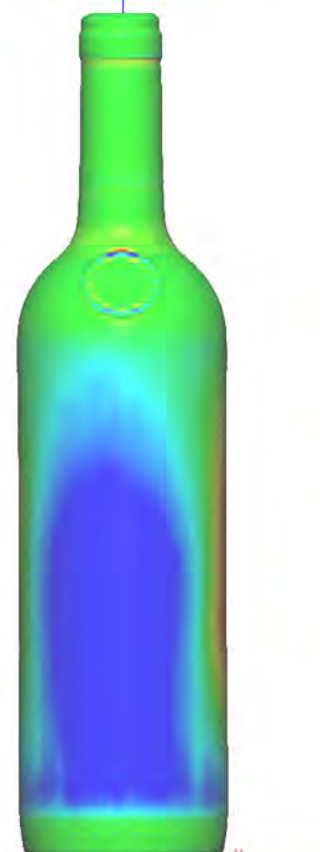
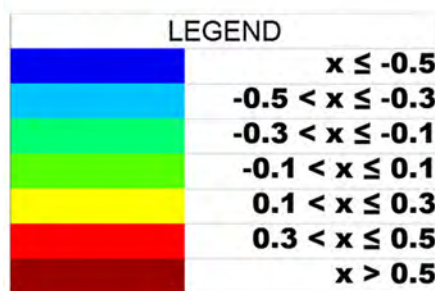
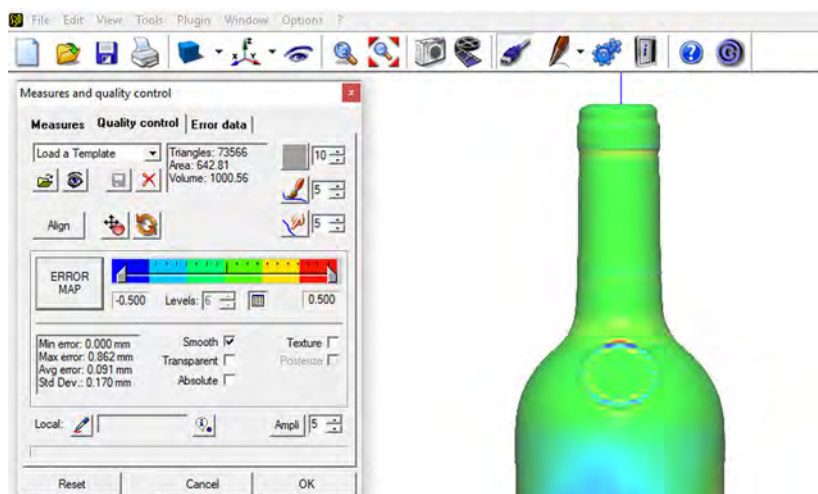


The automatic screw control of the bottleneck, among other things, is very important to ensure a perfect closure of the cap.

These geometric evaluations are carried out automatically by the software, which generates both a graphical and numerical report, and it is possible to export the results in various formats (eg Excel) for statistical purposes.

The constant mission of the R&D department is to design systems that are increasingly accurate, reliable but at the same time easy to use for the end customer, thanks to the use of cutting-edge technologies.

www.scanny3d.com



SCANNY3D
Sistemi di scansione laser 3D
3D laser scanning systems

NOT JUST GOOD. SMI SOLUTIONS FOR THE FINI GROUP

In Modena, Italy, food has a tale to tell!



When speaking about food it is impossible not to become enthralled by the history of the **Fini Group**, an important industrial reality in the food sector, whose products represent the best of Italian passion and gastronomic tradition. A tradition that began in 1912 and is still in constant evolution, guided by a very simple company mission, represented in three words: **Not Just Good**. Because when it comes to food, good is not enough. For the secondary packaging of their own brand “**Le Conserve della Nonna**”, the Modena based company chose the **SMI** shrink wrapper from the **CSK ERGON** series, suitable for packaging a huge variety of bottles and glass jars in film only, pad + film and tray + film

Not Just Good – The tradition of homemade food

FINI is the brand of fresh filled pasta, which represents all the flavours of the Emilian tradition in the kitchen, in Italy and around the world.

The Fini brand originated from the knowledge and flavours of an ancient gastronomic tradition, but which is constantly renewed.

Only in this way, every day, can we eat something that is not only good, but which also has a story to tell.

The **Fini Group**, also plays an important role in the canned sector, thanks to the “**Le Conserve della Nonna**” brand,

an Italian company that believes in the simplicity of products and uses natural processes.

In the wide range of references, typical of all Italian regions, the company offers sauces, condiments and jams, prepared according to traditional methods using carefully controlled and organized, industrial processes to ensure the highest quality of products.

The Feeling of ... home! The secret of so much goodness.

The industrial process at the origin of the production of foods from the brand “**Le Conserve della Nonna**” is organized mainly according to the values of the local culinary tradition, the simplicity of the recipes and the indisputable quality of the freshly harvested, raw materials.

The company's production is in fact, based on the concept of seasonality, as is the case for any artisan preparation. Just by looking at the finished product, be it a jar of jam or a bottle of tomato sauce, you get the feeling of... home! An irresistible appeal of healthy and simple lunches, the result of great attention and dedication, and the desire to eat in company, like our grandmothers wanted, because the more people sat at the table, the more happiness hovered in the air.

Fini's commitment to the environment

For years, the Fini Group has pursued the objective of envi-



ronmental sustainability of its activities through the aegis of its corporate mission, “Not Just Good”, which focuses on food and its goodness, as a result of a safe and controlled production process.

The entire supply chain is involved in the “mission”, from the careful selection of local raw materials, to the production and use of widely recyclable packaging, without forgetting the use of clean energy thanks to the photovoltaic systems installed in the company, which make it possible to drastically reduce CO2 emissions and optimise production.

SMI has also embraced the goal of sustainability, designing packaging systems such as the **CSK ERGON series** packaging machine installed in the Fini Group’s Moden-

ese plant, which boasts cutting-edge technical solutions in the field of energy saving and respect for the environment.

Le Conserve della Nonna

The secret of all the products lies in the genuineness of the raw materials, which are selected and worked through transformation processes that reflect traditional methods, to offer a product “like home-made”, which speaks of nature and flavours of the past.

“Le Conserve della Nonna” is the first Italian company to make preserves in transparent glass jars, just as they did in the past, to keep their characteristics unaltered, guaranteeing the correct conservation and external visibility.



SECTORS

 **PACKAGING**

 **BEVERAGE**

 **FOOD**



SMI solutions for “Le Conserve della Nonna”

To optimise the secondary packaging process of the huge variety of “Le Conserve della Nonna” brand products, the Fini Group turned to SMI for the installation of an automatic shrinkwrapper from the CSK ERGON series, which stands out for its advanced automation and flexibility of use, low energy consumption and respect for the environment.

The CSK 50T ERGON packaging machine, installed at the Ravarino plant, packs different types of bottles and glass jars in multiple pack formats in film only, pad + film and tray + film. The range of models of the CSK series of SMI shrinkwrappers includes single and twin lane models, with a compact and ergonomic design, which contain the best of the industry technology for packaging in shrink film at the maximum speed of 50 + 50 packs / minute (depending on the size of the container and the pack format).

CSK 50T ERGON SHRINKWRAPPER

Main advantages:

- very flexible production and packaging process, which allows you to quickly and easily switch from one format to another to maintain high levels of plant operating efficiency
- packaging machine equipped with a motorised system of oscillating guides at the machine infeed, which facilitates the correct channeling of loose containers on a conveyor belt equipped with chains in thermoplastic with a low coefficient of friction
- grouping of bulk containers in the desired format carried out continuously by means of electronically synchronized separation pegs and bars
- pad cardboard magazine placed under the infeed belt, from where the cardboard blanks are picked up, by means of an alternating motion picker, positioned at the start of the cardboard ramp, consisting of a group of suction cups with vacuum suction system
- curvilinear cardboard ramp in the initial and final section, to facilitate the insertion of the pad under the grouping of products at the outfeed of the electronic separator
- compact design film cutting unit, where the blade is managed by a “direct-drive” brushless motor which makes the cutting operation more precise and simplifies maintenance
- new ICOS motors, equipped with integrated digital servo-drive (driver), able to simplify the wiring of the machine and ensure greater energy efficiency, less noise and reduced wear of components;
- shrink tunnel equipped with optional metal chain and lubrication able to ensure better splicing of the film under the pack
- optional automatic format change adjustment system
- the machine is also equipped with a series of optional devices to ensure the high quality of the final pack, such as the product stabiliser and the additional 1150 mm belt, placed at the outfeed of the tunnel for rapid pack cooling.

www.smigroup.it



DOMINIONI: PRODUCTS FOR ANY REQUIREMENT

DOMINIONI SRL, certified ISO 9001:2015, is leader in the production of thermoplastic and of techno polymer COMPOUNDS: ABS - ABS V0 (ROHS) - SAN - PS - PP - PMMA - SMMA - PC - PC/ABS - PET-G - BIO.



We offer advanced products for any requirement in the field of PACKAGING for COSMETICS, PHARMACEUTICAL products, COSTUME JEWELLERY, ELECTRICAL components, HOUSEHOLD APPLIANCES, TOYS, FURNITURE, LIGHTING, GIFTS and FANCY GOODS, etc.

Thanks to its structure, our Company can guarantee to the Customers a service of total and constant co-operation made of flexibility, dynamism and reliability. Each product is the brainchild of our colorists, in direct collaboration with the customer.

The experience gained in this field give us the opportunity to rapidly realize new colors, both transparent and opaque, and special effects such as:

- metallic
- fluorescent

- pearled
- marbled
- iridescent
- wood
- opalescent
- granite

Moreover, we produce an aesthetic high-density compound with high specific weight (to be used to prevent the insertion of metal materials) suitable for painting, plating, galvanizing and UV rays metalizing.

www.dominionisrl.it



SECTORS

COSMETIC

DIFFERENT ITEMS

CAVANNA PACKAGING: NOT JUST PACKAGING LINES

Cavanna Packaging Group is well known in the packaging industry, being a leader in the field for over 63 years both on the national and international market.



Riccardo Cavanna

Company's President

Their flowpack primary packaging lines and secondary and tertiary packaging are renowned worldwide for their efficiency, reliability and functionality. Less is said, however, about an extremely important phase of the technological system provided by the

Piedmontese company but fundamental for customers: the service.

We wanted to delve deeper into the subject and understand more about what Cavanna's service consists of by directly interviewing the company's president, Riccardo Cavanna.

Dr. Cavanna, what does the service part that you provide to your customers consist of?

In addition to the wide range of packaging lines for various industrial sectors, such as bakery, pharmaceuticals, etc., we offer our customers a functional and complete digital platform that allows for the management of a wide and useful range of activities such as maintenance, optimization, access to machine data, ticketing, e-commerce for spare parts, interactive recognition and a series of other services that greatly support and facilitate the work of our customers.





Our Service division has been an independent business unit for over 20 years that provides complete support and assistance to the industry using our lines, not abandoning it at any step of the process, especially in times of need thanks to the help and expertise of about 100 people present in the service hubs around the world.

What are the market trends that influence your sector?

Cavanna has distinguished itself over the decades by being constantly up-to-date regarding market trends. Currently, for example, the world of bakery is moving to-

wards filled and coated products, with high added value, which however, involve some difficulty in the portioning, packaging and secondary packaging phases.

Based on these developments and changes, over the years we have worked to address every type of challenge and to meet every single request or need of international food and non-food companies that have also asked us for the impossible in order to package their products.

We have always taken on every project not only with the intention of providing the right solution to the customer, but also of pushing the bar even higher in terms of innovation and performance of our lines.

At Interpack, for example, we will present several stories of innovation and customization born from requests from companies around the world that we were able to satisfy thanks to determination, study and know-how.



SECTORS

✓ PHARMACEUTICAL

✓ FOOD

✓ PACKAGING

four chats with...





