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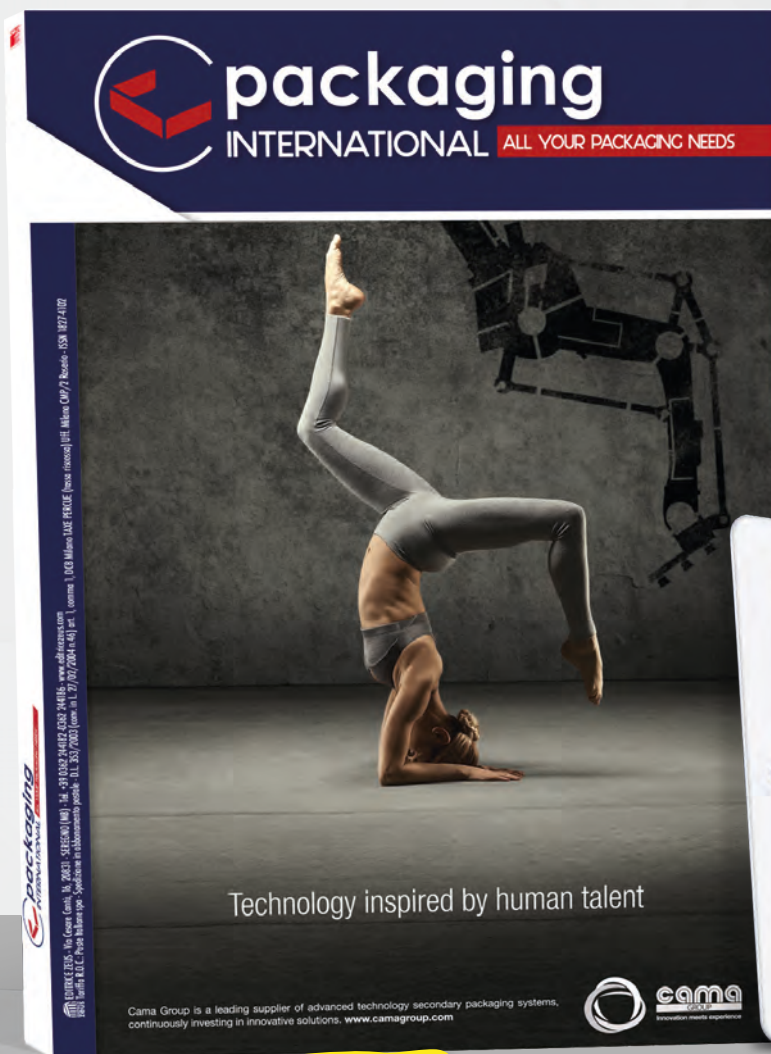
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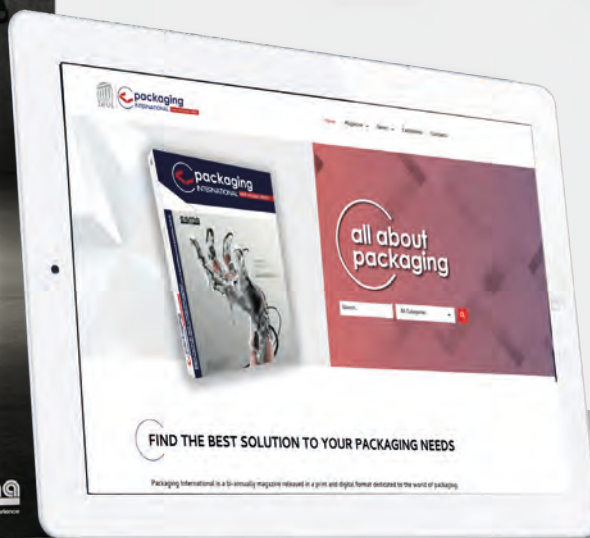
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## SECONDARY PACKAGING



04/06

**CAMA GROUP**

Precision secondary packaging: fits the product, fits the plant, for purpose.

## PACKAGING



18-19

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Packaging machines and automatic packaging systems.



**SONIA V. MAFFIZZONI**  
*Editorial Manager*

The packaging is the first encounter, the enticing gaze that the product offers to the consumer. Beyond visual elegance and its ability to charm, it is a silent ally of the shopping experience because functional packaging makes the product accessible, safe, easy to use, and preservable.

A true interpreter of modern needs (think of all the proposals capable of reducing waste and translating into sustainable choices), it is more than a simple commercial tool: we can think of it as a genuine statement that the company offers to its buyers. It tells of values, preferences, ethics, and the ideas of those who have chosen it.

It is not surprising, then, how this emblem of a brand's identity, born to protect and wrap, can find today a fascinating dimension of its own and a leading role. This is how we like to think of it: front and center, with the spotlight on. Ciak!

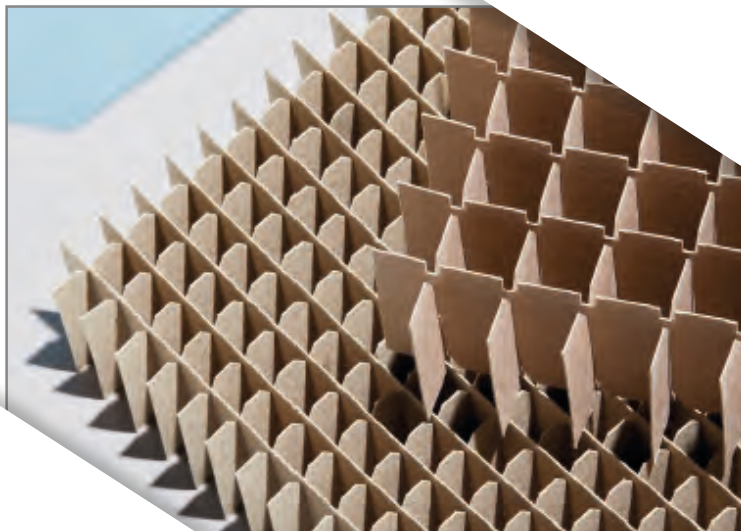
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Editorial management and registered office:  
Via Cesare Cantù, 16  
20831 Seregno (MB) - Italy  
Tel. +39 0362 244182 / +39 0362 244186  
web site: [www.editricezeus.com](http://www.editricezeus.com)  
e-mail: [redazione@editricezeus.com](mailto:redazione@editricezeus.com)  
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## PROTECTION PACKAGING



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50-51

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managing editor  
Enrico Maffizzoni  
[redazione@editricezeus.com](mailto:redazione@editricezeus.com)

editorial manager  
S.V. Maffizzoni  
[redazione@editricezeus.com](mailto:redazione@editricezeus.com)

editorial production:  
Sonia Bennati  
[bennati@editricezeus.com](mailto:bennati@editricezeus.com)

account dep. manager:  
Elena Costanzo  
[amministrazione@editricezeus.com](mailto:amministrazione@editricezeus.com)

project and layout design creative dep.  
ZEUS Agency  
[grafica@editricezeus.com](mailto:grafica@editricezeus.com)

translations: BAYAN TECH FZC

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# PRECISION SECONDARY PACKAGING: FITS THE PRODUCT, FITS THE PLANT, FOR PURPOSE

**A**t a recent dairy-snack packaging application in North America, secondary & tertiary packaging specialist Cama Group was presented with a multi-faceted challenge.

Primarily, the customer wanted to replace its existing sleeving machine, and initially wanted to keep the sleeve blank format the same. The new machine had to fit into the current real estate as well as accept products coming from downstream primary packaging at 180° to 'normal' infeed. Compounding these challenges was a requirement to package two different tray types flat into sleeves in threes or sixes, or standing into shelf-ready carton trays in eights or twelves.



**When it comes to secondary packaging machine design, there is more than just the product to consider. Machine builders must also take into account the factory shape and real estate, as well as the orientation and flow of the products from the upstream processes.**







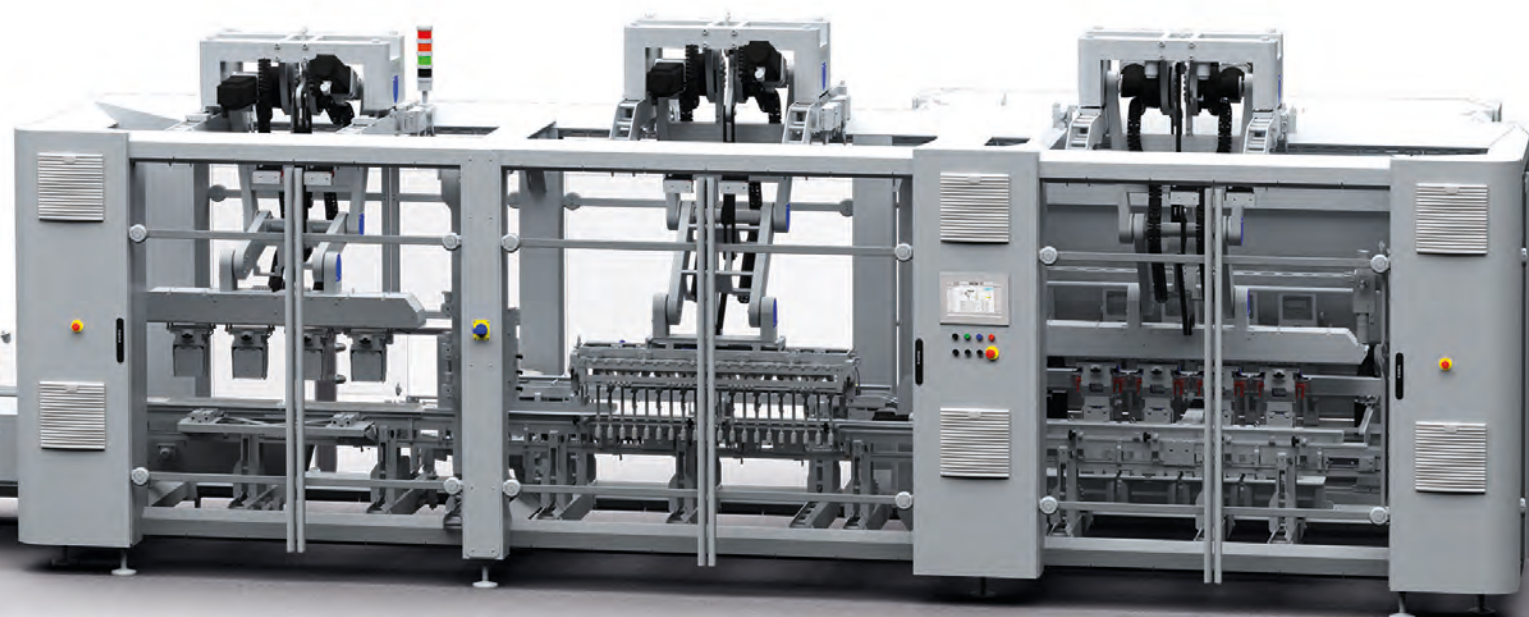
Finally, during the project's design process, the marketing team at the customer decided it wanted a modified sleeve design similar to that of a leading competitor, which added further complications to the machine's design, especially the closing and gluing processes, which had to be faultless in order to maintain the shelf appeal. Individually, these would present big problems to a machine builder, but this is Cama we're talking about here. According to Davide Di Lorenzo, Sales Engineer Manager at Cama Group: "Not only have all the functional issues and demands been addressed, but the customer now has a sleeve / case packer combination that offers a throughput of some 360 packages per minute."

The turnkey line developed by Cama comprises a two IF318 top-loading sleeve packers followed by an FW748 wrap-around case packer. "When you develop a line for customers, you must connect with upstream machines," Di Lorenzo explains, "and it is perfectly normal to request a particular product orientation. But in this case, due to sleeve change, the products would be entering at 180° to what we needed. The customer could not change the complete line for Cama, so we changed our machines to suit their needs."

Upon machine entry, the products enter a snake conveyor which 'corrects' the in-feed orientation. In parallel, carton sleeves are picked from a carton magazine

and placed six at a time into a mono-axis shuttle conveyor. The incoming trays are then placed into a race-track using robots equipped with grippers designed using specific requirements from Cama's engineers. These grippers take hold of the trays at their edges – to avoid any damage to the packaging – and stands them in an upright brand-forward position ready for loading into the six pre-formed sleeve packs. Once loaded, hot melt is applied to the lateral flaps, which are then closed using servo-driven pressure plates.

The customer had a specific demand that there were to be no flaps overlapping any of the external front faces.





As a result, Cama's engineers designed a clever procedure where a robot head pushes the face panel outwards so that the glued upper flap can be tucked inside, maintaining the all-important smooth outward appearance demanded by the customer.

"This capability is unique to Cama," Di Lorenzo explains. "The previous supplier tried to modify its machine to achieve this functionality, but was unable to attain the necessary quality levels; the machine was simply not doing what the customer wanted. The customer was adamant that the sleeve shape was not to change, so the end result was its appointment of a machine builder that could tick all the boxes."

Following the secondary packaging, the multipacks are then transported to the case packer where more Cama magic was to take place. "The customers original tertiary packaging involved the use of RSC cases," Di Lorenzo continues, "but these are not efficient in terms of material use and storage, as they are supplied pre-glued. Our solution was to design a wraparound case format that could be constructed from flat blanks. Not only does this save 43% in material use, but 25% more cases can be stacked in each palette layer – 5 x 4 compared to the original 4 x 4."

Every application is unique, as are the resulting solutions. So, in order to offer solutions that address even the most stringent needs, you must have broad capabilities and knowledge, not just of the markets and their products, but the technologies and processes used to package them.

