

packaging

INTERNATIONAL

YOUR PACKAGING INSIDER

N°3-2025



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PACK EXPO SPECIAL

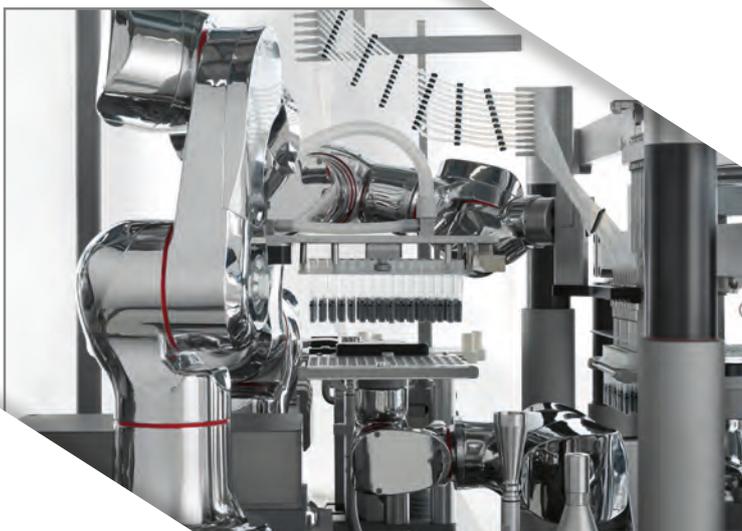


18-19

TECNO PACK SPA

FP 100 HP: high-speed paper sealing by Tecno Pack

PHARMA SPECIAL



40/42

IMA SPA

All-In-One solutions for the integrated processing and packaging of injectables



SONIA V. MAFFIZZONI
Editorial Manager

Packaging has become a strategic factor in global trade, where tariffs, regulations and consumer expectations intersect. Even in this changing scenario, one element remains constant: the demand for packaging technologies that guarantee efficiency, safety and sustainability.

This issue presents the major players in the sector, companies whose solutions stand out for quality and innovation. From food to non-food, their technologies meet the challenges of logistics, recycling, circularity and design, offering systems that adapt to diverse markets while ensuring performance. Their uniqueness and reliability make them competitive worldwide, and increasingly recognised in the United States as benchmarks for the industry.

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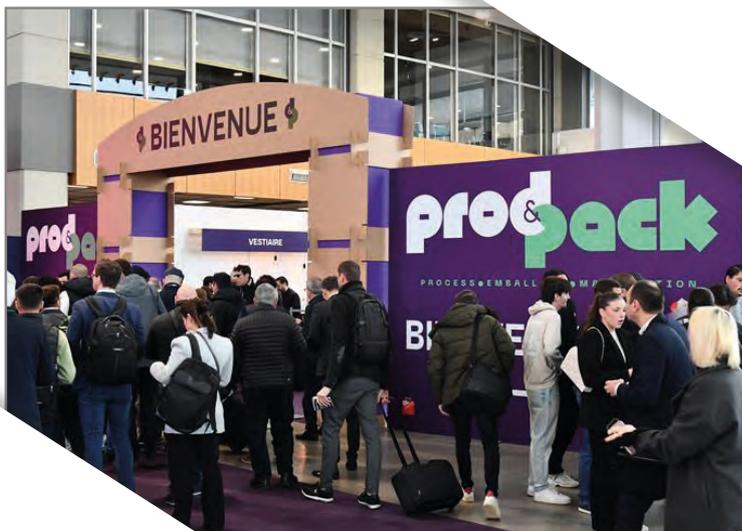


64-65

OUR EDITORIAL TEAM

Packaging and branding: more than just a box

EXHIBITION



102/104

PROD & PACK LYON 2025

Packed with innovation

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SPACE, SPEED AND SIMPLICITY: THE ULTIMATE SOLUTION FOR SECONDARY PACKAGING

Cama Group develops a multi-machine replacement programme that will see competitor's overly complicated machines replaced by state-of-the-art, quick-changeover packaging technology

Uptime is one of the most important metrics a packaging technology OEM can offer. With operational equipment effectiveness (OEE) maximised, end-user customers can get the best possible return on investment thanks to high levels of high efficiency throughput, with minimal interruptions.

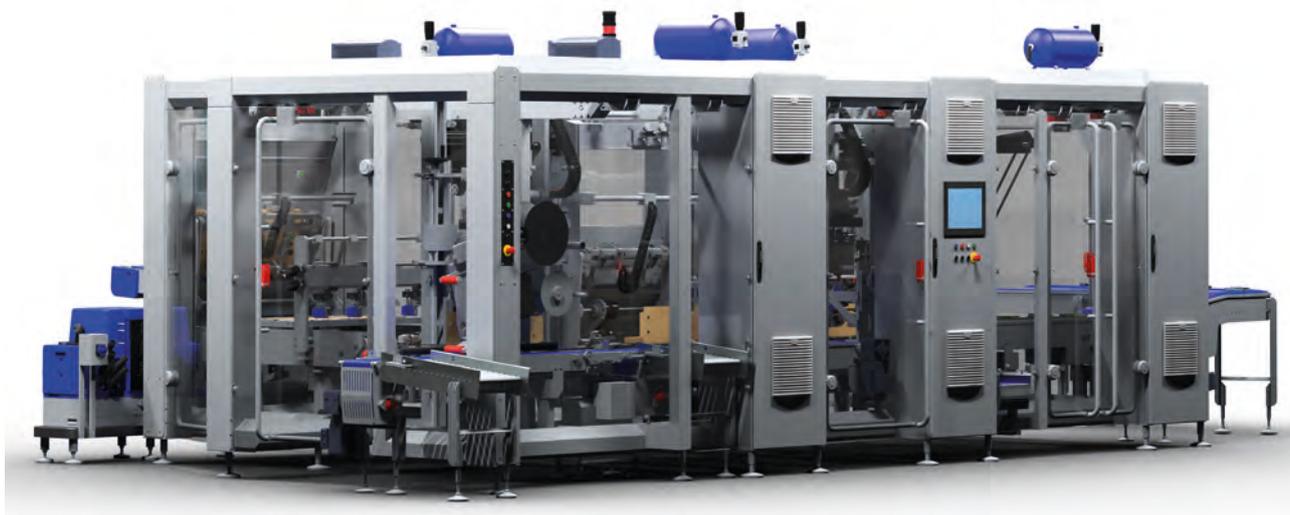


Maximum uptime is a primary feature of machines developed by the Cama Group, even those designed to handle multiple product sizes and counts.

Through clever design and highly flexible architectures, the Italian packaging technology expert can completely remove some changeover routines, and for those that are unavoidable complexity and time are kept to an absolute minimum thanks toolless fasteners, RFID-coded parts and intuitive AR/VR interfaces, which create unambiguous easy-to-follow instructions. This capability was recently highlighted in a packaging solution developed to

package four different sizes of bakery products, in seven different packaging counts, Cama's technology is replacing older packaging machines from a competitor that are overly complex, inefficient to changeover and demand a lot of maintenance.

"The contract is to replace all 15 machines," explains Davide Di Lorenzo, Sales Engineer Manager at Cama Group. "We are confident that the initial designs are as close to spec as we can get them, but we have built a framework into the contract where we will regularly liaise with the customer to ascertain if any improvements can be made



FOCUS: PACK EXPO





for the next batch of machines. Our highly flexible automation, robotics, and mechanical architecture means we can keep our designs and their method of operation highly agile.”

In operation products are oriented by lineside personal on an infeed conveyor. A vision system is used to ascertain locations before delta robots – developed in house by Cama specifically for packaging operations – pick them and place them into boxes, which are formed in pairs and placed into a rotary phasing unit. All boxes receive a leaflet, which is put in place using a directional inserter and, depending on the product size and count, an interlayer is also inserted for extra protection between layers. Once filled, the boxes are sealed, weighed and labelled before being checked with an advanced vision system.

The only changeover required between batches is for the forming and closing system. This is in stark contrast to the machines they are replacing, where virtually every module had to be replaced when the size or product count was changed.

“Our machines have also been designed to offer maximum accessibility,” explains Di Lorenzo, “so changeovers and scheduled maintenance are as easy as possible. This openness is even more impressive when you consider the real estate we had to work with. The production floor is very tight on space, but we were able to create a machine just 7.5 m long (9 m with infeed conveyor). This compact design is due to the flexibility of our modular sections where we can fit six operations into three modules, which, when combined with a rotary box phaser keeps size to an absolute minimum.”

Compared to the machines they are replacing the Cama technology makes effective use of more modern technology and does so without complicating operator interac-

tions and operations. “The customer had realised that its existing machines were overly complicated and, if anything, too articulated, and they required far too much time and effort for changeovers between batches,” Di Lorenzo adds. “Although our machines are technologically more capable, our incorporation of RFID, AR and VR systems means that what little changeover and maintenance steps there are, can all be achieved much more easily and quickly. Aside from the technology angle, the customer had also created a very strong relationship with Cama”

This is another example of Cama’s forward-thinking approach to packaging technology. By understanding its customers’ pain points and then designing simple and fast ways to overcome them, Cama has developed yet another solution that set the pace in terms of operability, real estate use, ease of use/access and throughput.

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SECTORS

 **PACKAGING**

 **FOOD - NO FOOD**

 **PHARMACEUTICAL**





AWARD-WINNING SUSTAINABLE MULTIPACKS: THE EVOLUTION OF SMART LABELING ACCORDING TO ETIPACK

In today's scenario, where sustainability, efficiency, and design converge as essential pillars of modern packaging, Etipack stands out as a technological partner offering smart labeling solutions that reduce environmental impact while streamlining industrial processes. With a modular approach to automated systems for sustainable multipacks, Etipack has developed innovative solutions that eliminate unnecessary secondary packaging without compromising on protection or functionality.

Smart labelling: less plastic, more efficiency

Using labels applied directly to products, Etipack systems create compact, secure multipacks without the need for plastic film, cardboard wraps, or shrink bands. Labels are applied on opposite sides of products as they move along the conveyor belt, forming finished multipacks in real time, ready for storage or retail. This results in significant savings in materials, space, and time, while drastically lowering environmental impact.

Multipack Handle®: a project of excellence born from valuable supply chain collaboration

The epitome of this approach is the Multipack Handle® sys-

tem, developed and brought to life through a strategic partnership between Etipack, CB Packaging, and Palladio Group.

CB Packaging has brought extensive experience in packaging lines for personal and health care products, setting up the automated production line. Etipack designed the labeling system specifically for multipack production. Palladio contributed its technical know-how to the design of the innovative patented label with handle, which serves as both a practical transport solution and an information aid.

The outcome is a smart solution for products such as wet wipes, where top and bottom labels are applied to unite individual packs into a sturdy multipack. The top label acts as a handle, while the bottom label ensures secure bonding without any additional packaging materials.

Key advantages include:

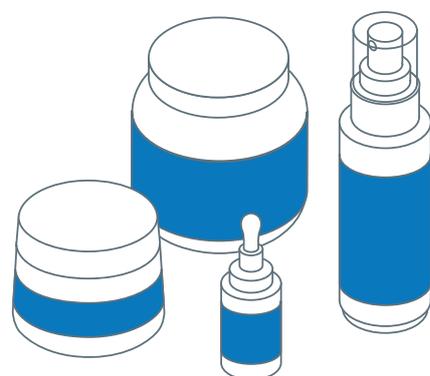
- Complete elimination of secondary packaging
- Enhanced portability thanks to the integrated handle
- Reliable load capacity up to 5 kg
- Full customization of label shape, graphics, and messaging
- Seamless integration into existing production lines





etipack COSMETICS

A COMPLETE RANGE
OF INDUSTRIAL **LABELLING,
CODING, PACKAGING**
SOLUTIONS DEDICATED
TO THE **COSMETICS**
INDUSTRY



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labelling, coding, caring



**WORLDSTAR
WINNER 2025**
MULTIPACK HANDLE



WorldStar Award: global recognition for sustainability and industry synergy

The value of the Multipack Handle® project has been internationally recognized with the prestigious WorldStar Award, presented by the World Packaging Organization. This global honor highlights the most innovative and impactful packaging solutions that stand out for sustainability, functionality, and market relevance.

Following the Italian Best Packaging Award, the WorldStar recognition firmly establishes Multipack Handle® as a benchmark of excellence for sustainable secondary packaging.

This success is not just technological it's a triumph of industrial collaboration. Three companies Etipack, CB Packaging, and Palladio joined forces, blending their expertise and vision to develop a concrete, market-ready solution to sustainability challenges in the packaging sector.

A modular, scalable and responsible approach

Multipack Handle® is part of a broader innovation philosophy that guides Etipack's work: developing tailor-made, modular, and easily integrable solutions that give clients a sustainable competitive edge. The goal is not only to reduce environmental impact, but also to optimize the entire packaging process through automation, simplification, and customization.

The success of the Multipack Handle® project demonstrates that it is indeed possible to combine technology, sustainability, and industrial collaboration in a concrete, award-winning solution. Thanks to Etipack know-how, CB Packaging's mechanical expertise, and Palladio's design competence, a new standard

in multipack packaging has emerged: simpler, lighter, more sustainable.

An evolutionary step that, label by label, reduces the use of plastic, improves consumer experience and rewards those who invest in genuine and responsible innovation.

For more information
www.eitpack.it/en



SECTORS

✓ LABELLING

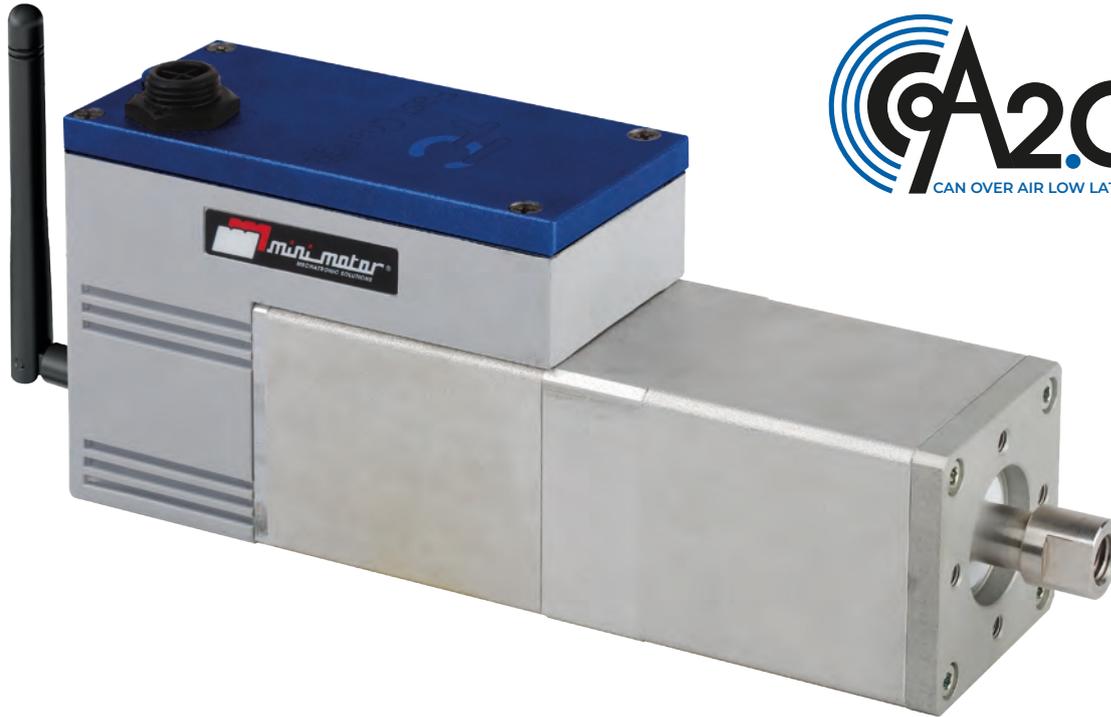
✓ PACKAGING

✓ CODING





COA 2.0: MINI MOTOR REVOLUTIONIZES PACKAGING WITH WIRELESS FORMAT CHANGEOVER



The packaging market has established the competitive advantage that characterizes successful companies. Versatility has been the challenge of the last five years, and format changeover, the real star of new operational projects, has enabled the most responsive companies to move into a new operating scenario.

In this sense, responsiveness is represented not only by the speed with which a line switches from one format to another, but also by the precision in the execution and replicability of the process.

Research carried out by Mini Motor, based on real cases from its customers, has guided the reinterpretation of integrated drive brushless gearmotors, which were created as intelligent components and are now optimized to meet the changing needs of format changeover.

Solutions for format changeover

The FC line incorporates the best features of the DBS integrated drive line, including a 32-bit multi-turn abso-

SECTORS

✓ INDUSTRIAL AUTOMATION

✓ FORMAT CHANGEOVER





er thanks to Mini Motor's new proprietary wireless technology.

Can Over Air 2.0 is a proprietary Mini Motor technology that allows servomotors to be controlled without the need for communication cables.

The gateway, connected to the PLC via industrial fieldbuses, transfers communication to the motors, allowing multiple control units to be integrated.

Designed to receive incoming signals via Ethernet or CAN, COA is a secure and noise-resistant protocol that can adapt to the needs of modern automated and interconnected industrial systems.

In format change, this translates into greater ease of implementation of new components, with consequent advantages for scalability and line expansion.

The logic is essential: a concentrator, a radio network, Mini Motor motors with integrated communication, and the result is a network without fieldbus cabling, where devices communicate in real time

lute encoder and communication with the main fieldbuses (Profinet, Ethernet/IP, EtherCAT, Powerlink, Modbus, and CANopen), but differs in its specificity for packaging lines thanks to its versions with orthogonal gearbox or linear actuator.

The innovative design of the rotary version is designed to guarantee double the speed for the same size, halving the time required for format changeover. Available in four sizes: **FC3, FC6, FC10, FC20** depending on the required ratio, they are ideal for automating manual parts, also opening up numerous revamping opportunities.

The **FCL** line is available in the **FCL100** and **FCL200** variants, ideal for automating the movement of sides in linear format changes up to 200 mm. The FCLs are capable of delivering up to 200N and withstanding up to 5kg of axial load.

Format changeover goes wireless

Automating procedures with the FC line is now even easi-

and the layout of the system is no longer dictated by the passage of a cable or the presence of collectors.

CoA thus allows you to change the starting point and redesign the architecture of production lines with greater freedom and a wider design margin.

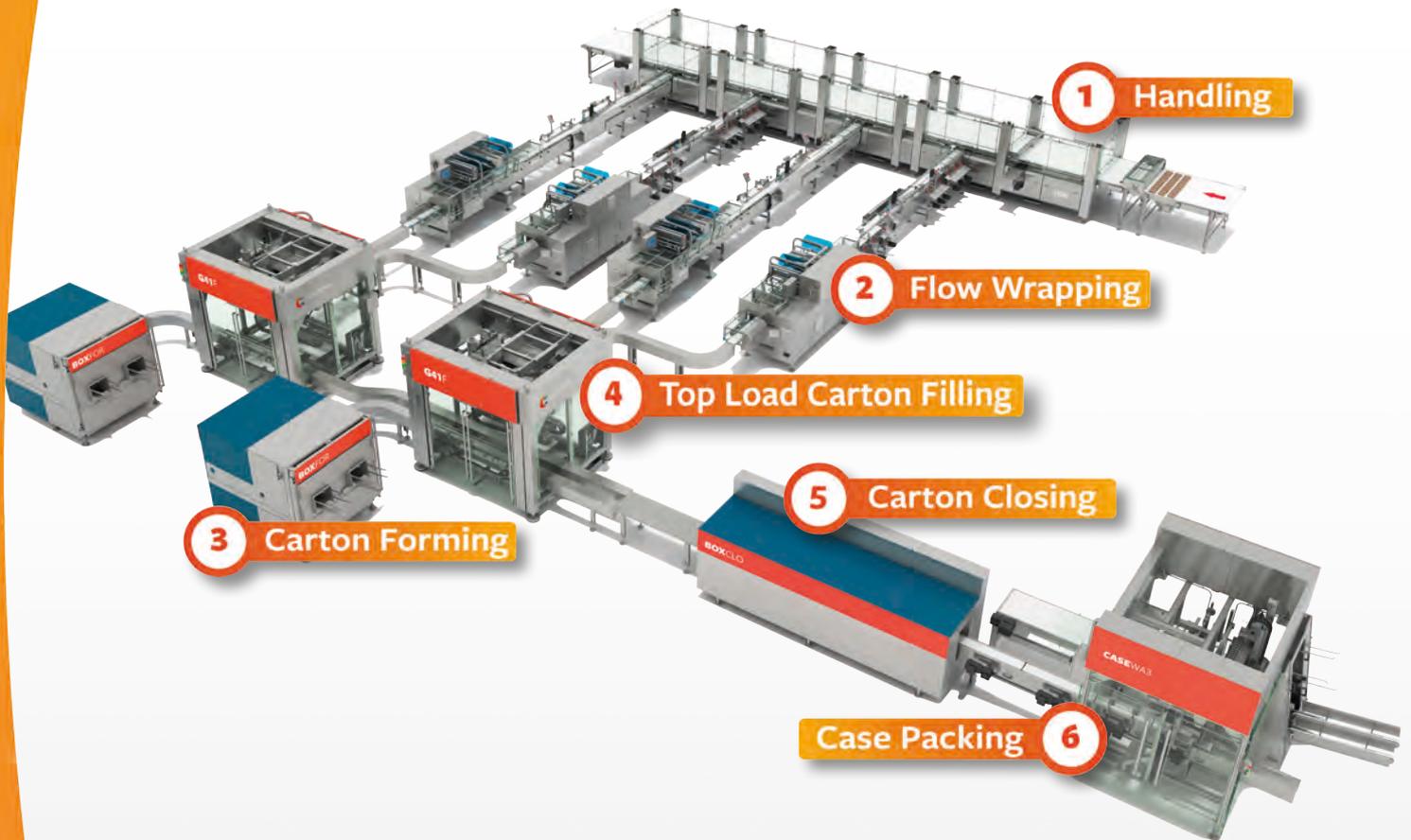
All this without complications: commissioning is carried out via a Windows application from which you can monitor the status of the network.