Let's talk about packaging style.

As I said before, every possible request for us is a challenge to overcome. We have designed lines for the creation of stacks of products, even very delicate ones, packaged in trays or inserted sideways, up to large packages. In short, we have always pursued a packaging style that satisfies the needs of both the retail and private label worlds, as well as the HORECA sector.

Let's talk about packaging materials. How do you approach the issue of sustainability?

Sustainable packaging materials are a fundamental issue.

Of course, the materials must also guarantee the most important shelf-lives, such as those in the pharmaceutical and food industries.

To this end, we have designed a sensory welding system that allows for the collection of data related to this process. From the collection and analysis of data, the customer can constantly, safely and in real-time verify the quality of the welding and, if necessary, take timely corrective action.

In short, a digital approach applied also to welding mechanical groups.

The Cavanna Service has a test lab, the TestCLab, where not only tests are carried out on packaging materials to verify the seal strength or cutting edge reductions, but also cooperations are developed with the main converters and film producers to develop and test new and more performing films.

And with respect to secondary packaging, what can you tell us?

We have developed integrated islands that allow us to design systems for primary, secondary and tertiary packaging.

Our robots do not require redundant electronics as they have been developed by us or for us, nor do they require external software platforms. They are equipped with automation that allows them to control all stages of the process.

This greatly reduces problems such as "bottlenecks" in case of critical issues and eliminates the possibility of passing responsibility between suppliers.

This is a very important aspect, an innovation in terms of corporate strategy, because it puts us in the forefront with the customer, taking on full responsibility and burden to manage the process from A to Z with a single engineering system.

The customer interfaces with a single point of contact throughout all phases of the work.

We have therefore learned more about another aspect of the Cavanna world, which confirms and explains the success and constant growth that have characterized one of the largest and most important Italian entrepreneurial realities.

www.cavanna.com



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**THE SPECIALITY
FOOD FESTIVAL**

BIOGEST SRL: ANALYSIS OF FOOD CONTAINERS AND PACKAGING

The world of packaging intended for food contact is certainly one of the continuously evolving sectors, both in the regulatory and technological fields.

All companies that produce and / or use food packaging face various problems every day.

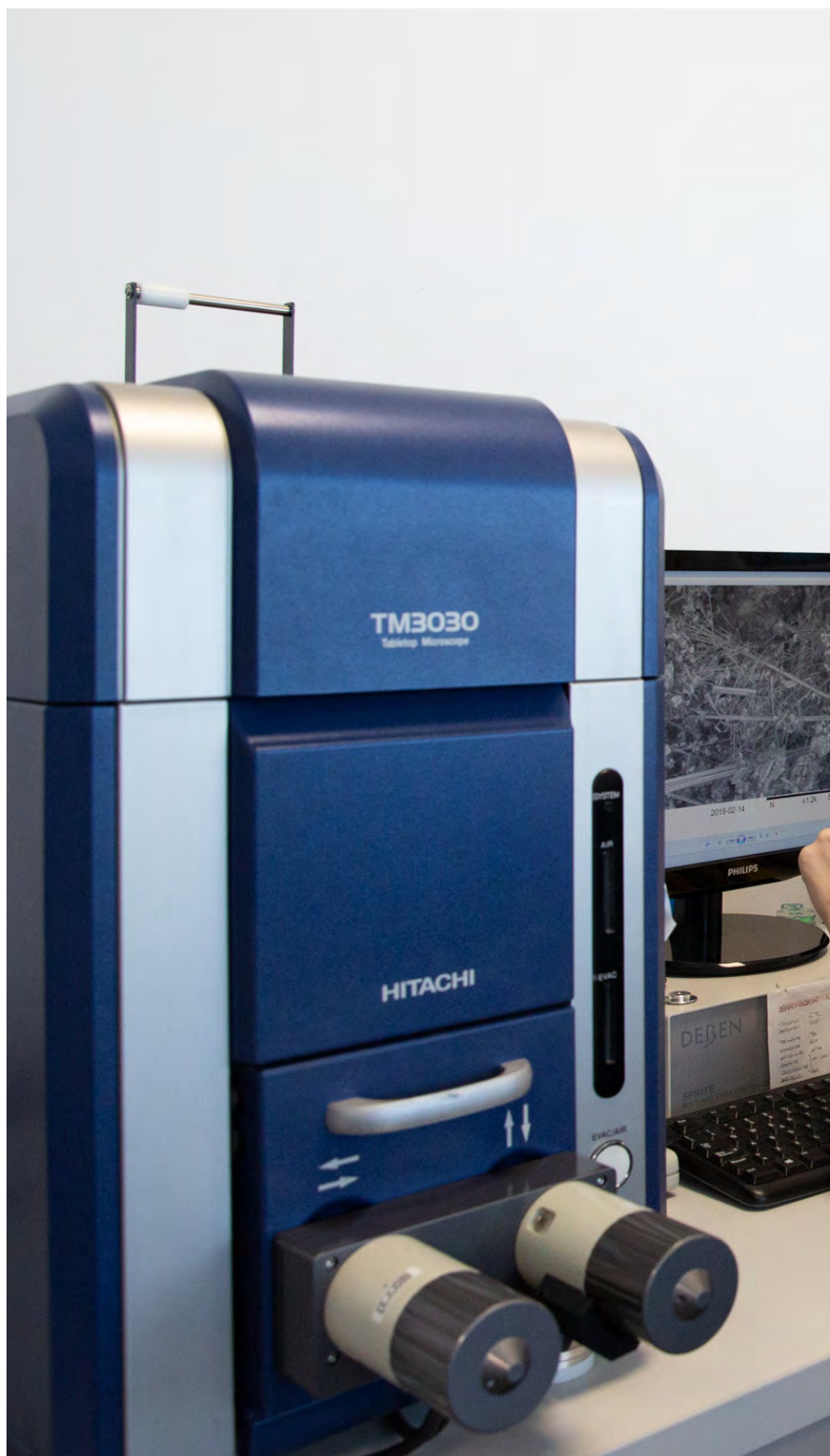
All materials that come into contact with food, from manufacturers' packaging to crockery, cutlery, glass, ceramics and food storage containers, must be tested to ensure their safety. In fact, they must not transfer unacceptable quantities of their components to food. The analysis of materials intended for food contact protects the health of consumers.

The current regulatory framework is complex, because alongside the analytical checks on the finished product, there is also the need to verify the compliance of the additives and technological adjuvants used that meet the legal requirements [Ministerial Decree 21 March 1973, Reg. CE 1935/2004 and Reg UE 10/2011]

According to current legislation, all packaging intended for contact with food requires the carrying out of global and / or specific migration tests to verify the absence of release of harmful substance.

Biogest Srl is able to carry out tests on:

- global migration according to the methods DM 21/03/73 and UNI EN 1186
- specific migrations according to the UNI EN 13130 methodologies (they include the migrations of monomers (eg. Phthalic acids, vinyl chloride, etc ...))
- migration of traces of technological adjuvants
- control of the composition
- purity requirements
- sensory analysis (PANEL TEST), both olfactory and gustatory, according to UNI and DIN standards
- migration of dyes
- searches for pollutants (eg. PHTHALATES, DIPB, Disopropylnaphtalenes DIPN, Bisphenol A, o-phenylphenol, etc.)





SECTOR

✓ PHARMACEUTICAL

✓ COSMETIC

✓ FOOD





All the determinations regarding the packaging are carried out by qualified personnel with the implementation of official national or European standards.

Food packaging and materials intended for food contact are regulated by the following regulations:

- In the EU area, for:
- All materials - Framework Regulation (EC) n. 1935/2004
- Ceramics - Directive 84/500 / EEC corrected by Directive 2005/31 / EC
- Regenerated cellulose film - Directive 2007/42 / EC
- Plastics - Regulation 10/2011 / EU with related additions and changes on plastic materials and articles that come into contact with food.
- Nitrosamine - Directive 93/11 / EEC
- Plastics BADGE, BFDGE & NOGE - Commission Regulation (EC) 1895/2005

Biogest laboratory technicians perform rigorous product inspections and analyzes for the following categories of food containers, packaging and items intended to come into contact with food:

- Paper, glass and ceramic containers (for single or multiple use)
- Jars, cans and bottles

- Plastic, metal and wooden containers
- Ceramic and glass objects
- Kitchen utensils and cookware
- Silver plated items
- Water bottles and thermos
- Baby meal set, bottle and lunch box

Biogest laboratory technicians perform the following checks to ensure the quality and safety of your items intended to come into contact with food:

- Visual examination and evaluation
- Size control
- Sensory analysis and stain detection
- Physical risk assessment
- Color bleeding
- Composition control
- Overall and specific migration test
- Substances added unintentionally (NIAS)
- Volatile organic compounds
- Heavy metals (extractable and at risk of release)
- Residual monomers and solvents
- Impurities and by-products
- REACH SVHC (Substances of Extremely Concern)

www.csagroup.it



Fornitore

ASL e presidi ospedalieri
Ferrovie dello Stato - ARPA
Mondelez - Kraft Food
Tribunali - Società Investigative



BIOGEST S.r.l.

laboratorio accreditato ACCREDIA



- **Analisi chimiche**
- **Analisi fisiche**
- **Analisi genetiche**
- **Analisi microbiologiche**
- **Consulenze e servizi**
- **Test in vitro**
- **Valutazioni in vivo**
- **Tossicologia**



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csa@csagroup.it
www.csagroup.it

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

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

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

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

Key characteristics of their applicators include:

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

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



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

www.enimac.it/en





It has tape in its DNA



Enimac

Tape Application Made Easy



SECTORS



FOOD



COSMETIC



PHARMACEUTICAL



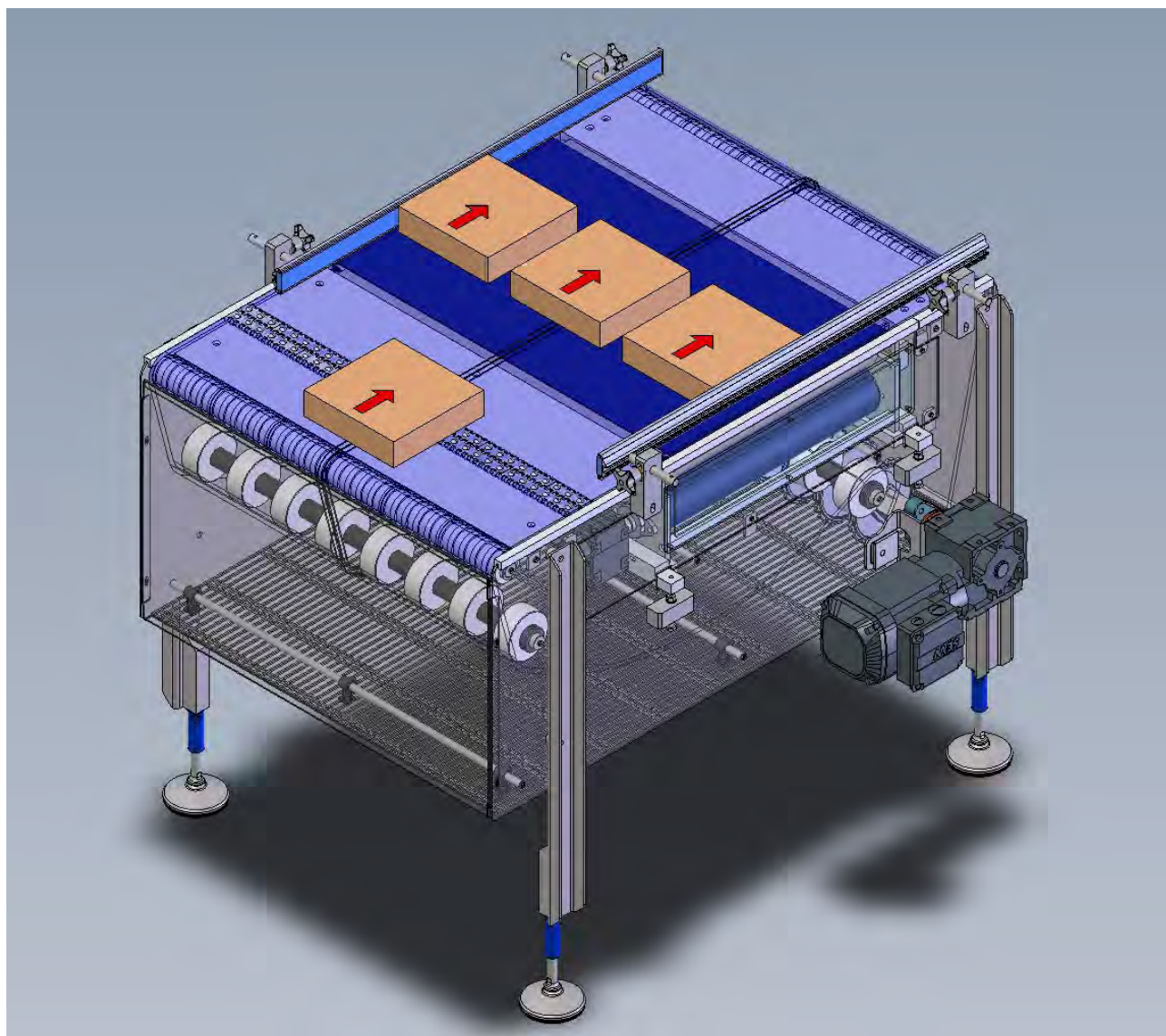
SPHERE SORTER: A VERSATILE SOLUTION FOR PRESENT CHALLENGES

The sphere sorter is a device, created originally for sorting and distribution applications in the logistics sector, which is proving to be extremely versatile to carry out numerous applications also in food packaging. The operating principle is to activate the movement of idle spheres embedded within a modular plastic chain; the operating method will lead to different results.

The simplest result is obtained by putting the spheres in contact with a uniform sliding plane during the normal motion of the chain. The action of the spheres with re-

spect to the movement of the conveyor belt leads to an acceleration of the product which, compared to the nominal speed of the belt, will approach double the set value.

The most classic application involves fitting a belt conveyor underneath the sliding surface positioned orthogonally with respect to the motion of the modular chain. Activating the motion of the belt will give the products a transverse movement component that can be used to expel, select or sort the products themselves on multiple rows. As we will see later this is the application of greatest interest to us.





Lastly, by inserting rotary plates or belt conveyors that move in opposite directions under the chain surface, it is also possible to obtain the rotation of the products with respect to the vertical axis. Precision and repeatability in positioning require particular attention to be paid to the mechanics and cyclical of these devices.

The most interesting aspect of these applications from Mh's point of view is the fact that the operation of the balls from below allows to handle even light and extremely thin products, which would not be movable with traditional systems such as blade diverters or even vertical motorized belts, without running the risk of the product getting stuck between the diverter wall and the sliding surface of the conveyor belt. Experimental tests have also revealed good efficacy in treating products with a base that is not perfectly regular, as long as the application is helped with some specific precautions. This feature is particularly important to answer to the challenges posed to handling and conveying by new types of packaging devoted to the use of composta-

ble or recyclable materials and in any case envelopes that has reduces quantity of packaging materials. An excellent example of these kind of packaging, that offer great advantages in term of reduction of plastic and ease to recycle, are the ones with a paper or thin carton base and a plastic skin enveloping the product placed over it. These are the application where the Sphere Sorter really shines. In an era in which even the approval of loans is facilitated in the case of ESG investments, this device therefore presents itself as a fundamental tool for giving value to customers.

www.mhmaterialhandling.com



SECTORS

✓ AUTOMATION

✓ FOOD

✓ PHARMACEUTICAL





PERSPECTIVE

**PERSPECTIVE of NVC NETHERLANDS PACKAGING CENTRE on
Draft IENW/BSK-2022/263822 by Ms. VLWA Heijnen MSc.**



This PERSPECTIVE comprises three parts:

1. Introduction of association NVC and its position on packaging and environment
2. Analysis of packaging and environment over the period 2013-2022
3. Policy recommendations for the year 2023 and beyond



1. Introduction of NVC and its position on packaging and environment

Every second, the world packs some 320,000 products - and the world's population unpacks them later and in a different location. NVC was founded in 1953 and now unites over five hundred companies with an interest in continually improving packaging. The NVC membership includes retailers, packaging suppliers, machine suppliers, branded article manufacturers, pharmaceutical companies, companies in the chemical industry, packaging printers, co-packers, design agencies, recyclers, testing institutes, and so on.

NVC supports its member companies by providing them with up-to-date and reliable business information, by jointly carrying out innovation projects, by educating and training their employees in packaging and by 'matching' supply and demand in the market ('market support').

Specific to packaging and environment, these include the following activities:

- a. Inform member companies of global legislative and regulatory developments through the NVC Members-only Environment Regulations Guide MERGE
- b. The NVC Workshop Sustainable Innovation in Packaging (Live Online, so 100% interactive and participation possible from any location worldwide)
- c. The PUMA Project towards the end of packaging as an environmental problem (see the enclosed PUMA MANIFESTO and all background information at: www.nvc.nl/puma)
- d. Stimulating innovation in the sector by scouting new techniques and linking supply and demand through exhibitions, conferences and the NVC online Buyer's Guide

NVC works with a 'holistic' vision to improve the activity of packaging, obviously in the Netherlands but especially also on an international scale, given the structural developments in the actors involved in packaging, like the raw material suppliers, the packer-filler industry, the logistics and the retail.



NVC has played an active role in the development of European (CEN) standards in the field of packaging and packaging waste since 1994 resulting from the European Packaging and Packaging Waste Directive of December 1994. Thanks in part to NVC's initiative and its active role in the standards development itself, the world (ISO) standards in this area were published in 2012. Photo: the plenary meeting of the ISO working groups on 6 May 2011 in Atlanta USA at the Coca Cola headquarters.



The PUMA MANIFESTO has now been published in nine languages (Dutch, English, French, Italian, Korean, Japanese, Chinese, Spanish and Portuguese). The German-language edition will be published on Wednesday 3 May 2023 during the PUMA World Conference in Düsseldorf, Germany. From 4-10 May 2023, the world's largest packaging exhibition with more than 100,000 visitors will take place there: the interpack2023. NVC will promote the results of the PUMA World Conference there from a dedicated stand (ENB/03) at the Main Entrance North.

NVC is not a 'vertical' trade association, like, for example, FNLI (the umbrella organisation of the food industry in the Netherlands) or CBL (the trade association of Dutch supermarkets) or NRK (the federation of plastics and rubber manufacturers). As such, NVC's primary tasks are therefore not to 'lobby' the central government to promote specific industry interests. However, we do appreciate maintaining good contacts in this regard.

NVC communicates 'across the board' via NVC News and in the various social media. The NVC website attracts about **sixty thousand unique visitors** annually (about 60% of whom are based outside the Netherlands). Some **thirty thousand professionals** and organisations located worldwide follow NVC daily via social media, especially Twitter and LinkedIn.

NVC is worried about the state of affairs regarding packaging and the environment in the Netherlands and worldwide in 2022. The first European legislation on packaging and packaging waste dates back to December 1994(!) and we are now on the eve of the year 2023. In the meantime, a proposal for follow-up legislation was launched by the European Commission on 30 November 2022: the Packaging and Packaging Waste Regulation PPWR.

As a society and industry, we unfortunately have to conclude that the problems have clearly not been solved over the past 29 years. On the contrary, they seem to have actually gotten worse. Why is this? What can we learn from the past and how can we all do better in the future? How do we **end packaging as an environmental problem**? You can find this NVC basic position in our PERSPECTIVE on the Draft Decision of the Minister.

2. Analysis of packaging and environment over the period 2013-2022

The first significant European legislation on packaging and the environment dates from [December 1994: the European Packaging and Packaging Waste Directive](#). At that time, the Netherlands already had the Packaging Covenant, with the actor on the industry side towards the central government being the Stichting Verpakking en Milieu SVM. There came a Second Covenant in the Netherlands, with SVM.PACT (Project Administration Covenant Two) as the implementing organisation, and the European Directive was transposed into Dutch law in the year 1997.

With the Extended Producer Responsibility EPR comes a financing system for collection and recycling. After an 'interwar period' in which the central government started levying a Packaging Tax, [the Packaging Waste Fund Foundation StAV took office in the year 2013](#). In conjunction with - and paid for by - the StAV, several other foundations came into being, each of which started working in a subfield.

To be mentioned in this context is the [Knowledge Institute for Sustainable Packaging Stichting KIDV](#). This organisation has the Stichting StAV as its only client, with the mutual performance agreement being confidential. Over time, the pricing for specific materials (plastics) by Stichting StAV has been linked to whether or not they comply with Recyclechecks to be drawn up by KIDV. The operational relationship between Stichting StAV and Stichting KIDV is characterised by intensive personal ties (the former Stichting KIDV director is now Stichting StAV director).

To [address litter, the Stichting Nederland Schoon SNS](#) was set up. Its funding was originally linked to the moderated introduction of deposit fees on specific types of emptied packaging. April 2022, the Stichting StAV presented a plan to collect a whole range of 'deposit-fee sensitive' emptied packs (bottles, cans) through a large number of 'circular hub' collection sites. The plan did not include a public cost budget and went off the table soon after presentation.

Now, after a legal joust and a three-month delay, [deposit fees will be introduced across the full breadth of the relevant packaging spectrum on 1 April 2023](#). What are the costs going to be? The question also arises as to the usefulness of the continued existence of, or funding by, the Stichting StAV of the Stichting SNS.

Regarding the [Stichting Nedvang, a different corporate form is envisaged for the coming years](#): a Private Limited Company (BV). This raises the question of the (future) ownership structure, including the financial allocation of any profits generated by this BV.

StAV's internal organisation comes up for discussion in a report by ILT Inspectorate¹ which audited the accounts for the year 2019. The report contains damning conclusions

regarding the [limited financial, accounting robustness of the organisation](#), including the remarkable way the auditor approved the StAV financial statements for the year in question. The question is, whether these criticisms have now been addressed and durably covered by the Stichting StAV.

The substantiation of the rates used by the StAV Foundation is also unclear, with sudden rate changes (/increases) of up to +1000% occurring in recent years². There are concerns about the [unsatisfactory substantiation of the proposed rates](#) and about the possibility that the Stichting StAV, after having been granted the General Binding Declaration (AVV) by the Minister, has a free hand for five years to implement substantial and unexpected rate increases.

The accountability of the Stichting StAV and the policy structure it funds is also negatively discussed in a recent study by the University of Utrecht³. It analyses for various product categories, including packaging, the extent to which collection and recycling takes place in a transparent manner, with an unambiguous allocation of the various responsibilities. [The situation for the packaging sector is outlined as unfathomable](#).

Finally, there are questions about the data available to the Stichting StAV in the context of its levies. To [what extent are the personal and business data of the Dutch industry paying the fees shared](#) with the Stichting KIDV, the Stichting Nederland Schoon and Nedvang BV - and then through these entities with third parties engaged by them (consultancies, lawyers, self-employed professionals, and so on)?

All in all, major concerns have grown at NVC over the past decade about the effectiveness of the policy structure around the StAV Packaging Waste Fund Foundation as set up in the year 2013 and legitimised by the central government. The concerns focus on two questions:

- 1. What charges does the Stichting StAV want to charge, with what justification?**
- 2. What environmental performance will be achieved by the Stichting StAV with these targeted levies?**

Question 1 has increased in importance now that there is talk of a possible tripling of the envisaged levy per Dutch company, while this was denied in so many words by a representative of Stichting StAV in an NVC members' meeting in early 2022. The foundation's draft multi-year budget is insufficiently conclusive. The foundation does not commit to the level of tariffs for the coming years. What will be the costs (revenues) of the introduction of deposit fees as of 1 April 2023? The basic organisational system costs (at €12.5 million a year equivalent to a workforce of 100 FTEs and significantly increasing) also lack substantiation.