"This application demanded a fully digitalized solution; therefore, we deployed our full Industry 4.0 offering. This was not just on the technology front, but also as a consultant, running a seminar for engineers and operators at the customer, so they could get the very best out of this very capable platform. The digitalized approach also makes operator training, machine interactions and

maintenance routines far simpler, thanks to immersive augmented reality (AR). And, to keep uptime to an absolute maximum, it exploits our 'toolless' RFID-managed changeover solution, which makes the minor re-engineering required between format changeovers as quick and intuitive as possible.

"As well as highlighting our capabilities as a machine builder," Di Lorenzo concludes, "this application is a graphic example of our capabilities as a packaging consultant too. Customers should not have to put up with the limitations of a machine builder; instead, machine builders must develop solutions that match the precise needs of the customer. It is for this reason that we see so much repeat business from some of the world's biggest brands. They know they will get the precise features and functionality they need, as opposed to a mixture of near misses."

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## SECTORS

✓ FOOD

✓ NON-FOOD

✓ PERSONAL, HOME  
& HEALTH CARE



# THE ECOLOGICAL TALENT OF PACKAGING



by Elisa Crotti

**As consumers increasingly demand greater sustainability from the goods they purchase, companies respond by paying closer attention not only to the product itself, but also to its packaging. According to recent data from the Immagino Observatory, this shift in focus can be observed on product labels, with a subsequent impact on consumer behaviour.**

**T**he label serves as the first “physical” point of contact between companies and consumers, satisfying the latter’s need for thorough, accurate, and transparent information. As such, the label plays a crucial role in guiding consumer choices.

With regard to sustainability, labels now provide more information than ever before about the product as a whole: from its raw materials to its possible uses, all

the way to the environmental sustainability and recyclability of its package. Essentially, the packaging also talks about itself, assuming a new and influential role in consumers’ decision making processes. To put it simply, when consumers perceive an environmentally conscious approach, sustainability, recyclability, and overall green practices, they are more inclined to make a purchase. This significant aspect is something that companies are increasingly aware of.





### The Key Words of Sustainable Labelling

According to a recent study by the Immagino GS1 Italy Observatory, consumers unquestionably prefer packaging that is attentive to sustainability, and certain key words are able to capture their attention more than others. The study (conducted twice yearly) is based on approximately 130,000 fast-moving consumer goods (FMCGs), comparing the products in the Immagino database as of June 2022 with those available for sale in large retail outlets as surveyed by NielsenIQ. The numbers are extremely telling: as of June 2022, the Immagino Observatory's products generated over €41 billion in sell-out, equal to 82.3% of what was sold by hypermarkets and supermarkets in the overall FMCG market in Italy, with more than 133,000 products.

**SUSTAINABLE** Let's start with the general results: the "sustainability" claim has spread to a significant portion of the market (+15.3%), arriving at 4,024 products, and has exceeded €3 billion in sell-out, with an annual growth of 5.5%. For the food sector, the categories most involved in this trend are those of traditional biscuits, supermarket ice cream, and packaged pastries. Meanwhile, in the

non-food sector, the Cleanright brand of dish and laundry detergents went into free fall, with sales dropping by 1.7%. The same trend could be seen for products with a sustainable cleaning certification, which experienced a 33.2% drop in sales over the 12-month period (laundry detergents, fabric softeners, and dish soaps). As for CO2 emissions, labels that claim a reduction have experienced an 11.9% increase in sales, a sign of the market's appreciation.

**PLASTIC-FREE or LESS PLASTIC** Plastic remains a hot issue for the market, thanks to European regulations that want to limit its use and the concern of consumers who are highly aware of both the issue and the need to stop its widespread use. Thus, the turnover of the 1,625 products sold in packaging that claims "less plastic" has grown by 9%, surpassing €1.2 billion and driven by a 19.4% increase in the selection of products and by a rise in cured meats, seed oils, and shelled nuts. This trend is also confirmed by the increased sale of products with compostable packaging. Here, however, the positive trend can be seen not only in sales, with a two-digit growth of 10.7%, but also in the increase in products, which has soared by



## SECTORS



## SUSTAINABILITY





25.2%, thanks to the switch from plastic to compostable single-use tableware. A significant increase in turnover was also experienced by products that advertise the use of Master-Bi resins, with more than €62 million in sell-out (+12.9%) and with single-use tableware still playing a pivotal role.

## Recyclability as True Value

**RECYCLABILITY** Recyclability is the major trending topic of sustainable packaging. So much so that fully 40.2% of the products being monitored mention it on their label (as compared to 37.5% the previous year). In other words, two out of five monitored products feature an indication that can help consumers to correctly recycle the product's package. However, it must be noted that the absence of this information does not necessarily mean that the package is not recyclable. This is true primarily for glass, whose disposal is not mentioned, despite it being a 100% recyclable material.

Returning to the more than 52,000 products whose packaging indicates recyclability, in more than 85% of cases the package is completely (4.9%) or mostly (82.3%) recyclable, with a figure that has improved slightly as compared to the previous 12 months (+0.8%). During the same period, the number of products sold in non-recyclable packaging decreased, now down to 3.5% as compared to 3.8% in June 2021.

The sectors most involved in indicating the recyclability of their packaging as a true value are those from the freezer section (ice creams and frozen foods), followed by fresh produce. The number of non-food products with packaging that mentions recyclability is decidedly lower, but still growing: 39.5% in household care, 24.1% in personal care, and 23% in pet care. Beverages too are at the bottom of the list, with the same percentage as pet care, but this is justified by the significant presence of glass containers which, as mentioned earlier, often lack indications regarding recyclability.

**RECYCLABLE MATERIALS** What is the packaging of the more than 52,000 products monitored by Immagino, on which the recyclability is indicated, made of? The largest share is made up of packaging composed of a single material, accounting for 38.2% of the products (a reduction of 1.4% as compared to the previous year). The remaining 61.8% of items have packaging made up of multiple materials, in most cases two (35.1%) or three (19.8%).

When it comes to sustainable packaging, the consumer response is loud and clear. The sale of products that are entirely or mostly recyclable is undoubtedly greater, for both commercial brands and for the top twenty, followed by smaller producers. This is an unquestionable indication that consumers strongly approve of companies' green policies and that small choices can make a big difference.



images: freepik.com

# TECNO PACK: DEVELOPMENT AND STRATEGY TO REACH NEW GOALS

**O**ver 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.

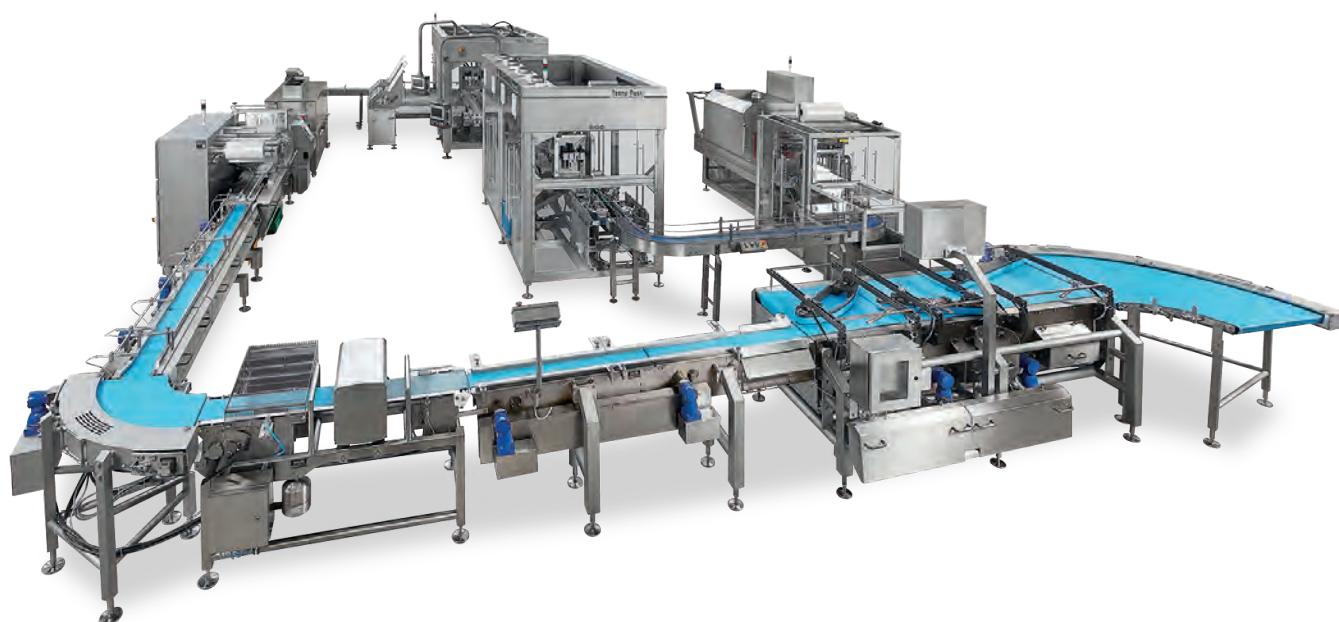
Thanks to their global technological portfolio, the group of Schlio companies is now recognised as a world leader in the packaging industry, providing a global solution that covers everything from product manufacturing to packaging, at every stage. Their automated solutions, tailored to each individual 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](https://www.tecnopackspa.it)

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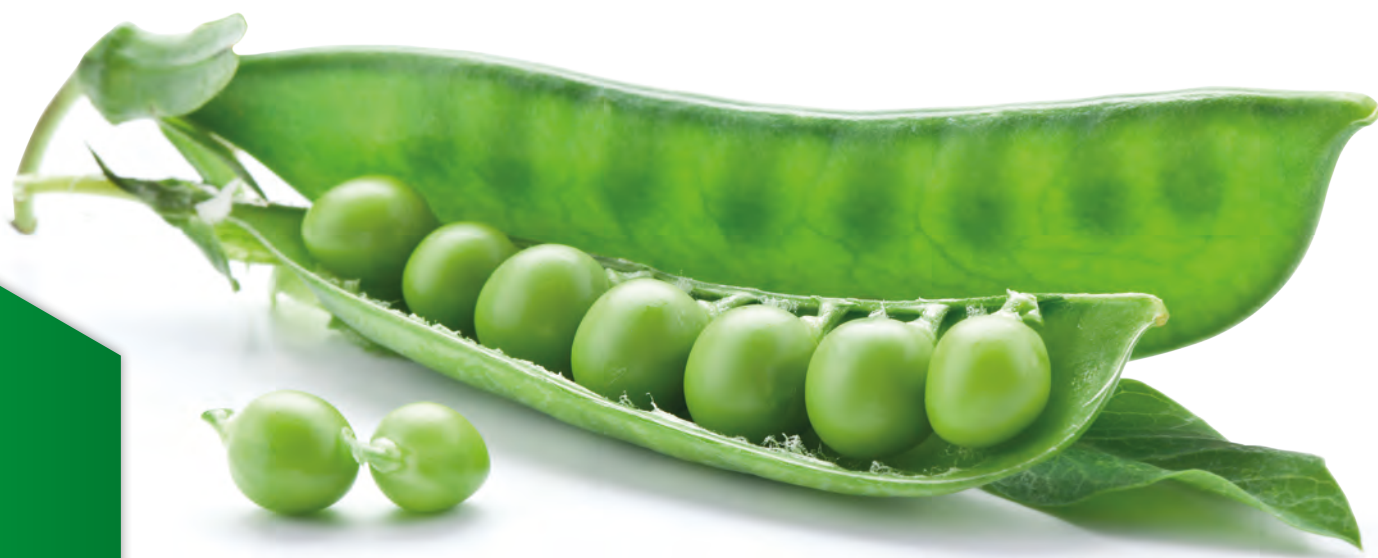
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We are not afraid of the most difficult challenges. The extensive knowledge we have acquired over time in process and end-of-line packaging allows us to offer solutions that cover a very wide range of products of every type.





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Our production ranges from small entry-level machines to large-scale lines, always with the same high standard of quality.

Today IFP PACKAGING presents a brand new machine series suitable for heat-shrink film: SSIT and SSI, respectively with and without integrated shrink tunnel.

They are the result of 40 years of experience and are designed for optimum performance, uncompromised quality, and investment.

Continuous sealers of SSI and SSIT series are newest generation machines, developed to be adaptable, robust and high-speed resistant.

Suitable to wrap products of different thickness and dimensions.

The robust structure and the full control of all features with touchscreen make this machine series the optimal choice for both lower speed craftsman production and higher speed industrial production. 



## SECTORS

 **FOOD**

 **NO-FOOD**

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*general system pack*

# GSP - PACKAGING MACHINES AND AUTOMATIC PACKAGING SYSTEMS

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

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

**GSP 50 EVO**



**GSP 65 BB**





**GSP 75 EVO**

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

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

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

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

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

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

## SECTORS

✓ FOOD

✓ BIOMEDICAL

✓ HARDWARE



# 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.

**T**he 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.

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.

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 elements 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.

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. I

n 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](http://www.adroitmarketresearch.com)**

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EDITRICE ZEUS Via C. Cantù, 16  
20831 Seregno (MB), Italy  
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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.

**I**n 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.







by Our Editorial Team

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.