Mini Motor brings innovation to the service of work.

Visit:
www.minimotor.com



CAVANNA: TURN-KEY FLOW WRAPPING, CARTONING & CASE PACKING



Cavanna Packaging specializes in:

- Turn-key Flow Wrapping, Cartoning and Case packing solutions
- Sanitary Design Systems for the Food Industry
- Easy to clean toolless Poke Yoke solutions
- Fully Caustic Washdown Flow Wrapping lines
- Unique space and labor saving Flow Wrapping solutions



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Visit our website
www.cavanna-usa.com



ALTECH - ADVANCED LABELING TECHNOLOGIES

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

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

Its range encompasses the following products:

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

ALritma – high-performance label applicator, which can be easily integrated in packaging lines. It is also available with thermal transfer printing group in the ALritmaT version, for print/apply applications.

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

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

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

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

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

The modular design incorporates ALstep and/or ALritma heads, and can be configured on the basis of customer requirements, allowing application of labels of any shape



and size for front/back or wrap-around labeling and seal application to food, cosmetics, chemical and pharmaceutical products.

For further information:
sales@altech-us.com – www.altech-us.com
info@altech.it – www.altech.it



SECTORS

✓ PACKAGING

✓ LABELLING

✓ FOOD - NO FOOD



PROVEN INNOVATION



High-performance ALritma labelling head:

- Modular structure with swiveling components.
- High-torque stepper motor.
- Unwinder with expansion locking system.
- Rewinder with collapsible device for easy liner removal.
- Harsh-environment kit: IP55 protection, stainless steel bearings.
- Separate IP55 fanless control box.
- Microprocessor control for high accuracy at variable speed.
- 7" multilingual touchscreen panel with 100 recipes and Industry 4.0 connectivity.



Innovation or conservation? These philosophies are apparently opposite and irreconcilable. The former promises superior performance and new features. The latter guarantees the reliability and practicality typical of tried and tested solutions.

ALTECH is committed to both innovation and conservation in our labelling machines. Each of them contains the most innovative technologies, but it is also the result of design refinements based on 30,000 acceptance tests. Thanks to such technical expertise, we are able to state that every labeller we offer is not only state-of-the-art, but it is also user-friendly, functional, and reliable.

An example? Our ALritma labelling head.

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Tel. +39 02 90363464
info@altech.it

www.altech.it



See more!

**AL
TECH**
Advanced Labelling Technologies



OMETEC: EXCELLENCE IN PACKAGING SOLUTIONS

An Integrated Process for a Competitive Advantage

OMETEC oversees the entire process, from co-design to final molding. How does this integration provide a competitive advantage for your clients in the packaging sector?

OMETEC is a strategic partner for packaging companies thanks to an integrated production process that begins with co-design and extends to final molding. This synergy reduces time-to-market, optimizes costs, and ensures maximum quality and customization. By managing every phase internally, we guarantee precision in tolerances and high-performance materials, meeting the demands of an increasingly demanding market.

Industry 4.0: innovation for quality and efficiency **You use advanced technologies and interconnected systems based on Industry 4.0 principles. How do these solutions impact production quality and lead times?**

The adoption of Industry 4.0 technologies has transformed our production process: real-time monitoring improves quality control, automation reduces errors, and

OMETEC is a company with over forty years of experience in the packaging market, specializing in the design and manufacturing of molds for caps in the pharmaceutical, detergent, and cosmetics sectors.

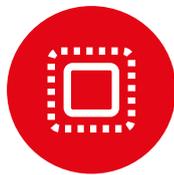




Mold design
and maintenance:
**safety and
functionality for
your packaging**



Co-Design &
Design



Prototyping
moulds



Mold
Manufacturing



Mould
Maintenance

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 **OMETEC**



predictive maintenance ensures continuous production. Additionally, digital simulation allows us to optimize projects before implementation, minimizing waste and reducing processing times.

Commitment to sustainability

What concrete actions have you taken to make your processes more sustainable, and how do they reflect on the final packaging products?

Sustainability is at the core of our strategy. We use bioplastics, recycled, and compostable materials, reduce energy consumption, and recycle production waste. To further strengthen our environmental commitment, we are obtaining the ISO 14001 certification, which validates our responsible approach to resource management and reducing environmental impact throughout the production chain.

Certifications: ensuring excellence

What role do certifications play in your daily operations, and how do they ensure high standards for your clients?

Certifications are a guarantee of quality for our clients. We have ISO 9001 and ISO 45001, and are also obtaining ISO 14001, to ensure controlled processes, environmental awareness, and compliance with industry standards.

Moreover, we believe in fostering a fair and inclusive work environment. For this reason, we already got the UNI PDR 125 certification for Gender Equality, promoting equal opportunities and valuing diversity within our team. We are also working on our Sustainability Report.



International expansion and future growth

You are investing in trade shows and foreign markets. What are your growth objectives, and what opportunities do you see in the international packaging sector?

We are determined to expand into international markets. Participating in trade shows and events allows us to strengthen our presence in Europe, North America, North Africa, and Asia, expanding our network of clients and partners. We aim to grow in sustainable packaging, responding to the increasing demand for innovative, low-impact solutions.

With our experience, technology, and strategic vision, OMETEC is the ideal partner for companies seeking efficient, customized, and sustainable packaging solutions, with a strong commitment to innovation, social responsibility, and international growth.

www.ometec.it



SECTORS

✓ FOOD & BEVERAGE

✓ PACKAGING

✓ LABELLING

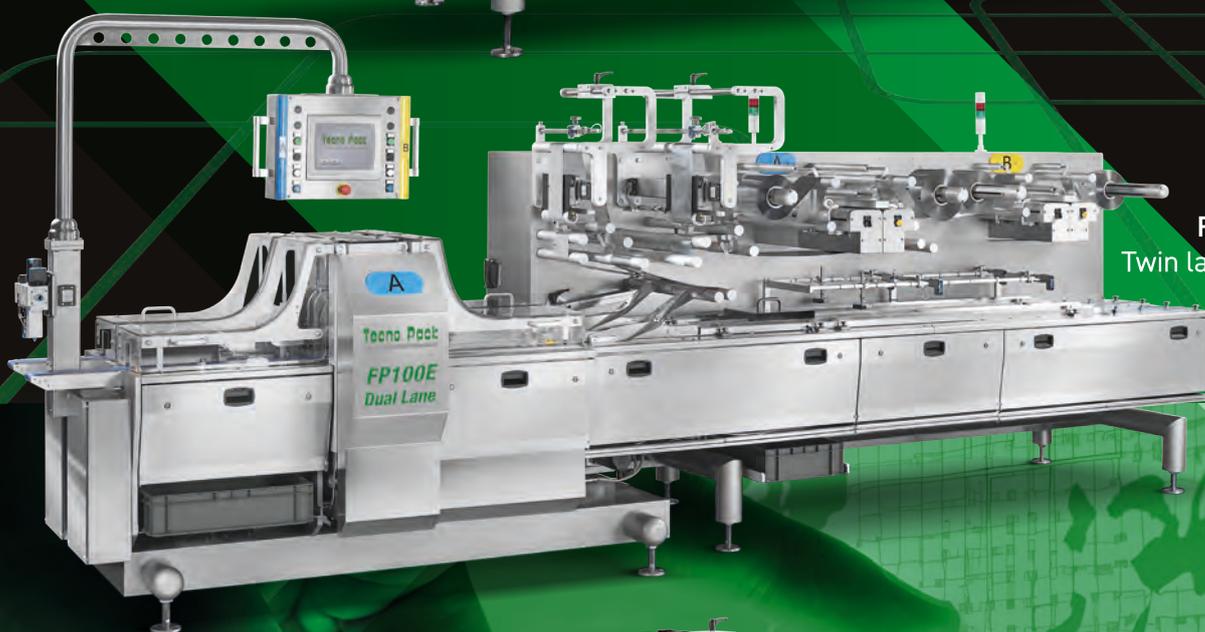


RAISING THE BAR

FP100 E
State-of-the-art
flow pack



FP100 E DUAL LANE
Twin lane for double speed



FP100 E BM
The fastest box motion machine
on the market



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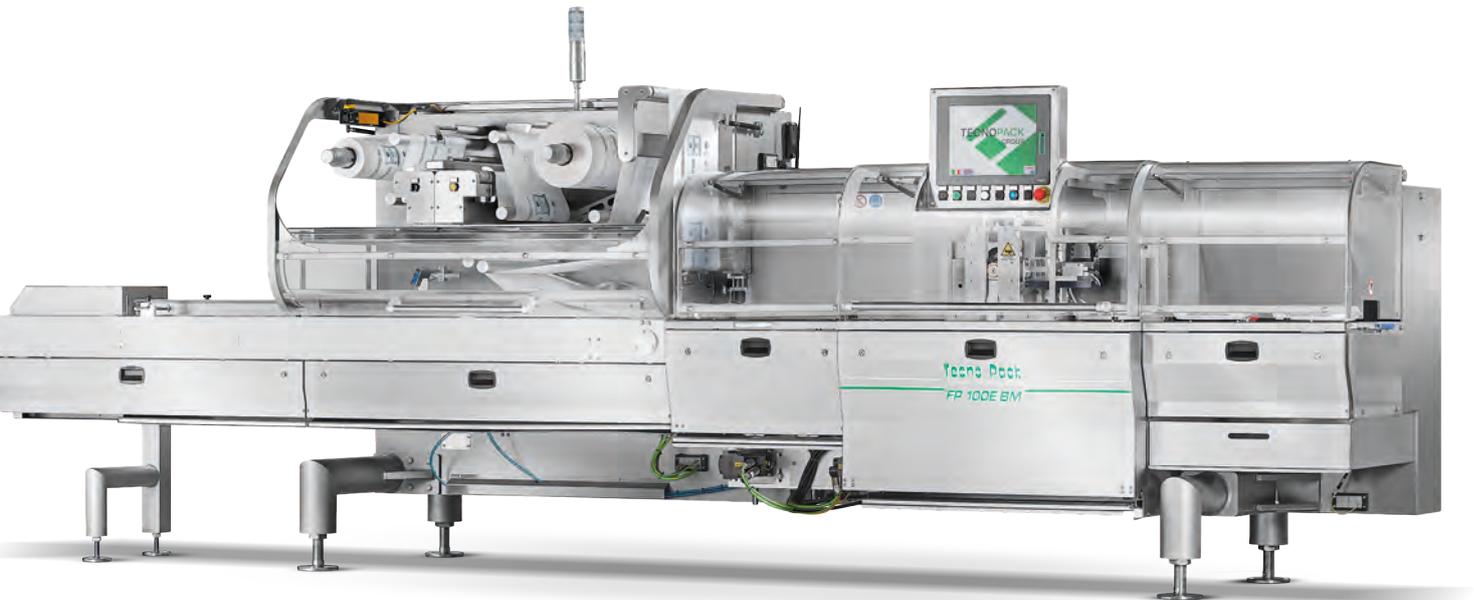
FP 100 HP: HIGH-SPEED PAPER SEALING BY TECNO PACK

Tecno Pack continues its tradition of research and development, with an ever-increasing focus on energy savings and the shift towards fully sustainable packaging. The 2025 edition of the international IPACK-IMA trade fair marked the debut of the flagship model among horizontal flow pack packaging machines: the FP 100 HP BOX MOTION 520.



This new model has been specifically designed to ensure perfect sealing on paper, even at high speeds, delivering smooth and linear operation while elimi-





nating the typical challenges associated with similar applications.

The FP 100 HP BOX MOTION 520 is the result of extensive optimization efforts, significantly enhancing both the reel drive system and the longitudinal and transversal sealing groups.

The transversal sealing unit features an innovative box motion system with extended sealing time, capable of delivering adjustable sealing pressure up to 600 kg per square centimeter, even at the highest operating speeds.

The film unwinding mechanism benefits from precision regulation, fully automated and supported by load cells. These ensure consistent film feed to the longitudinal sealing group under all conditions - from startup to top speed, during in-cycle adjustments, restart phases, and automatic reel changes.

The longitudinal sealing unit, consisting of four pairs of wheels, features exclusive micrometric adjustments designed for paper sealing, accommodating varying thicknesses and material consistencies.

At the Tecno Pack Group booth during IPACK-IMA 2025, visitors witnessed

the FP 100 HP BOX MOTION 520 producing perfectly sealed paper packages at high speed (up to 160 packs per minute), appreciating the machine's operational smoothness — a top-level performance maintained effortlessly at cruising speed.

Tecno Pack is fully prepared to meet the new challenges of industrialization in primary flow pack packaging, offering a thoroughly tested, reliable solution aligned with the demands of today's market. 🏭

www.tecnopackspa.it

SECTORS

✓ LABELING

✓ CODING

✓ COSMETICS





MAKRO: MODULARITY, FLEXIBILITY. ALWAYS.

Leveraging 30 years of experience from its founders, Makro was born in 2009 and rapidly grew to become an international market leader. Our mission is clear: to design cutting-edge labellers that withstand the tests of time, satisfy every customer's evolving production needs and offer maximum benefit and reliability.

With a meticulous 'made-in-Italy' production, we combine technological, mechanical and electronic innovations with environmentally friendly production processes, based on energy savings and knowing how to effectively implement a more sustainable economic development model.

We begin with a deep knowledge of every aspect of labelling and work with passion, professionalism, competence, and a commitment to always be near our customer for prompt service throughout the lifetime of your labeller.

A range of labellers for production speeds of 1,500 to 50,000 b/h

The range includes labellers able to process from 1,500 to 50,000 bottles per hour, applying up to five labels per bottle and available in wet glue, hot melt, self-adhesive and combined versions. For companies with limited production requirements, the MAK 01, MAK 02 and MAK 1



labellers provide speeds of up to 12,000 b/h with mechanical or electronic rotation of the bottle plates. With special applications and able to cope with production speeds of up to 50,000 b/h, the MAK 2, 3, 4, 5, 6, 7 and 8 labellers, on the other hand, satisfy the needs of medium to large companies. The range includes a high speed self-adhesive labeller with reel winders and non-stop system enabling production to continue at maximum speed even during reel changes and a combined labeller to apply the fiscal guarantee seal. Thanks to a special, patented paper delivery system, the MAK AHS2 self-adhesive labelling module responds to the need for faster, more precise machines. It guarantees a linear speed of 100 metres a minute at a label pitch of 20 mm.

For the high volume PET market, such as the water and soft drinks sector, Makro Labelling has developed the MAK Roll Feed series of rotary labellers: The 6,000 b/h to 40,000 b/h production speed and use of wrap-round



Quality is an Attitude

Our mission is clear: to design cutting-edge labellers that withstand the tests of time, satisfy every customer's evolving production needs and offer maximum benefit and reliability. With a meticulous 'made-in-Italy' production, we combine technological, mechanical and electronic innovations with environmentally friendly production processes, based on energy savings and knowing how to effectively implement a more sustainable economic development model. We begin with a deep knowledge of every aspect of labelling and work with passion, professionalism, competence, and a commitment to always be near our customer for prompt service throughout the lifetime of your labeller.



MAK machine configuration with HS2 adhesive units



Example of configuration with cold glue stations



Example of configuration with roll-feed stations



ADH (new CP trolley)



Adhesive stations (SLIM)



Cold glue stations



Roll-Feed stations



Hot-melt stations

makro  [®]
labelling



plastic labels on a reel with hot melt application guarantee maximum economic benefits in the production process. The modularity of the machine also allows the roll feed unit to be replaced with a hot melt unit for pre-cut, wet glue or self-adhesive labels.

In common with the entire Makro range with the Vision Control system to verify the quality and correctness of the packaging and manage rejects: two new inspection systems - RAPTOR (Rapide to Orientate) and A.L.I.C.E. (Advanced Label Inspection and Control Environment), which guarantee high performance, less production rejects and the highest finished product quality.

Clear (Concept Leap)

Makro has created and presented a new labelling machine concept using longstator linear motor technology, the **Clear InLine**.

Thanks to the rotation of the plates, it is the only linear labeller with centring which, in addition to high labelling accuracy and speed, also offers the advantage of not having to change format: within minutes, the operator is ready to start production again.

Its versatility and production flexibility make it ideal due to its small footprint.

www.makrolabelling.it



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-  FOOD & BEVERAGE
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-  LABELLING





general system pack

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ENGINEERED FOR EXCELLENCE



GSP 55 S BB
electronic inverted
flow pack wrapper



HIGH-SPEED
PACKAGING LINE

TECNOPACK
GROUP



GSP - PACKAGING MACHINES AND AUTOMATIC PACKAGING SYSTEMS

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

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

GSP 50 EVO



GSP 65 BB



GSP 75 EVO



SP
general system pack

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

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



ENGINEERING THE FUTURE OF PACKAGING: FROM ITALIAN ROOTS TO SMART, SUSTAINABLE SOLUTIONS

A Company with an Innovative DNA

In the competitive scenario of industrial packaging, Gampack stands out as a prominent player in secondary and tertiary packaging solutions, providing turnkey systems across global markets. Since its founding in 2003, the company has accumulated extensive experience in packaging automation, further advancing its expertise in robotic technologies following the acquisition of a historic Italian robotics company in 2020. In this way, Gampack continues to serve a diverse range of industries, including food & beverage, cosmetics, pharmaceuticals, and pet food.

Compliance-Driven Engineering for the U.S. Market

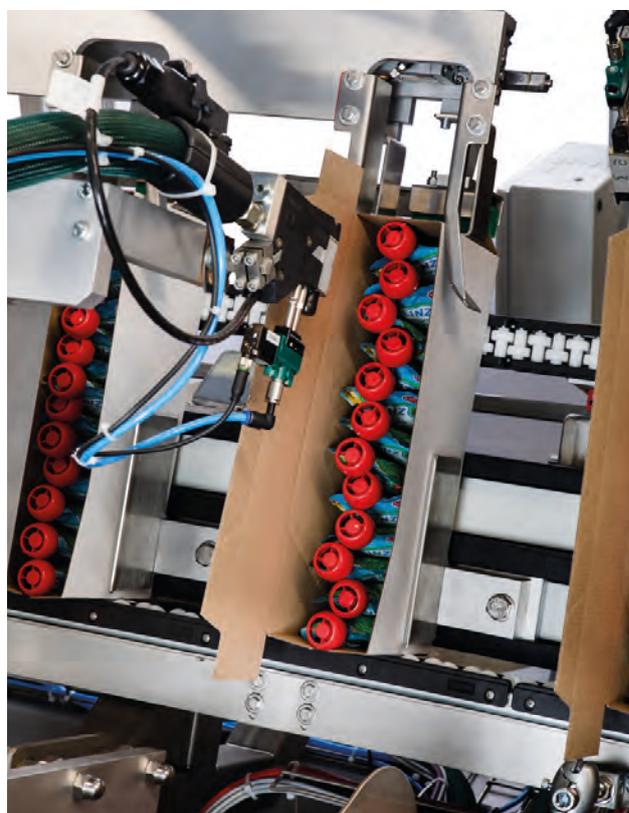
Notably, operating in the American market demands strict adherence to FDA regulations and robust safety standards. Gampack's packaging systems are designed to ensure complete conformity, integrating both food-grade components and packaging materials when requested, real-time quality control, and traceability features across the entire process. Whether managing the packaging of cartons, American cases, or shrink-wrapped bundles, just to name a few, the company's engineering approach is grounded in regulatory awareness and operational safety, ensuring full compatibility with U.S. and international norms.