¹ www.ilent.nl/actueel/nieuws/2022/07/08/afvalfonds-behaalt-recyclenorm-voor-2019-maar-de-onderbouwing-schiet-tekort

² www.afvalfondsverpakkingen.nl/nl/tarieven (other metals)

³ studenttheses.uu.nl/handle/20.500.12932/518



Question 2 is almost even more important, especially now that the definition of 'recycling' is changing. A look at the Model in the PUMA MANIFESTO makes this clear. In fact, the 2013-2022 period looked at the amount of Collect-Control and not at the amount of 'newly usable, circular' materials actually created via a material recycling Backend process. Also, it is fundamentally flawed to exclude energy aspects from Collect-Control and Backend processing.

Essential for sustainable decision-making is the elaboration of the Circular Materials Plan (CMP1) promised by the Minister to be published by mid-February 2023, including an analysis of the desired material flows in the context of the Circular Economy of the Netherlands.

The NVC Survey The future of the packaging recycling in the Netherlands certainly will take into account the insights of the CMP1. The results of the NVC Survey will be presented on 5 April 2023.

Finally, an [analysis of the timeframe leading up to the Draft AVV decision](#) over the past twelve months. In the spring of 2022, we communicated our concerns to the Stichting StAV and on 11 May 2022 we met with the management. We had constructive discussions with various industries, the policy department of the Ministry, the Inspectorate and several Members of Parliament.

A total of over hundred NVC member companies actively participated in one or more of the NVC member meetings on the topic. NVC attended the parliamentary debates of the

relevant Lower House parliamentary committee and actively shared the information with NVC member companies and the industry as a whole.

The Draft Decision with an intended entry into force of 1 January 2023, was published on 7 November 2022. Given the deadline for the submission of PERSPECTIVE by interested parties like NVC (six weeks, i.e. until 19 December 2022 at the latest) and the intended entry into force of 1 January 2023, [the Minister has only a week and a half to make a decision](#). This is questionable for a dossier with an impact of at least €2 billion in costs for business and - in our view, much more importantly - with an obligation to future generations to now actually start making an end to packaging as an environmental problem in the Netherlands and worldwide.

Based on the above, one conclusion must unfortunately be that the policy structure in place since 2013 to manage packaging collection and recycling has serious shortcomings anno 2022. This entails significant risks for the Netherlands society, both in terms of costs in an economically turbulent period and in terms of (not) meeting environmental targets in a world where environmental issues rightly need to be addressed.

The decision-making on Draft Decision IENW/BSK-2022/263822 by Ms. VLWA Heijnen MSc., Minister for Infrastructure and Water Management, regarding a General Binding Declaration AVV of the levies by the StAV Waste Fund Foundation (Stichting Afvalfonds Verpakkingen) is a [decisive benchmark](#) in the context of the above.

3. Policy recommendations for the year 2023 and beyond

With regard to the Draft AVV Decree, we submit the following recommendations for the Minister's consideration. Of course, the Minister is free to adopt them entirely, partially or not at all. In all cases, we would appreciate receiving a motivation and will actively share them with our member companies and the sector as a whole.

1. [Postpone your final Decision until 1 July 2023.](#)
2. [Include in your final Decision the insights from your CMP1 \(to be published mid-February 2023\) and ideally the results of the NVC Survey the future of the packaging recycling in the Netherlands 2023-2027 \(results known 5 April 2023\).](#)
3. [As a condition for a final Decision, ask the Stichting StAV for an analysis addressing the years 2023-2027 of the budgeted costs in relation to the environmental results. This analysis should also include the impact of the various Stichting KIDV recycling checks on costs and environmental results to be achieved.](#)
4. [In your final Decision, require the Stichting StAV to pre-determine rates for all years covered by the AVV.](#)
5. [As part of your final Decision, request disclosure of the performance agreement between Stichting StAV and Stichting KIDV including the annual reviews for the past years 2013-2022.](#)
6. [Engage Parliament prior to your final Decision, especially in the run-up to the public meeting of the Parliamentary Committee on IenW in the spring of 2023.](#)



Gouda, 14 December 2022
NVC NETHERLANDS PACKAGING CENTRE

Stationsplein 9k, 2801 AK Gouda, The Netherlands
☎ +31-(0)182-512411 ✉ info@nvc.nl

Sharing the future in packaging
www.nvc.nl

OUR IDEAS, YOUR NEEDS

Since 1979

Sacchettificio Toscano has been on the market since 1979 and from the beginning we chose to offer beauty and quality through our products for packaging: fabric pouches, non-woven fabric and cotton canvas shoppers, paper bags, GOTS – Global Organic Textile Standard – certified, environmentally friendly pouches, all rigorously Made in Italy.

Since 2012 the company moved to the new plant in Cerreto Guidi, a splendid building of about 3.000 m2 and built using innovative cladding material.

It has a large warehouse which allows us to quickly process orders for pouches in the most common materials. A new building is currently being built to respond to the growth in the volumes of work.

We work every day with big fashion and jewellery brands, small quality boutiques, companies of all kinds that are looking for pouches in line with their image. Indeed, the relatively low production minimums allow us to also serve small-sized clients.

We always start from your ideas and from listening to your needs: each pouch, each package, must dress your product to perfection, but even earlier, they must dress your brand and contribute to creating a quality experience for your clients.

This is why we assist you in designing and developing the pouch, providing you with all our technical skill, experience and passion.





HAUTE COUTURE FOR PACKAGING

Our philosophy is to enhance the value of the products. When a low neckline is a masterpiece of craftsmanship, a bag is an object of desire, a boutique is an enchanted place where you can be nurtured by shapes and colours, at Sacchettificio Toscano we would like to add a small piece to the dream.

We do it with delicate satins that caress the crafted leather, velvets that dress small jewels, strong but resplendently coloured fabrics which hide gifts chosen with love, making them, at the same time, even more desirable.

We have chosen to give you Haute Couture for the packaging: we study what conforms to your style with you and we do it with the passion of those who love beautiful things. Our job is to enhance and embellish your work.

We like to think of ourselves as good travel companions that help you, season after season, to create emotions for the buyers of your products, so that they never forget your name!

ATTENTION AND CARE FOR THE ENVIRONMENT

100% ecological products.

From our love for beauty comes the one for harmony: this is why we are so careful as to be an ethical company that respects nature.

Indeed, the attention and care that transform a simple pouch into an object that your client will keep with care can only come from a peaceful environment.

HIGH QUALITY MATERIAL AND DESIGN

We create pleasant to the touch and the eye pouches to captivate all the senses.

This is why we only use selected suppliers and process only Italian made fabrics. The environmental certifications FSC® and GOTS also guarantee raw materials like paper coming from sustainably managed forests and cotton from organic farms for the most conscientious clients.

The choice of the model, its customisation, the colours... for all of this we work alongside you offering our competence and professionalism. We assess the feasibility of the models, we suggest modifications, we optimise the costs to offer you a product in line with your needs.

www.sacchettificiotoscano.it



**SACCHETTIFICIO
TOSCANO**

italian packaging

SECTORS

 **PACKAGING**



GLOBAL CUSTOMER BASE DEMANDS GLOBAL SUPPORT

In modern industrial operations, it is rare to find a company that has earned a reputation based solely on the quality of the products or machines it manufactures. These days, an equally important element of any company's market standing is the level and quality of pre- and post-sales support it can offer.

Much like consumers who have experienced easy and pleasant purchase-and-support experiences from high street stores or online retailers, industrial end users are looking for suppliers who can act as full-solution providers, as opposed to just hardware vendors.

In the food and beverage industry, this heightened level of service is essential, as many companies work using agile and lean principles in order to generate the best possible yield and efficiency. As a result, extended downtime is not acceptable, which means that these end users depend on their machine suppliers to help maintain maximum uptime.

In a local context, the delivery of in-person support is relatively straightforward, the same is true on a national scale, albeit a little slower for on-site visits, but delivering this level of support internationally becomes more difficult and sometimes attracts longer lead times. It is for this reason that many companies are investing in an international support network.

One such company is Parma, Italy-based Zacmi, a designer, fabricator and installer of tailor-made filling, seaming and processing lines for the international food and beverage industry. The company supplies high-end equipment to leading multinational companies in many countries and, as such, has grown a rapid-reaction support network to make sure it can operate as quickly as possible and as locally as possible to its installed machine base.

An example would be its commitment to the Americas, where it has two permanent technicians in the USA and another in Mexico, all of which are supported by a comprehensive centrally located spares facility in Indiana.

Zacmi offers support in nine other core markets too, comprising either technician access or remote interactions; and the global team is backed by Zacmi's own support team in Parma, which comprises five engineers and 10 technicians who can travel to where local on-site support is not available or additional support





SECTORS

✓ AUTOMATION

✓ FOOD

✓ BEVERAGE



is required. In addition to technical assistance, the support team can also help with installation, training spares and upgrades.

Thanks to advanced automation hardware and on-machine digitalisation, Zacmi is also able to offer its class-leading Remote Access Service (RAS) programme. Using a secure communication network, engineers from Zacmi can connect to machines – anywhere in the world – to deliver a range of value-added services, including: monitoring and troubleshooting; start-up & process streamlining; uptime optimisation; and software patching, updating & enhancement.

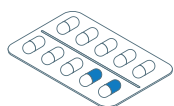
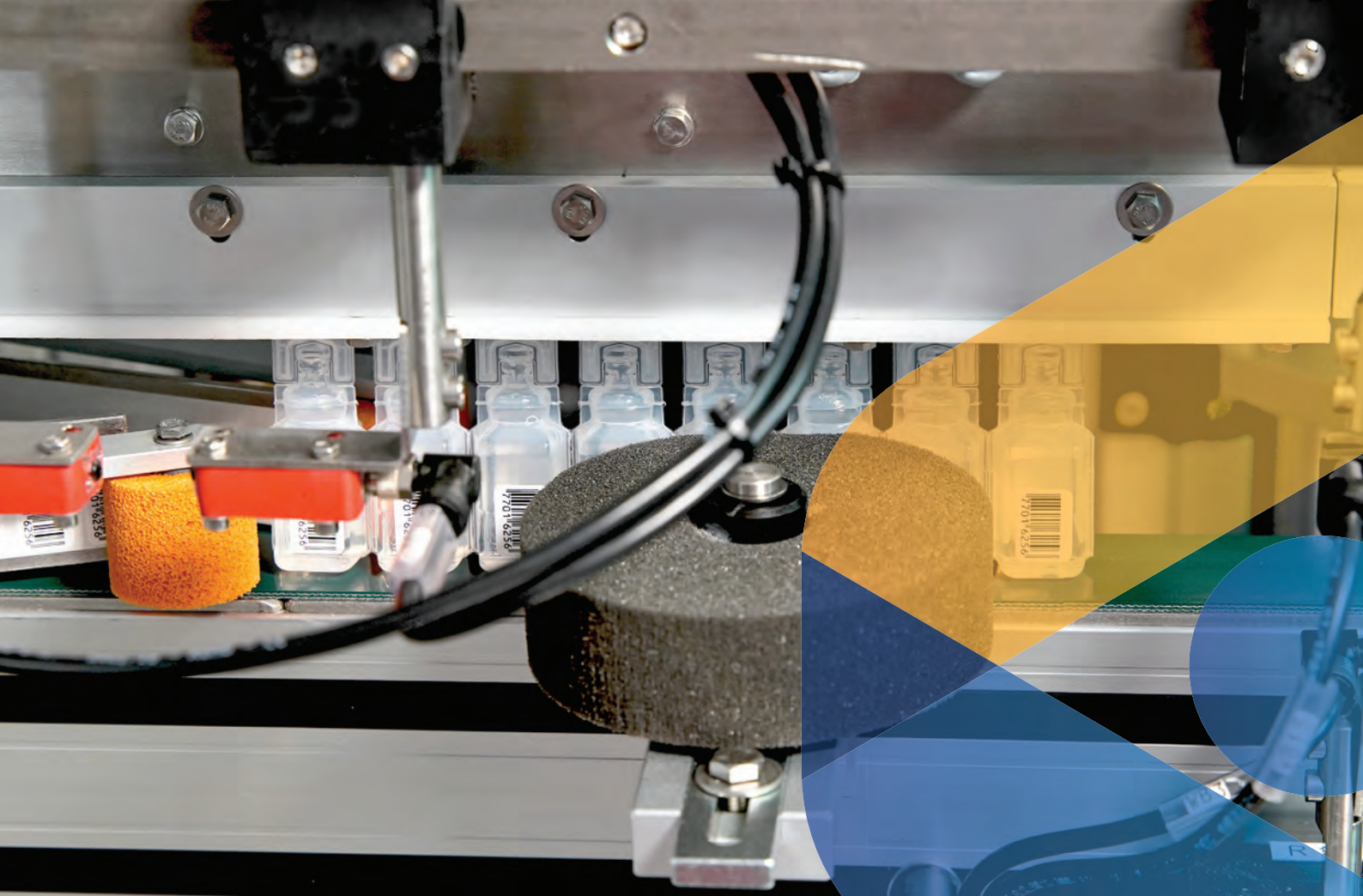
The programme also offers Augmented Reality (AR) capabilities – using an app – for connection via smartphone,