# SECTORS

 PHARMACEUTICAL

latest news





# A SMALL PRODUCT OF BIG QUALITY

**E**MS99 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





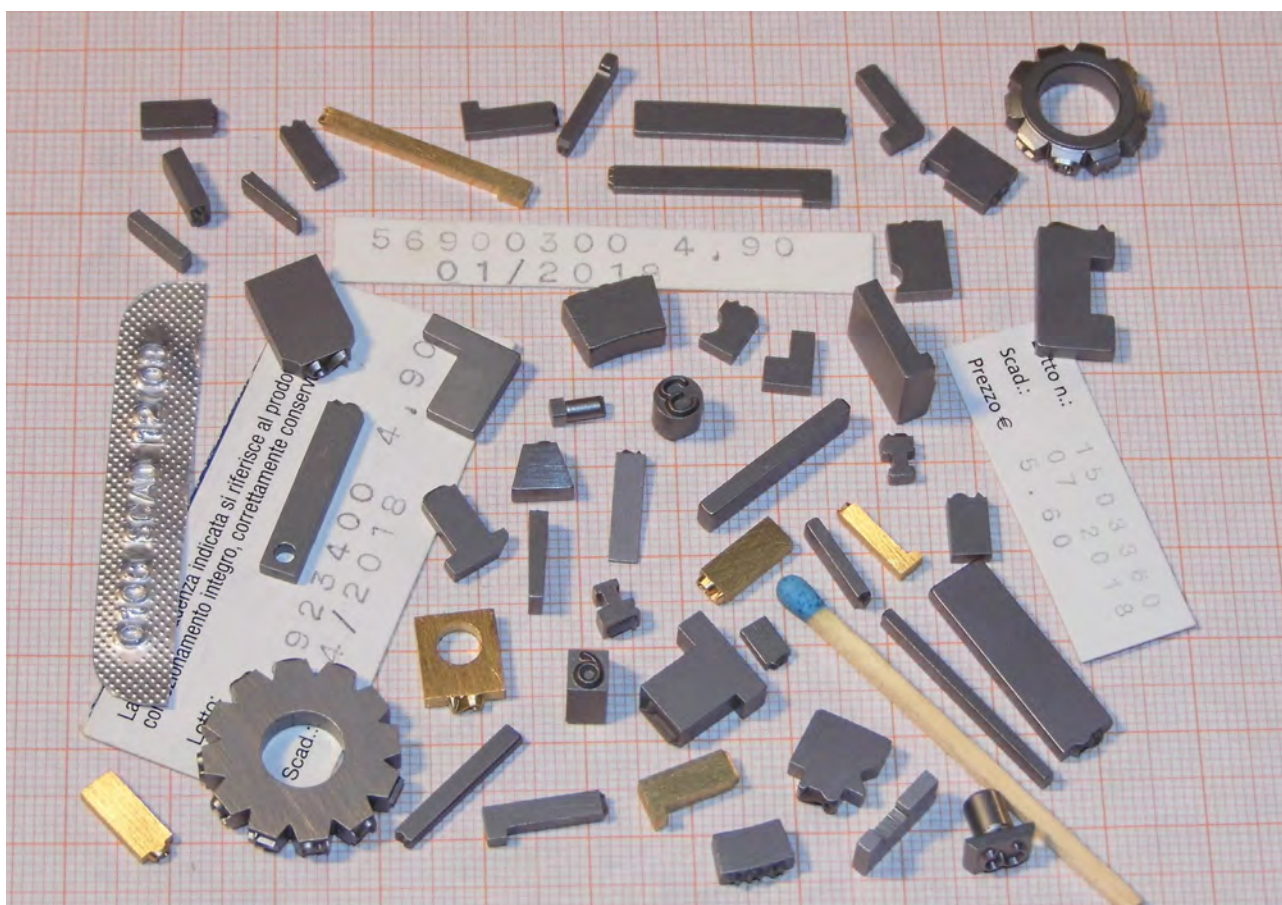


Considering what above mentioned - and in order to represent a bridge between the old and the new way of working - our company has decided to be next to people who still use a product of undisputed validity and reliability such as the steel type. We offer our customers the highest flexibility in the 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](http://www.ems99.it)**





# FACHPACK 2024



**Your Guide for a Packaging Industry in Transition.**

a Newsletter from FACHPACK >

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**> 24.-26.9.2024**

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ON TOMORROW'S  
PACKAGING CONCEPTS >**

**EUROPEAN TRADE FAIR  
FOR PACKAGING, TECHNOLOGY AND PROCESSING**



# BIOGEST SRL: ANALYSIS OF FOOD CONTAINERS AND PACKAGING

**T**he 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.

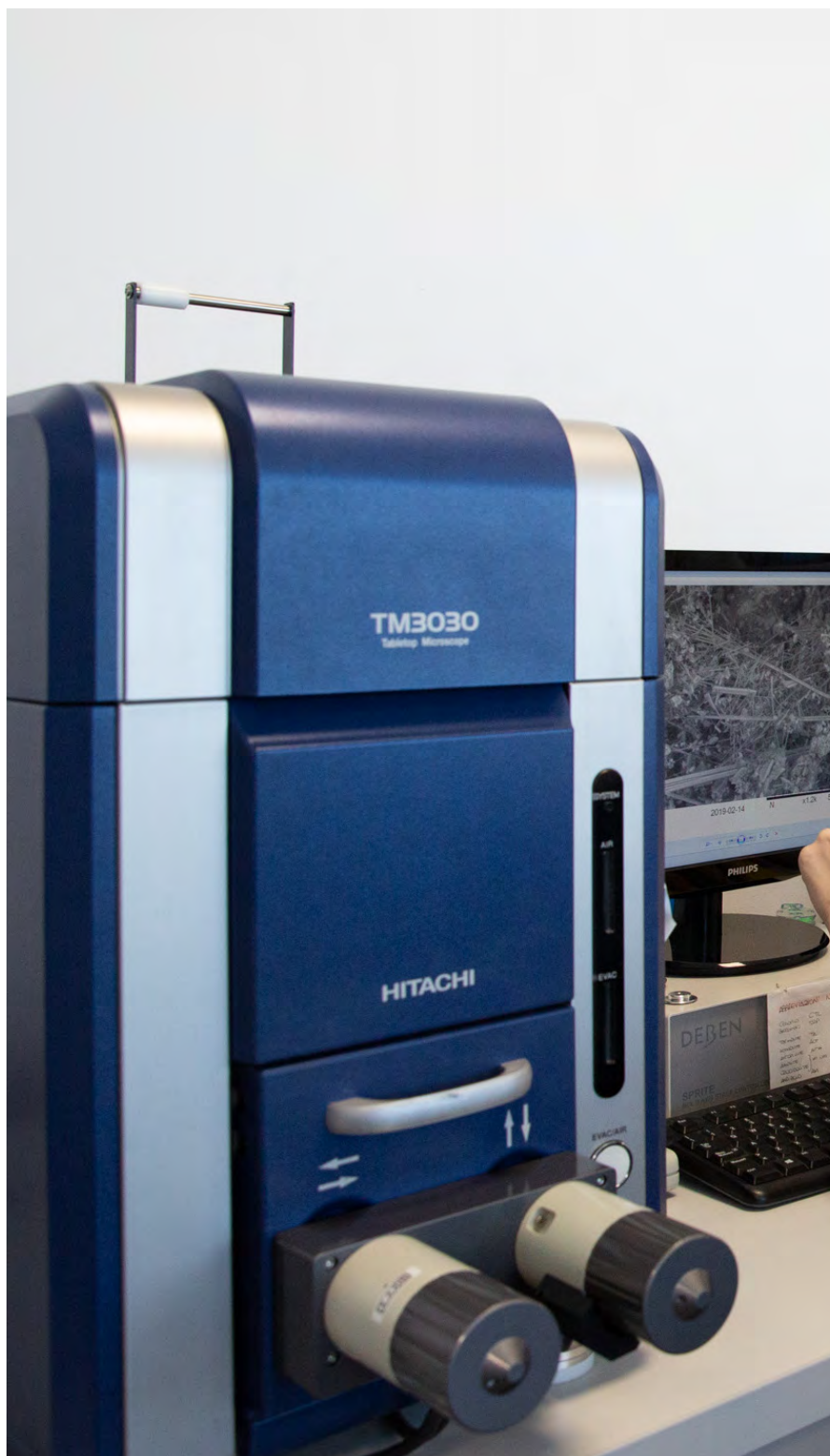
All materials that come into contact with food, from manufacturers' packaging to crockery, cutlery, glass, ceramics and food storage containers, must be tested to ensure their safety. In fact, they must not transfer unacceptable quantities of their components to food. The analysis of materials intended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





## SECTORS

✓ 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**



# AUTOMATION SYSTEMS

**A**utomation Systems is a company comprised of a team of skilled engineers specializing primarily in the Converting industry.

Our technicians have acquired over 30 years of experience in this field, allowing us to provide a turnkey service that encompasses everything from the CAD design of electrical and pneumatic schematics to the design of PLC SW, DRIVES, operator terminals, and supervision.

We also manufacture electrical cabinets and on-board machine systems, as well as provide installation, testing, and specialized technical assistance worldwide.

Our main focus is on the following types of machines: rotary presses, coaters, laminators, cutters, extruders, metallizers, flexographic presses, and machines for the paper and board industry.

In addition to graphic machines, our company has also gained experience in motion control systems, electrifying automatic machines with absolute precision and high-speed controls.

We utilize a variety of drives and control systems, such as Siemens (s5, s7, Simotion), Allen Bradley (Plc5, slc500,

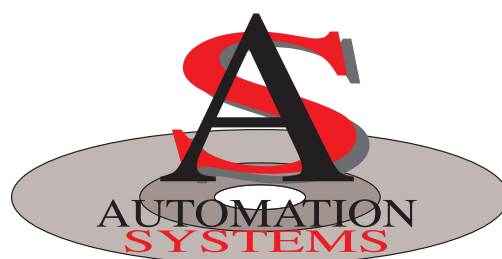
**machines for rotary presses, coaters, laminators, cutters, extruders, flexographic presses, metallizers, and machines for the paper and board industry**

compact logix), CGE, Parker SSD (AC, DC, Brushless), Control Techniques (mentor DC, unidrive, unidriveSP, commander SE), Siei (DC, AC, Brushless), ABB (DC, AC), Danaher Motion, and many more.

Our Human-Machine Interface (HMI) systems include Wincc Flexible, Protool, Panel View, TIA PORTAL, Uniop, ESA, Proface, and others.

We are confident that we can offer you an expert and reliable technical service.

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



## SECTORS

 **AUTOMATION**

 **GRAPHIC MACHINES**



# ALTECH - ADVANCED LABELLING TECHNOLOGIES



**AL  
TECH**  
Advanced Labelling Technologies

**A**LTECH is an Italian company specialised in the design and production of industrial labelling machines and coding and identification systems.

ALTECH offers a range of machines designed to meet a constantly evolving range of labelling requirements, ranging from labelling heads and print-apply label applicators through to complete labelling systems able to be installed in packaging lines.

ALTECH has maintained a presence in the market since 1991, and during its three decades of activity the quality of the company's systems has won over an increasingly large number of customers worldwide.

So much so, that ALTECH is now to all effects recognised as a world leader in the sector, with customers in over 50 different countries, and more than 1500 machines manufactured in 2022

ALTECH will be keeping its traditional appointment in Dusseldorf, exhibiting at Interpack from 4-10 May 2023, where the most representative models in its range, as well as some important new ones, will be on display at **Hall 08B stand 8BC48.**

**In particular, the following will be on show:**

- The ALstep E, the most compact and economical labelling head on the market.



- The ALritma S, a high-performance labelling head with touchscreen display.
- The ALritma X, an industry 4.0-ready labelling head with exceptional performance.
- ALcode AC05, a real-time print-apply unit with air-blow applicator.
- ALcode AC36, a real-time print-apply unit with full-electric applicator with vacuum belts.
- ALline E/C, for front-back labelling of elliptical products, presented with an adjustable axis drive system and automatic format change logic.
- ALcode Robot, for real-time printing and application of labels to pallets, equipped with a robot arm able to reach different application positions and programmable via learning.
- ALbelt BT52, for top and bottom label application on tubs.



## SECTORS

✓ PACKAGING

✓ BEVERAGE

✓ FOOD

For further information

**info@altech.it**

**www.altech.it**





# PROTECTING YOUR PRODUCTS SINCE 1991

**I**t 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

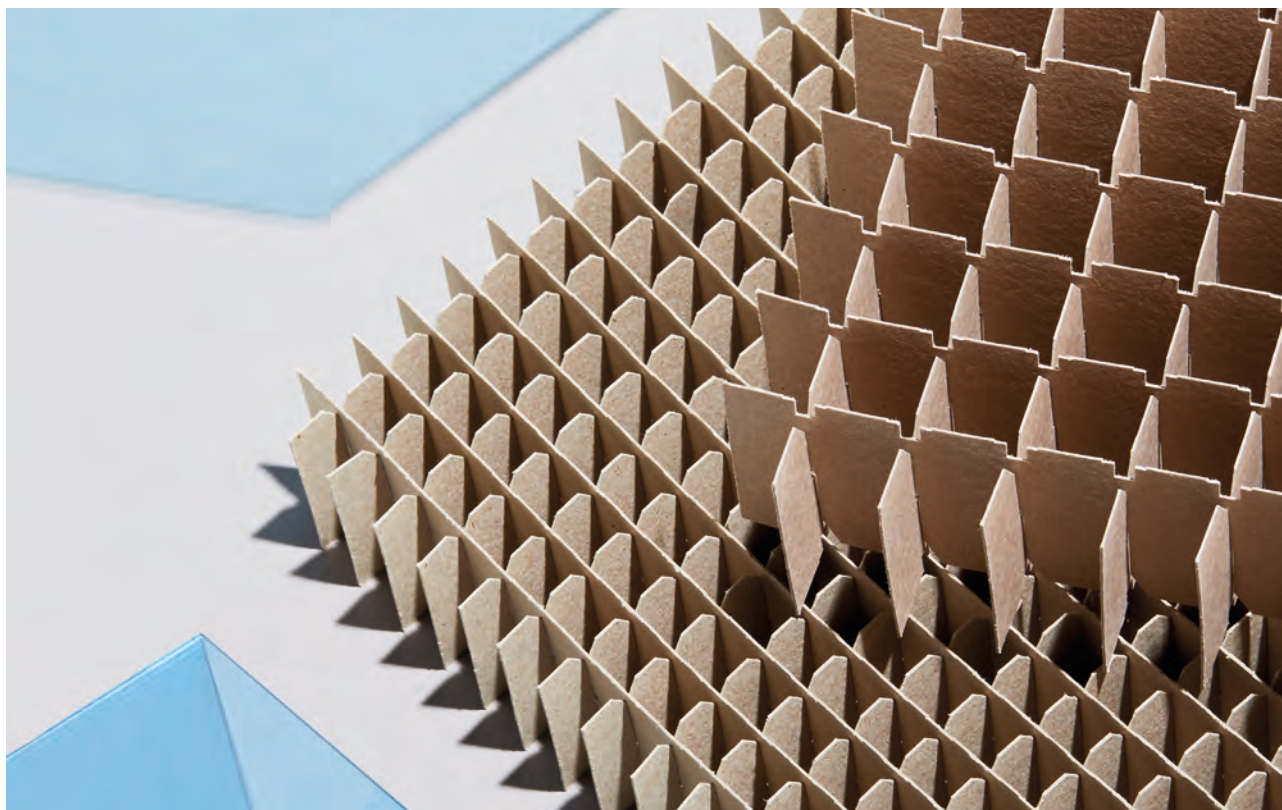
✓ PHARMACEUTICAL

✓ 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](http://www.alveare.com)**



[www.koreapack.org](http://www.koreapack.org)



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# GLOBAL PET FOOD PACKAGING MARKET SET TO DOUBLE BY 2032

**T**he global pet food packaging market is set to double by 2032. This surge is expected to propel the market value from **USD 11.38 billion in 2022** to an impressive **USD 22.08 billion by 2032**.