Modular Technology for Versatile Packaging Lines

Flexibility is at the core of Gampack's offering. Its machines are modular, configurable, and built to adapt to a wide variety of both product formats—from rigid containers like beverage cartons, cans, and jars to flexible packs such as pouches, flowpacks, and doypacks – and multiple packaging sizes. A recent example is a bespoke line for frozen confectionery: this system erects corrugated cases from flat blanks, inserts protective food-grade bags, and handles up to 500 products and 50 cases per minute. High-speed pick-and-place robots ensure precision and product integrity, while the entire system remains easily adaptable to new products, packaging sizes and production targets.

Worldwide Service, Local Responsiveness

With over 1,700 installations worldwide, Gampack's strength lies not only in its engineering but also in its



Green solution Mini Tray

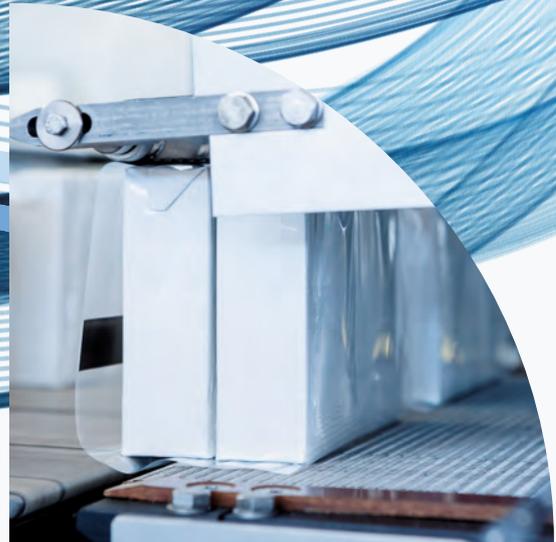


Welcome to Gampack, your trusted partner for secondary packaging machines and complete, fully integrated end-of-line solutions.

Why Choose Us?

GAMPACK invests the 5% of its turnover in R&D in order to find the best and most suitable solutions with its team of experienced engineers, continually looking for new and stimulating milestones and with a constant eye towards the future.

**LET'S SHAPE THE FUTURE OF
YOUR PACKAGING,
TOGETHER.**



RELIABILITY
INNOVATION
SUSTAINABILITY
MODULAR SOLUTIONS



global support capabilities. The company offers remote diagnostics, rapid-response technical service, and spare parts shipped within 24–48 hours from the time of request—minimizing downtime across all markets, including high-demand sectors like U.S. manufacturing, where operational continuity is critical.

Innovation Meets Sustainability

Gampack’s R&D division is increasingly focused on smart automation and eco-design. AI-based tools optimize production flows, reduce waste, and enable predictive maintenance, improving both efficiency and operators’ working environment. On the sustainability front, Gampack has also adopted eco-friendly production processes and developed sustainable packaging solutions such as clusters, Mini-trays, Eco-labels, and I-layers.

These innovations, made from renewable, biodegradable, and recyclable 100% paper-based materials, demonstrate the company’s focus on reducing environmental impact without compromising production efficiency—an aspect that is becoming ever more important for its customers.

Two Decades of Expertise Driving Gampack Toward New Horizons

Under the leadership of co-founder and President Giuseppe Gazzola, Gampack follows a path of ambitious growth and innovation. A strong management team supports the company’s forward-looking strategy, driving success while maintaining Gampack’s core identity. With an unwavering focus on innovation and sustainability, Gam-



Modular Robotic Line

pack solidifies its leadership in the packaging industry, consistently offering pioneering solutions that meet the evolving challenges of a global market.

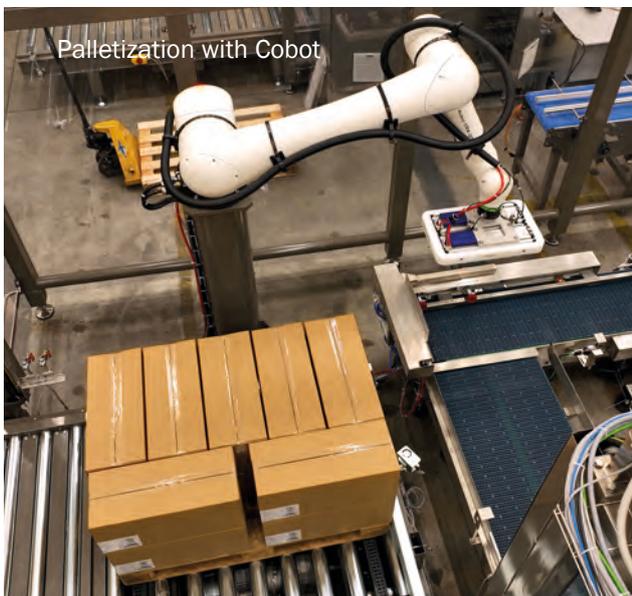
www.gampackgroup.com

GAMPACK GROUP
Customizing Packaging Technology

WE ARE EXHIBITING AT

GULFOOD MANUFACTURING
4-6 NOVEMBER 2025
DUBAI WORLD TRADE CENTRE

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Booth S3 – D84



Palletization with Cobot

SECTORS

COSMETICS

FOOD & BEVERAGE

PHARMA





VIMCO AS PARTNER FOR MONOBLOCK SOLUTIONS

Vimco is an Italian company specialized in secondary and end-of-line packaging solutions in cardboard. For more than four decades, Vimco has been providing high quality and technologic customized solutions. Vimco's portfolio includes forming and closing machines, cartoning and sleeving machines, and case packers or wrap around solutions.

Vimco has long served the market as a turn-key partner with complete, integrated packaging equipment that includes box forming, product filling, and closing machines.

These lines are equipped with robotic solutions that have been developed and implemented by Vimco's engineering team for years now.

One of the main characteristics of the group is the ability to study customized solutions by following customer requirements as closely as possible.

Space sometimes represents the biggest challenge for positioning machines and lines within a customer's plant.

For this reason, more and more often Vimco develops monobloc solutions, within which all the secondary packaging steps are included.

But that's not all: for a large multinational company, Vimco has also recently developed integrated solutions in which, in addition to traditional secondary packaging, the created packages are placed in American cases ready for palletizing; all in one compact structure.

This shows how closely Vimco works

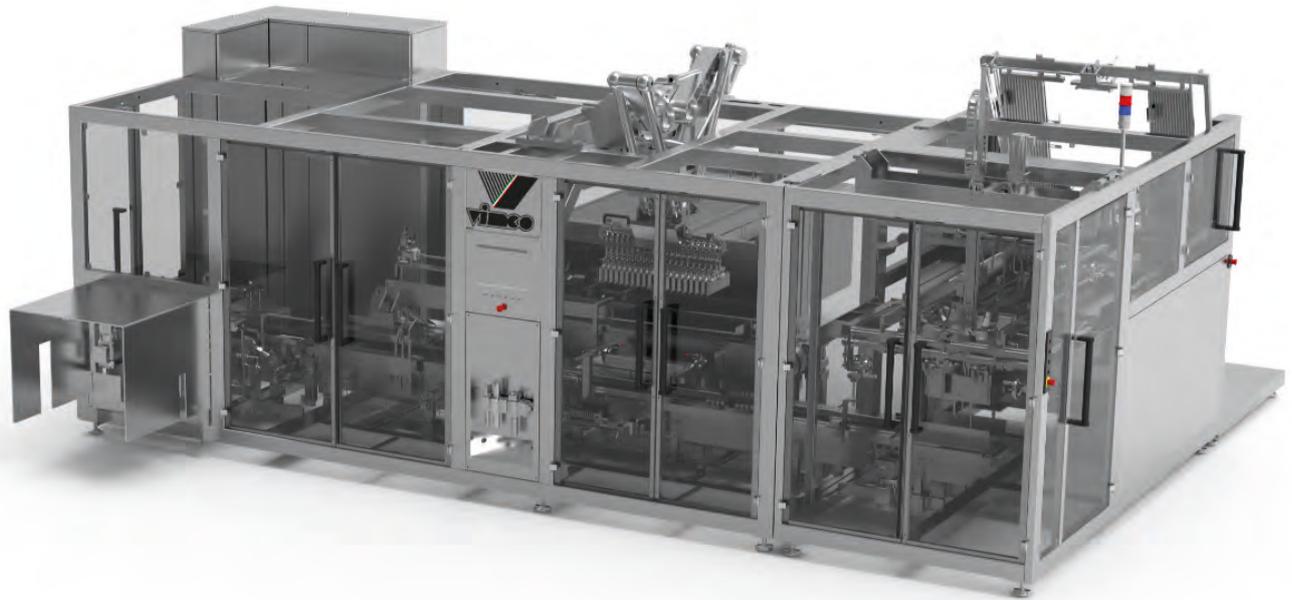


SECTORS

-  **PACKAGING**
-  **LINEE COMPLETE**
-  **FOOD & NON FOOD**

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with the customer to study and optimize packaging solutions that can be implemented in the various food sectors. Vimco's strength lies in being able to customize its solutions according to the type of product and the needs of the end user.

Vimco supports the customer's project from the beginning to the end, studying it in every detail and guiding the customer through the transition from the "manual" to the automatized process.

The advantages of monoblock lines are certainly compactness and versatility. Versatility is an equally important requirement, as packaging is constantly undergoing changes in market trends and responding more and more to marketing needs.

As always, the challenge is to meet all our customers' needs by providing flexible and user-friendly machines.

www.vimco.it

 Innovative Packaging systems
Since 1980 

Vimco S.r.l.
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tel.+39 031 929539
vimco@vimco.it • www.vimco.it

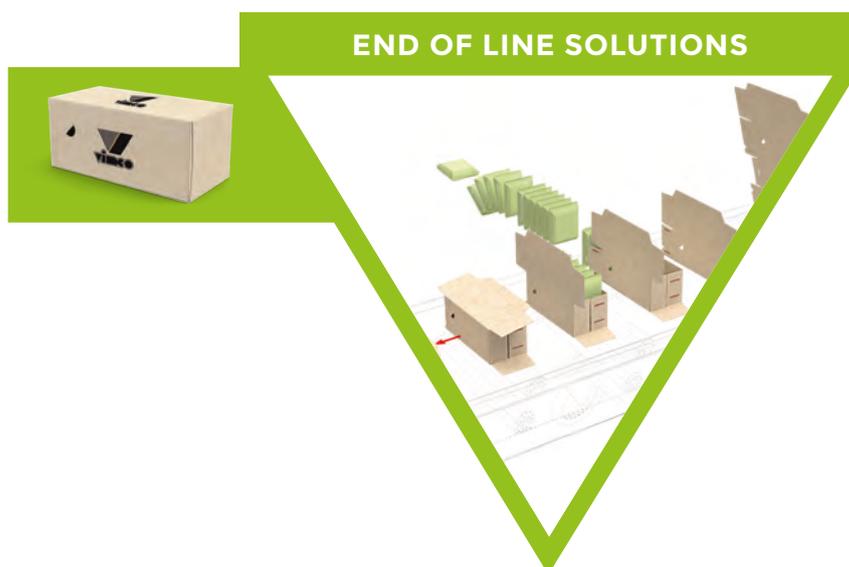
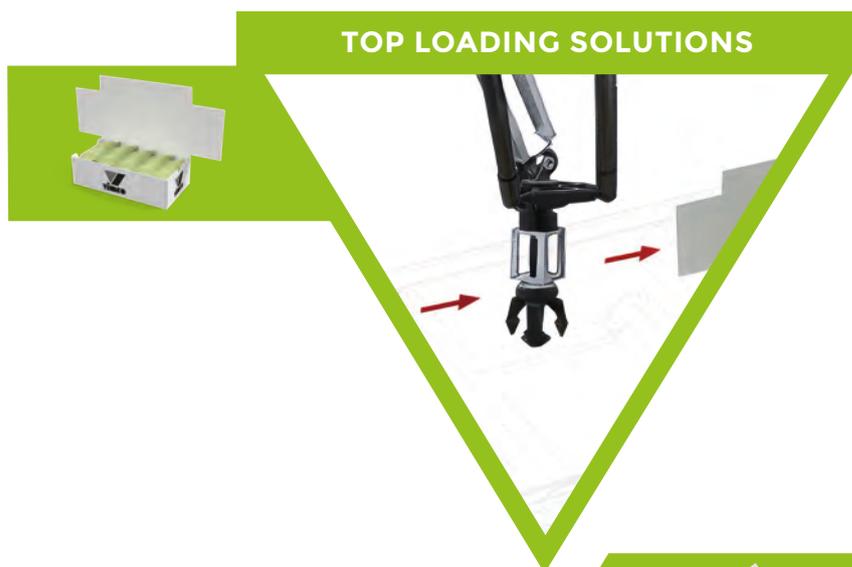




**WE PACK
YOUR
WISHES!**



vimco.it





SUPPLYONE SHOWCASES COMPREHENSIVE MEAT PACKAGING SOLUTIONS TO OPTIMIZE EFFICIENCY

Innovative packaging technologies tailored to meet the demands of fresh, frozen, processed, and ready-to-eat meat products

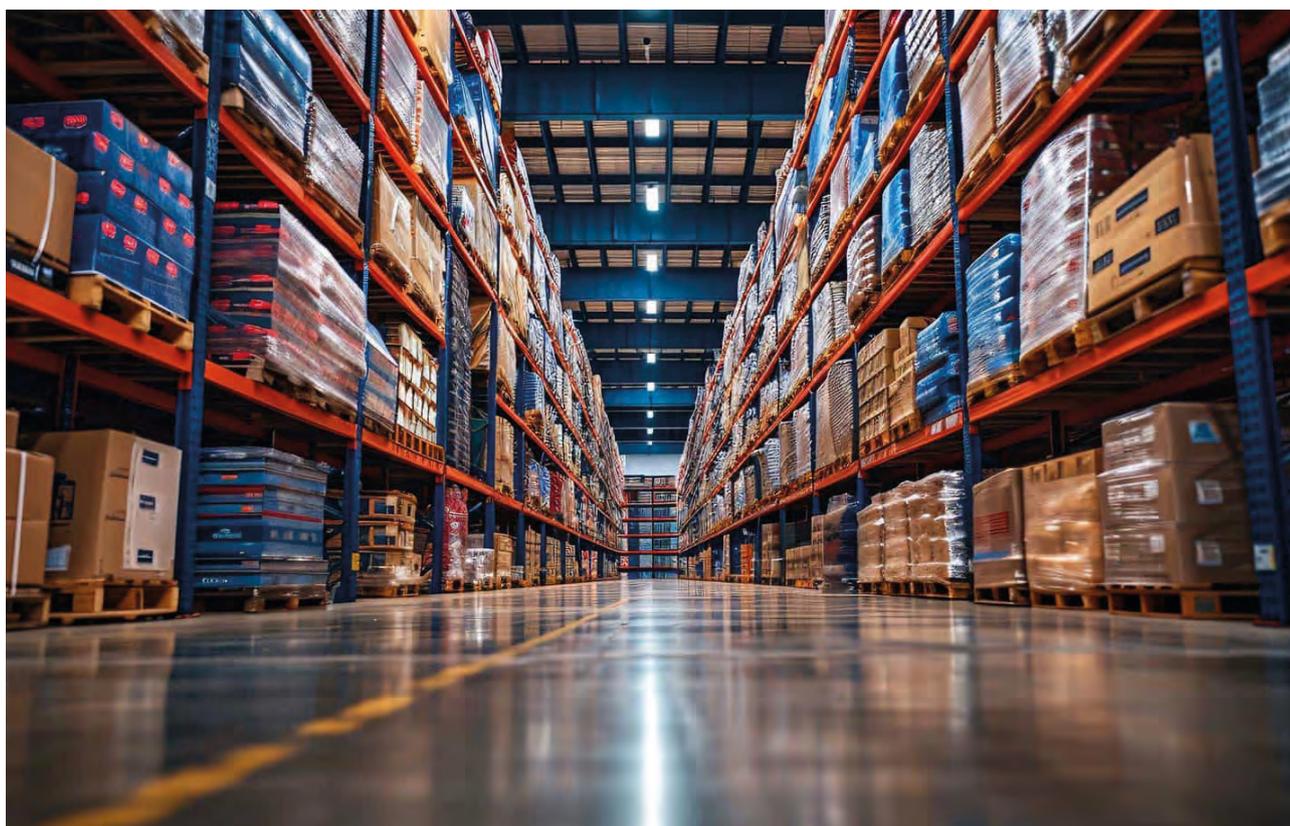


Newtown Square, Pennsylvania – SupplyOne, Inc., the largest independent supplier of custom corrugated and other value-added packaging products, equipment, and services in North America, proudly highlights its full range of packaging solutions designed specifically for the meat, poultry, and seafood industries. These solutions are focused on improving shelf life, ensuring safety, and streamlining operations, allowing meat producers to reduce costs while maintaining high-quality standards.

For meat packaging, SupplyOne offers a wide array of products including customized packaging films such as thermoforming films and vacuum skin packaging (VSP). These films can be printed or plain and are designed to keep products fresh longer. SupplyOne also provides a variety of bags and pouches, including shrink bags, stand-

up pouches, and vacuum pouches, which offer excellent protection against spoilage and contamination. Resealable packaging ensures convenience and peace-of-mind for consumers, while the company's trays and containers include case-ready and custom thermoformed designs, foam trays, and even microwaveable and oven-safe containers. These options ensure the safe transportation and handling of meat products, keeping them intact from the point of processing to consumption.

With all these options to choose from, SupplyOne's expert team of certified packaging specialists collaborates with customers to identify the most suitable packaging materials and designs for their specific needs, covering



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everything from barrier films and vacuum pouches to custom trays and printed labels. Each packaging solution is tailored to the product, whether it is fresh, frozen, processed, or ready-to-eat, with the goal of maximizing shelf life, enhancing product presentation, and ensuring operational efficiency.

SupplyOne enhances its packaging solutions with advanced equipment and automation systems such as vacuum chamber equipment, tray and cup sealing systems, and vertical and horizontal form-fill-seal machines. This state-of-the-art technology ensures that meat packaging operations are efficient and cost-effective. Additionally, SupplyOne provides operator training and technical service to ensure optimal equipment use.

To further streamline customer operations, SupplyOne offers customized inventory management programs, including the Packaging Management Program (PMP) and Management Services Agreement (MSA). These programs allow businesses to manage their packaging needs effectively, reduce carrying costs, and improve cash flow by optimizing inventory and reducing waste.

In addition to its meat, poultry and seafood packaging solutions, SupplyOne supports other food categories such

as baked goods, dairy and cheese products, prepared foods, and snacks. This comprehensive approach ensures that SupplyOne can provide packaging solutions for a wide variety of food products, making it a trusted partner for food processors across the industry.

For more information about SupplyOne's meat packaging capabilities, visit SupplyOne Meat Packaging or contact their team of packaging specialists today.

www.supplyone.com

SECTORS

 **FOOD**





PAPACKS: SUSTAINABLE PACKAGING SOLUTIONS FOR THE FUTURE OF FOOD

In today's world, where environmental concerns are becoming increasingly important, the future of food packaging hinges on sustainability, efficiency, and the conservation of natural resources. At PAPACKS, we are committed to revolutionizing the packaging industry by creating innovative, eco-friendly solutions that meet the demands of both manufacturers and consumers in the food industry. Our fiber-based packaging not only provides a sustainable alternative to traditional plastic packaging but also maintains high standards of quality and food safety.

Words from Tahsin Dag, founder & ceo of PAPACKS:

“The food packaging of tomorrow will be lighter, more efficient, and environmentally sustainable—designed to protect food while significantly reducing its impact on the planet. In the food industry, the use of compostable and biodegradable materials is essential to ensuring that packaging can be safely reintegrated into the environment without causing harm. Sustainable packaging must not only preserve the quality and freshness of food but also align with the growing consumer demand for eco-friendly solutions.” At PAPACKS, we have pioneered the use of renewable materials such as cellulose and industrial hemp fibers. These biodegradable and compostable materials are ideal for food packaging, offering the industry a pathway toward reducing its reliance on plastic. Our molded fiber packaging solutions provide superior pro-



PAPACKS®
PACKAGING BY NATURE

tection, durability, and ease of handling while being customizable to the specific needs of the food sector. They are lightweight, versatile, and can be designed in various shapes and sizes, making them suitable for a wide range of food products.

Molded Fiber: a smart choice for food packaging

The materials we use at PAPACKS come from sustainable sources, such as virgin cellulose fibers sourced from well-managed forests and industrial hemp, a plant that grows quickly, requires minimal water, and absorbs four times more CO2 than trees. Hemp fiber has proven to be an outstanding alternative to traditional materials, offering the same performance levels as tree-based fibers but with far less environmental impact.