tablet and even smart glasses. Using this service, end users can interact virtually with Zacmi's support team in real time or via photo and video messages. Live training sessions can also be undertaken to help increase Overall Equipment Effectiveness (OEE).

"Any company with a global footprint, such as ours, has to offer a comprehensive support infrastructure," explains Martino Chiefari, USA After-Sales Manager, at Zacmi. "We have to deliver peace of mind as well as class-leading technology and help ensure that our customers are operating as efficiently as possible. One of our key selling points is OEE, so we must fulfil this promise with dependable support, no matter where the customer is located."

www.zacmi.com/en/after-sales/





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OF STABLE AND UNSTABLE
BLOW FILL SEAL PACKS
WITH **VERTICAL** OR ,
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labelling, coding, caring

ETIPACK LABELLING SOLUTIONS FOR STABLE AND UNSTABLE BLOW-FILL SEAL PACKAGES

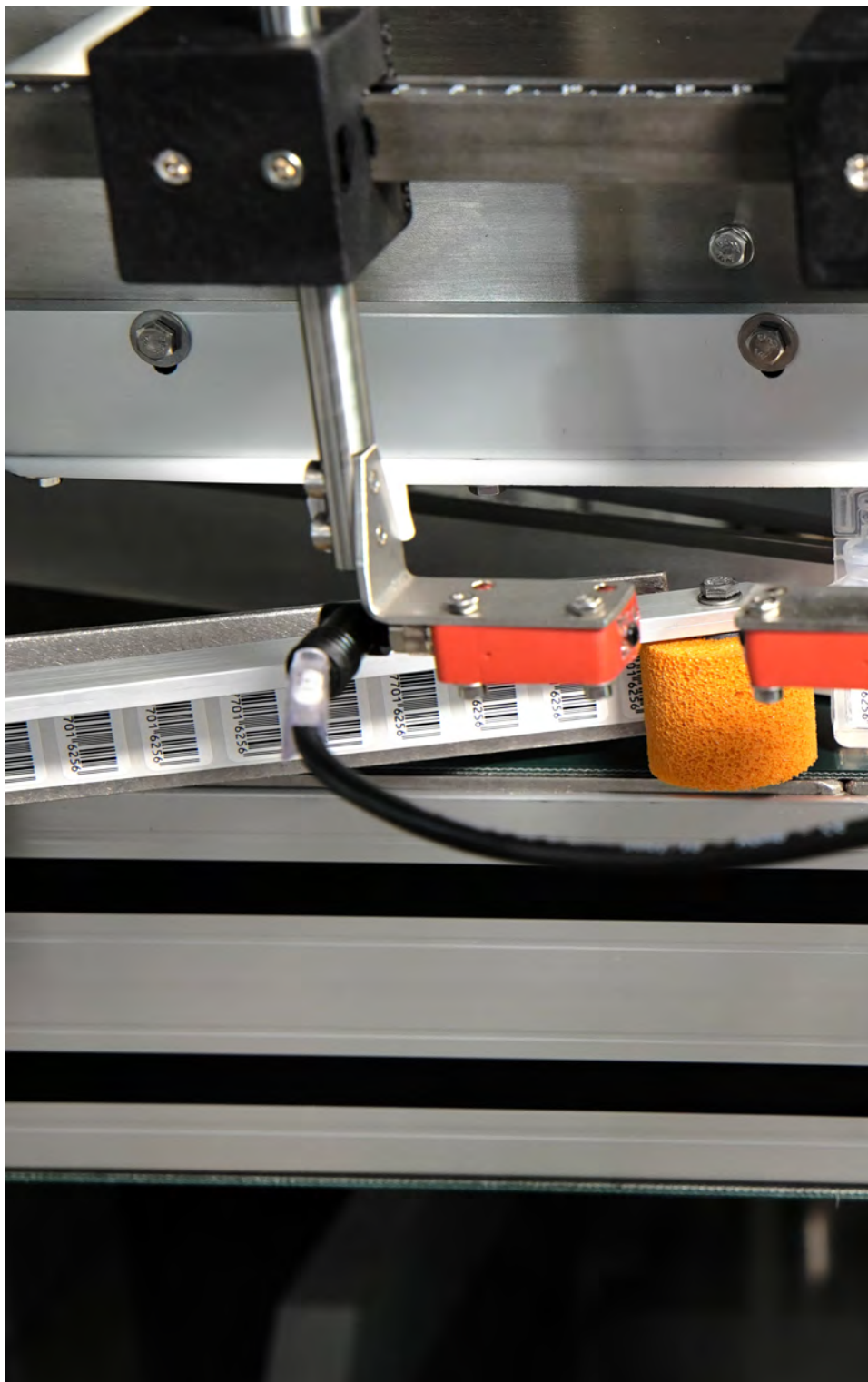
In ever-increasing use, not only within the Pharmaceutical industry but also in the ophthalmic, cosmetic, and food industries for liquid packaging, Blow-Fill-Seal – BFS – technology is the highest standard of advanced aseptic production.

Challenges in Blow-Fill-Seal labelling are related both to the variety of formats available and, most importantly, to the shape of the packages, which can be stable or unstable. The term “stable formats” refers to packages, single or in strips, that have a flat surface allowing the product to be placed steadily on the labeling system conveyor belt. On the other hand, the term “unstable products” refers to packages, single or in strips, that require support in order to be properly stabilized and transported, and which undergo horizontal processing.

Based on the listed features, Etipack can identify the most suitable label application method in relation to the labelling direction, namely, running parallel or perpendicular to the product placement.

Etipack Blow-Fill-Seal application-specific labelling systems

To ensure high-performance, customized labelling of different formats, Etipack has developed specific labelling machines for blow-fill-seal and single-dose packages from thermoforming. These systems feature a high degree of integration with existing production and packaging lines and are distinguished by the type of products as well as the specific Pharmaceutical, Healthcare, and Cosmetics application needs.





SECTORS

✓ LABELLING

✓ PACKAGING

✓ PHARMACEUTICAL



3 solution examples to label various BFS formats that require different label applications.

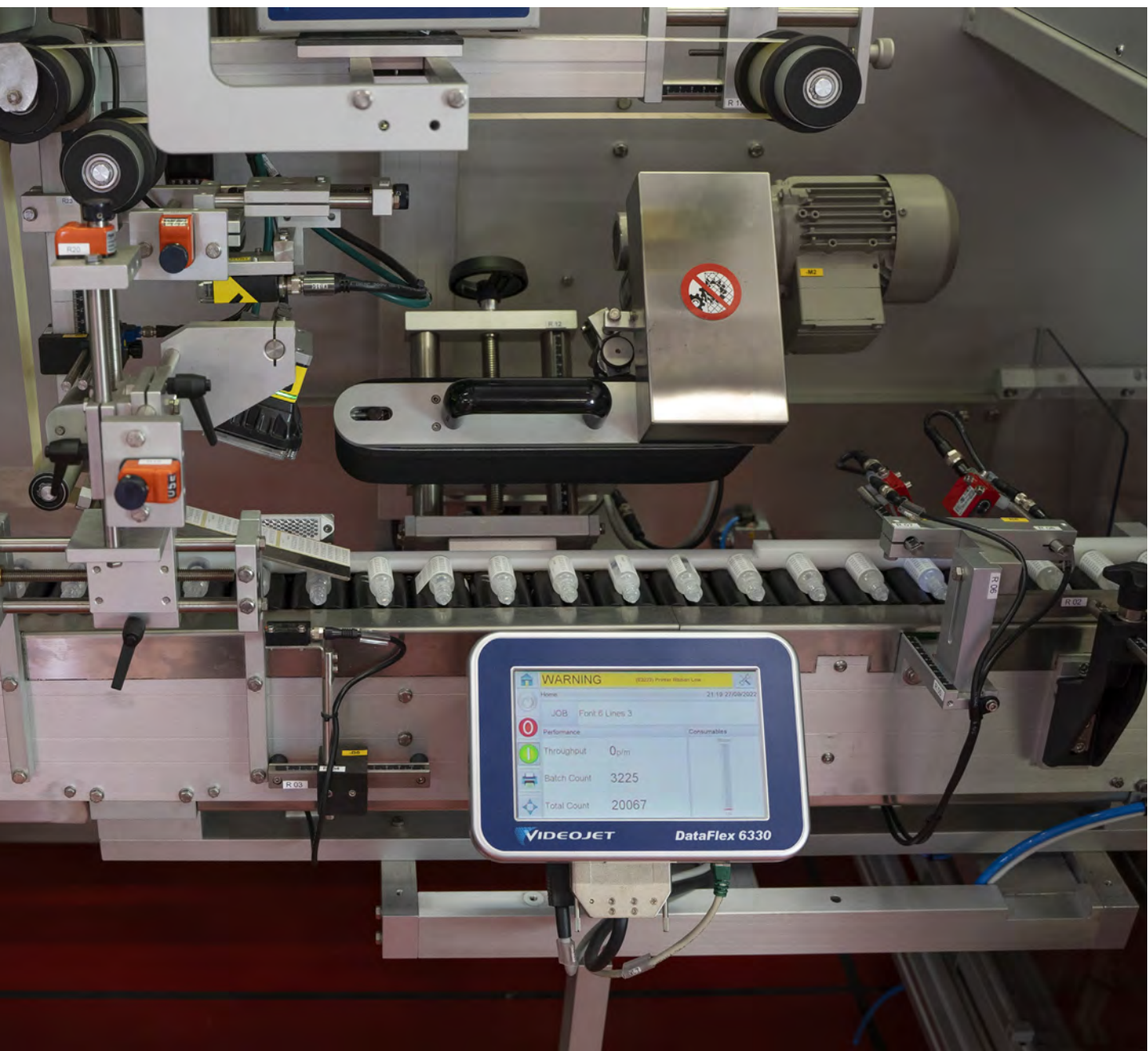
5/2 System for labelling unstable strips vertically

This particular System 5 is designed to transport 5 single-dose strips packs in an upright position, as well as apply double-sided labels to the body of products. It is equipped with a product stabilizing device (DSP) and a linear chain-orienting device to properly handle incoming products, along with a maximum load control system. The presence of start photocells makes it possible to handle labelling on transparent products. For non-compliance product control, a system for rejecting unsuitable product is installed, with a failsafe photocell and control

of good product at the exit. The System is fitted to integrate a vision system comprising two cameras to check on printing.