The Global Pet Food Packaging Market projections indicate a robust trajectory, was estimated on USD 19.33 Billion on 2030.

Pet food packaging plays a vital role in safeguarding pet food products' integrity and nutritional value. Beyond its protective function, packaging is an essential source of factual and legal information for pet owners who seek to make informed choices about the food they provide for their pets.

## Key Drivers for Market Expansion

### 1. Increasing Pet Ownership Rates

The surge in pet ownership worldwide is a significant catalyst for the escalating demand in the pet food packaging market. As more families welcome furry companions into their homes, the need for high-quality, sustainable packaging solutions becomes paramount.

### 2. Growing Awareness of Pet Health and Nutrition

Pet owners are becoming increasingly discerning about

the quality and nutritional value of the food they provide for their pets. This shift in consumer behavior is driving the demand for packaging that not only preserves the freshness of pet food but also conveys a sense of trust and reliability.

## Global Pet Food Packaging Market: Regional Insights and Growth Prospects

The North American region has established itself as a dominant global pet food packaging player, securing the largest market share. A notable trend among U.S. consumers, characterized by the inclination to treat their pets as integral family members, has driven a surge in the premiumization of pet food products and their corresponding packaging solutions within this geographical segment. The United States stands as the principal market in this region, with Canada following suit.

While the sale of packaging products for dog food has historically been robust, the industry is projected to experience heightened demand for packaging solutions designed for cat food. This shift can be attributed to the growing consumption of cat food products, particularly within the wet cat food segment.

The escalating demand for pet food packaging within North America can be closely linked to the rising trend of pet adoption in the region, particularly the adoption of



**Pet Food Packaging Market Size, 2022-2032 (USD Billion)**

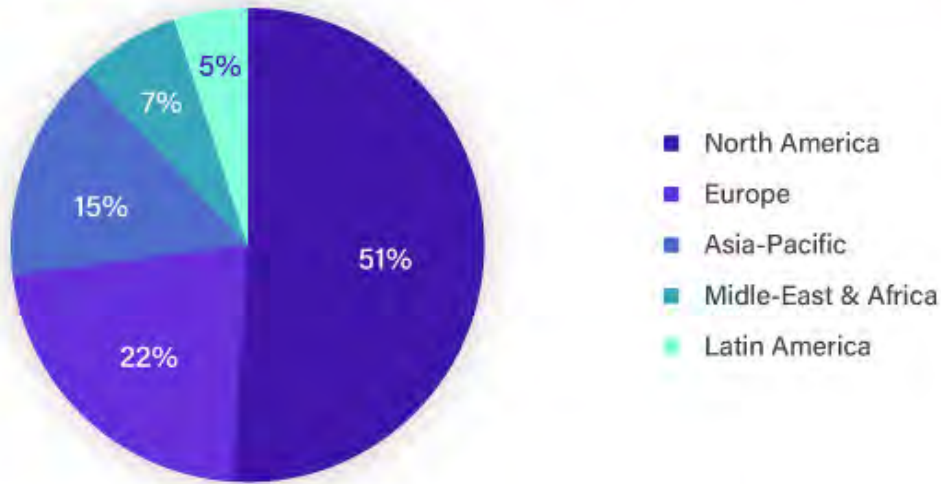


Source: [www.towardspackaging.com](http://www.towardspackaging.com)





## Pet Food Packaging Market Share, By Region, 2022 (%)



Source: [www.towardspackaging.com](http://www.towardspackaging.com)

rescue dogs. Data from the National Pet Owners Survey of 2021-2022 conducted by the American Pet Products Association (APPA) underscores this connection.

### The Market for Packaged Dog Food in India

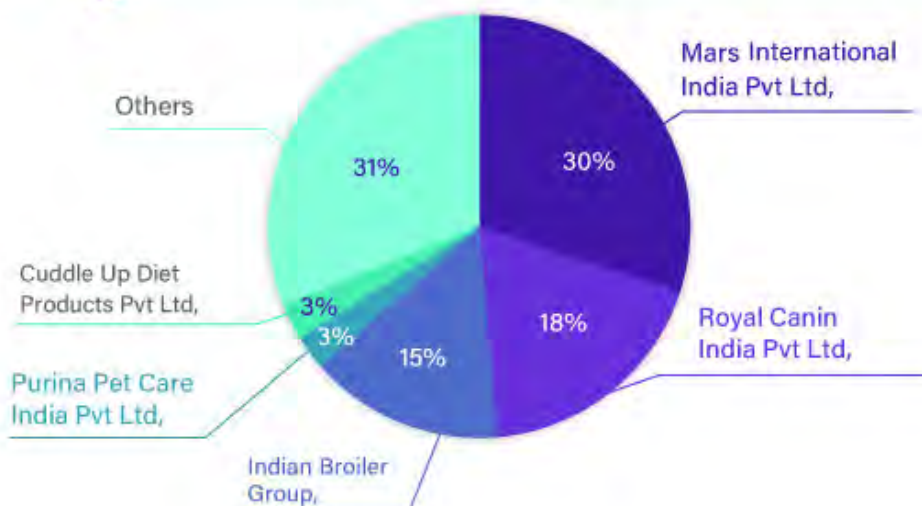
Pet dogs in India have significantly transformed their role within households. Over the years, their status has evolved from that of a protective watchdog to that of a cherished and indispensable family member. This shift in perspective has also been mirrored in the changing behaviors of dog owners, which is evident in their expenditure patterns on dog food and care-related products.

### Environmental Considerations Remain a Top Priority.

The pandemic has notably influenced various facets of consumer shopping behaviour; however, sustainability remains a paramount concern and a prominent topic for consumers globally. Notably, the recent decline in carbon emissions from COVID-related restrictions has contributed to the amplification of discussions regarding sustainability and the envisioned trajectory in a post-pandemic context. This reinforces the enduring importance of environmental sustainability and stimulates contemplation on the shape of the future in a post-COVID landscape.



## Market Share Distribution of Dog Food Companies, 2023 (%)



Source: [www.towardspackaging.com](http://www.towardspackaging.com)







## Advantages of Utilizing Flexible Packaging for Pet Food Products

### Freshness:

- Flexible packaging offers the most effective solution for preserving and extending the shelf life of pet food products.

### Sustainability:

- Recognizing the growing demand for organic pet food and the increasing emphasis on environmental consciousness, FoxPak has taken steps to develop a comprehensive lineup of recyclable packaging solutions. These innovative solutions cater specifically to pet food producers, aligning their packaging options with their product offerings and brand values.

### Convenience:

- Flexible packaging proves to be a versatile solution that caters to a wide spectrum of pet food products, accommodating pack sizes ranging from 100g to 15kg. This adaptability makes it a perfect fit for a diverse range of pet food offerings.
- Moreover, the easy opening and closure options available in flexible packaging add to its appeal. These features enhance user convenience and ensure the continued freshness of the pet food. Additionally, the packaging's minimal storage requirements contribute to its practicality, allowing for efficient use of space.

### Recent Developments:

- **14 Feb 2023**, ProAmpac has introduced a cutting-edge polyethylene (PE)-based flexible packaging series, branded as ProActive Recyclable® R-2050. This patent-pending packaging innovation is now accessible within the European market, offering versatile applications across various sectors, including dry food, frozen food, fresh produce, and pet treats. The introduction of ProActive Recyclable® R-2050 underscores ProAm-

pac's commitment to advancing sustainable packaging solutions, catering to a range of industries while contributing to enhanced environmental responsibility.

- **04 May 2023**, UPM, a prominent player in the industry, has introduced an environmentally conscious solution to the pet food packaging sector. This innovation entails the launch of an eco-friendly pet food sack, aligning with the company's commitment to sustainability and responsible packaging practices
- **04 Oct 2023**, ProAmpac has unveiled its latest groundbreaking innovation, the PRO-EVO Recyclable packaging, explicitly focusing on dry pet food products. This patent-pending packaging solution represents a remarkable stride in sustainable packaging. Crafted from a multi-wall, paper-based material, the packaging is a self-opening-sack (SOS) bag. Particularly noteworthy is its certification for curbside recycling, a significant advancement that underscores its commitment to bolstering the recyclability of pet food packaging. Introducing PRO-EVO Recyclable underscores ProAmpac's dedication to environmentally conscious packaging, aligning seamlessly with their ProActive Recyclable series of products.

## About Us

Towards Packaging is a leading global consulting firm specializing in providing comprehensive and strategic research solutions across various industries. With a highly skilled and experienced consultant team. We offer specialized consulting in the packaging industry, providing comprehensive insights into market trends, regulations, and emerging technologies. Our tailor-made services address unique challenges, keeping you ahead in an evolving market. With a focus on innovation and sustainability, our solutions drive growth, enhance customer experiences, and elevate your business in the global market.

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# 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

**F**ood 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.



images: pexels.com





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

**S**ustainability 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**.

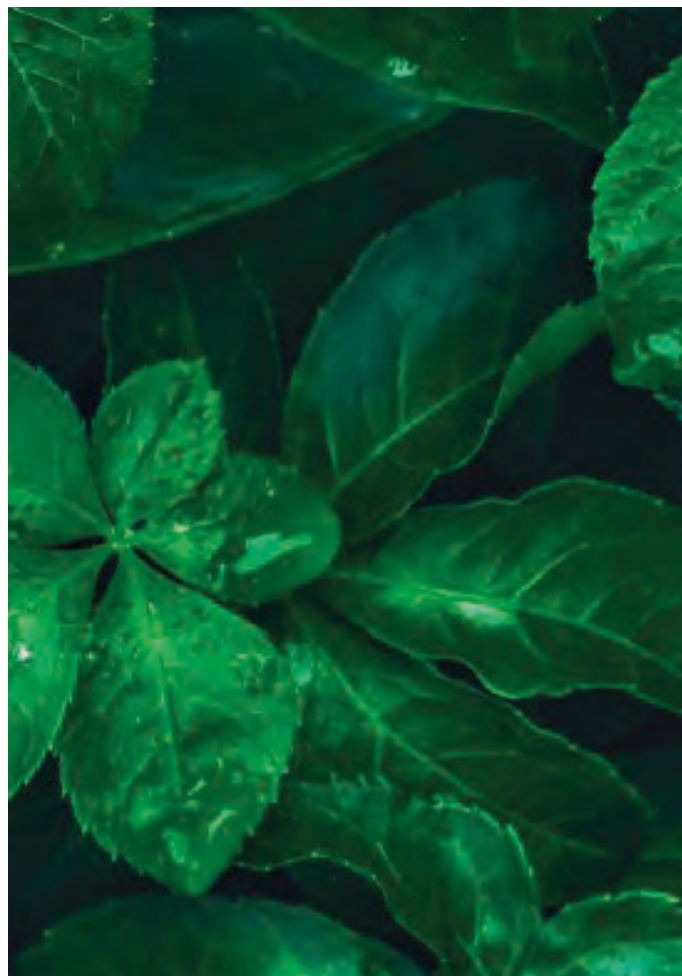
**NOP** (No-Plastic Program) fosters the employment of eco-friendly materials for the gradual **reduction of plastic** in packaging produced by IMA machines. To this purpose, **IMA OPENLab** plays a fundamental role: the Group's network of technological laboratories and testing areas is dedicated to 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/](http://www.ima.it/en/)