In addition to their environmental benefits, molded fiber packaging solutions provide excellent cost-efficiency. They are competitive with conventional packaging materials in terms of production costs and offer superior shock absorption, ensuring that even the most fragile food products are protected during transport. Moreover, these packaging solutions are easily recyclable or compostable, fitting seamlessly into the circular economy





that is becoming increasingly important for food manufacturers and retailers alike.

Addressing raw material shortages and rising costs

The packaging industry, particularly the food sector, is facing significant challenges due to raw material shortages and rising prices, especially for paper and plastic. At PAPACKS, we have taken proactive steps to safeguard our supply chain by planting over 2,000 hectares of industrial hemp in Ukraine in collaboration with the European Material Bank (EMBA). This initiative not only ensures a consistent supply of high-quality raw materials but also shields our customers from market fluctuations and potential future price increases.

By investing in a self-sufficient source of renewable fibers, PAPACKS is positioning itself to meet the growing demand for sustainable packaging solutions while keeping costs competitive. This forward-thinking approach allows us to continue delivering high-quality packaging for the food industry, even in the face of external challenges.

Leading the charge in the future of food packaging

Investing in sustainable packaging is no longer optional for the food industry—it's essential. Consumers are increasingly prioritizing eco-friendly products, and businesses that fail to innovate risk being left behind. At PAPACKS, we are committed to pushing the boundaries of packaging innovation, delivering solutions that not only meet the stringent requirements of food safety and quality but also contribute to a healthier planet. As the food industry evolves, PAPACKS remains at the



forefront of innovation, offering packaging solutions that help reduce the carbon footprint of food products, lower production costs, and align with global efforts to minimize waste.

Our vision is clear: to lead the way in sustainable packaging technologies that not only benefit businesses but also protect our planet for future generations.

For more information, visit: www.papacks.com

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SECTORS

- SUSTAINABILITY
- PACKAGING



PHARMA PACKAGING: LESS WASTE, INCREASED RECYCLABILITY, AND SUSTAINABILITY AS THE KEYWORD

Certainly, the magnitude of waste in Pharma is not as impactful as that of the food sector. Indeed, the regulations governing packaging are very strict. However, due to the EU Regulation on packaging and packaging waste, change is on the horizon here too. It's less immediate, requires management, but must certainly be taken into account from now on.



by **Elisa Crotti**

We are facing a contradiction in terms: human health is tightly linked to the health of the planet, yet often, when considering packaging, the Pharma sector focuses much on the former and very little, if at all, on the latter. Until recently, this could go unnoticed, but now we are at a turning point: the world of pharmaceutical packaging can no longer ignore sustainability, especially since the World Health Organization itself is demanding it.

Thus, whereas a few years ago the choice of a drug's packaging was dictated primarily by two fundamental aspects, namely safety and



All images: freepik.com

reliability, sometimes supplemented by convenience, today sustainability becomes—and will increasingly be—a key aspect, to be considered by design.

Certainly, in terms of waste, the Pharma sector does not “boast” the same volumes as other sectors, such as the food industry, but reflection is needed, if only because here change is certainly more gradual and, above all, complex. Essentially, it needs to be managed.

Primary and secondary packaging: very different wastes

In Italy, the disposal of drugs, considered special waste, is regulated by the decree of the President of the Republic of July 15, 2003, no. 254 (“Regulations concerning the management of healthcare waste pursuant to art. 24 of the law of July 31, 2002, no. 79”); the European Union obviously has its guidelines, but each country has specific regulations.

When it comes to recycling, it is essential to distinguish between packaging that directly contacts the product (called primary), which remains contaminated by the latter even after use, and secondary packaging, whether it be a protective film, a paper box, or other.

In Pharma, for secondary packaging, disposal is simple: just collect and dispose of waste as directed by the

authorities. But for primary packaging, more caution is needed because the substance or drug cannot be treated like, for example, simple food residues. In some cases, indeed, the residues left inside the primary packaging can chemically interact to the point of compromising the recycling process.

This is particularly true for compostable materials: without knowing the exact chemical composition of the cream or fluid, we cannot be sure that these are compostable. And if they are not, the disposal of that container would truly compromise the celebrated “return to nature” of compostable packaging.

Given how utopian it is to think that Pharma sector packaging can be completely decontaminated to the point that it can be recycled and reused safely, the only alternatives on the horizon are incineration or landfill disposal. But even here, the issue is more complex than it seems: can the substances in question be burned without releasing harmful gases? Or can they be stored without altering groundwater?

It's clear how the theme of recycling pharmaceutical packaging is of primary importance. For this reason, the WHO encourages pharmaceutical companies to consider the degree of recyclability of their products at the end of their lifecycle, aiming, where possible, to prioritize packaging with a lower environmental impact.



Stringent regulation and the need for minimalist packaging

We know how the EU Regulation on packaging and packaging waste will require the use of recyclable packaging made with a minimum percentage of recycled material for all medicinal products by January 2035. Moreover, the packaging must be reduced to the minimum necessary size.

These requirements create particular challenges for the sector: time and investments will be needed to find feasible solutions that reduce the environmental impact of packaging waste, while simultaneously meeting the high standards of quality and safety of pharmaceutical products. Certainly, it's not an easy transition, especially since pharmaceutical packaging is strictly regulated by stringent regulations aimed at protecting the end consumer.

When a new drug is introduced to the market, it must pass rigorous tests that also include an evaluation of its packaging. Any changes to it require a new, complete regulatory assessment, leading to extended timelines and additional costs. This makes pharmaceutical companies very cautious in their packaging decisions, often forcing them to accept compromises that are not optimal from a sustainability standpoint.

A strongly followed path is that of lightweighting, i.e., reducing the weight of the packaging, which however remains unchanged in terms of format and materials. The goal of lightweighting is to reduce production costs, resource consumption, and the overall environmental impact of the packaging, while maintaining standards of protection and presentation of the product. It is certainly a less impactful choice, but one that does not effectively fit into the logic of sustainability, and above all, of a paradigm shift. Yet, according to the recent report from PMMI (Association for Packaging and Processing Technologies) entitled "Pharmaceutical Manufacturing, Trends Shaping the Future," a full 67% of drug manufacturers cite lightweighting as a strategy for environmental sustainability.

Sustainable packaging by design

If on one hand, the legislator can do much, for example, encouraging greater openness to innovative materials, like biopolymers, and processes that save in terms of energy and materials, it goes without saying how the attention of the consumer can also play a key role.

Here it must be noted that the urgency of the problem is increasingly concerning patients, leading them to loudly demand public awareness campaigns and legislative measures that would have a strong impact on pharmaceutical companies. A bottom-up driven change, as is happening in other sectors.

The repercussions of plastic pollution are vast, and we all have before our eyes the images of plastic islands (or Plastic Vortex) in the heart of the oceans. What does it mean, then, for a company to contribute to reducing this devastation? There are various paths, which can also be integrated. The first, more obvious, involves optimizing packaging, which involves removing unnecessary elements without compromising the safety of the product. Optimized packaging not only reduces waste but can also help minimize other environmental impacts—including the production of those same removed elements. Packaging optimization is now a well-established trend in many sectors and is also appreciated by consumers. Another step involves increasing, where possible, the percentage of recycled materials, promoting the circular economy, and reducing the demand for virgin resources. If this is not possible for packaging in direct contact with the drug, it is quite different for secondary packaging. But even considering recycling already at the design stage is an important step. By creating designs for packaging that are easy to disassemble, prioritizing materials with a lower environmental impact, and adhering to the design for recycling criteria defined in the EU Regulation on packaging and packaging waste, a big difference can be made.

A future to be written

It's always a matter of how you look at the glass, whether half full or half empty. But this time optimism has its reasons: the margins for improvement are immense, technologies can help drastically reduce, minimize in the true sense of the word, the impact of Pharma packaging on the planet. The paths are varied, the consumers (here patients) are informed, the market is ready. It's just a matter of embracing this change, knowing that, like any novelty, it represents a challenge, but that, like all challenges, can yield unexpected results.

Packaging is no longer seen just as an accessory, but as an integral part of a purchasing decision. May it be the best possible solution.





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

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

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

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

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

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



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

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

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

SECTORS

 PHARMACEUTICAL

 DIAGNOSTICS





ALL-IN-ONE SOLUTIONS FOR THE INTEGRATED PROCESSING AND PACKAGING OF INJECTABLES

IMA Group meets the evolving demands of the pharmaceutical market with fully integrated, high-performance lines for syringes, pens, autoinjectors, and cartridges.

In today's fast-paced pharmaceutical industry, the ability to efficiently produce a broad range of injectable drug delivery devices — such as syringes, pens, autoinjectors, and cartridges — is essential. Pharmaceutical companies and CDMOs must ensure flexibility, safety, and speed throughout the entire production process, from filling and assembly to final packaging, all while adhering to strict regulatory requirements.

IMA distinguishes itself as a one-stop-shop supplier, offering a fully integrated portfolio that covers every stage of injectable production. The synergy among **IMA LIFE**, **IMA MED-TECH**, **IMA SAFE**, and **IMA BFB** divisions delivers a comprehensive range of machines and technologies designed for filling, assembling, and packaging injectables with unmatched precision and efficiency.

Integrated Expertise Across the Injectable Value Chain



IMA LIFE leads in aseptic and non-aseptic processing solutions for liquid and powder formulations, including freeze-drying. Internationally recognized as an expert in advanced aseptic processing applications, IMA LIFE can satisfy any requirements coming from the aseptic, biopharmaceutical and pharmaceutical markets. IMA LIFE fill-finish solutions handle Ready-To-Use syringes, vials, and pre-capped cartridges with state-of-the-art contamination control and compliance with global regulatory standards such as the latest EU GMP Annex 1.

IMA MED-TECH specializes in the assembly of complex drug delivery devices — including pens, autoinjectors,



IMA LIFE's INJECTA 36 nest loading detail



IMA LIFE's INJECTA 36 filling and stoppering station





X-PEN by IMA MED-TECH

and needle safety devices. Their flexible automated assembly platforms cover all critical steps from component denesting to dosing mechanism integration and final device assembly, providing both standard and customized solutions to fit specific device requirements.

IMA SAFE focuses on primary and secondary packaging, offering advanced thermoforming for plastic and sustainable paper trays, combined with precise cartoning and robotic handling. This ensures the safe, gentle, and efficient packaging of delicate medical devices.

Completing the offering, IMA BFB delivers best-in-class end-of-line solutions in overwrapping, stretch and shrink wrapping, case packing, palletizing, and robotic handling – all designed to optimize logistics, minimize waste, and reduce footprint, while handling with care both the content and the container.

Flagship Technologies Behind Seamless Integration

IMA's integrated injectable lines include market-leading machines such as the INJECTA 36 fill-finish platform from IMA LIFE, the X-PEN and ASSEMBLA modular assembly systems from IMA MED-TECH for pens and autoinjectors, high-speed thermoformers able to produce both plastic and 100% paper trays from IMA SAFE, and advanced robotic palletizers and case packers from IMA End of Line, just to name a few. These systems are engineered for full compatibility and seamless integration, enabling synchronized, efficient production with superior traceability and process control.

Why Choose IMA as Your All-in-One Partner?

By selecting IMA as your single supplier for injectable production lines, you benefit from:

- **Exceptional Flexibility:** Solutions tailored for a wide variety of injectables, enabling customization of assembly and packaging processes.
- **Safe and Reliable Operation:** Cutting-edge technology ensures product integrity and operator safety throughout the production line.
- **Reduced Time-to-Market:** Fast format changeovers and modular design accelerate production ramp-up and batch switching.

SECTORS

 PACKAGING

 FOOD

 PHARMACEUTICALS





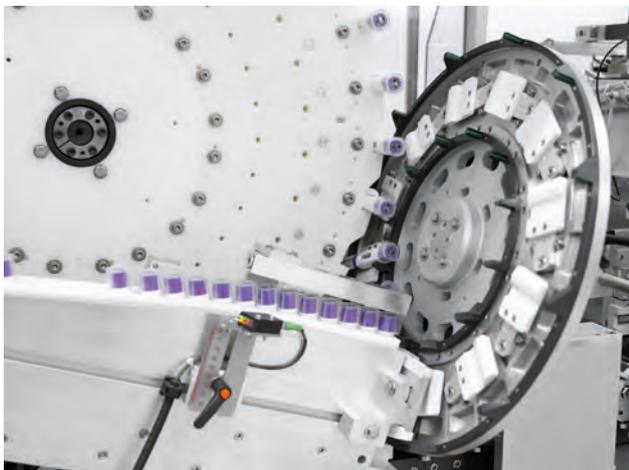
Complete range of packaging solutions by IMA SAFE

- **Customizable Line Design:** Scalable and modular systems designed to meet current needs and accommodate future growth.
- **Single Point of Contact:** Streamlined communication and project management simplify integration and reduce complexity.

— enhancing project quality, maximizing efficiency, and ensuring superior product performance. We remain at your disposal to provide further information and to support you in designing the optimal solution for your injectable production requirements. Please visit our websites to learn more about how IMA can help advance your projects.

Thanks to the combined strength of IMA LIFE, IMA MED-TECH, IMA SAFE, and IMA BFB, IMA offers a unique, fully integrated approach for injectable manufacturing

www.ima.it/pharma
imaautomation.com/med-tech



Robotic feeding solutions





PHARMACEUTICAL TEMPERATURE CONTROLLED PACKAGING SOLUTIONS MARKET

Predicted To Reach Around USD 945.2 Million By 2030

The 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

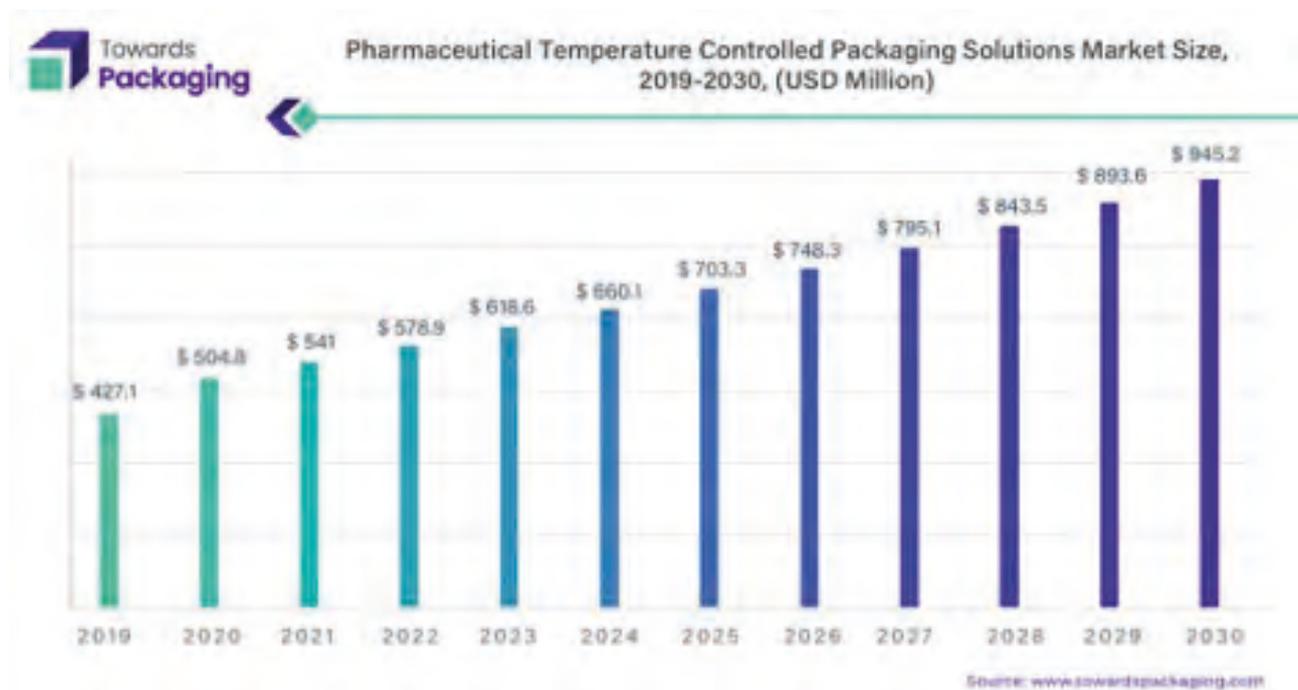
As the pharmaceutical industry continues to witness unprecedented advancements, the demand for robust temperature-controlled packaging solutions is surging. Stakeholders are increasingly recognizing the critical role played by these solutions in safeguarding the effi-

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



Pharmaceutical Temperature Controlled Packaging Market Revenue, By Region, 2019 To 2030 (USD Million)



Source: www.towardspackaging.com





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

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





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

Stella 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.





Stella Maris

Bellezza e Benessere



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 logistica 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





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

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

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

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

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

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

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

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

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

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

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

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

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



SECTORS

✓ COSMETIC / PHARMACEUTICAL

✓ CHEMICAL / DETERGENT

✓ CHEMICAL





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

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

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

www.piccoliplast.com



ZEN
scopri la nuova serie.



PICCOLI PLAST
blow moulded packaging

www.piccoliplast.com



NEW DOSAGE TECHNOLOGIES TRANSFORM THE PHARMACEUTICAL INDUSTRY



by Our Editorial Team

Advanced technologies, including controlled release systems, personalized dosing, and innovative administration platforms, are redefining the concept of pharmacological therapy.

Traditionally, pharmaceutical dosing has focused on the mass production of standardized pharmaceutical forms. However, technological evolution has introduced the ability to customize dosing based on the individual needs of the patient, significantly improving treatment efficacy and reducing the risk of side effects. The new dosage technologies use advanced algorithms and biometric sensors to analyze patient data in real time, allowing for unprecedented customization of pharmacological treatment.

One of the most promising innovations in the field is the controlled release system. This technology allows drugs to be released gradually into the body, maintaining therapeutic levels over time and reducing the need for multiple daily administrations. Controlled release not only improves convenience

The new frontiers of dosage technologies in the pharmaceutical industry represent a crucial turning point in the production and administration of drugs, offering innovative solutions to improve therapeutic effectiveness and patient safety



All images: pexels.com





for the patient but also adherence to treatment, both of which are crucial for therapeutic success.

Simultaneously, the introduction of micro and nanoparticles in pharmaceutical formulations is revolutionizing the way active ingredients are delivered to their site of action.

These particles, designed to overcome biological barriers and release the drug in a targeted manner, promise to reduce side effects and increase the efficacy of treatments, especially in fields like oncology, where dosage precision is critical.

The pharmaceutical industry is also exploring the use of 3D printers for the production of pharmaceutical forms. This technology offers the possibility to create customized tablets that can contain multiple dosages or release drugs at different rates, adding another level of treatment personalization. Moreover, 3D printing could enable the “on demand” production of drugs in hospitals or pharmacies, revolutionizing the pharmaceutical distribution chain.

The challenges accompanying these innovations are significant, including regulatory issues, the need for investment in research and development, and the training of healthcare personnel on the new dosing modalities. However, the potential to improve the efficacy of treatments and the quality of life for patients makes these challenges worth tackling.

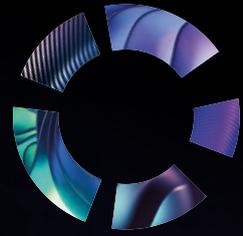
We can therefore assert that dosage technologies in the pharmaceutical industry promise to bring profound changes in how drugs are produced, administered, and experienced by patients.

As we move towards an era of greater customization and precision in pharmacological therapy, collaboration between researchers and pharmaceutical companies will be crucial to realizing the full potential of these revolutionary technologies.”