4/2 System for labelling unstable strips horizontally

This System 4 is designed to be integrated into the line, handling packs of 5 single-dose strips in a horizontal position and applying a label over the body of the products. It is equipped with a special stabilizing device to condition the batches and features an incoming product locking system to hold the products coming in from the line while labeling. The System is equipped with maximum load control, UV barrier labelling control photocell, failed



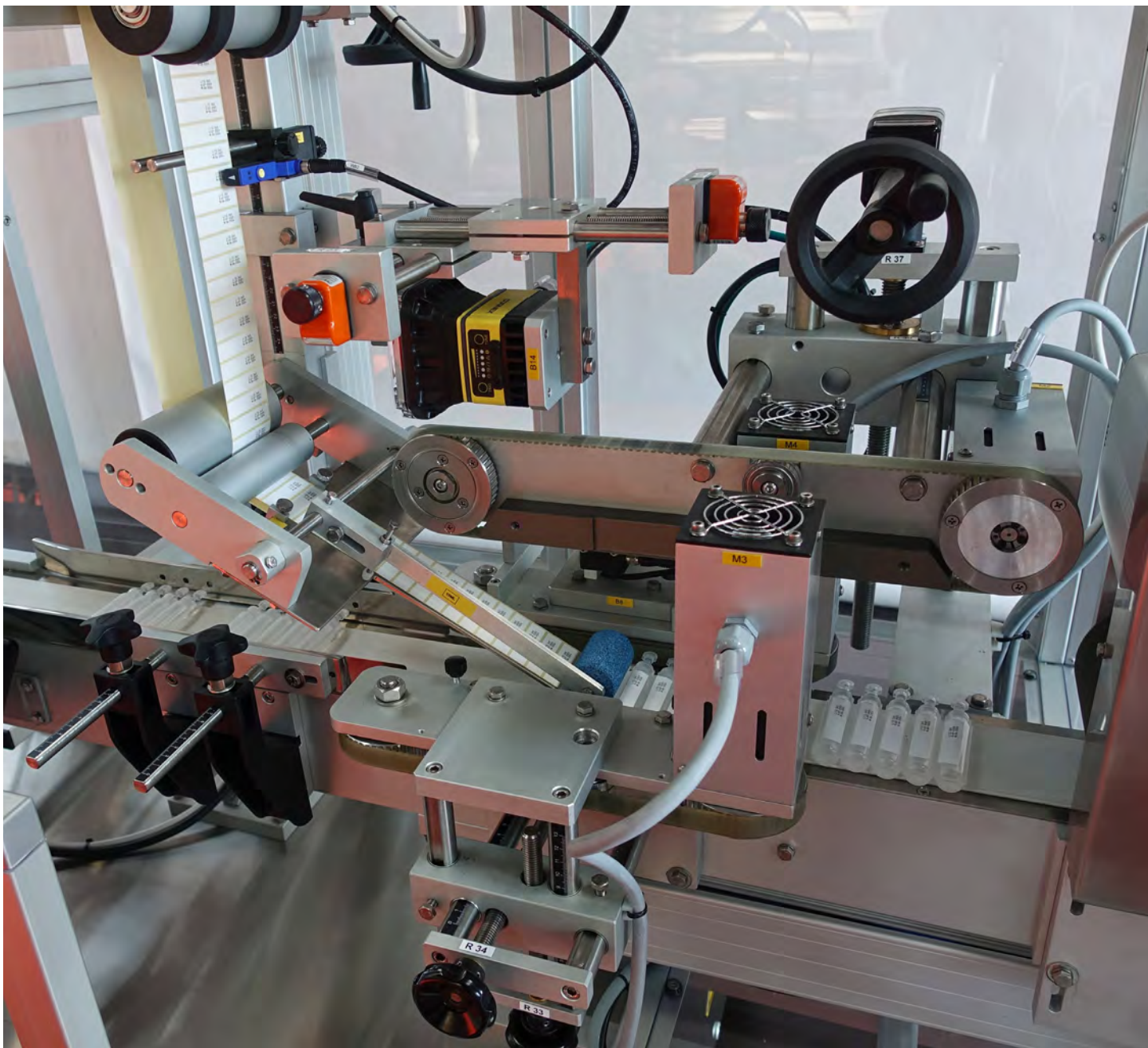
product rejection system, and failsafe photocell ejection controls. It is also prepared for the integration of a printing unit including an OCV/OCR control camera.

System 3 for horizontal labeling of cylindrical vials with position shifting

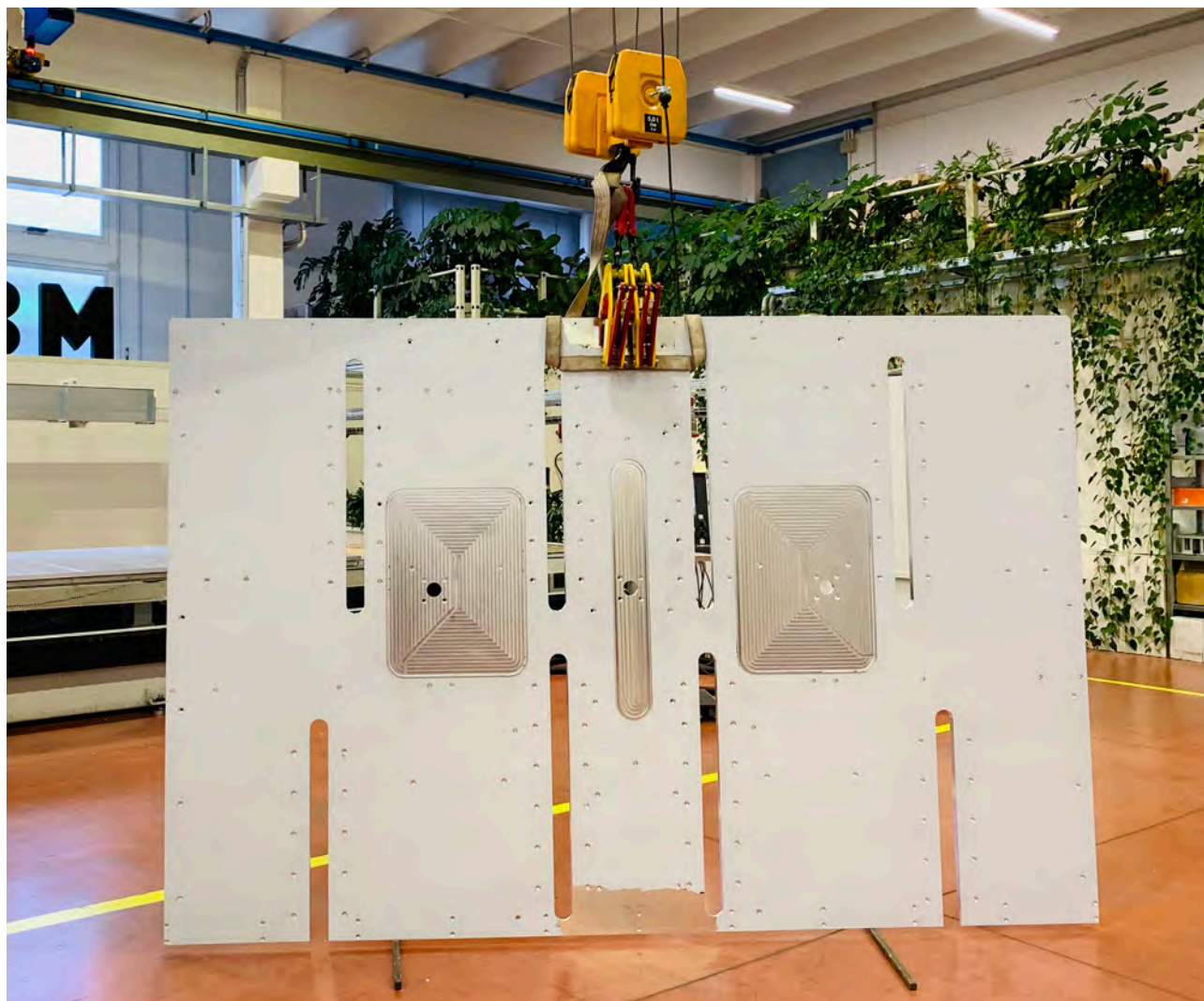
This System is designed to handle cylindrical ophthalmic solution BFS vials in 3 sizes, as well as applying semi-wrap labels. To accommodate products loaded in trays, the System integrates a rotating table that conveys the vials upright to the conveyor belt. To perform proper labeling, the system stabilizes the product by shifting it from a vertical to a horizontal position through the use of an auger. It then proceeds to apply the label, which, thanks

to the presence of a DRP rotation device, gets properly wrapped on the bottles. The System integrates a print unit for overprinting, an OCV/OCR print control unit, and a barcode reader located on the label dispensing blade. Label control is managed by two UV photocells. In addition, a product rejection system is also present featuring rejection control and good product exit control. In order to handle Pharma-specific features, the System is equipped with Siemens PLC and ASEM Touch panel allowing CFR21 management, batch management including consultation and reporting, as well as back-up & restore and disaster recovery functions.

www.etipack.it



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B.M. Group S.r.l. was founded more than 50 years ago and its Quality Management System is certified to the worldwide standard ISO 9001:2015. We count on two different production hubs – located in Thiene and Zanè - both easily accessible with the highway.

Our Chairman, **Mr. Silvano Busin**, has developed a deep knowledge of both sector through the years and for this reason he in person is managing the technical department. On the other hand, our VP **Ms. Marina Vitacca**, is managing both communication strategies and research

departments. Moreover, our team is made up with young and qualified staff aiming at continuous self-improvement, in line with our Management working philosophy.

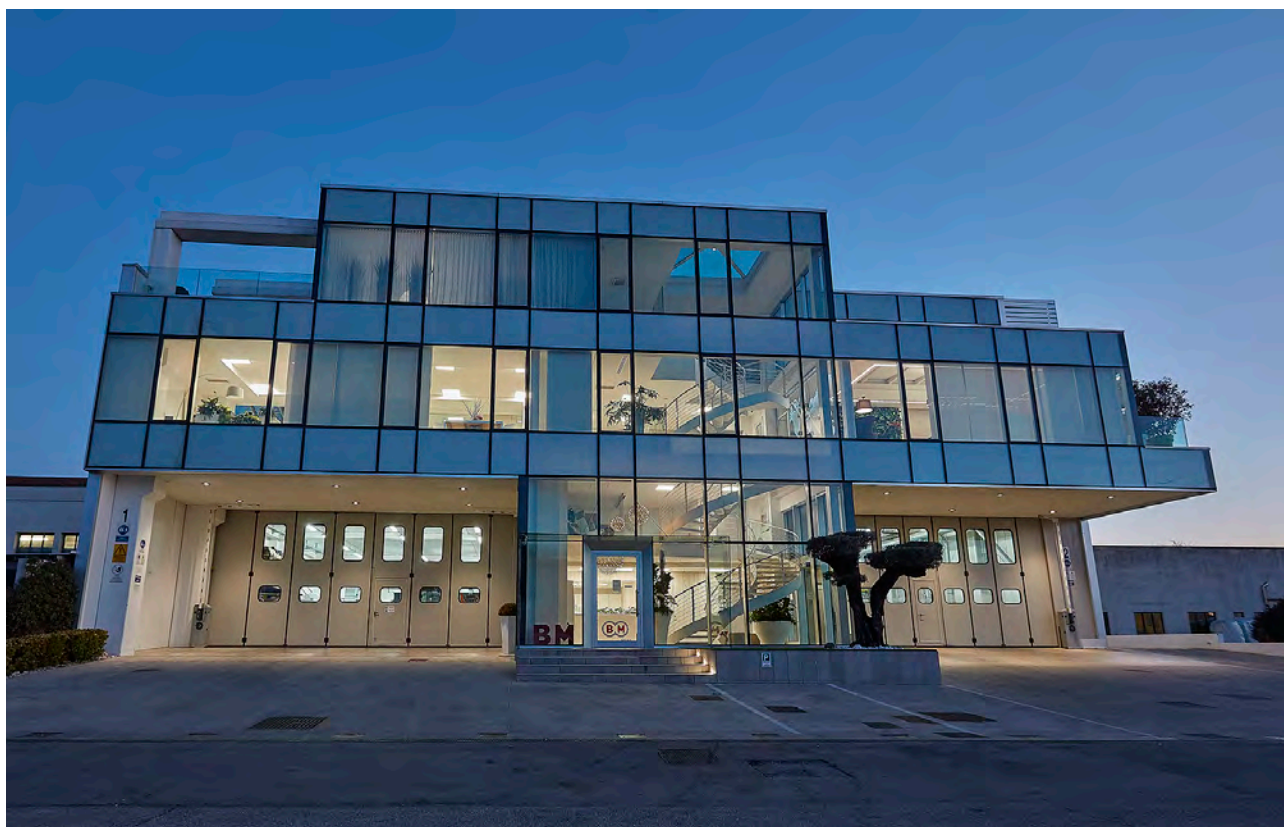
CNC Machining of big-sized aluminum plates has enabled us to establish also abroad in the main European markets and to meet the requirements of a niche sector in which B.M. Group S.r.l. has recognized the potential. Aside from the CNC Machining we perform pre-treatments as mechanical brushing with different types of finishing or chemical pre-treatments, as well as anodizing.