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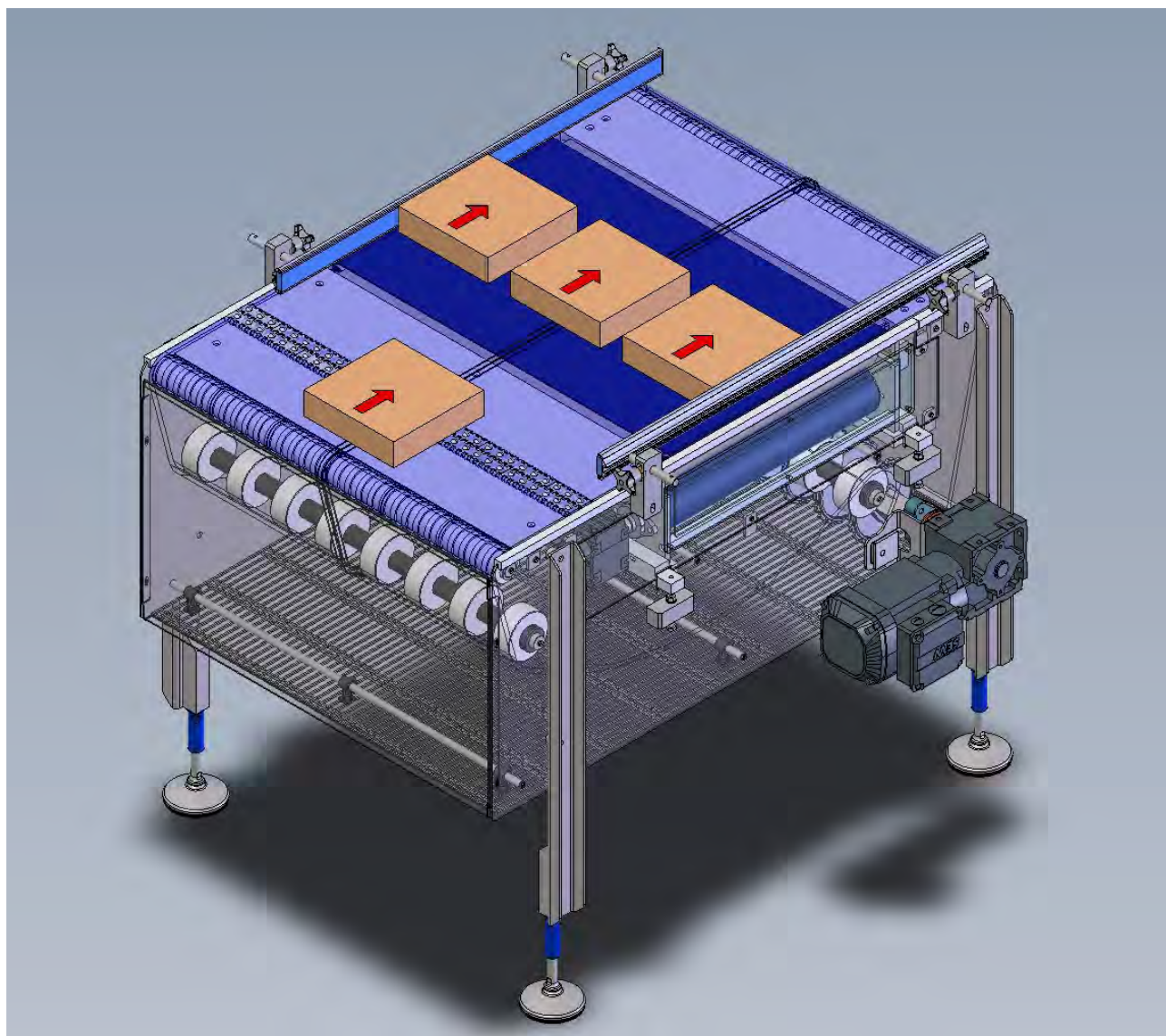
# SPHERE SORTER: A VERSATILE SOLUTION FOR PRESENT CHALLENGES

**T**he 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](http://www.mhmaterialhandling.com)



## SECTORS

✓ AUTOMATION

✓ FOOD

✓ PHARMACEUTICAL





# 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.



**T**he 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/m<sup>2</sup> 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](http://www.oppliger.eu)



oppliger

SECTORS

✓ PACKAGING

✓ PAPER CONVERTING

✓ LITHO-LAMINATING



# PHARMACEUTICAL PACKAGING MARKET

## Boasting a Remarkable CAGR Of 10.7%

**T**he pharmaceutical packaging market is on the cusp of a transformative journey, poised to redefine the landscape of healthcare delivery. With an estimated market size projected to soar from **USD 117.23 billion in 2022** to an astounding **USD 322.50 billion by 2032**, boasting a remarkable **CAGR of 10.7%**, the global pharmaceutical packaging market is not just expanding; it's evolving. In this article, we delve into the forces propelling this growth and the implications for the future.

### Riding the Wave of Technological Advancements

#### Smart Packaging Solutions:

- The integration of sensors and RFID technology is revolutionizing packaging, ensuring product authenticity and integrity.

#### Eco-Friendly Materials:

- The industry is embracing biodegradable materials, a significant stride towards sustainability.

### Pharmaceutical Packaging Market: North America Leading with Highest Value Share

North America, particularly the United States, dominates the pharmaceutical packaging market in this region. Stringent regulations, advanced healthcare infrastructure, and a strong focus on patient safety and compliance drive the market. Key market drivers include the demand for tamper-evident and child-resistant packaging and the growing emphasis on sustainable packaging solutions. The market is highly competitive, with significant players catering to the diverse needs of the pharmaceutical industry.

The United States holds a commanding position in the North American pharmaceutical packaging market. Renowned for its well-established pharmaceutical industry, the country provides a conducive environment for major pharmaceutical companies and packaging manufacturers to thrive.

### Regulatory Compliance: Navigating the Complexities

#### Tamper-Evident Packaging:

- Stringent regulations drive the adoption of tamper-evident features, safeguarding pharmaceutical products.



Pharmaceutical Packaging Market Size 2022 To 2032 (USD Billion)



Source: [www.towardspackaging.com](http://www.towardspackaging.com)



#### Serialization Imperative:

- Meeting serialization requirements is shaping packaging designs, enhancing traceability and security.

#### **Patient-Centric Innovation: Beyond the Prescription**

##### Accessible Packaging Design:

- Packaging is evolving to prioritize accessibility, facilitating ease of use for patients.

##### Information Accessibility:

- Patient-friendly packaging ensures clear and comprehensive information dissemination, empowering individuals in their healthcare journey.

#### **Supply Chain Resilience: Ensuring Smooth Production in the Pharmaceutical Packaging Market**

- International Paper Company offers packaging solutions for various end-user industries, including the pharmaceutical industry. The company published its annual report for 2022, according to which the company's net sales reached up to \$21.2 billion in 2022.
- Syntegon is a company that offers packaging solutions for the pharmaceutical industry. According to the company's statement, the order income increased by 3.0% in 2022.
- The company invested 49 million Euros in research and development activities.
- While expanding its business for packaging solutions, Syntegon installed 67,000 machines worldwide in 2022.
- In 2022, the company generated approximately 33% from North America and 35% from Asia.

#### **Key Drivers of Growth in Pharmaceutical Packaging Market**

##### Technological Advancements Revolutionizing Packaging Solutions

The advent of cutting-edge technologies has ushered in a new era of innovation within the pharmaceutical packaging realm. From smart packaging solutions to advanced labeling techniques, the industry is witnessing a rapid transformation that not only enhances product safety but also elevates user experience.

##### Stringent Regulatory Standards Fostering Innovation

Regulatory bodies across the globe are continuously raising the bar when it comes to packaging standards for pharmaceutical products. This has necessitated companies to invest heavily in research and development to ensure compliance. As a result, this heightened focus on compliance is driving the adoption of state-of-the-art packaging solutions.

#### **Unveiling the Future: Technological Frontiers**

##### Nanotechnology Integration:

- The advent of nanotechnology in packaging promises enhanced drug delivery and preservation capabilities.

##### Personalized Medicine Packaging:

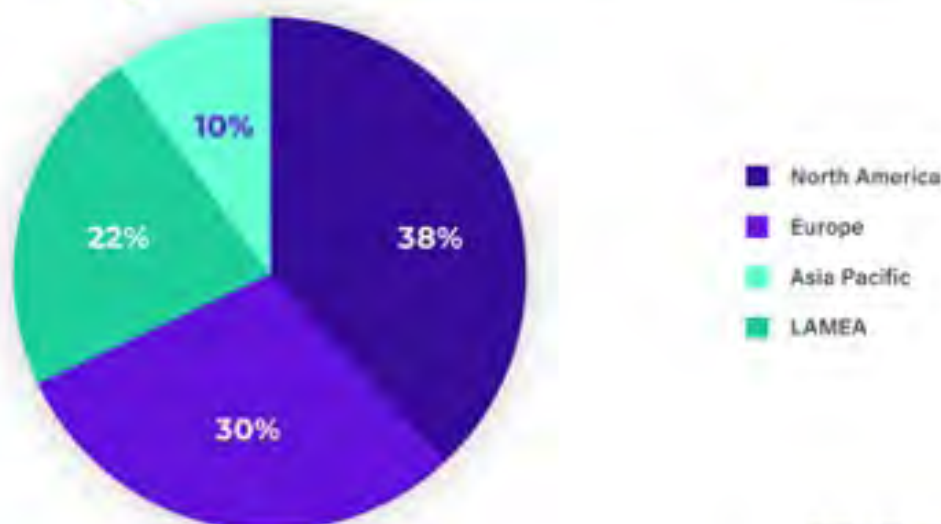
- 3D printing is poised to revolutionize packaging for personalized medicine, tailoring solutions to individual patient needs.

##### AI and Machine Learning Integration:

- The integration of artificial intelligence and machine learning streamlines packaging processes, ensuring efficiency and quality control.



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



Source: [www.towardspackaging.com](http://www.towardspackaging.com)





**Challenges and Opportunities: A Balanced Perspective**Supply Chain Complexities:

- The global nature of the pharmaceutical industry introduces challenges in the supply chain, prompting innovative solutions.

Emerging Market Opportunities:

- Growing healthcare needs in emerging economies present untapped opportunities for the pharmaceutical packaging market.

**The Road Ahead: A Commitment to Excellence**Patient Safety as the Priority:

- As the industry expands, a steadfast commitment to ensuring patient safety remains paramount.

Transforming Healthcare Ecosystem:

- Packaging is not merely a means to an end; it is a pivotal element reshaping the entire healthcare ecosystem.

**Conclusion: Unveiling Tomorrow's Healthcare Landscape**

In conclusion, the global pharmaceutical packaging market is not just witnessing growth; it is navigating uncharted territories and revolutionizing the very fabric of healthcare. From adopting technological marvels to addressing regulatory intricacies and embracing sustainability, the industry is sculpting a future where phar-

maceutical packaging is synonymous with innovation, safety, and patient-centricity.

As we stand at the threshold of this transformative journey, the convergence of technology, regulatory acumen, and a commitment to sustainability is painting a canvas of endless possibilities. The soaring trajectory of the global pharmaceutical packaging market is not merely a statistical projection; it is a testament to an industry's resilience, adaptability, and dedication to enhancing global healthcare.

You can ask any questions, please feel free to contact at Email: [sales@towardspackaging.com](mailto:sales@towardspackaging.com)

**About Us**

Towards Packaging is a leading global consulting firm specializing in providing comprehensive and strategic research solutions across various industries. With a highly skilled and experienced consultant team. We offer specialized consulting in the packaging industry, providing comprehensive insights into market trends, regulations, and emerging technologies. Our tailor-made services address unique challenges, keeping you ahead in an evolving market. With a focus on innovation and sustainability, our solutions drive growth, enhance customer experiences, and elevate your business in the global market.

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





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

**S**upplyOne, 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 Well-spring 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](http://www.supplyone.com)

**SUPPLYONE**

**SECTORS**

 **FOOD**

 **LABELLING**





# NEWS: JUST IN TIME SERVICE

**F**or some of our products we offer a “Just in time” service keeping the items in stock for both small and large quantities.

Depending on customer request there is the possibility of purchasing starting from a box up to the quantity required and available, considering that the quantity of each box changes depending on the item.

If the quantity required is larger than our stock, delivery times for the new production would still be approximately 3 weeks from the order.

The products included in the Just in time service are: the Kristal and Cosmea Pet Series in neutral and white PET color, the Aurora 100 ml, Cremona 100 ml, Maleo 100 ml and 80 ml bottles in neutral HDPE. For any information you can contact our customer service.

**Piccoli Plast is a plastic bottle company that has been operating for more than 25 years in the packaging industry for the manufacturing of blow-moulded containers and technical articles.**

Our production is diversified. It is able to meet all the demands of various sectors such as food, cosmetics, pharmaceutical, chemical / cleaning and coating. In addition to being a successful plastic bottle manufacturer, Piccoli Plast is a leading company in the production of camicie/in-liners in PELD used for standard and open head drums and ISO-Container drums from 10 to 217 litres.

We produce containers from 5 ml to 200 lt., in standard or custom colours and, on request, we offer a decoration service with very short production times. Piccoli Plast, a plastic bottle company with a great story behind, is the right answer if you are looking for punctuality, flexibility, dynamism, and attention to the environment.

Visit the different sections of our website to find the solution that best suits your needs and desires!