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BIOGEST SRL: ANALYSIS OF FOOD CONTAINERS AND PACKAGING

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

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

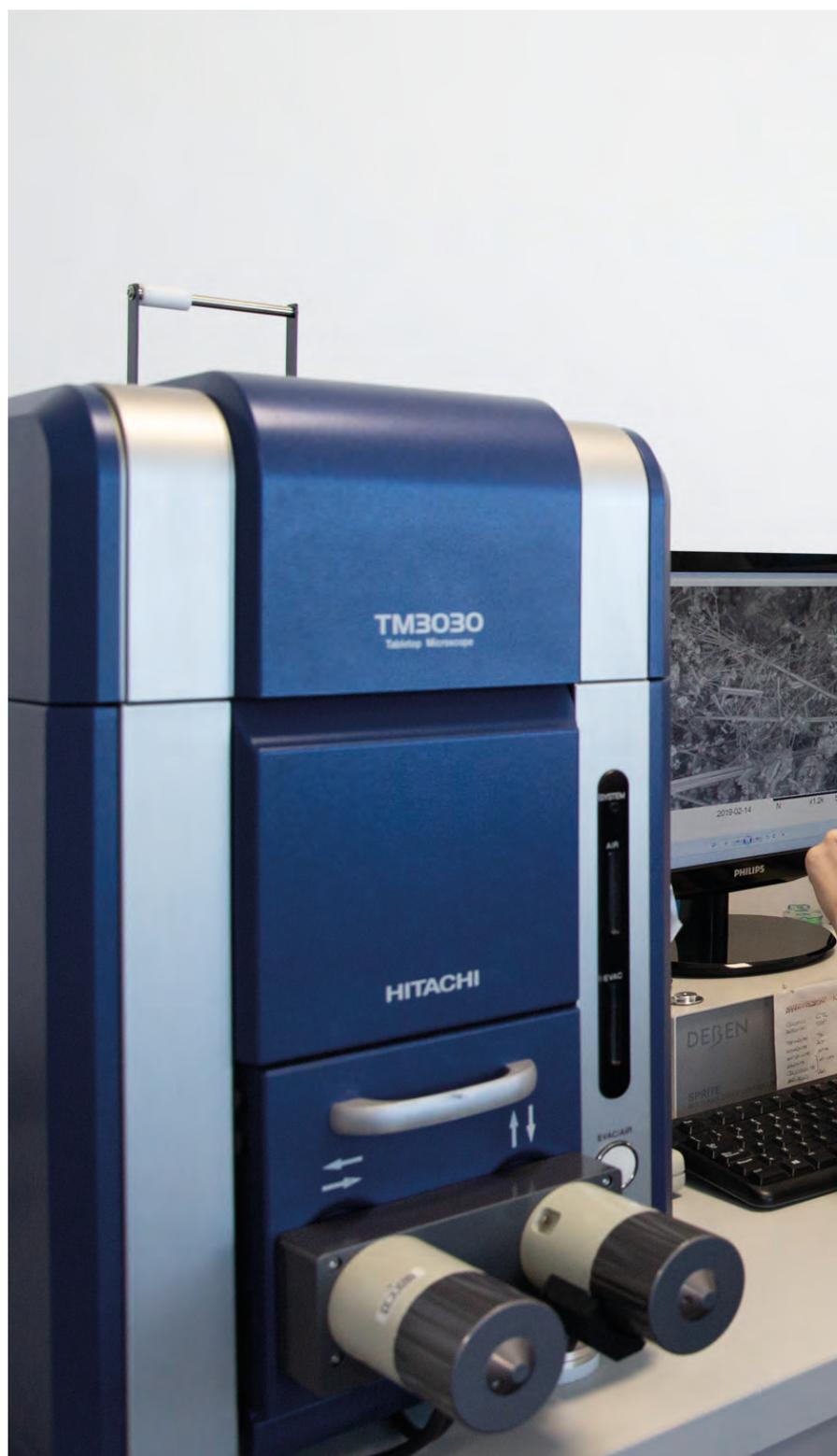
All materials that come into contact with food, from manufacturers' packaging to crockery, cutlery, glass, ceramics and food storage containers, must be tested to ensure their safety. In fact, they must not transfer unacceptable quantities of their components to food. The analysis of materials intended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

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

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

Biogest Srl is able to carry out tests on:

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





SECTOR

 PHARMACEUTICAL

 COSMETIC

 FOOD





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

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

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

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

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

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

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

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

www.csagroup.it



Identity, Functionality & Cost Efficiency.

We are a design studio with a comprehensive product development and manufacturing vision.



Branding

Empower your brand with targeted strategies.



Industrial Design

Unique and functional product solutions.



Engineering

Tailor-made technical projects for every need.



User Experience (UX)

Intuitive and engaging digital experiences.



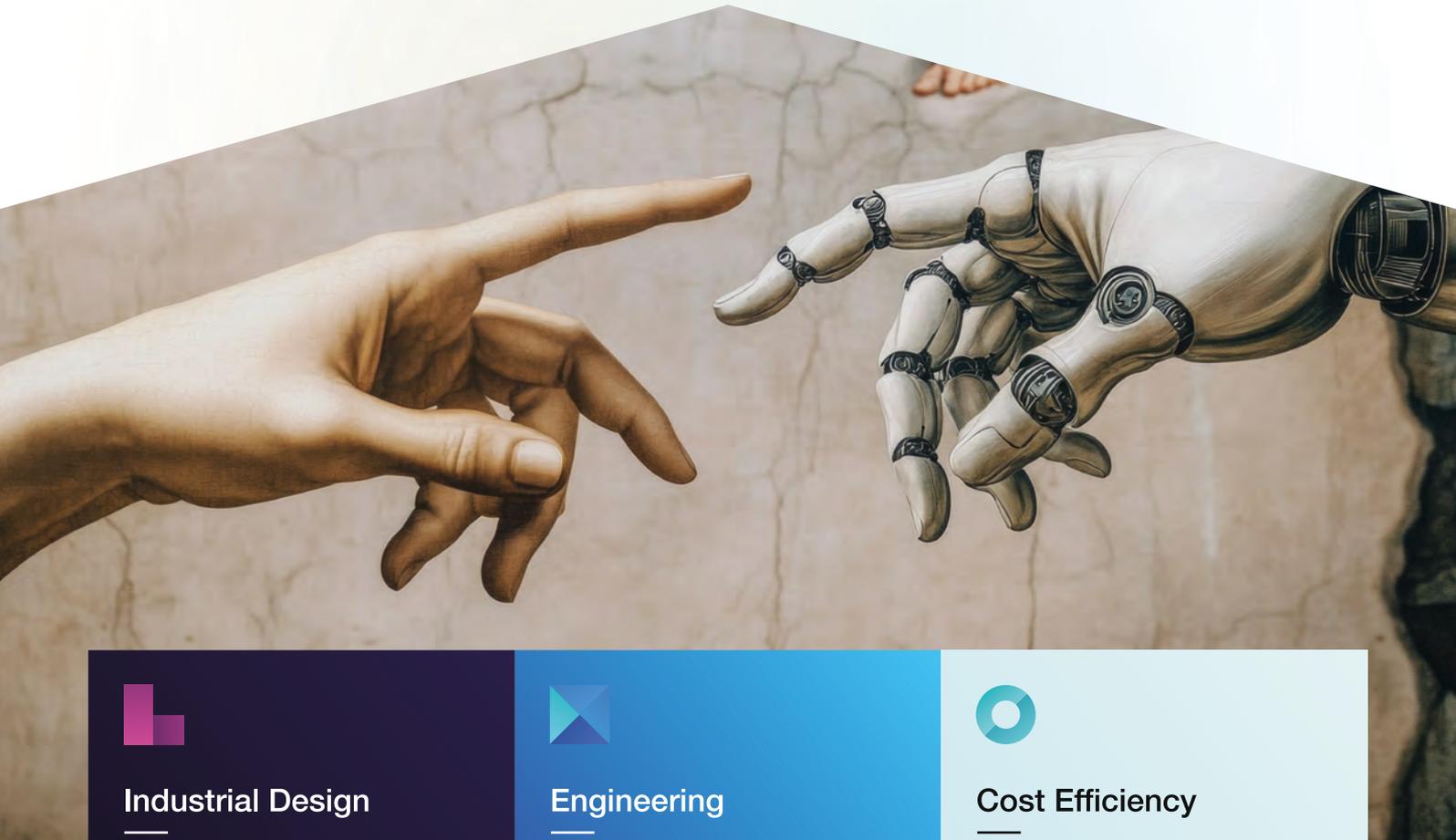
Prototyping

Turning concepts into functional prototypes.



Production

Every manufacturing process is innovative and precise.



Industrial Design

By optimizing materials, manufacturing, user experience, technology, market trends, and budgets, we create efficient and innovative products.



Engineering

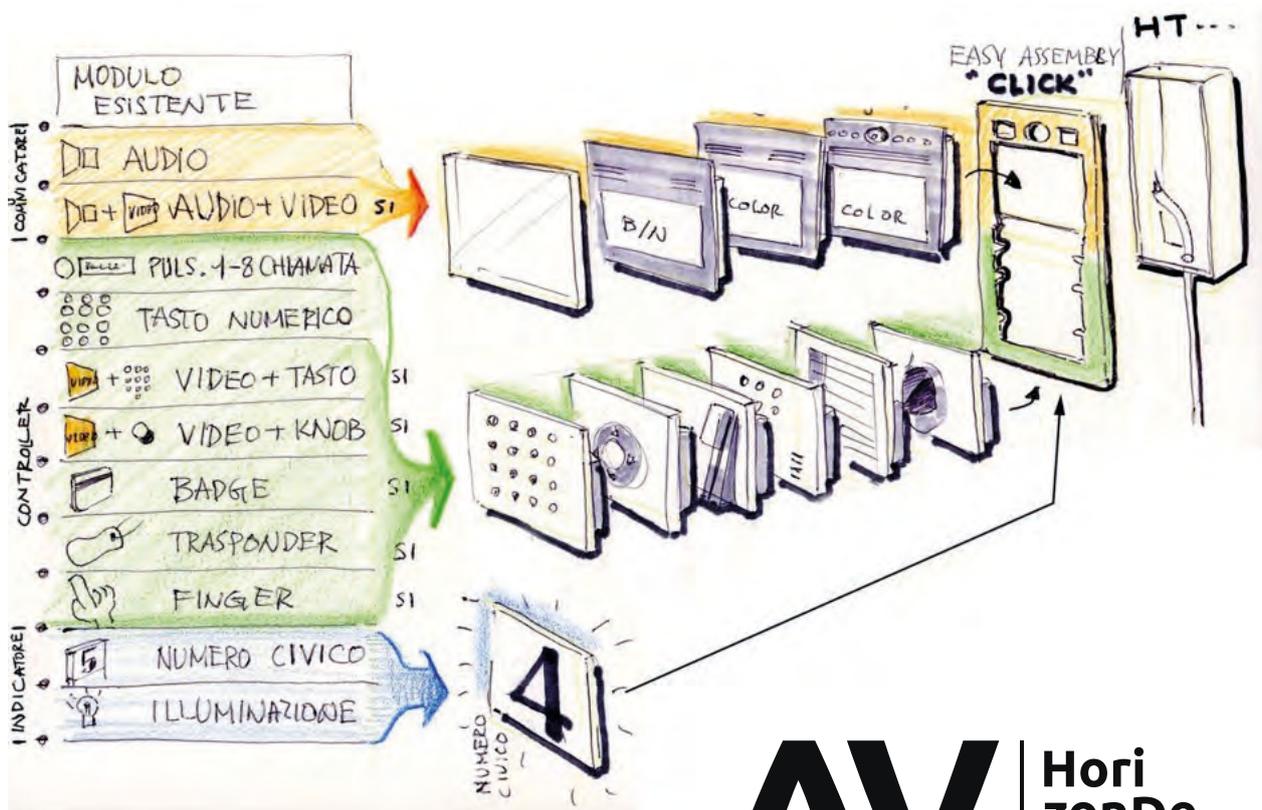
Bringing functional and inspiring products to life, we use engineering-driven solutions to simplify even the most complex challenges.



Cost Efficiency

Through innovative solutions, we maximize project value while reducing costs and ensuring quality, performance and innovation.

DESIGN DRIVING INNOVATION: FROM CONCEPT DESIGN TO ENGINEERING WITH A COST-SAVING APPROACH AND BEYOND



AV Consulting specializes in every step of the process, from concept design to project engineering for serial production. As Such, it is a valuable partner for startups, small and medium-sized businesses, and large industrial groups. We discussed this with Gabriele Angelucci and Valter Valenti, the company's founders.

When was AV Consulting founded?

AV Consulting was founded in 2008 with a multidisciplinary team consisting of product designers, electronic and mechanical engineers, as well as brand strategists and marketing professionals.

There are two locations where we operate. The historic one is in Pesaro and the technologically advanced one

SECTORS

- ✓ INDUSTRIAL DESIGN
- ✓ UX DESIGN
- ✓ PROTOTYPING



is in Santarcangelo. Located in the Marche and Emilia Romagna regions in Italy, we are part of a network of manufacturers.

What is the philosophy that guides your work as a product designer?

At AV Consulting, we believe that the success of an idea depends not only on its creativity but also on its feasibility in the real world.

In contrast to traditional design studios, we combine engineering expertise with aesthetic innovation, ensuring that every product we develop is functional, efficient, and production-ready. The team-based approach we adopt facilitates the transition from concept to prototype to mass production, optimizing cost-efficiency from the beginning of the design process.

What are the most significant projects carried out in these 18 years?

In the course of our existence, we have developed hundreds of products across a variety of industries. We worked on coffee machines for Delonghi and boiler systems for Ariston in the area of home and professional appliances and contributed to advanced lighting systems projects for Osram in the area of lighting systems. As a result of our expertise in UI/UX design, we have collaborated with Gefran, integrating IoT and smart solutions. For Vicivision, IMA Group, and Sacmi Group, we developed cutting-edge industrial automation systems. For Diemme Enologia, we

designed wine press platforms and high-performance CNC machines processing centres for aluminium for FOM Industries. In addition to these sectors, we have played a key role in medical and pharmaceutical innovations, collaborating with Loccioni Group, Steelco Spa - Miele Group, Fedegari Autoclavi Spa, and many others..

What is your target market today?

At present, our primary focus is on the world of automatic machine manufacturers, particularly in the packaging sector, which is an area of particular interest to us. Upon examination of the machinery sector, it becomes apparent that the differences between models from different brands are not always distinct, as many machines share similar characteristics.

It is our goal to provide a comprehensive solution that seamlessly integrates engineering excellence with aesthetics, ensuring a balance between functionality and aesthetics.

Design possesses a dual strength: it can both characterize and attract. On one hand, there are manufacturers who strive to differentiate themselves from their competitors and on the other hand, there are users who search for high-performance machines that are easy to operate, have advanced graphic interfaces, and are competitively priced. It is our goal to serve as a link between these two extremes.

www.avconsulting.it



PROTECTING YOUR PRODUCTS SINCE 1991

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

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





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

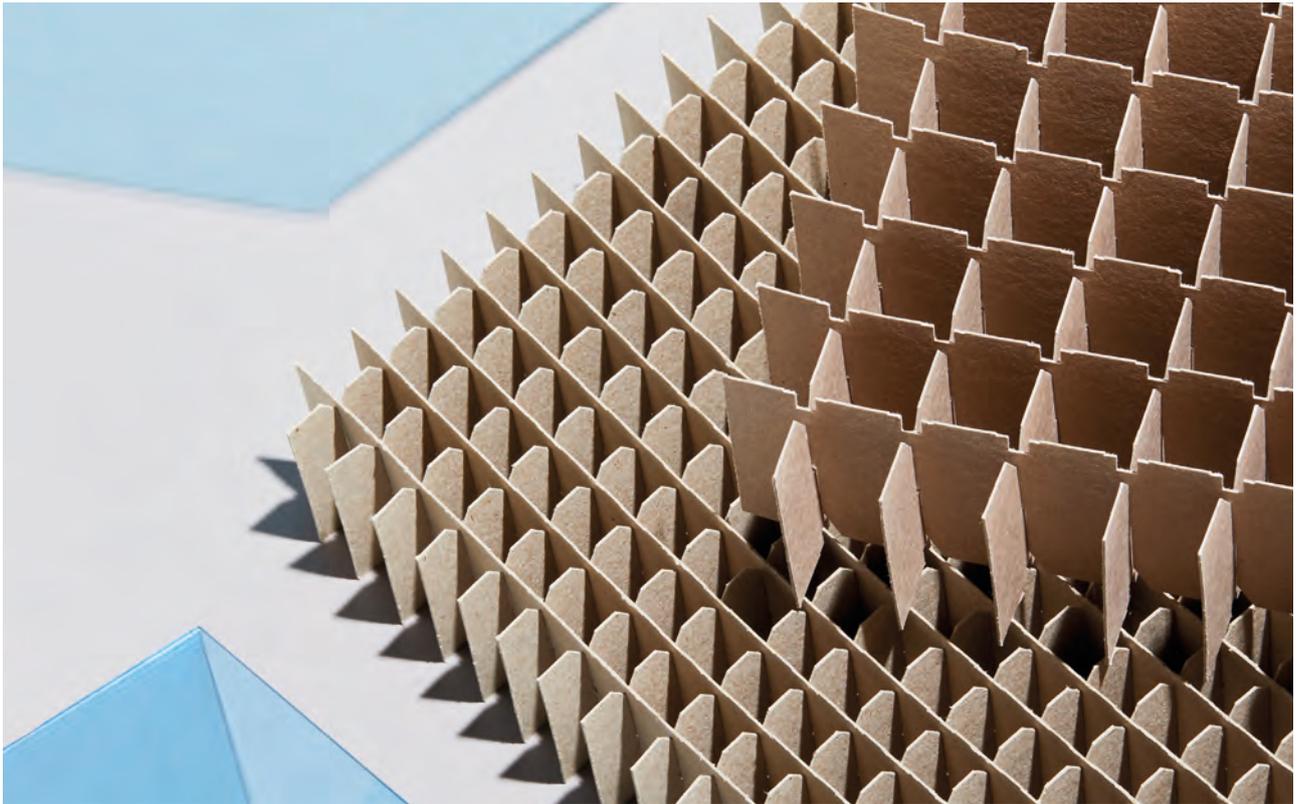
offering, with the awareness that dealing with fragility and responding to the need to "protect" means thinking thoroughly about preserving every creation of humankind.

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



SECTORS

-  PHARMACEUTICAL
-  FOOD
-  COSMETICS



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

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

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

www.alveare.com



PACKAGING FOR EMOTIONAL WELL-BEING

Quadpack has created caps and collars for the fragrance roll-ons of Neuraé, Sisley's skincare brand based on neuroscience.



Neuraé is a new Sisley brand rooted in the connection between skin and emotions, enhancing positive feelings by focusing on well-being, energy, and serenity through a three-step routine. The packaging of the neurocosmetic products is masterfully designed, featuring glass jars and bottles with maple wood caps and collars from Quadpack, the international manufacturer and supplier of cosmetic packaging. Quadpack also developed its exceptional roll-ons, creating a wide range of containers designed to engage all senses. Neuraé formulas are composed of at least 95% natural ingredients. The range includes a serum and three face creams, complemented by roll-on fragrances called "Emotion Boosters." The routine involves three simple steps: restore skin balance with the harmonizing serum harmonie; apply the face cream joie, énergie, or sérénité, depending on the desired mood; and enhance with the appropriate fragrance.

The brand is clear about its packaging goals and stated: "We aim to reduce our ecological footprint by using glass, recyclable plastics, and wood." Quadpack's wood experts collaborated with Neuraé to select the most suitable type of wood and finish. The company chose maple for its light surface and smooth, refined finish.

The collars and caps for the droppers, jars, and roll-ons were custom-designed and produced at Quadpack Wood's facility in Spain, powered by renewable energy and a biomass plant fueled by production waste. Made exclusively from sustainably

managed forests, each wooden component is unique, with its own natural grain. Each cap was branded using a precise laser engraving process. The laser was meticulously calibrated to ensure shallow engraving, avoiding the typical burnt effect, making maple an ideal material.

The Emotion Boosters are conveniently sized for travel. The 6.5 ml glass bottles were lacquered and decorated with single-color screen printing. Each variant's roller applicator features a gemstone: jade for énergie, rose quartz for joie, and amethyst for sérénité. Here too, the cap is made of maple wood.

Overall, the combination of natural wood, glass, and gemstones enhances the sensory appeal of the range, supporting Neuraé's mission to "nourish the skin and promote well-being."

SECTORS

 **COSMETIC
PACKAGING**



PACKAGING AND BRANDING: MORE THAN JUST A BOX

Packaging is often perceived as merely a functional container, a protective layer for products during transport and distribution. However, in today's world, packaging is much more than that. It has evolved to become a key element in a company's marketing and communication strategy. In an increasingly competitive market, packaging plays a crucial role in differentiating a brand, communicating its values, and capturing consumer attention. It's the first point of contact between the product and the customer, and it often represents the first impression that forms in the buyer's mind. For this reason, packaging design has become an art in itself, capable of influencing purchasing decisions and contributing to customer loyalty.

Modern packaging must meet a range of needs that go far beyond physical protection. It needs to be visually appealing, functional, and sustainable, but most importantly, it must communicate the brand's identity. Good packaging is instantly recognizable and reflects the values the company wants to convey. It's a vehicle for storytelling, capable of telling a story without words, using design, the materials, colors, and even the format. For example, minimalist, clean packaging can communicate a message of elegance and quality, while a more colorful, bold design might suggest a dynamic, youthful brand.

An emblematic case is packaging in the luxury sector, where aesthetics are often considered just as important as the product itself.

A well-known example is Apple products: the packaging is meticulously designed to offer an unboxing experience that lives up to the brand's expectations. Attention to materials, the sound of the box as it opens, the arrangement of accessories—all these elements contribute to creating a moment of connection between the customer and the product, making the consumer feel part of something special. In this context, packaging is not just a means of protecting the product but becomes an integral part of the purchasing experience.