Our strong point is the speed of service, thanks to our warehouse which allows us to stock materials of different alloys (5083, 6082, 7075 etc.) and thicknesses, and also to our machines up to 13 meters long and 2,5 meters wide that enable us to machine multiple plates at the same time.

Upon the customer request we are able to release declaration of compliance with the order, as well as the normative MOCA (food-related norm), measurement reports, anodizing and/or material certificates as regulated by the European standard UNI EN 10204.

We were able to conjugate our know-how with the passion that has always distinguished us. We like thinking that our customers may find a partner able to make a difference.

www.bmgroupsrl.com



A TRADITIONAL COMPANY WITH A PIONEERING ROLE: BERGLANDMILCH SWITCHES TO SELF-SEPARATING K3® R100 CUPS FROM GREINER PACKAGING

The Austrian company Berglandmilch focuses on sustainability: It is the first company in Austria to use K3® cups where the cardboard wrap separates itself from the plastic cup during the waste collection process, without the need for human intervention. This step not only makes Berglandmilch a pioneer in Austria but is also a call to policymakers, dual systems, and the recycling industry.

There are many ways to pack yogurt and co. In this sense, cardboard-plastic combinations are an attractive and particularly sustainable type of packaging. They consist of a thin-walled plastic cup surrounded by a cardboard wrap. The packaging solution is characterized by a low plastic content and reduced CO2 emissions. If cardboard and plastic are separated from each other and disposed of correctly, it is also optimally recyclable; the thin-walled white or transparent plastic cup additionally, makes excellent recycling material.

K3® r100 innovation for optimal recycling

If consumers do not separate the cardboard wrap from the plastic cup but dispose of the entire packaging via light fraction (yellow bag/yellow bin), the latest K3® innovation by Greiner Packaging can help. With K3® r100, the cardboard wrap separates itself from the plastic cup during the waste collection process.

In its efforts to offer consumers sustainable packaging, Berglandmilch is now the first company in Austria to use the self-separating cardboard-plastic cup. In the future, all 500g yogurt cups of the Schäringer, Tirol Milch, and Stainzer brands will be offered in K3® r100 cups.

“We have already taken many innovative steps in terms of cardboard-plastic combinations with Greiner Packaging – for example, with the change to a new, for consumers particularly innovative, tear-off mechanism of the cardboard wrap. When we heard about the self-separating cardboard-plastic cup, we were immediately hooked.

- **Berglandmilch is now using self-separating cardboard-plastic combinations for its 500g yogurt cups.**
- **The cups are used for all flavors of the Schäringer, Tirol Milch, and Stainzer brands.**
- **The packaging guarantees optimal recyclability and is considered a particularly sustainable packaging solution for the future.**
- **The declared aim of the changeover is to take on a pioneering role and express the need for a realignment of sorting streams.**

This makes us an absolute pioneer in the Austrian market,” says Josef Braunhofer, Managing Director of Berglandmilch.

Innovation with symbolic character

By switching to the innovative packaging solution, Greiner Packaging and Berglandmilch are not only bringing an innovative and sustainable packaging onto the Austrian market. They also want to set an example. Both companies are in intensive and regular exchange with political actors as well as the dual system – the goal: paper and cardboard that end up in the recycling stream of light packaging should be sorted and consequently, recycled

in the future. While that happens in other countries, such as Germany, this is currently not possible in Austria.

“If paper and cardboard are thrown into the yellow bag/bin, without the cardboard being separated from the plastic cup, they are sorted out with other interfering materials in the sorting plant and are then thermally recycled. As a result, you lose an important part of the recyclables,” says Jörg Sabo, Global Director Marketing & Innovation at Greiner Packaging.

With the K3® r100, the possibility arises to significantly increase the recycling rates of cardboard-plastic combinations, regardless of whether consumers separate the cardboard wrap from the plastic cup or not.

To be precise, with K3® r100 recyclability of up to 98 % can be achieved. This potential could be exploited in the future by realignment of sorting streams in Austria, which Berglandmilch and Greiner Packaging are striving for.

Greiner Packaging: a strong partner when it comes to K3®

By using the K3® r100, Berglandmilch relies on the innovation leader in the field of cardboard- plastic combinations. Developed by Greiner Packaging 40 years ago, the company has continuously improved cardboard-plastic combinations since 1982 and adapted them to different market and consumer requirements. Greiner Packaging is currently celebrating its 40th anniversary with K3® – the original since 1982.

Greiner Packaging is a leading European manufacturer of plastic packaging in the food and non-food sectors.

The company has enjoyed a reputation for outstanding solutions expertise in the fields of development, design, production, and decoration for over 60 years.

Greiner Packaging responds to the challenges of the market with two business units: Packaging and Assistec. While the Packaging unit focuses on innovative packaging solutions, the Assistec unit is dedicated to producing custom-made technical parts.

Greiner Packaging employs a workforce of more than 4,900 at more than 30 locations in 19 countries around the world. In 2021, the company generated annual sales revenues of EUR 772 million (including joint ventures), which represents almost 35% of Greiner's total sales.



Berglandmilch is the first company in Austria to use K3® cups where the cardboard wrap separates itself from the plastic cup during the waste collection process, without the need for human intervention.

SECTORS

 **PACKAGING**

NEW STUDY FROM CROWN HOLDINGS AND IAI ACTIONS CRITICAL STEPS TO STRENGTHEN GLOBAL ALUMINUM BEVERAGE CAN RECYCLING

Improvements to beverage can recycling practices in six countries around the world could help to reduce global CO2 emissions by up to 60 million metric tons by 2030, according to a new study commissioned by Crown Holdings, Inc. (NYSE: CCK) (Crown) (www.crowncork.com) and the International Aluminium Institute (IAI). Conducted by third-party global management consultants Roland Berger, the new report establishes 20 short- and long-term levers to bolster recycling systems and increase beverage can recycling rates in several countries, four of which include Vietnam, Thailand, Cambodia and the UAE—key markets where Crown maintains operations.

These advancements are critical to keeping up with growing global beverage can consumption, which is set to increase by 50 percent between 2020 and 2030 and will likely increase the amount of used beverage cans (UBCs) by around three million metric tons each year in the same time period. Stronger global recycling systems can help ensure that additional volume of aluminum maintains a circular life cycle rather than be misdirected to landfill—an important measure for not only keeping valuable materials in a closed loop and preserving natural resources, but also for reducing the energy consumption and emissions levels associated with production from raw materials. This potential for a smaller carbon footprint for the beverage can would boost the format's existing sustainability attributes of infinite recyclability, high recycled content and fast recycling turnaround time.

“The carbon reduction potential of recycling cannot be underestimated; recycling has a huge role to play in the overall decarbonization of the aluminum industry, because recycling currently emits 0.6 metric tons of CO2e per metric ton compared to 16.6 metric tons of CO2e per metric ton for primary aluminum,” said Marlen Bertram, Director of Scenarios and Forecasts at IAI. “This report highlights key improvement levers for increasing those recycling rates—including improved awareness about the benefits of aluminum can recycling, investment in infrastructure and better waste streams.”

Drawing from assessments of waste management and



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regulatory schemes, collection infrastructure, recycling and landfill rates, volumes on market, UBC trade, material flows and future targets, the report zeroed in on several missed opportunities in the current recycling systems of each country. For some areas, these include bridging the gap between UBC collection and complete can-to-can recycling, as well as understanding why some cans are lost to landfill even when the region maintains a more successful recycling system. For others, challenges lie in a lack of initial recycling access points or, on the other end, a lack of infrastructure for waste trading and traceability.

The report details these potential areas of improvement and offers strategies for advancing progress in each country. Using this evaluation, Crown and IAI will work together with local partners in the UAE and in Asia Pacific that can help drive awareness and investment on regional levels. The collective action will help to not only aid targets of higher recycling rates around the world, but will also help to support evolving regulatory standards, address consumer and beverage brand demands and move the industry toward a more circular model. Key to this progress will be support for and implementation of specific legislative policies that establish guidelines and parameters for each region.

“The superior recyclability of aluminum beverage cans continues to inspire us to raise awareness and build infrastructure for a stronger recovery rate across the globe,” said Sandrine Duquerroy-Delesalle, Director, Sustainability & External Affairs at Crown. “Through conducting this new study with the International Aluminium Association and Roland Berger, we have identified effective levers in four key markets for Crown that all actors within the aluminum supply chain can and should take responsibility to action. To utilize these avenues and advance progress, we are hopeful the governments in each of these regions will recognize the critical role they play in establishing proper policy frameworks. It is imperative we have legislative support to reach our goals to reduce our carbon footprint through higher usage of recycled aluminum, both in the immediate time frame and long-term.”

As an upcoming next step, Crown will present the report findings at Asia CanTech 2023 to initiate discussions on recycling system strategies with supply chain partners and to action the levers identified in the study. Crown will also continue to focus on these efforts as part of its larger **Twentyby30™** sustainability program, which aims to achieve 20 measurable goals by or before 2030.

Detailed information from the study can be found in the **Aluminium Can Recycling in United Arab Emirates and Asia Pacific: A Review Of Waste Management Maturity In Six Countries** fact sheet at [https://international-al-](https://international-al)

uminiu.org/resource/aluminium-beverage-can-recycling-in-united-arab-emirates-and-asia-pacific/.

To learn more about Crown’s global recycling initiatives and **Twentyby30™** sustainability program, visit crowncork.com/sustainability.

About Crown Holdings, Inc.

Crown Holdings, Inc., through its subsidiaries, is a leading global supplier of rigid packaging products to consumer marketing companies, as well as transit and protective packaging products, equipment and services to a broad range of end markets. World headquarters are located in Tampa, Florida. For more information, visit www.crowncork.com.

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Cautionary Note Regarding Forward-Looking Statements

Except for historical information, all other information in this press release consists of forward-looking statements within the meaning of federal securities law. These forward-looking statements involve a number of risks, uncertainties and other factors that may cause actual results to be materially different from those expressed or implied in the forward-looking statements. Important factors that could cause the statements made in this release or the actual results of operations or financial condition of the Company to differ are discussed under the caption “Forward Looking Statements” in the Company’s Form 10-K Annual Report for the year ended December 31, 2022 and in subsequent filings. The Company does not intend to review or revise any particular forward-looking statement in light of future events.

www.crowncork.com

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SEAFOOD PACKAGING MARKET: TRENDS AND GROWTH OUTLOOK 2023-2032

Seafood is a vital economic commodity globally. However, maintaining its quality poses challenges like autolysis, biogenic amine formation, and microbial degradation. This article delves into the crucial role of packaging in preserving seafood quality.