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





## SECTORS

✓ FARMACEUTICO

✓ COSMETIC





# OUR IDEAS, YOUR NEEDS

## Since 1979

**S**acchettificio 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](http://www.sacchettificiotoscano.it)



**SACCHETTIFICIO  
TOSCANO**

italian packaging

**SECTORS**

 **PACKAGING**





# NOT JUST GOOD. SMI SOLUTIONS FOR THE FINI GROUP

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



**W**hen 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](http://www.smigroup.it)





# 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.

**O**liver 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](http://www.oliverhcp.com)

## SECTORS

 **PHARMACEUTICAL**

 **DIAGNOSTICS**





# ROTOPRINT, PACKAGING FIRST AID SINCE 1978

**R**otoprint 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 (tetraresh, 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**



# DOMINIONI: PRODUCTS FOR ANY REQUIREMENT

**D**OMINIONI 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](http://www.dominionisrl.it)**



## SECTORS

COSMETIC

DIFFERENT ITEMS



# SCANNY3D: GEOMETRIC DEFORMATION CONTROL ON GLASS BOTTLES

**S**canny3D 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.



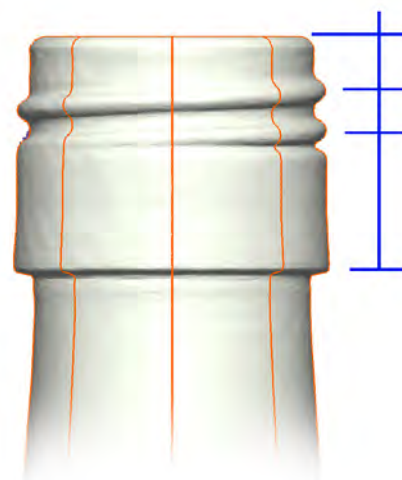
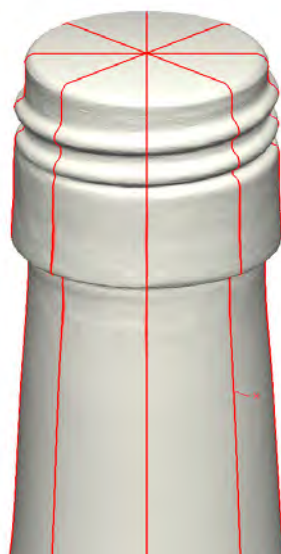
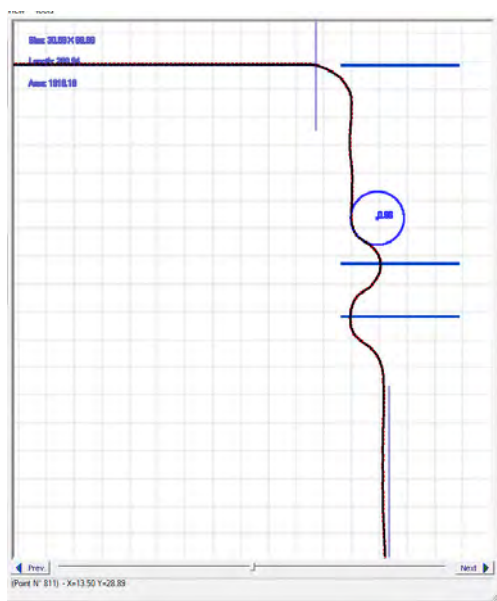
## SECTORS



**AUTOMATION**



**FOOD AND NON-FOOD**

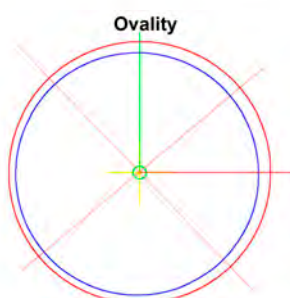
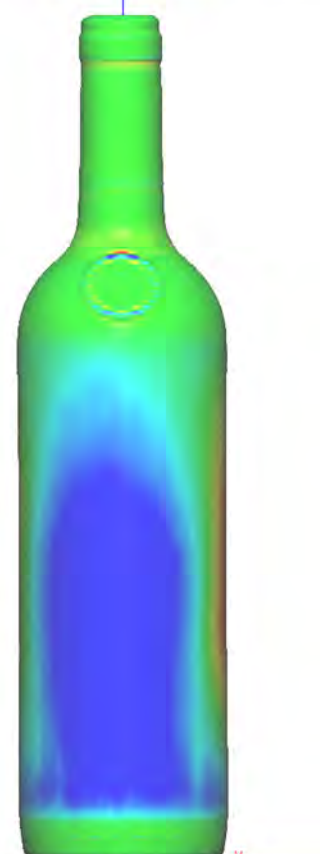
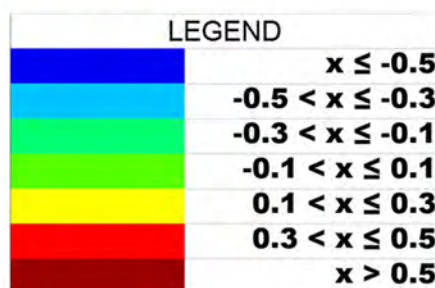
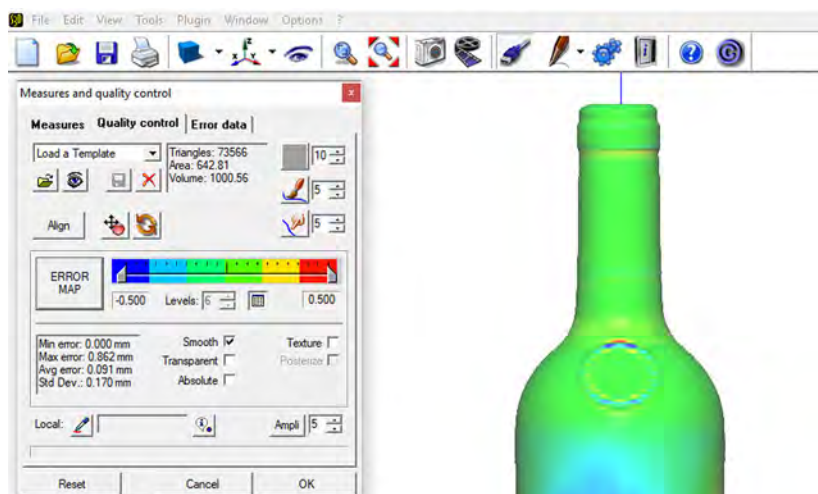


The automatic screw control of the bottleneck, among other things, is very important to ensure a perfect closure of the cap.

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**





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

## FLEXIBILITY AND INNOVATION IN PACKAGING LINES AND SERVICES

**U**niversal 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.**

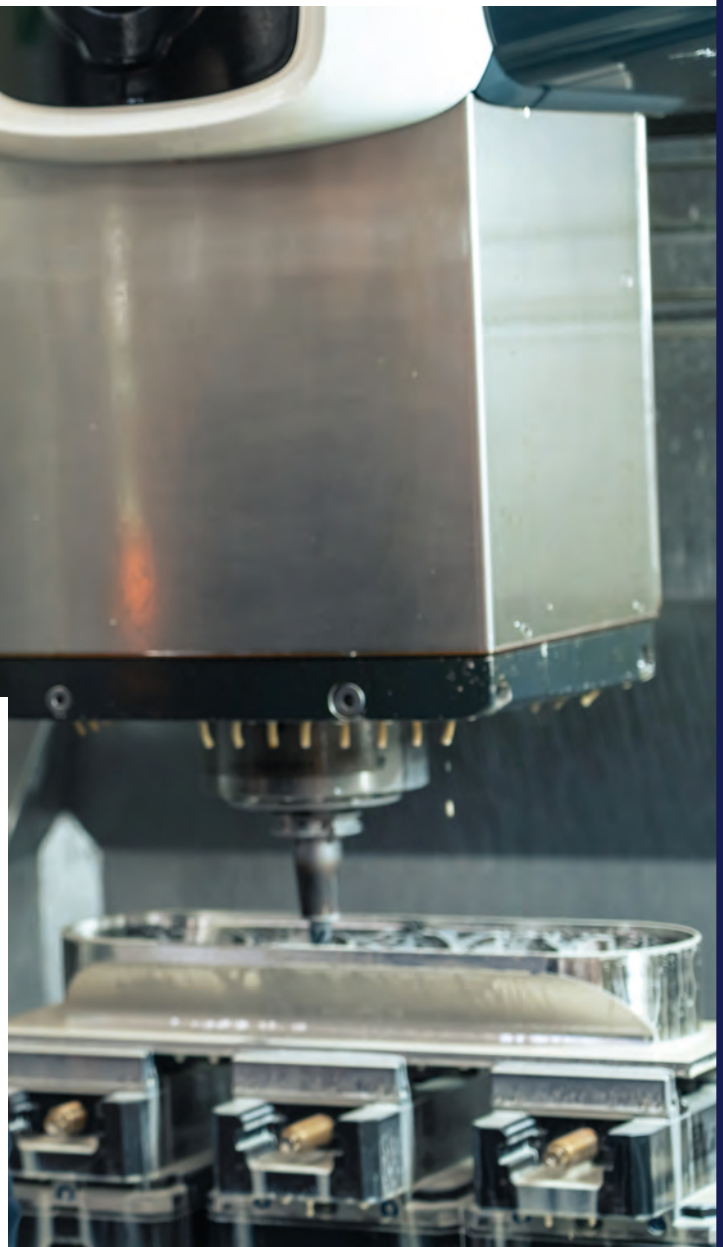
**How do the product traceability and serialization systems work, and how does the company ensure**

## SECTORS

✓ 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](http://www.universalpack.it)



# PHARMACEUTICAL TEMPERATURE CONTROLLED PACKAGING SOLUTIONS MARKET

## Predicted To Reach Around USD 945.2 Million By 2030

**T**he global pharmaceutical temperature-controlled packaging solutions market was valued at USD 578.9 million in 2022 and is predicted to reach around USD 945.2 million by 2030, growing at a 6.30% CAGR from 2022 to 2030.

The pharmaceutical temperature-controlled packaging solutions market has experienced significant growth in recent years, driven by the increasing demand for temperature-sensitive medications and the need for effective packaging solutions to maintain product integrity.

### Riding the Waves: Factors Driving Market Expansion

#### 1. Escalating Demand for Drug Safety Assurance

As the pharmaceutical industry continues to witness unprecedented advancements, the demand for robust temperature-controlled packaging solutions is surging. Stakeholders are increasingly recognizing the critical role played by these solutions in safeguarding the effi-

cacy of medications, especially those susceptible to temperature variations.

#### 2. Stringent Regulatory Standards

The stringent regulatory landscape governing pharmaceutical logistics amplifies the need for cutting-edge temperature-controlled packaging. Adhering to international standards not only ensures compliance but also instills confidence in consumers and stakeholders, driving the market towards sustained growth.

North America has emerged as the dominant market for temperature-controlled packaging solutions in the pharmaceutical industry, capturing a significant market share. This growth can be attributed to the increasing demand from the healthcare sector. The region experiences a strong need for transporting vaccines and drugs and conducting clinical trials, leading to substantial growth in the temperature-controlled packaging sector. China, known





as the “world’s factory,” has played a crucial role in this disruption. The widespread lockdowns, slowdowns in product manufacturing, shortage of raw materials, and labour scarcities have had a domino effect on the international supply chain, specifically impacting North America’s temperature-controlled pharmaceutical packaging market.

## **Navigating Growth Trends: A 2022-2030 Outlook**

### 1. Cold Chain Innovations

In the wake of technological evolution, the pharmaceutical temperature-controlled packaging solutions market is witnessing a paradigm shift. Innovations in the cold chain, leveraging state-of-the-art materials and design, are enhancing the efficiency and reliability of these solutions, catering to the evolving demands of the industry.

### 2. Biopharmaceuticals and Personalized Medicine

The rise of biopharmaceuticals and personalized medicine presents a unique set of challenges and opportunities for temperature-controlled packaging. With an increasing focus on precision medicine, packaging solutions must adapt to accommodate diverse formulations and maintain the integrity of these cutting-edge pharmaceuticals.

## **Projections and Beyond: Anticipated Market Landscape**

### 1. Regional Dynamics

Examining the market through a regional lens reveals diverse growth patterns. While established pharmaceutical markets contribute significantly to the current

valuation, emerging economies are anticipated to play a pivotal role in propelling the market forward. This global landscape underscores the need for adaptable and scalable temperature-controlled packaging solutions.

### 2. Collaboration and Partnerships

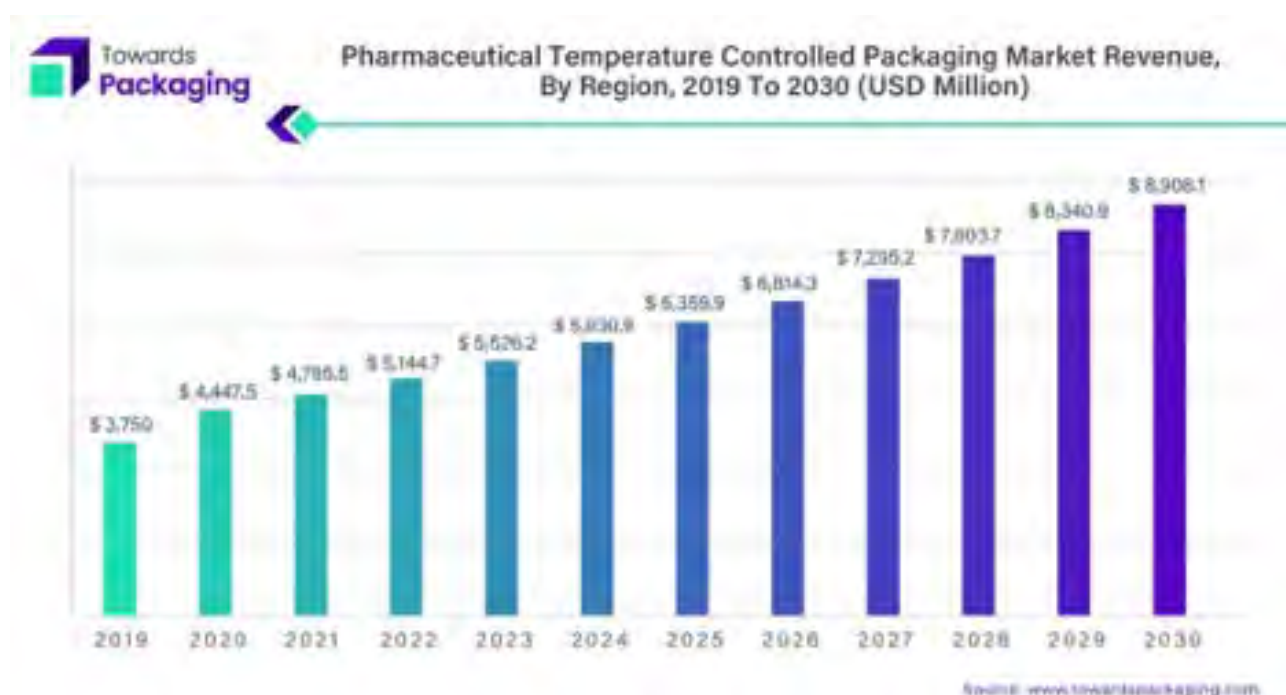
To stay ahead in this competitive landscape, industry players are fostering collaborations and partnerships. These strategic alliances not only facilitate knowledge exchange but also pave the way for innovative solutions, driving market expansion and ensuring a competitive edge.