But packaging isn't just about aesthetics. Another crucial aspect is its functionality. A good design must be practical, easy to use, and, at the same time, optimize space to reduce shipping costs and minimize environmental impact. Companies are increasingly investing in solutions



by *Walter Konrad*

that are not only beautiful but also sustainable. The theme of sustainability is now one of the main drivers of innovation in the packaging sector. The use of recycled, biodegradable, or easily disposable materials has become a key element for many companies that want to position themselves as responsible brands with environmental awareness. This is especially true for brands targeting a young, conscious audience, for whom sustainability is a non-negotiable value.



All images: pexels.com



Another aspect of packaging that deeply affects a brand's image is consistency—visual consistency, of course, but also consistency in messaging. Packaging must be perfectly aligned with the rest of the brand's communication, from advertising campaigns to website design. Everything needs to speak the same language. This consistency helps build a strong, recognizable identity that sticks in the consumer's mind. In a world where we are constantly bombarded with visual stimuli and advertising messages, having a clear and distinctive identity is essential to stand out and be remembered.

Thus, packaging can be a powerful branding tool, but it must be authentic to truly work. Today's consumers are more attentive and informed than ever and can quickly recognize a fabricated or artificial message. Packaging that promises sustainability but uses non-recyclable materials risks seriously damaging the brand's reputation. Therefore, companies must be transparent and consistent, not just in terms of aesthetics but also ethically.

Lastly, we can't talk about packaging without mentioning the importance of interactivity. With the advent of new technologies and the integration of digital elements, packaging has become an interactive tool that can enhance the consumer's experience.

One example is the use of QR codes, which allow access to digital content, explanatory videos, or exclusive promotions. This integration between physical and digital enables the brand to create a direct dialogue with the customer, enriching the buying experience and offering



content that can positively influence the perception of the product.

In conclusion, packaging is no longer just a "simple box," but a fundamental element for building and promoting a brand. It's a communication tool, a means of telling a story, a channel for connecting with the consumer, and a symbol of the company's values. In an increasingly crowded market, good packaging can make the difference between a product that goes unnoticed and one that captures the attention and loyalty of customers. Being aware of this transformation is essential for companies that want to continue growing and standing out in an increasingly demanding and complex competitive landscape.

GLOBAL PET FOOD PACKAGING MARKET SET TO DOUBLE BY 2032

The 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)

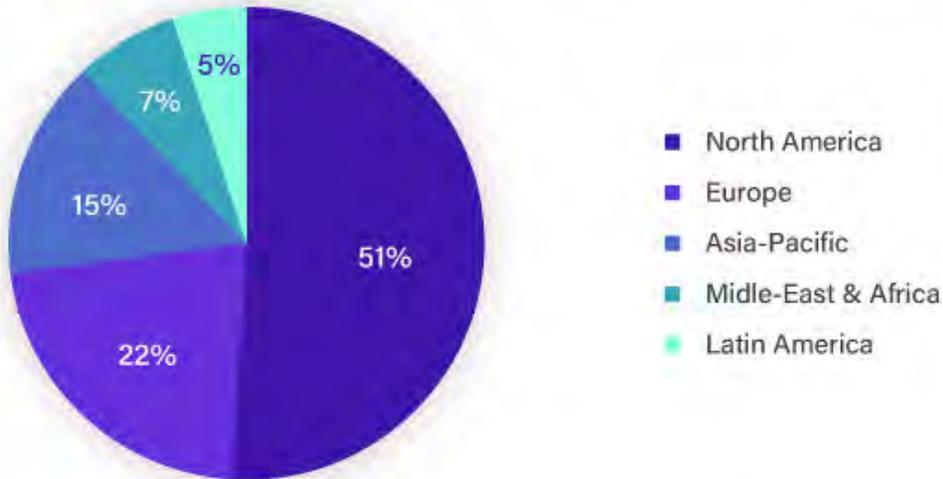


Source: www.towardspackaging.com





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



Source: 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

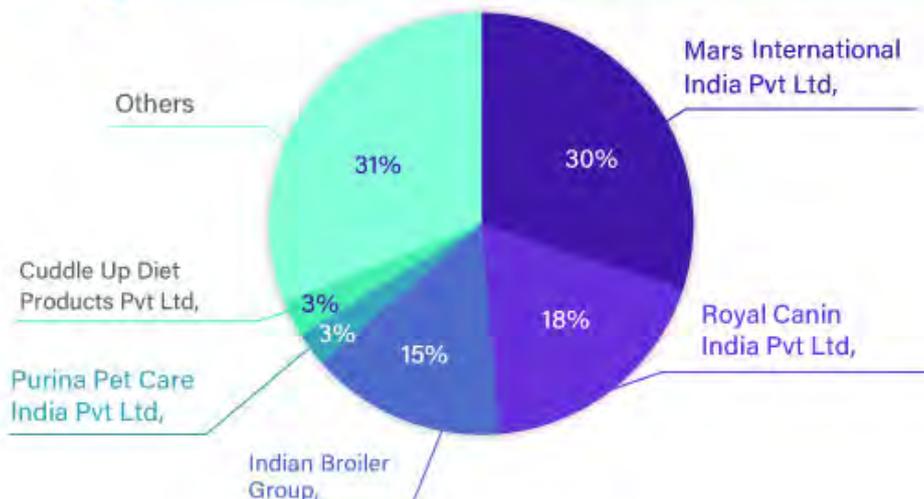
Pet dogs in India have significantly transformed their role within households. Over the years, their status has evolved from that of a protective watchdog to that of a cherished and indispensable family member. This shift in perspective has also been mirrored in the changing behaviors of dog owners, 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





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.

www.towardspackaging.com



DIGITAL LINK UNVEILS THE FIRST CONVERSATIONAL PRODUCT PACKAGING

powered by AI that lets consumers speak directly to their products

At Labelexpo 2025, Digital Link Co-founder & CEO Paula Rivero just declared the end of packaging as we know it. From this moment forward, every product can become a living, speaking presence in the consumer’s life. Not with an app or a manual, but with a simple scan and conversation.

Rivero revealed the world’s first AI-powered product assistant in a live demonstration that left the audience buzzing. By embedding conversational intelligence into a next-generation QR code, packaging now does more than comply with regulations or share static information: it answers back.

“For the first time, a product can respond when you ask it a question,” said Paula Rivero. “This is not a gimmick. This is packaging becoming a voice, an ambassador that speaks for the brand, and listens to the consumer.”

The rise of conversational packaging

Packaging has been a silent messenger for decades, limited to what could be printed on a label. The unveiling at The Pulse stage, Fira Gran Via, Barcelona, marks a shift from passive to interactive, from one-way to two-way.

In one demo, Paula Rivero scanned a face cream pack and asked Cleo, the Digital Link assistant, if it was safe to use for a pregnant woman. Cleo replied with tailored suggestions and recommendations. In another, a gin bottle was asked about cocktails, resulting in a series of recipes and instructions.

Riding the wave of AI and transparency

The launch comes at a time when consumers demand instant clarity and regulators worldwide push for radical transparency. By merging GS1 Digital Link standards with conversational AI, Digital Link positions packaging at the intersection of compliance and innovation:

- **Transparency:** Consumers get trustworthy, real-time answers about ingredients, allergens, safety, or sustainability.

With a single QR code scan, consumers can now ask products any questions, marking the rise of conversational packaging

- **Agentification:** Products become active digital agents, capable of dialogue and context-aware guidance.
- **Efficiency:** Brands lower support costs by automating Q&A while collecting valuable insight into consumer needs.

A radical industry shift

Industry observers described the session as one of the defining moments of Labelexpo 2025. Rivero positioned Digital Link as the architect of a new consumer reality by reframing connected packaging from a regulatory burden into a strategic advantage.

“This is the barcode’s successor,” Rivero told the audience. “From now on, products don’t just sit on shelves. They live, they listen, they respond.”

About Digital Link

Digital Link is the global platform for next-generation 2D barcodes, powering smart packaging, digital product passports, and now AI-driven consumer conversations.

With 15+ years of innovation — including the invention of dynamic QR codes in 2009 — the team behind Digital Link helps brands worldwide turn packaging into a channel for compliance, transparency, and direct consumer engagement.



D.C.M.: ROBOTICS AND AUTOMATION FOR SAFER, MORE EFFICIENT PRODUCTION

Industrial robotics has become a key player in modern industry, leading to a true transformation in factories. This change is particularly visible in the Food & Beverage and pharmaceutical sectors, where the demand for innovative and safe solutions is continuously growing. D.C.M., through its solid experience and commitment to excellence, has responded to this need with cutting-edge solutions that combine robotics and automation to optimize production processes, increase efficiency, and ensure high safety standards.

The Importance of Safety and Hygiene in Food Production

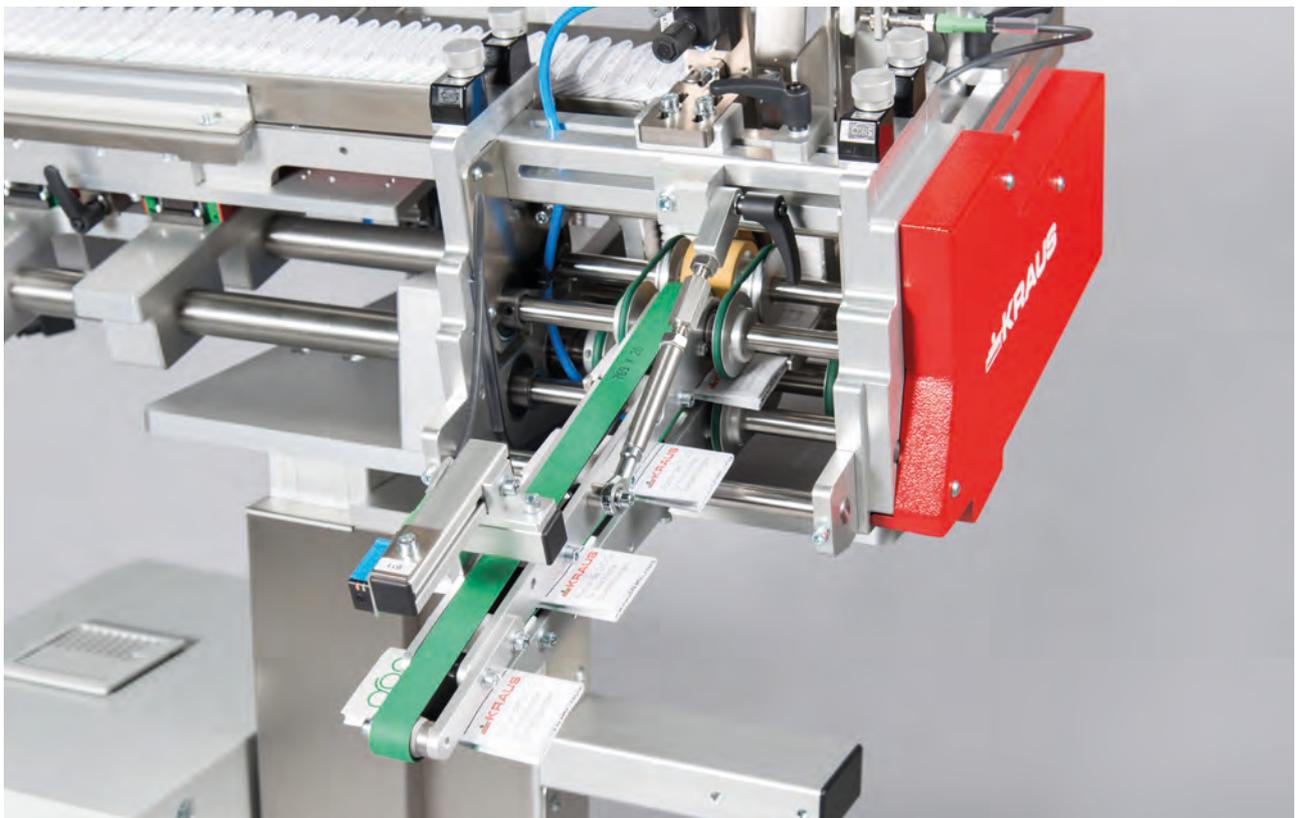
In the Food & Beverage sector, food safety is a top priority. The hygienic design of machines and plants, especially for primary packaging, plays a crucial role in protecting food products.

Alessandro Casiraghi, President of D.C.M., emphasizes how the proper design of machinery is essential to avoid the accumulation of product residues and detergents.

“Our customers, ranging from coffee to chocolate to bakery products, require high hygienic standards. For this reason, the ease of cleaning materials and surfaces is essential.”

The Hygienic Design robotic solutions offered by D.C.M., under the autonox Robotics brand, are designed to comply with the strictest safety and hygiene protocols, thanks to the use of food-compliant materials and protection up to IP69K. These robots feature an advanced cleaning system with pressure washers capable of reaching 28 bar, ensuring rapid and efficient cleaning even under the most challenging conditions.

D.C.M.'s offering is not limited to primary packaging. The range of industrial robots under the autonox Robotics brand includes highly performing models such as Duo-pods, 3 to 5-axis Delta robots, Articulated robots, and Scara robots, which meet the needs of various stages of the production process.





A particularly appreciated aspect by customers is the independence of the controller. “Our customers are free to choose the controller they prefer without having to learn new programming languages,” explains Casiraghi. This autonomy allows for easy integration of robots into existing lines without the need for complicated interfacing processes.

Sustainability and Innovation with Kraus

D.C.M. is not limited to robotics. The company is also the exclusive distributor in Italy of Kraus solutions for packaging and labeling, particularly in the Food & Beverage sector. Kraus machines, designed to operate at industrial speeds, have evolved to meet the growing demands for sustainability. The machines are now capable of handling products made with recyclable materials, such as disposable cutlery, trays, containers, and single-dose packets, which are efficiently singled out and dispensed. Continuous innovation is also reflected in the Labeljack labeling system. This system is particularly appreciated for its high cycle speed and precise label placement, allowing for high customizations that meet the needs of an increasingly demanding market.

A Commitment to Productivity and Customization

D.C.M.’s approach is clear: to ensure an increase in productivity and continuous improvement of its customers’ production processes. “Our goal is to provide ever more innovative and customized solutions, carefully listening to the customer’s needs,” concludes Casiraghi. With a range of solutions spanning from robotics for primary

and secondary packaging to dispensing and labeling systems, D.C.M. continues to respond to the challenges of a rapidly evolving market, with a strong focus on quality, safety, and sustainability.

www.dcm-italia.it



Qualità | Competenza | Innovazione | dal 1974

SECTORS

FOOD & BEVERAGE

PACKAGING

LOGISTICS



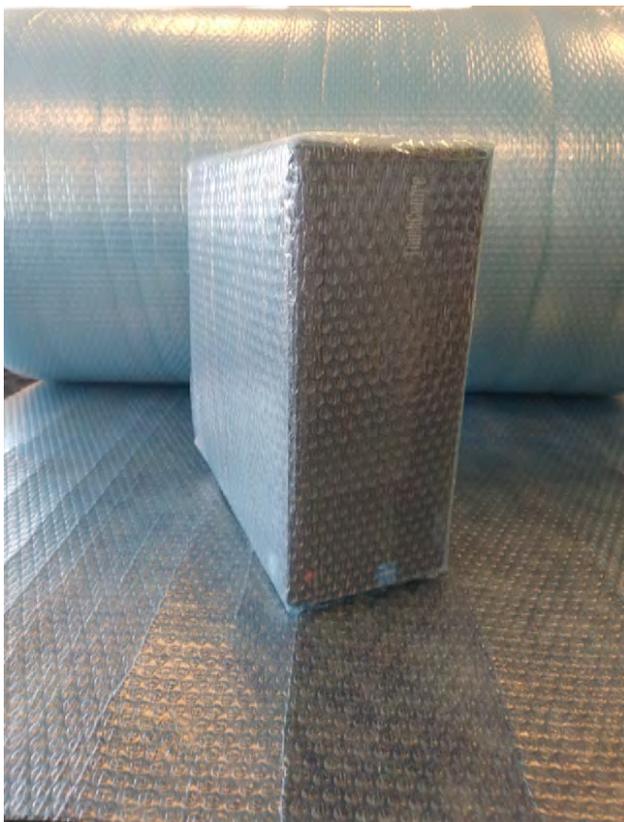
PROTECT YOUR VALUABLE COMPONENTS WITH NEW TRIPLE PROTECTION PACKAGING SOLUTION

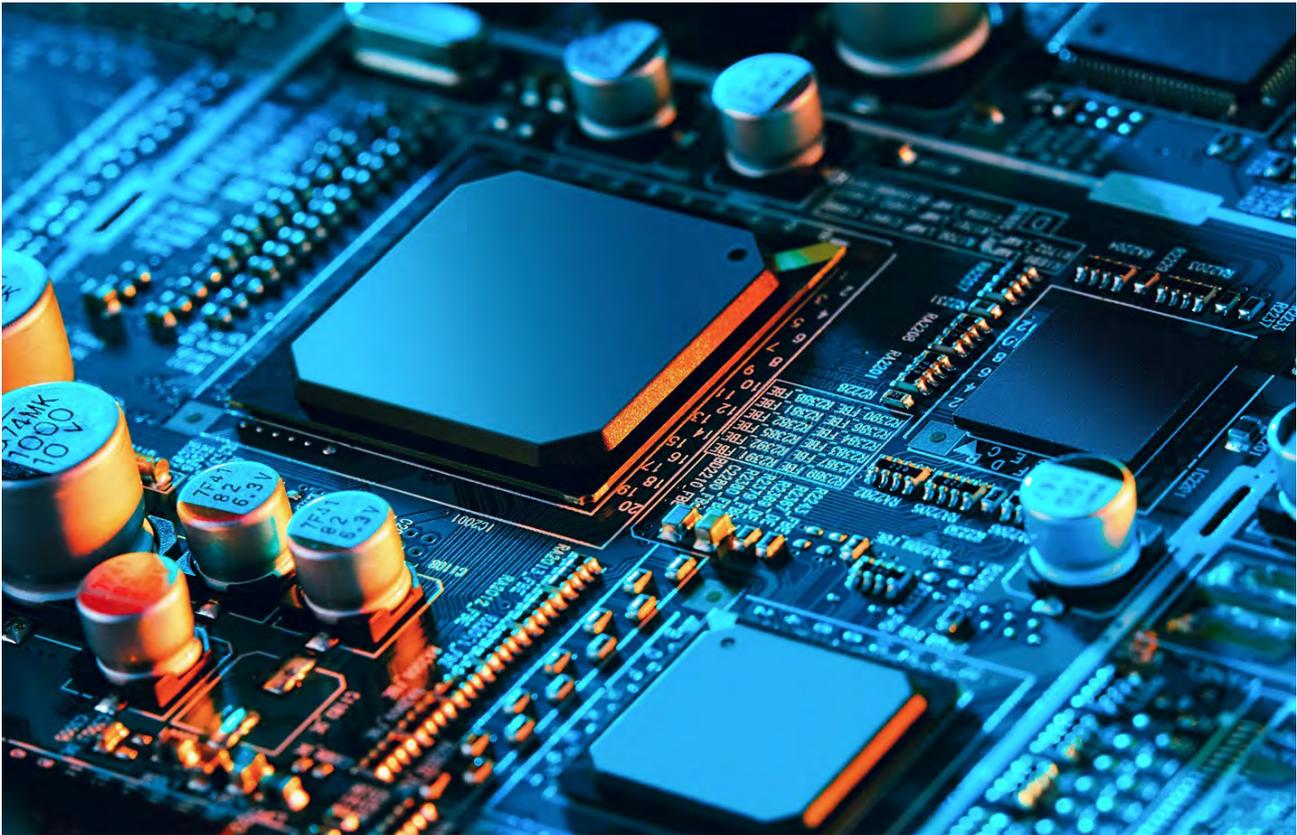
Cortec® Launches EcoSonic® Bubble Film and Bags that Combine Cushioning Packaging with Permanent ESD protection and VpCI® Corrosion Protection Technology

ESD managers in the electronics industry are well-aware of the critical threat electrostatic discharge poses to electronic equipment. Did you know that you can shield your components from both ESD and corrosion at the same time? Cortec® Corporation's European plant, EcoCortec®, launched EcoSonic® VpCI®-125 HP Permanent ESD Bubble Film and Bags powered by Nano VpCI®. They combine vapor phase corrosion inhibitors with cushioning packaging bubble

bags and permanent ESD protection to protect sensitive electronic equipment from corrosion, physical damage, and the creation of triboelectric charges. This innovative packaging solution provides comprehensive protection for electronics throughout the manufacturing, shipping, and storage processes.