Market Growth and Trends in 2022-2028

In 2022, the fishery market witnessed a 13% increase in value and a 4.7% volume expansion. Notably, there was a 4.9 million ton production surge from 2020 to 2022. However, from August 2021, freight costs spiked, affecting prices, particularly for shrimp.

The Rise of Processed Seafood Products

Convenience-driven processed seafood, complete with reheat instructions, gained traction. The consumption of frozen packaged foods showed a projected CAGR of 6.98% from 2022 to 2028. A significant 15.25% YoY growth in 2020 was attributed to COVID-19-induced stockpiling.

Visit For More Detail's: www.towardspackaging.com/insights/seafood-packaging-market

Aquaculture's Growth Trajectory

The Food and Agriculture Organization predicts an 18% upswing in the aquaculture sector over the next decade.

This growth results from increased investments, aimed at addressing environmental concerns and enhancing fisheries management.

Advancements in Packaging Technology

Packaging technology has made significant strides in enhancing quality and extending shelf life. Active, intelligent, and insulator packaging methods play vital roles in seafood preservation.

Active Packaging

Dedicated to inhibiting seafood degradation, active packaging combats microbial growth and chemical oxidation.

Intelligent Packaging

Engineered to monitor seafood freshness, intelligent packaging detects changes in acidity, ammonia levels, and biogenic amine content.



Seafood Packaging Market Size 2022-2032 (USD Billion)



Source: www.towardspackaging.com



Insulator Packaging

Critical for maintaining temperature integrity in the cold chain distribution process.

Asia Pacific's Influence on Seafood Packaging Market

The Asia Pacific region, with its booming aquaculture operations, has been a significant driver of growth in the seafood packaging industry. This growth is attributed to the utilization of diverse packaging materials and advancements in techniques like modified atmosphere packaging (MAP) and vacuum packaging.

Balancing Preservation and Sustainability

Packaging companies are working to meet evolving preservation needs while prioritizing sustainability. This involves developing eco-friendly alternatives and incorporating recyclable materials into their processes.

Plastic's Dominance in Seafood Packaging

Plastic packaging, known for its versatility, durability, and cost-efficiency, has become a dominant force. It extends product shelf life by providing a barrier against contaminants, moisture, and oxygen.

Sustainable Practices in Plastic Packaging

Acknowledging concerns about plastic waste, the industry is focusing on sustainable alternatives. Biodegradable and compostable plastics are being developed to maintain the benefits of traditional plastic while minimizing their environmental impact.

The Impact of COVID-19 on Seafood Packaging

The pandemic has brought significant challenges to the seafood industry. Disruptions in supply chains, cancellations of orders, and shifts in consumer behavior have necessitated adaptive strategies.

Competitive Landscape and Key Players

Major players in the seafood packaging market include Sealed Air, DS Smith, Bemis (Amcor), and others. Understanding the competitive dynamics is crucial for sustained growth and success in this evolving industry.

Recent Developments

Innovations in sustainable packaging solutions, such as odor-eliminating packaging for fish and meat products, demonstrate the industry's commitment to environmental responsibility.

Market Segments

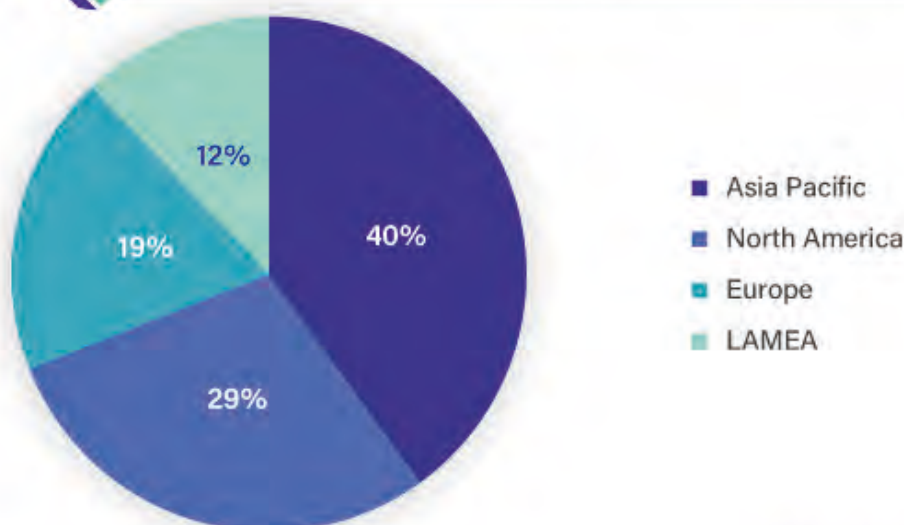
The seafood packaging market encompasses various segments, including application, product, material, packaging technology, and region.

Understanding these segments provides valuable insights for businesses in this industry.

By staying attuned to these trends and advancements, businesses can navigate the dynamic seafood packaging market effectively, ensuring both quality preservation and sustainable practices.



Seafood Packaging Market Share, By Region, 2022 (%)



Source: www.towardspackaging.com



SUPPLYONE REVOLUTIONIZES MEDICAL AND PHARMACEUTICAL PACKAGING, DRIVING DOWN COSTS AND ENHANCING PROFITABILITY

SupplyOne, Inc., the largest independent supplier of corrugated and other value-added packaging products, equipment, and services in the U.S., highlights its innovative packaging solutions specifically designed to address the key challenges faced by medical device and pharmaceutical manufacturers.

“Regulatory compliance, product protection, cost efficiencies and waste reduction are major hurdles in the medical and pharmaceutical industries,” said Dave Whitney, SVP of Packaging at SupplyOne. “Our comprehensive offering of packaging products, equipment, and packaging-related services are strategically designed to overcome these challenges and optimize the bottom line.”

SupplyOne’s unique approach focuses on Total Cost of Ownership (TCO), which includes both direct and indirect costs of packaging. By adopting this approach, SupplyOne helps manufacturers evaluate the full spectrum of packaging-related expenses and identify areas for improvement.

In addition, SupplyOne’s commitment to sustainability aligns with the growing demand for environmentally friendly packaging. “Our mission at SupplyOne is to provide innovative packaging solutions that not only meet regulatory standards but also drive customer success,” said Dave Whitney, SVP, Packaging at SupplyOne. “Our comprehensive suite of solutions for the medical and pharmaceutical industries underscore this commitment.”

SupplyOne is the largest independent supplier of corrugated and other value-added packaging products, equipment, and services in the U.S. It provides mid-sized manufacturers, food processors, medical and e-commerce companies industry-leading packaging programs, products, and supply chain solutions from a single point of contact to unlock efficiency and direct cost savings. Since its founding in 1998, SupplyOne has become the acquirer of choice for privately held specialty corrugated packaging manufacturers and value-added packaging distributors. SupplyOne is a portfolio company of Wellspring Capital Management.



To learn more about how SupplyOne’s products, packaging equipment, and services can benefit your medical or pharmaceutical manufacturing processes.

www.supplyone.com

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After the success of ProPak Vietnam in 2022, there are many positive feedbacks on business opportunities generated during the show dates. The 15th edition attracted 10,720 trade visitors to the event to do face-to-face business and provided countless product demonstrations to engineering community. Coming back **Saigon Exhibition & Convention Center (SECC), District 7, Ho Chi Minh City from 8th – 10th November 2023**, ProPak Vietnam 2023 will continually serve the packaging & processing industry in Vietnam and beyond. This is the dedicated place for B2B connect activities, product & technology showcase, industry sharing sessions for enterprises who are working in food, beverage, pharmaceutical, cosmetics, consumer goods and many other related sectors. Secure your participation in the 16th edition of ProPak Vietnam to obtain a chance for real business opportunities you must invest in. ProPak Vietnam 2023 will bring an international-standard event to Vietnam and surrounding countries with significant features:



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EXHIBITIONS 2023-2024-2025

PROWEIN

19-21/03/2023 
DUSSELDORF

International wine & spirits exhibition.

MECSPE

29-31/03/2023 
BOLOGNA

Fair for the manufacturing industry.

VINITALY

02-05/04/2023 
VERONA

International wine & spirits exhibition.

PROSWEETS

23-25/04/2023 
COLOGNE

Fair for the sweets and snacks industry.

MACFRUT

03-05/05/2023 
RIMINI

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

CIBUS

03-06/05/2023 
PARMA

Fair of food product.

INTERPACK

04-10/05/2023 
DUSSELDORF

Technology focused on packaging, bakery, pastry technology.

TUTTOFOOD

08-11/05/2023 
MILAN

Fair B2B show to food & beverage.

SPS/IPC/DRIVES/ITALIA

23-25/05/2023 
PARMA

Fair for industrial automation sector.

BEER&FOOD ATTRACTION

19-22/06/2023 
RIMINI

Fair for beers, drinks, food and trends.

FISPAL

27-30/06/2023 
SÃO PAULO

Fair for product from packaging.

MCTER

29/06/23 
ROMA

Exhibition on energy efficiency.

POWTECH

26/29/10/2023 
NUREMBERG

The trade fair for powder processing.

HOST

13-17/10/2023 
MILAN

Fair for bakery production and for the hospitality.

SIAL

19-23/10/2023 
PARIS

Fair on food products.

MIDDLE EAST 2023/24

GULFHOST

2023 
DUBAI

Fair of hospitality.

GULFOOD

20-24/02/2023 
DUBAI


Fair for food and hospitality.

GASTROPAN

17-19/03/2023 
ARAD

Fair for the bakery and confectionery.

DJAZAGRO

05-08/06/2023 
ALGERI Fair for companies of the agro-food sector.

IRAN FOOD+BEV TEC

10-20/06/2023 
TEHRAN

Fair for food, beverage&packaging technology.

PROPACK ASIA

14-17/06/2023 
BANGKOK

Fair for packaging, bakery, pastry.

PACPROCESS FOOD PEX

07-09/09/2023 
MUMBAI

Fair for product from packaging.

ANUTEC

07-09/09/2023 
NEW DELHI


Fair for the food&beverage industry.

HOSPITALITY QATAR

06-08/11/2023 
DOHA

Fair of Hospitality and HORECA.

GULFOOD MANUFACTURING

07-09/11/2023 
DUBAI

Fair for packaging and plants.

EXHIBITIONS 2023-2024-2025

IBA

22-26/10/2023 
MONACO

Fair for the bakery and confectionery industry.

CIBUS TEC

24-27/10/2023 
PARMA

Fair for food & beverage technologies trends.

SUDBACK

26-29/10/2023
STUTTART

Fair for bakery and confectionery.

BRAU BEVIALE

28-30/11/2023 
NUREMBERG

Fair of production of beer and soft drinks.

PROSWEETS

28-31/01/2024 
COLOGNE

Fair for the sweets and snacks industry.

SIMEI

2024 
MILAN

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

ANUGA FOODTEC

19-22/03/2024 
COLOGNE

Fair on food and beverage technology.

LATINPACK

16-18/04/2024 
SANTIAGO CHILE

International packaging trade fair.

HISPACK

07-10/05/2024 
BARCELONA

Technology fair for packaging.

FACHPACK

24-26/09/2024 
NUREMBERG

International packaging trade fair.

ALL4PACK

04-07/11/2024 
PARIS

Exhibition about packaging technology.

IPACK-IMA

27-30/05/2025 
MILAN

Exhibition about food and non-food processing and packaging.

DRINKTEC

2025
MONACO 

Fair for the beverage, liquid food industry.

SAVE

2026
VERONA 

Fair for automation, instrumentation, sensors.





WE'VE TALKED ABOUT...

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The Netherland

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Italy

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Zona Artigianale, 15
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Italy

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SMI GROUP

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