## **Crisis and Resilience: Analysing the COVID-19 Impact on the Temperature-Controlled Pharmaceuticals Solution Packaging Market**

The COVID-19 pandemic has had a significant and transformative impact on the temperature-controlled pharmaceutical packaging market. As the world grapples with the challenges posed by the global health crisis, the demand for temperature-controlled packaging solutions for pharmaceuticals has skyrocketed. The pandemic has highlighted the critical importance of maintaining pharmaceutical products’ efficacy, safety, and integrity, especially vaccines and other temperature-sensitive medications.

## **Comparative Landscape Analysis of the Temperature-Controlled Pharmaceuticals Solution Packaging Market**

The temperature-controlled pharmaceutical solution packaging market refers to the industry that provides packaging solutions for pharmaceutical products that





require strict temperature control to maintain their efficacy and safety. This market has witnessed significant growth in recent years due to the increasing demand for temperature-sensitive drugs and the need to ensure their quality during storage and transportation.

The comparative landscape of the temperature-controlled pharmaceutical solution packaging market involves analysing the key players and their market positions, strategies, product offerings, and competitive advantages.

### **Major Key Players in The Temperature-Controlled Pharmaceuticals Solution Packaging Market Are:**

Pelican Biothermal, Sonoco, Sofrigam SA Ltd., Cryopak, Inmark Packaging, Cold Chain Technologies, VA-Q-Tec AG, Envirotainer Ltd., and American Aerogel Corporation

### **Recent Development**

- In March 2022, Cold Chain Technologies, LLC, a prominent global provider of thermal packaging solutions for temperature-sensitive products and Aurora Capital Partners portfolio company, completed the acquisition of Packaging Technology Group, LLC (PTG). PTG is a leading supplier of environmentally friendly and curbside-recyclable thermal packaging solutions specifically tailored for the life sciences industry. This strategic acquisition further solidifies Cold Chain Technologies commitment to providing sustainable, eco-friendly packaging solutions.

The integration of PTG's renowned TRUEtemp Naturals Line, initially launched in 2018, enhances Cold Chain Technologies' ability to deliver exceptional time-temperature performance at pharmaceutical-grade levels while ensuring a packaging solution that is 100% curbside recyclable and environmentally conscious. Using PTG's innovative solutions, customers can significantly reduce the life sciences sector's carbon footprint by millions of pounds annually and minimize landfill waste.

- In December 2022, in response to the increas-

ing demand for environmentally friendly packaging solutions for temperature-sensitive pharmaceuticals, Sonoco ThermoSafe, a division of Sonoco, a leading producer of cold chain packaging for temperature assurance, is expanding its Orion Rental packaging program in the United Kingdom.

The Orion reusable rental packaging initiative provides UK healthcare organizations with access to a wide range of biologics, vaccines, clinical supplies, and other healthcare products that require specific temperature control during transportation.

- On March 10, 2023, Cryopak, a renowned cold chain packaging and temperature monitoring device provider announced a strategic partnership with M. Chasen & Son, Inc. to establish Chasen Fiber Technologies.

This collaboration aims to bolster Cryopak's commitment to environmentally-friendly shipping solutions by leveraging the expertise and resources of both companies. Chasen Fiber Technologies will focus on developing innovative fiber-based technologies to enhance the efficiency and sustainability of the shipping industry.

If you have any questions, please feel free to contact at email: [sales@towardspackaging.com](mailto:sales@towardspackaging.com)

### **About Us**

Towards Packaging is a leading global consulting firm specializing in providing comprehensive and strategic research solutions across various industries. With a highly skilled and experienced consultant team. We offer specialized consulting in the packaging industry, providing comprehensive insights into market trends, regulations, and emerging technologies. Our tailor-made services address unique challenges, keeping you ahead in an evolving market. With a focus on innovation and sustainability, our solutions drive growth, enhance customer experiences, and elevate your business in the global market.

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





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

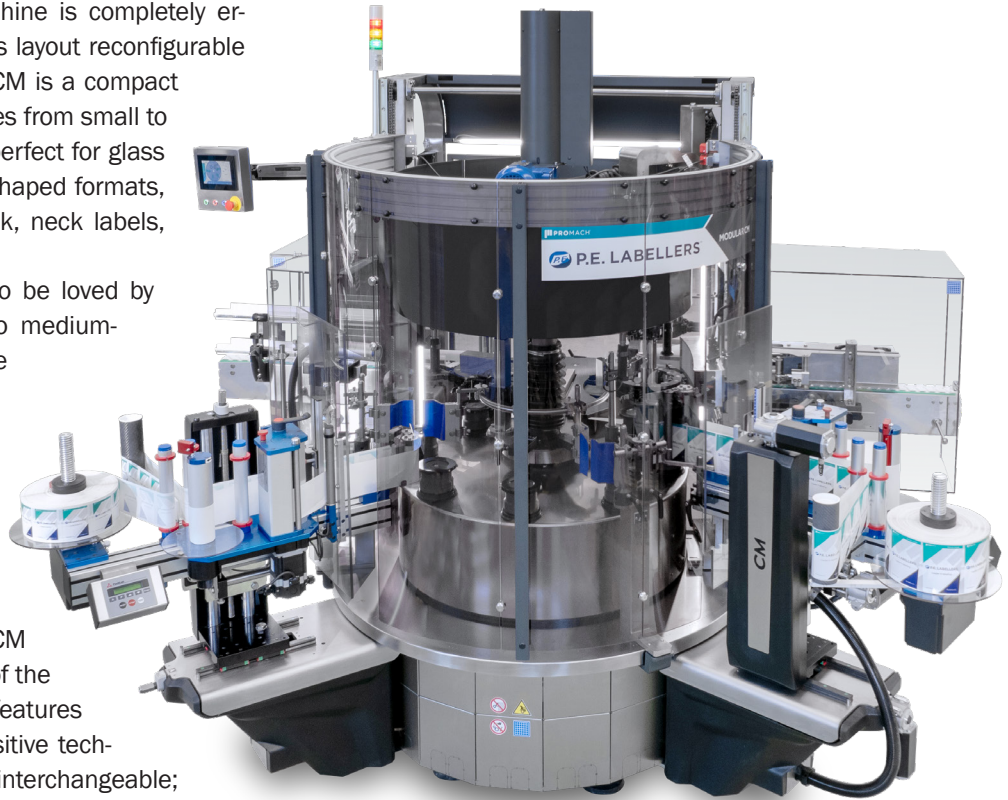
Modular CM is another P.E. labeling solution that combines flexibility and compactness

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





**T**he 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.



[www.pelabellers.com](http://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**





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

**G**icherstampa 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](http://www.gicherstampa.it)







**gicherStampa**  
etichette autoadesive



**SECTORS**

 **PACKAGING**





# GLOBAL CUSTOMER BASE DEMANDS GLOBAL SUPPORT

**I**n 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,

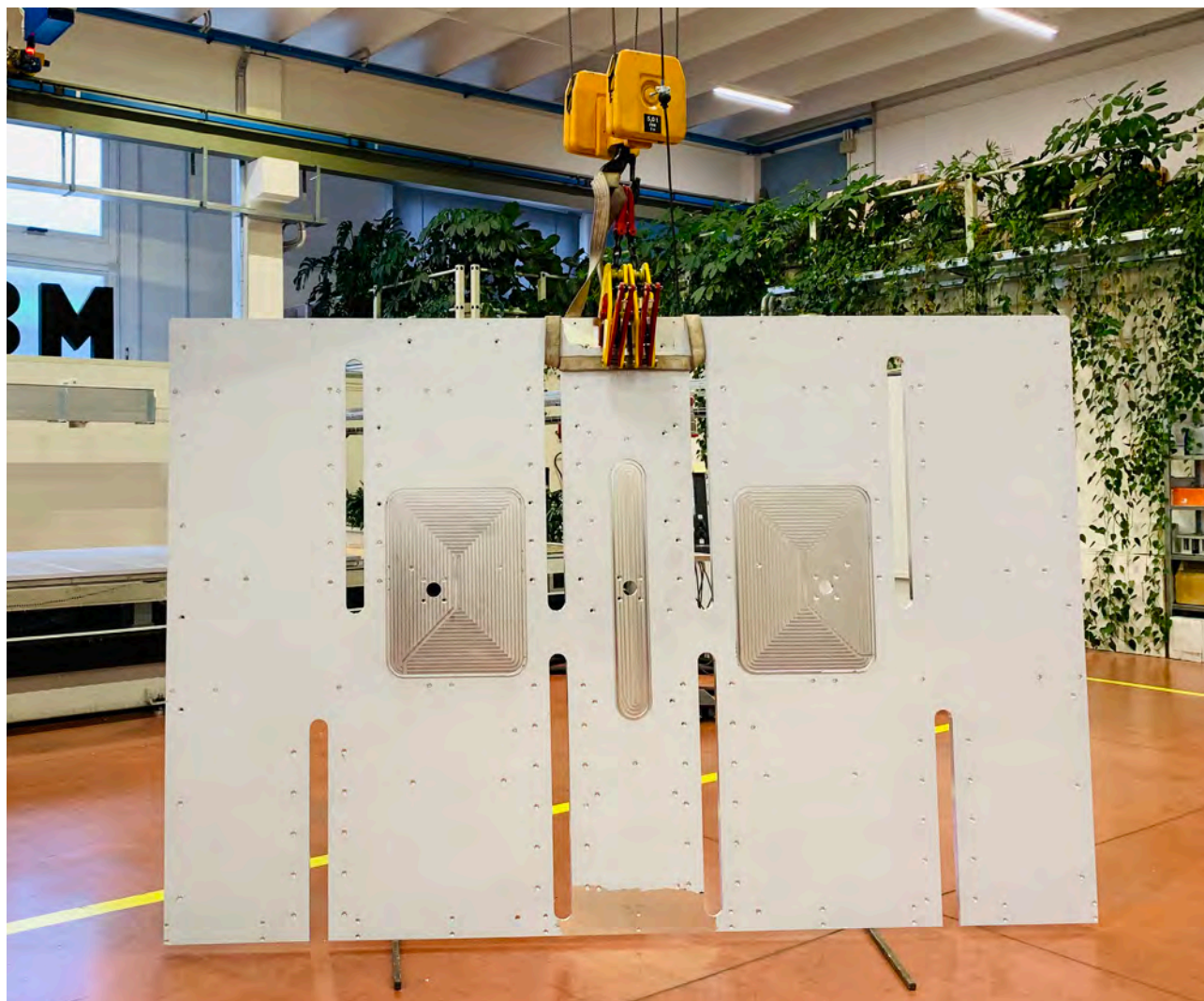
tablet and even smart glasses. Using this service, end users can interact virtually with Zacmi's support team in real time or via photo and video messages. Live training sessions can also be undertaken to help increase Overall Equipment Effectiveness (OEE).