EcoSonic® VpCI-125 HP Permanent ESD Bubble Film and Bags work by saturating the enclosed airspace with Vapor phase Corrosion Inhibitors that form a protective molecular layer on all packaged metals without leaving behind a noticeable film or residue. The bubbles serve as cushioning, dunnage, and void fill material. Why combine corrosion and permanent ESD protection in a single bubble bag? Consider this: electronics are complex and sensitive components that often contain multiple metal types within a single unit. Any discoloration, let alone corrosion, can lead to rejection by end users due to the potential for failure. While dry environments pose small





risk, shipping electronics across continents or exporting them worldwide exposes them to unpredictable and extreme conditions—fluctuating temperatures, humidity, and even condensation. This creates a fertile ground for corrosion within the electronics package. And let's not forget the high costs and logistical challenges of climate-controlled warehousing in hot, humid climates. By combining corrosion protection with ESD packaging and bubble wrap, you're combating three threats at once. It's a more convenient and efficient solution that ensures your valuable electronics arrive at their destination safe and undamaged.

Where to Use EcoSonic® VpCI-125 HP Permanent ESD Bubble Film and Bags

EcoSonic® VpCI®-125 HP Permanent ESD Bubble Film and Bags are recommended for packaging integrated circuits, printed circuit boards, PCB components, telecommunications equipment, electronic and electrical panels and enclosures. Fragile or static-sensitive components where triboelectric charge generation and corrosion are concerns will receive full protection.

EcoSonic® VpCI®-125 HP Permanent ESD Bubble Film and Bags meet NACE TM0208-2018 “Vapor Corrosion Inhibiting Ability” standard for corrosion protection as well as German TL-8135-002 standard for corrosion protection. They are available by prompt delivery to our customers worldwide from EcoCortec® plant located in Croatia.

Film and bags are available in custom-size rolls, sheeting, or heat-sealed bags.

- Please contact EcoCortec® for more information and minimum quantity requirements.
- You can find out more about EcoSonic® VpCI®-125 HP Permanent ESD Bubble Film and Bags here: <https://ecocortec.hr/eng/ecosonic-vpci-125-hp-permanent-esd-bubble-film-and-bags>

Keywords: corrosion protection, ESD bags, ESD protection, EcoCortec, Cortec Corporation, electrostatic discharge, VCI film and bags, ESD bubble bags, electronics industry, corrosion inhibitors, electronics packaging

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ROTOPRINT, PACKAGING FIRST AID SINCE 1978

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

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

Rotoprint specializes in graphically modifying pre-printed packaging, whether in formats (tetrapack, 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

*Before Overprinting /
Prima della Sovrastampa*



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.

*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



BERRY GLOBAL UNVEILS NEXT-GENERATION BONTITE SUSTANE STRETCH FILM WITH 30% PCR

Berry Global's flexible films division is set to unveil the latest addition to its Bontite® Sustane™ Stretch Film portfolio at Packaging Innovations in Birmingham on 12-13th February – now featuring 30% certified post-consumer recycled (PCR) content.

Bontite is a range of technically advanced blown stretch films offering exceptional holding force to ensure palletised goods remain secure throughout transit. Providing strength, puncture resistance, and load stability, Bontite films are a prime solution for a range of industries including logistics, food and beverage, construction, retail, manufacturing, pharmaceuticals, and e-commerce.

The range includes films made from virgin materials as well as the Bontite Sustane portfolio, which utilises various types of recycled plastic. At the heart of this latest advancement is Berry's commitment to developing high-performance packaging solutions that align with circular economy principles. The integration of 30% certified post-consumer recycled content, which helps to reduce the reliance on virgin plastic, combined with stretch film's ability to be recycled post-use (Recyclable where PE film collections exist), supports this goal.

The use of PCR content in stretch films often presents technical challenges, from maintaining consistent strength and elasticity to ensuring load stability. However, through continuous investment in research and product development, Berry has successfully overcome these challenges to deliver the reliable performance and protection their customers have come to expect.

In addition, Berry works closely with its customers to help them optimise their packaging process – helping to re-engineer wrap patterns, select the ideal film thickness, and

fine-tune machine settings to minimise costs and maximise load stability.

“Stretch films are a critical component in the packaging process, keeping goods secure and protected throughout the supply chain.” said Gabrielle Ditsch, Sales Director at Berry Global's European Flexible Films business.

“Our new Bontite Sustane Stretch Film incorporating 30% PCR content demonstrates Berry's commitment to sustainability and innovation. By incorporating PCR, we can help to reduce the environmental impact of packaging while delivering an effective solution that safeguards products, reduces waste, and supports circular economy goals.”

Berry Global continues to push the boundaries of technical performance and operational excellence, reinforcing the vital role that high-quality stretch films play in modern packaging.

www.berryglobal.com



FACEGLOSS PACKAGING COMBINES RECYCLABILITY AND AESTHETICS

Quadpack supports the new cosmetic brand with a complete range of packaging

Launching a new cosmetic brand in such a competitive market is no easy feat. facegloss appeared on the scene in October 2023 with a full range of skincare products. Four months later, the Spanish brand found itself at the top of the charts, acclaimed on social networks and high-profile media. A key factor in its success is the beautiful recyclable packaging developed by the international cosmetics packaging manufacturer and supplier Quadpack.

Anna Arbós – founder, cosmetic coach and “skinfluencer” – already had a loyal following on social media as “Glow by Anna”. Creating facegloss was the realization of a dream; Anna has brought together all her knowledge in the creation of a range of highly performing and affordable skincare products, aimed at the millennial audience. With €220,000 in funding and the right partner network, they turned to Quadpack for the packaging of various products such as Cloud cleansing mousse, Chill toning and emollient spray, Superglow antioxidant serum, Glasskin all-in-one serum and the Feels Like Water moisturizing cream.

Quadpack has created a simple and refined range, in different formats, customizing some of its flagship items such as the Skin-Up bottle and the Regula glass jar as well as an excellent foamer and a nebulizer spray. The caps and pumps were decorated with a pastel lilac injection while the

QUADPACK

bottles and jars remained transparent but with a light touch of color, to highlight the formula inside.

For facegloss, sustainability is a fundamental factor, a part of its philosophy and its way of being. The packaging materials – polypropylene (PP), polyethylene terephthalate (PET) and glass – were in fact chosen based on their recyclability.

Arbós said: “facegloss has been incredibly well received. We already have loyal consumers who appreciate the brand not only because it offers high quality products but also for its aesthetic image and spectacular packaging. As we always say, these are the products that you want to have in your bathroom.

“Our packaging is absolutely beautiful. Even though we were clear on what we wanted, Quadpack helped us from the beginning to consider the best options, always supporting us and offering us the best quality. Their professionalism and closeness to an emerging brand like ours is it was flawless!”

www.quadpack.com

SECTORS

✓ PACKAGING

✓ COSMETICS



FIORINI INTERNATIONAL: THE PARTNER FOR SUSTAINABLE PAPER PACKAGING SOLUTIONS

Fiorini International produces small and medium paper bags for international customers in the human food and pet food industry, agriculture, chemical industry, hygiene and personal care segments and for global leaders in large-scale distribution: a range of products and finishes that supplies a flexible solution to every need.

Achieving excellence by focusing on the continuous improvement of quality of products, services and processes and designing a sustainable production model to ensure environmental and human respect are the main values that drive the definition of the strategies and everyday actions.

A constant consolidation of the market share and the new challenging opportunities in the packaging industry have been the main drivers for Fiorini International to become a strategic partner in the Drive to Paper process and in the design of sustainable packaging solutions, fully and easily recyclable, compliant with existing filling technologies, according to the European directives.

In order to measure and evaluate sustainability and performance and design the path for a sustainable development, Fiorini International has started its sustainability performance assessment with a series of activities focused on minimising environmental impact and to creating awareness of sustainability culture, offering solutions

and answers to the community and engaging the entire company network, supporting by a strategic scientific partner Università Milano Bicocca and Toroto, a leading environmental company.

The company commitment to sustainability development has been awarded with the Leader in Sustainability 2023 award: the important acknowledgement is the result of a research by Il Sole 24 Ore and Statista that examined about 1,500 Italian companies based on 45 key sustainability environmental, social and economic indicators.

The continuous analysis of trends and consumer habits, and the ongoing research into technological solutions and innovative materials have aided an organic and rapid growth in the packaging industry, leading the company to successfully diversify production, while firmly maintaining the eco-friendly commitment to the exclusive use of paper, FSC certified in compliance with the forest chain of custody and ecosystem.

Made up of 2 manufacturing companies, located in Italy and the Czech Republic, and 2 trading companies operating in France and China, Fiorini International stands out as a worldwide production, commercial and logistic network.

www.fiorinint.com



LAWER: AUTOMATIC WEIGHING SOLUTIONS FOR THE COSMETICS INDUSTRY

Lawer - The ideal partner for cosmetics manufacturers

Accurate monitoring of the preparation process of recipes for the cosmetics sector, repeatability, traceability and, above all, safety in the handling of powder products are fundamental elements for an efficient preparation process, for quality control and safety of the working environment.

Lawer supports cosmetics manufacturers with automatic powder weighing systems, which eliminate risk factors such as weighing errors and contact with dangerous.

Depending on the customer's needs, there are 3 solutions available: **SUPERCOLOR ID-TAG**, **TD-MATIC** and **COS-LAB**.

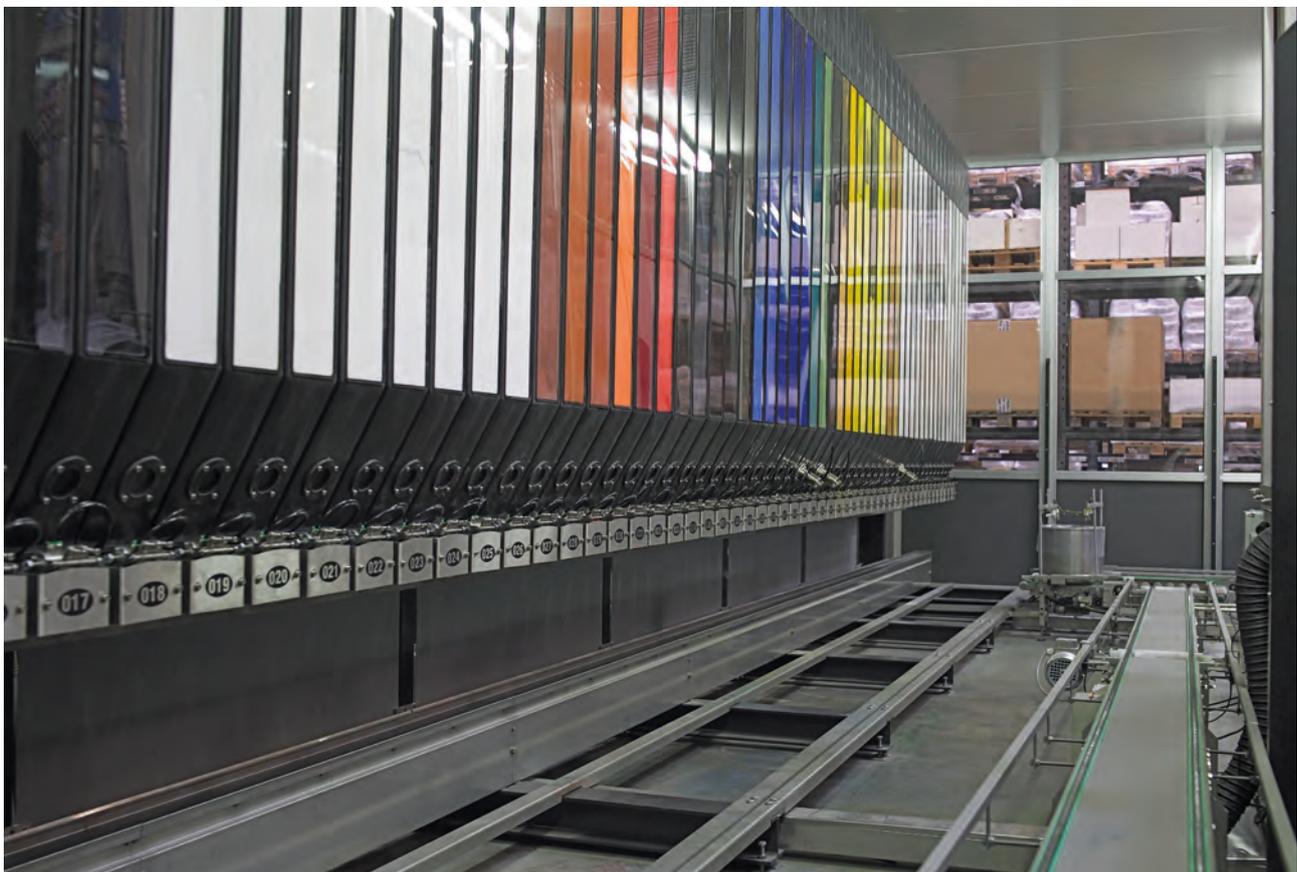
SUPERCOLOR ID-TAG is a fully automatic weighing system, which enables safe and clean preparation of pow-

dered recipes. The system consists of a series of independent storage silos, standard 150 l or double 300 l. Each silo is equipped with an efficient combined screw/vibration dispensing device (Lawer patent), which allows powder to be dispensed quickly and accurately.

Loading/unloading is monitored by the ID-TAG system, which allows for perfect traceability of recipes. T

he system is protected by a box, which guarantees complete insulation of the system and safe use in case of toxic powders.

An efficient suction/filtering device ensures maximum safety of use and a clean working environment.





TD-MATIC is a laboratory system that weighs small amounts of powder, supporting the preparation of samples for the laboratory.

- Accurate micro-weighing of powders
- Robotic handling of glasses-silos
- Stainless steel glasses for automatic weighing
- 2.7 l mini-silos for product storage
- Electronic scale with resolution 0.001 g
- Fully isolated work area



COS-LAB is an automatic and compact system for the preparation of creams, used in dyeing tests on synthetic or natural hair strands. The machine automatically weighs powders to the tenth of a thousandth of a gram. The glasses with the prepared creams are automatically made available to the operator in the parking lot, which can accommodate up to 6 glasses.

- Accurate micro-weighing of powder dye
- Robotic handling of glasses-silos
- Automatic dissolution and heating
- Fully insulated working area thanks to polycarbonate protection panels
- Perfect environmental and safety conditions
- Compact machine, perfect for laboratories

Founded in 1970, Lawer is an Italian company specialized in industrial weighing systems. It has developed advanced technologies and know-how in the automatic weighing of powder and liquid products, with single or multiple scale weighing systems.

The key factors that have contributed to the growth of the company are linked to the verticalized production process, which considers every single mechanical component produced as a fundamental part of quality, to the centrality of each individual who participates in production, essential for the quality of the finished product, and to the constant investments in safety and improvement of the working environment.

www.lawer.com



SECTORS

COSMETIC



TRANSFORMING THE FOOD SUPPLY CHAIN: HOW TOSCA'S REUSABLE PACKAGING SOLUTIONS TOUCH EVERY MEAL

In a world where supply chains are the invisible life-line delivering food from farm to fork, the pressure on companies to have a compliant, food safety fit-for-purpose solution, increase efficiency, cut waste and boost sustainability has never been greater. Tosca, a global leader for 100% reusable and recyclable plastic packaging and pooling solutions, plays a crucial role in reshaping the modern food supply chain, ensuring that every meal begins with smarter logistics and ends with satisfied, sustainability-conscious consumers. From producers and processors to distributors and retailers, Tosca's solutions touch every stage of the journey, supporting safer handling, reducing waste, and helping businesses meet rising demands for performance and responsibility. In today's food supply chain, the right packaging choices are proving more essential than ever.

"Tosca's mission is to eliminate waste and unlock hidden value across the supply chain," says **Jurgen Van Roy**, Vice President of Supply Chain. "From reducing packaging waste to increasing the durability and

safety of assets, our model enables businesses to operate more sustainably while enhancing their operational performance."

Safer, cleaner, smarter: packaging built for food integrity

Today's consumers care not only about what they eat but also about how it gets to their table. Transparency, traceability and sustainability are no longer optional.

Tosca's technology-driven solutions support these goals by enabling clear traceability of products and reducing food waste through more stable and hygienic load carriers.

Marco Gonzalez, Managing Director of Central Europe Downstream, notes: "Customers want to know that their food is safe and sustainably sourced. Our reusable plastic pallets and crates are not only more durable and hygienic, but also designed to prevent damage and contamination. That's critical for preserving food safety and quality."

By helping retailers eliminate food waste resulting from damaged packaging or spoil-



Jurgen Van Roy





age, Tosca plays a crucial role in meeting ESG goals and reinforcing consumer trust. Whether it's meat, dairy, produce, or packaged goods, Tosca provides customisable solutions that are aligned with each product's unique needs and handling requirements.

Driving efficiency from the ground up

Food supply chains are complex, spanning thousands of kilometres and involving multiple stakeholders. At every link, Tosca's packaging solutions provide an infrastructure that is both standardised and flexible, allowing retailers and producers to scale without compromising quality. One of the clearest benefits of Tosca's approach is its impact on logistics. By using foldable, stackable, and standardised assets, customers can significantly reduce transportation costs and maximise the use of truck space. More impressively, Tosca's pooling system slashes "empty miles" – trips where trucks return with unused capacity.

Vincent Nagels, Managing Director of Upstream, points to a real-world case: "We had a customer in Denmark sending pallets to Spain, and instead of returning those pallets empty, we now collect them locally and deliver them to another customer in Spain. This simple switch has led to a huge reduction in carbon emissions and transport costs."

Tosca's customers also benefit from improved asset visibility and inventory control. In markets such as Central Europe, where Tosca's RFID and IoT technologies are already in place, customers have access to real-time tracking data that enhances pool transparency and reduces the need for buffer stock, lowering working capital requirements. This leads to greater predictability,



Vincent Nagels

fewer surprises, and more strategic planning. From passive RFID tracking to active IoT monitoring, Tosca's asset tracking capabilities are designed to evolve with customer needs. The company continues to invest in these technologies as part of its broader commitment to smarter, more responsive supply chains.

Sustainability through circularity: Tosca's closed-loop approach

Reusable packaging is inherently sustainable, but Tosca takes it a step further by embedding circular economy principles into every layer of its business. Instead of relying on single-use packaging that ends up in landfills and drains resources, Tosca's plastic-based assets are designed for durability, and when they reach the end of their usable life, they are recycled and reborn.

"Our entire model is circular," says Jurgen Van Roy. "We collect assets, inspect them, repair if needed, and clean them thoroughly with food-approved detergents. If an asset is beyond repair, it's recycled and reintroduced into the system. No plastic is wasted, and the loop is fully closed." This closed-loop approach results in tangible environmental benefits. Tosca's pooling model reduces packaging waste, cuts down carbon emissions, and helps customers comply with evolving legislation across Europe, such as the upcoming Packaging and Packaging Waste Regulation (PPWR).

A powerful, complete solution across the supply chain

What sets Tosca apart is its ability to apply this circular approach across the entire supply chain, offering a complete, reusable packaging solution from producer to retailer



that delivers both operational value and environmental benefits.

As Vincent Nagels explains, Tosca is vertically integrated, which means it manages all the value contributors across the entire supply chain. “We are uniquely able to combine our upstream and downstream products to create a powerful, effective returnable packaging for our customers, ranging from small-medium companies to one of the largest European FMCGs and retailers.”

Innovation that never stops

Innovation is at the heart of Tosca’s identity. With a dedicated team focused on product design, material science and digital technologies, the company continues to push the boundaries of what reusable packaging can achieve. “We’re not just reacting to change; we’re anticipating it,” says Jurgen Van Roy. “Our innovation team looks at how to improve the strength and durability of assets, how to make materials more sustainable, how to embed technology like tracking to create smarter, more responsive systems.”

Automation is another area where Tosca is anticipating evolving needs. As warehouses become increasingly automated, the consistency and reliability of plastic pallets become critical. As Marco Gonzalez explains, “plastic load carriers are much more suitable because they maintain their shape, weight, and integrity across multiple uses, which is essential for reliable handling by machines and AI systems.”

A trusted partner in transformation

Tosca’s value extends beyond products. At its core, the company operates as a strategic partner, working closely with customers to assess their needs, identify opportunities for efficiency, and develop long-term solutions. This collaborative approach sets Tosca apart in a crowded marketplace.

“Customers approach us because they see us as experts in reusable plastic packaging. They come to us for our in-



Laurent Le Mercier

sights. Whether it’s reducing costs, increasing food safety or adapting to new legislation, we work hand-in-hand to find the best way forward,” says Vincent Nagels

Laurent Le Mercier, EMEA President, concludes: “We value long-term relationships with everyone in the supply chain – from carriers and retailers to third-party wash centres and recyclers. It’s only through close partnerships that we can continuously im-

prove and evolve together.”