“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/](http://www.zacmi.com/en/after-sales/)



# B.M. GROUP SRL ALL-AROUND SERVICE: CNC MACHINING - PRE-TREATMENTS - ANODIZING



**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.

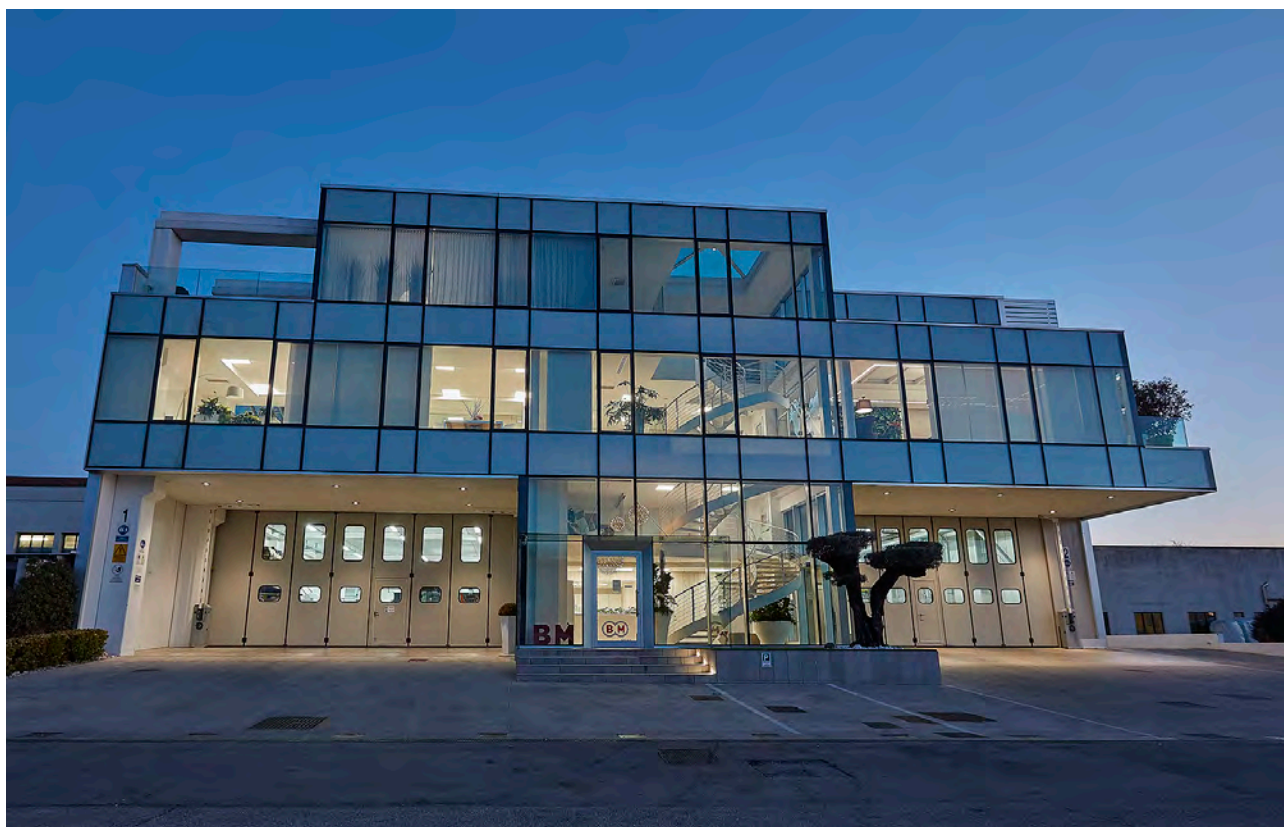


Our strong point is the speed of service, thanks to our warehouse which allows us to stock materials of different alloys (5083, 6082, 7075 etc.) and thicknesses, and also to our machines up to 13 meters long and 2,5 meters wide that enable us to machine multiple plates at the same time.

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



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# INNOVATION BY MINI MOTOR TALKS TO THE FOOD SECTOR

## Fast Change and Clean, two dedicated lines of Brushless motors designed for the specific needs of the food industry

**F**or over 55 years **Mini Motor**, an Italian company located in the heart of the Emilian Motor Valley, has been designing and manufacturing **electric motors** for the industrial sector, proudly bringing the Made in Italy all over the world.

With branches in Europe, USA and UAE, along with an extensive dealer network, Mini Motor makes innovation and new product development its flagship.

From the expertise of Mini Motor comes **Fast Change**, the new line for fast, effective and safe format change, ideal for the food sector.

Thanks to Mini Motor's experience and listening to a market that is increasingly looking for **customization and diversification** of "talking" packaging, this new line of motors has been designed with **remote control** to ensure compactness, compatibility and high integration in the system. Fast Change also guarantees a high speed, ensured by the higher actuation speed of the motors, double that of competitors, and by the reduction of machine downtime during format change, a particularly time-consuming and productive operation.

The **electronics** with which the **FC** is equipped allow parameters to be set and diagnostics to be carried out remotely, enabling the control and monitoring of the operating status of the product and predictive maintenance, an essential step in providing the machine with any necessary assistance in a short time.

Designed according to **Hygienic Design**, the Fast Change series meets the highest requirements of the food sector, guaranteeing hygiene, reliability and safety: indispensable allies for food processing and packaging.

The **stainless steel** present in Mini Motor motors, in fact, resists corrosion caused by food and drink, avoiding contamination and alteration of these. It is thanks to this special feature that stainless steel has been chosen as the protagonist of Mini Motor's line of **Clean brushless motors**: its use is a mandatory and successful choice in the food industry since **Inox 316L** is extremely resistant to jets of boiling water (80°C) and high pressure (90 bar); moreover, it is very easy to clean, thus becoming an ally for sectors that produce particular types of products, such as gluten-free ones.



# Fast Change

## SECTORS



**AUTOMATION**



**FOOD AND NON-FOOD**



The series also finds perfect application in the maturing plants of **delicatessen and ham industries** as well as in those for the processing of **fish and seafood products**. In such high salinity environments, the **316L Stainless Steel** chosen by Mini Motor, unlike the standard 304, is able to resist corrosion for a long time.

Once again, the Emilian company does not limit itself to responding to market demands, but pushes its **innovation further**, creating products capable of truly improving work in companies in the food sector and bridging the gap with competitors.



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





# 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](http://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 Inspectorate<sup>1</sup> 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 years<sup>2</sup>. 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 Utrecht<sup>3</sup>. 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.

<sup>1</sup> [www.ilent.nl/actueel/nieuws/2022/07/08/afvalfonds-behaalt-recyclenorm-voor-2019-maar-de-onderbouwing-schiet-tekort](http://www.ilent.nl/actueel/nieuws/2022/07/08/afvalfonds-behaalt-recyclenorm-voor-2019-maar-de-onderbouwing-schiet-tekort)

<sup>2</sup> [www.afvalfondsverpakkingen.nl/nl/tarieven](http://www.afvalfondsverpakkingen.nl/nl/tarieven) (other metals)

<sup>3</sup> [studenttheses.uu.nl/handle/20.500.12932/518](http://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](mailto:info@nvc.nl)

*Sharing the future in packaging*  
[www.nvc.nl](http://www.nvc.nl)



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

**S**tella Maris brand was born in 2014 in Canosa di Puglia, from the desire of a young woman, Doctor Garofalo Vanessa graduated in pharmacy with a master in cosmetics at the University of Ferrara. Confidence in her abilities, trust in her personal skills and the audacity of her ambitions lead Stella Maris to be constantly expanding in the production of cosmetics.

The production of Stella Maris ranges between the various categories: from hair care, body to face, providing solutions to various problems, offering products that fully adapt to the needs of the consumer.

Stella Maris is based in Canosa di Puglia with a production site and a web page for sale online, where each product bears a detailed description of each aspect. The company respects the well-being of the customer, thanks to the use of natural ingredients for its products.





The strengths points are the competence and the daily research of the best raw materials, to ensure a high quality product that meets certain standards.

The strict control and the research methods are applied from the very beginning: from the cultivation and the initial stage, the raw materials are subjected to processes that guarantee compliance with company regulations, and then receive accurate review even in the final packaging.

STELLA MARIS is composed by a young and dynamic team that leaves nothing to the approximation that study every situation in a scrupulous way, in fact, with the help of a computerized system for the management of logistics and the use of innovative equipment and machinery, is able to optimize the production process, making Stella Maris efficient and professional, able to operate competitively throughout Italy and abroad.

STELLA MARIS manufactures and produces any cosmetic product, from natural to organic, ensuring and satisfying every customer such as: pharmacies, beauty centers, hairdressers, gyms and companies.

Each cosmetic is formulated and produced following the instructions of the customer in terms of ingredients, textures, fragrances.

## SECTORS

 COSMETIC

 PRODUCTION





Stella Maris offers the possibility to create an ad hoc line starting from the origins, helping the customer in the study of individual ingredients and guiding him in the process. Alternatively, it offers lines that are already formulated meeting your needs.

Fundamental to the company policy is a regime of transparency: on the site are in fact available, visible and accessible to all, the ISO 22716 certifications, which certify that the company fully respects the Good Manufacturing Standards of Cosmetic Products. Stella Maris, in addition to scrupulous compliance with European and national legislation relating to the placing on the market of cosmetic products and their use, is constantly looking for methods to define production standards aimed at the pursuit of higher and higher quality levels.

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



# MILAN'S VIBRANT HOME FOR LUXURY AND COSMETICS PACKAGING



**T**he countdown for Packaging Première 2024 has started: with six months to go, Packaging Première & PCD Milan are preparing a star-studded edition to attract brands, designers, packaging expert and professionals in the luxury, cosmetics, perfumer, wine & spirits, fine food and fashion sectors.

This eagerly awaited event promises to be a hub of creativity, technology and sustainability, bringing together key players in the packaging sector to explore the latest trends and innovations and promoting a specific knowledge on the latest technologies and providing an opportunity to network with the most important industry insiders. The 2023 edition saw the presence of over 7,500 professionals seeking innovative and high-quality packaging solutions.

"Edition after edition, we aim to surprise our loyal community of industry professionals and enthusiasts. We are gearing up for an exciting showcase," says Pier Paolo Ponchia, Founder and Director of Packaging Première.

"In addition to the exhibition space, Packaging Première will feature important keynote speakers and panel dis-



PACKAGING  
PREMIÈRE



PCD

## SECTORS

LUXURY

COSMETICS



cussions with leaders and experts sharing insights on the future of packaging”, says Pier Paolo Ponchia, Founder and Director of Packaging Première. “Our aim is to enhance the cultural value of packaging, nowadays driven by the latest advancements in technology, responsible innovation and smart design”.

Among the not to be missed conferences, Dom Pérignon - which will presents its fifty pieces limited edition bottle created by the artist Juliette Clovis in a conference titled “Brand elevation through contemporary art craft”; Moreover, Packaging Première and PCD Milan will host a conference dedicated to sensorial marketing and one dedicated to top trends in Far-East market, in comparison with Western market, focusing on Korean cosmetics, a global excellence, with Korean brands and designers on stage; Laura Ravetta from Bally will talk about responsible material innovation in the fashion industry while Pantone will be on stage in the conference that will unveil the brand’s expertise on digital to printed colour.

Packaging Première is launching the new edition of Avant Garde, the project which aims to actively involve design and branding agencies, material manufacturers, deluxe packaging suppliers and start-ups to develop materials or products that are considered worthy in terms of innovation, involving a benefit in terms of use for the society or the environment. Furthermore, Packaging Première will be unveiling Design Hub, a space within the event where five top agencies specialized in wine & spirits packaging design will present their projects, providing a valuable inspiration source in terms of branding and packaging. The selected agencies include Advision, BasileADV, Officina Grafica, O,nice! Design Studio, Smith Lumen, which will interact with visitors able to discover the most distinctive and remarkable packaging. Packaging Première represents the future of luxury packaging and a must-attend event for brands interested in innovative, sustainable and creative solutions to shape high quality packaging for their products. For the cosmetics and perfume sectors, PCD Milan provides maximum visibility for primary packaging manufacturers in the beauty industry.

For the fashion and luxury sectors, Packaging Première has always been the reference point for Italian and international fashion brands when choosing suppliers for their luxury packaging. For design addicted, Packaging Première is an essential moment to discover 3D printing, sensorial marketing, AI, innovative materials and technologies. Packaging Première and PCD Milan is the stage enhancing the entire industry.

#### REGISTRATIONS ARE NOW OPEN!

**Register for free on**  
**[www.packagingpremiere.it](http://www.packagingpremiere.it)**  
**with code 1226**





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

**T**he 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**

# SUSTAINABLE PACKAGING FOR DRY PET FOOD

## Innovative approaches for paper-based packaging with polymers

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

**V**arious trends and requirements are currently transforming the packaging market: renewable raw materials, reducing the amount of packaging material, cutting CO<sub>2</sub> 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.



## 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](http://www.packaging.kuraray.eu)

**kuraray**  
Possible starts here

# EXHIBITIONS 2023-2024

## 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.

## IBA

22-26/10/2023   
MONACO

Fair for the bakery and confectionery industry.

## 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

## **CIBUS TEC**

**24-27/10/2023** 🏛️

**PARMA**

Fair for food & beverage technologies trends.

## **SUDBACK**

**26-29/10/2023**

**STUTTGART**

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.

## **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.

## **SIAL**

**19-23/10/2024** 🏛️

**PARIS**

Fair on food products.

## **ALL4PACK**

**04-07/11/2024** 🏛️

**PARIS**

Exhibition about packaging technology.

## **SIMEI**

**12-15/11/2024** 🏛️

**MILAN**

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

## **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...

## **ALTECH SRL**

**32-33**

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

## **AUTOMATION SYSTEM SRL**

**31**

Via Motta Pier Enrico, 52  
15033 Casale Monferrato - AL - Italy

## **B.M. GROUP SRL**

**83-84**

Via Garziere, 36  
36010 Zanè - VI - Italy

## **BIOGEST SRL**

**28/30**

Corso Crimea, 35  
15121 Alessandria - AL  
Italy

## **BOLOGNAFIERE COSMOPROF SPA**

**85**

Via cappuccini, 2  
20122 Milano - Italy

## **CAMA GROUP**

**I COV-4/6**

Via Verdi, 13  
23847 Molteno - LC  
Italy

## **DOMINIONI SRL**

**67**

Via Resegone, 7/9  
22070 Locate Varesino - CO  
Italy

## **EASYFAIRS ITALY**

**II COV-95-96**

Via F. Nansen, 15  
20156 Milano - Italy

## **EMS99 DI MARCO VENTURA**

**24/26**

Via del Lavoro 8/6  
40057 Quarto Inferiore - BO  
Italy

## **GENERAL SYSTEM PACK SRL GSP**

**17/19**

Via Lago di Albano, 76  
36015 Schio - VI  
Italy

## **GICHERSTAMPA SRL**

**78-79**

Via Pompeiana, 342  
63900 Fermo - FM  
Italy

## **IFP PACKAGING SRL**

**14/16**

Via Lago di Albano, 70  
36015 Schio - VI  
Italy

## **IMA SPA**

**44/46**

Via Emilia, 428/442  
40064 Ozzano dell'Emilia - BO  
Italy

## **KYUNGYON EXHIBITION CORP.**

**37**

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