As the pressures on the global food supply chain grow, Tosca’s reusable packaging solutions become vital and transformative.

About Tosca

Tosca is a global leader in reusable plastic packaging and performance pooling solutions. Committed to driving sustainability and innovation across industries, Tosca focuses on supplying innovative packaging solutions for a wide variety of industries.

Tosca’s end-to-end pooling capabilities offer a smart and sustainable solution for growers, suppliers, and retailers. By utilising reusable containers and pallets, Tosca not only reduces costs but also enhances supply chain performance.

For further information about TOSCA, visit www.tosca ltd.com



tosca[®]

SECTORS

✓ **POOLING**

✓ **AUTOMATION**

✓ **PACKAGING**





CONVEYORS

MH is an Italian Company with 30 years of experience in engineering and building conveyor lines for food packaging. It's product portfolio goes from conveyors for machine connection, elevators, mergers and whatever accessory may be needed to realize a turnkey plant.



MODUL-FLEX



BUFFERING SYSTEMS

MH is specialized in buffering solutions LIFO zero pressure both with single or double spiral for packaged product or FIFO with multiple belt for the naked one.



BAT BUFFER

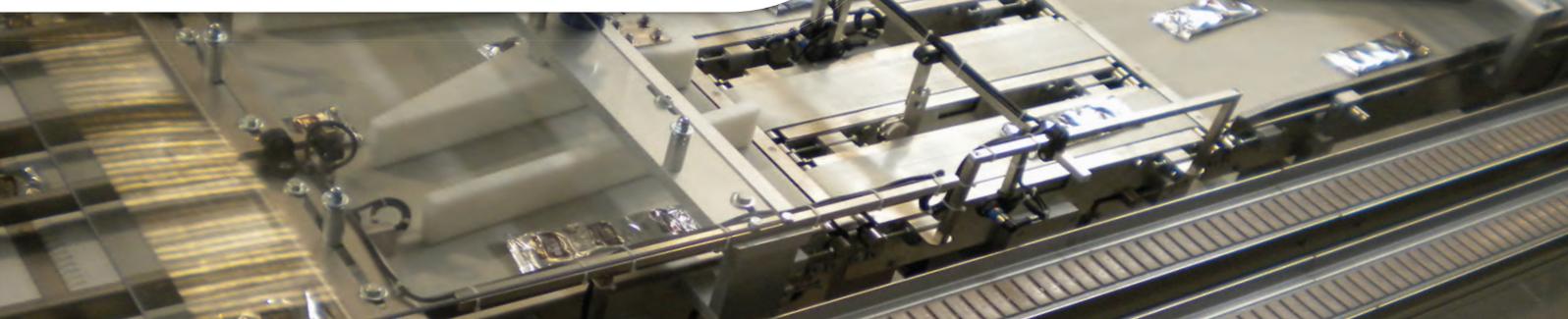


MERGERS & DIVIDERS

In order to comply with the increasing productivity rate and speed of packaging lines MH developed a set of dynamic mergers & dividers in achieve the correct distribution of products between the primary and secondary packaging machines.



MERGER DU32



DISCOVER THE POWER OF GS1 DIGITAL LINK WITH MARKEM-IMAJE AT FACHPACK



markem·imaje

a **DOVER** company

Markem-Imaje, a global leader in innovative product identification, packaging intelligence, and connected product solutions, invites FMCG brands and retailers to discover the benefits of GS1 Digital Link at FACHPACK. At stand 3C-531, Markem-Imaje experts will demonstrate how the next generation of QR codes can enhance production efficiency, improve supply chain transparency, streamline inventory management and boost brand loyalty.

With ever-changing global regulations—such as the EU Digital Product Passport, Digital Deposit Return Schemes and the U.S. Food Safety Modernization Act—accelerating the shift to 2D barcodes, forward-thinking manufacturers are looking for solutions that go beyond compliance to deliver measurable business benefits.

The Digital Link, powered by GS1 – a global organisation for data compliance, is the next evolution of barcode technology. It connects the GS1 application identifiers for a specific product, such as the Global Trade Item Number (GTIN), batch number, best-before date and serial number, to the internet. The Digital Link enables real-time access to both B2B and B2C information. From traceability and authenticity to sustainability data and ecommerce links, the GS1 Digital Link barcode transforms packaging into a digital gateway, delivering value across the supply chain.

“The GS1 Digital Link barcode connects brands, retailers and consumers in a powerful ecosystem, unlocking new possibilities,” says Viktor Hermansson, Marketing Director at Markem-Imaje. “While 1D and 2D barcodes will co-

exist for some time, our mission is to support industry players through this transition with ease—from compliance to genuine consumer engagement.”

All data in one place

Today’s packaging is often cluttered with multiple codes—a 1D barcode for POS and separate QR codes for promotions or consumer engagement programmes. This creates confusion and inefficiencies. The GS1 Digital Link consolidates this into a single QR code that supports POS systems while enabling dynamic digital content. The result? Simplified packaging, reduced complexity and enhanced scalability.

- Retailers benefit from POS compatibility, inventory accuracy, waste reduction and dynamic pricing
- Consumers gain instant access to product details, sustainability credentials and offers
- Brands streamline traceability, regulatory compliance and recall management
- Marketers unlock personalised content, real-time engagement and first-party data

Build consumer trust with connected packaging

The GS1 Digital Link creates a direct connection with the consumer. One scan can deliver a fully branded, interactive experience, including ingredient origins, nutritional in-



markem·imaje
a **DOVER** company





formation, certifications, batch and expiry data and more. Brands can enrich this experience with recipes, loyalty rewards, recycling guidance and ecommerce promotions, turning each package into a powerful engagement tool.

See it in action at FACHPACK

Markem-Imaje experts will be on hand at booth 3C-531 to demonstrate how brands and retailers can successfully implement and scale the GS1 Digital Link technology.



Visit the Markem-Imaje website to learn more about the GS1 Digital Link.

www.markem-imaje.com

SECTORS

 LABELLING

 PACKAGING

 CODING



MONDI ENABLES LABEL-FREE PACKAGING OF 35,000 PARCELS PER DAY FOR KOMSA WITH HIGH-PERFORMANCE DIGITAL PRINTING

- Mondi supplies a packaging solution with integrated digital printing that allows KOMSA, one of Germany's leading IT distributors, to ship up to 35,000 parcels per day without adhesive labels.
- The printed barcodes on the corrugated packaging reduce the use of materials, improve operational efficiency and support more sustainable logistics processes.
- The solution is part of Mondi's expanded digital printing offering, enhanced by the acquisition of Schumacher Packaging, and is designed for customised, high-volume applications.

Mondi, a global leader in sustainable packaging and paper, has expanded its portfolio with a high-performance digital printing solution, enabling customised, high-volume packaging following the acquisition of Schumacher Packaging's Western European operations. KOMSA, a leading distributor for digital infrastructure in Germany, has been using this option to print consecutive barcodes directly onto cor-

rugated board packaging, without additional labels or manual labelling.

KOMSA dispatches up to 35,000 parcels daily, making efficiency critical to maintaining next-day delivery. One key improvement has been the integration of consecutive barcodes directly onto the packaging using Mondi's high-performance digital printing solution.





Across KOMSA's packaging line, 60 scanners identify and allocate each parcel. Previously, barcodes were applied using label dispensers. Now, they are printed directly onto the packaging – precisely positioned and visible on all four sides. This approach reduces lead times, lowers costs and minimises the risk of errors.

“The collaboration with Mondi is a real benefit for us – technologically, economically and strategically”, summarises Harald Josef Ollinger, Vice President Marketing & Communications at KOMSA. “We are not only making our logistics processes more efficient, but also more sustainable.”

Mondi's high-performance digital printing enables customised barcodes and complex print images in high-resolution without the need for printing plates or clichés.

The process uses water-based, food-compliant inks, and offers maximum flexibility. Series, seasonal campaigns, regional designs and individualised QR codes can be produced in a single production run with short lead times and faster time-to-market.

www.mondigroup.com



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SINGLE-USE PACKAGING: ENVIRONMENTAL PROBLEM OR UNAVOIDABLE NECESSITY?

In recent years, the issue of single-use packaging has been at the center of heated debate. On one side, there are growing concerns about the environmental impact of these materials, often made of non-recyclable plastic and destined to end up in landfills or, worse, in the oceans. On the other side, many companies and consumers defend their utility and practicality, highlighting how single-use packaging offers quick, economical, and hygienic solutions, especially in sectors like food and healthcare. This tension between sustainability and practicality raises a crucial question: is single-use packaging an insurmountable environmental problem or still an unavoidable necessity?

One of the main arguments in favor of single-use packaging is its ability to ensure safety and hygiene. This aspect is particularly relevant in areas such as catering, healthcare, and the food industry, where protection against contamination is a top priority. During the COVID-19 pandemic, for example, the use of single-use packaging increased significantly to meet the growing demand for takeout food and the need to contain the spread of the virus. The convenience of single-use allowed many businesses to continue operating safely, providing consumers with the reassurance of purchasing protected and risk-free products.

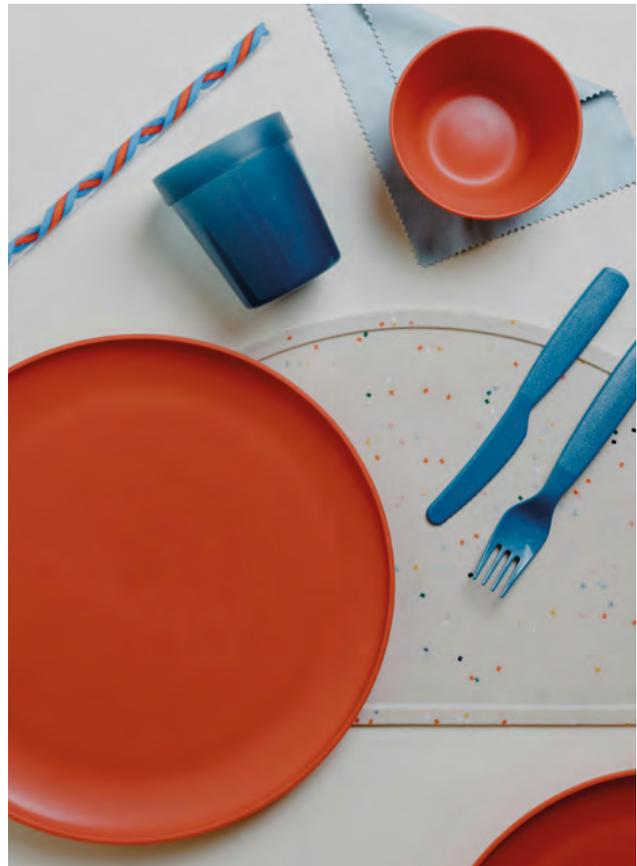
At the same time, the production of single-use packaging is deeply rooted in market logic. Their relatively low cost and ease of production make them an attractive choice for businesses, especially in sectors with narrow profit margins where cost optimization is key. Fast food chains, food industries, and even consumer goods manufacturers have relied on this type of packaging for decades to ensure fast, accessible service to a broad audience. Moreover, the lightweight nature of these materials helps reduce transportation and storage costs, a crucial factor in a globalized economy that demands rapid and efficient movement of goods.

However, the environmental damage caused by single-use packaging cannot be ignored. According to the latest data, a significant portion of plastic waste found in the oceans comes from single-use packaging, with devastating effects on marine ecosystems. Every year, millions of



by Our Editorial Team

tons of plastic end up in the seas, suffocating marine life and compromising water quality. The problem is not just aesthetic or related to biodiversity: this waste degrades slowly, releasing microplastics that enter the food chain and, eventually, our bodies. The long-term effects of this contamination are not yet fully understood, but early research suggests potentially serious consequences for human health.



All images: pexels.com





In an effort to address this problem, many companies are exploring alternative solutions, focusing on recyclable or biodegradable materials. Paper, cardboard, bioplastics, and other compostable materials are gradually replacing conventional plastic in various sectors. International regulations are also trying to encourage this transition: for example, the European Union has introduced a series of restrictions on the use of single-use plastics, aiming to drastically reduce the production and consumption of these materials in the coming years. These measures, along with growing consumer awareness, are leading to a slow but significant transformation in the packaging industry.

Despite these trends, the shift to a system entirely free of single-use packaging is neither simple nor immediate. Alternative solutions still present various limitations. For example, biodegradable materials, while promising, require specific disposal conditions to be truly effective. If not properly managed, they can end up in landfills or the ocean, where they do not decompose as expected. Additionally, the production and distribution costs of these new materials are currently higher than those of traditional single-use plastic packaging, making widespread adoption less economically viable for many companies.

Moreover, consumer behavior poses another challenge. The convenience of single-use packaging is hard to replace: it is lightweight, easy to use, and does not require special disposal measures. Habits that have been ingrained over the years are difficult to break, and the shift towards more responsible consumption



will require not only technological innovation but also a profound cultural transformation. In this sense, educating consumers will be crucial: raising public awareness about the environmental damage caused by single-use packaging and promoting sustainable alternatives is a fundamental step in fostering more conscious demand.

The future of single-use packaging will therefore depend on the ability to balance sustainability needs with those of practicality and cost-effectiveness.

While it is clear that the packaging industry will have to adapt to a reality increasingly oriented towards environmental respect, it will be necessary to find solutions that do not sacrifice efficiency and convenience.

TRADITION MEETS THE FUTURE: PREO UNVEILS NEW VELA LINE

Approaching the prestigious 90-year milestone, PREO launches the new Vela series of gluers on the market. The combination of innovative design, modularity, sustainability, compatibility and advanced interconnection makes Vela an ideal choice for companies looking for cutting-edge hot gluing solutions. Every part of the Vela melter has been technologically improved to offer superior performance, as well as more precise control of the gluing process. One of the most distinctive aspects of Vela is obviously its unique, innovative and elegant design. PREO paid particular attention to creating a machine that not only excelled in terms of technical specifications, but was also aesthetically pleasing and functional. The new generation of components used in Vela, starting from the brand new 7" capacitive touch display, ensures uniform heat distribution, reducing heating times and improving the quality of the final product. With Vela, PREO confirms its leading role in the market, offering high-quality technological tools that meet the most demanding expectations, support the



growth and innovation of client companies, promote sustainable practices and ensure efficient integration with existing technologies.

Our history and its evolution

The history of PREO started in 1938 when Mr. Antonio Preo founded "Officine Meccaniche PREO" as a producer of precision and measuring instruments. Thanks to the hard work of the early years, the company expanded in the 1960s and became a reference, also at European level, in the production of high-precision parts for various industrial sectors, including the medical, optical, aeronautical and military industries. Towards the end





of the 1980s, PREO, thanks to its qualified experience and know-how, directed its activities towards the design, production and sale of hot-melt adhesive application systems with the aim of becoming one of the world's leading manufacturers. PREO was the first company on the market to produce gluers which have become true "classics" over time. In just a few years, thanks to the excellent skills acquired from its many years of experience in the aeronautical sector and constant research and development, PREO has established itself in the international arena for the reliability and innovation of its products, and it has become a leader in the development of standard machines as well as in the design of customised solutions and systems.

The company, located on the outskirts of Milan, conducts its business on an area of about 4,000 square meters divided into two large buildings; it has further increased its production in recent years by expanding into the world market through acquisitions and partnerships with foreign companies. Historic results have been recently achieved that have led to major growth in both sales and increased exports. For the first time, 1,000 systems sold and installed in a single year was exceeded, demonstrating how PREO has definitely established and consolidated itself as one of the world's leading and most reliable manufacturers. PREO is the typical Italian medium-sized, highly specialized, ISO 9001-certified company that, making use of a staff of highly qualified technicians and a fleet of the most modern machines, has developed an important all-Italian technical-commercial and produc-

tion structure in the field of hot melt adhesive application machines, further strengthening the image of Made in Italy in the world. Thanks to an extensive distribution network both nationwide and in more than 50 countries, a winning sales policy, and fast and efficient sales and after-sales service, PREO is able to offer the best possible solution to all gluing needs in multiple industries, such as packing and packaging, graphics and printing, bottling, automotive, papermaking, textiles, pharmaceuticals, and many others.

www.preo.it

SECTORS

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✓ PACKAGING

✓ ADHESIVE SYSTEMS



RANPAK DEBUTS CUSTOMIZABLE, ON-DEMAND, PRINTING CAPABILITIES FOR AUTOMATED PACKAGING LINES

The new Print'it!

Box lid printing solution applies individualized designs to boxes, on-demand, enabling automation within multi-brand environments while enhancing marketing performance

Ranpak Holdings Corp. ("Ranpak") (NYSE: PACK), a global leader of sustainable paper-based automated packaging solutions for e-commerce and industrial supply chains, has announced the debut of its new Print'it!™ in-line printing solution. This solution allows customers to print full-color customized designs on up to 15 boxes of varying heights per minute.

The Print'it!™ solution supports personalization opportunities by allowing operators to manage requirements for multiple brands or create emotional connections with end-customers through individualized messages. The solution removes the need for multiple SKUs of branded or pre-printed boxes while enabling downstream box customization and branding within a standardized automation setup: where packaging is right-sized, a lid is applied,



and unique designs are printed without adding additional touchpoints. The Print'it! solution allows custom printing on boxes of varying heights, as well, delivering a unique capability in the market.

Working in tandem with a Cut'it! EVO™ height-reduction and box sealing machine or other lidded box system, it can add custom full-color printed designs to packaging along a single automation line. The ability to support separate branding for individual packages on a single line is an ideal match for third-party logistics providers (3PLs), e-commerce businesses, and other fulfillment parties looking to gain a competitive edge in their packaging presentation, supporting limited time offers, seasonal designs, birthday messages, and more.

“The Print'it! solution unlocks new personalization capabilities for automated packaging lines that are exciting for both operations and marketing,” said Bryan Boatner, Global Managing Director of Automation at Ranpak. “It’s the icing on the cake of the improved total packaging solution that Ranpak Automation delivers for end-customers. And it’s achievable while optimizing efficiency for our clients, helping them consolidate their SKUs and streamline their processes.” The Print'it! solution will also be live on site for demon-



stration at ProMat 2025 and LogiMAT 2025. These trade-show appearances will be the first opportunities for Ranpak customers to see the machine in action after launch. Exhibited alongside other Ranpak Automation solutions including the flagship Cut'it!™ EVO height-reduction solution, visitors will have a chance to see the printing in action as well as how it interacts with other elements of a fully automated end-of-line packaging setup.

www.ranpak.com

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ROBOTIC PACKAGING: ANALYSIS OF AUTOMATION'S TRANSFORMATIVE IMPACT ON PACKAGING

The rapid technology advancements in robotic technology have revolved the packaging industry in recent years. As manufacturers seek major market share and competitive advantages by boosting efficacy and cost reduction, robotic systems emerged as a game-changer solution. Robotic packaging actively offering a wide range of benefits that are reforming product quality and packaging standards.

Why robot packaging?

Precision and repeatability:

Compared to the traditional process, robotic packaging is gaining popularity among manufacturers by providing repeatability and precision. Robotic packaging is programmed to perform the packaging task with accuracy and consistency. By using computer vision and sensors, robotic arms can help manufacturers with a level of accuracy that far exceeds human capabilities. Also, robotic packaging can minimize manual inspection and rework continuing the packaging workflow.

Increased speed and throughput:

The robotic packaging offers impressively greater speed and throughput than manual labor. Robotic arms can work 24/7 with minimal downtime with more significant dexterity than humans.

The lower production cost and faster work capabilities make it the ideal choice for the packaging industry.

Improved Safety:

The workplace safety is a major concern in the packaging industry, where workers are often exposed to repetitive motions and heavy lifting with sometimes hazardous equipment. Robotic packaging eventually provides safety by removing human operators from the most risky tasks. Robotic arms are designed to handle heavy loads and operate in hazardous areas without taking the risk of human injuries. Thus, robotics are significantly reducing costs which are associated with worker's compensation and regulatory compliance.



Flexibility and adaptability:

The inherent flexibility and adaptability are contributing to the growth of acceptance of robotics in packaging. Robotic systems can be programmed and reprogrammed like dedicated packaging equipment by handling a wide variety of products with sizes and packaging configurations. This type of versatility allows manufacturers to respond to changing consumer preferences and trends.

What are the trends in Robotic Packaging?

As packaging lines become more complex and diverse, robots are being designed to handle a broader range of tasks, such as picking, packing, sorting, labeling, and palletizing. This trend is especially prevalent in the food and beverage industry, where robots are being used to handle delicate and perishable products with greater speed, safety, and hygiene. Adoption of collaborative robots. Cobots are designed to be easy to program, operate, and maintain, and can perform a wide range of tasks, such as picking and placing, assembly, and inspection. They are particularly useful in small and medium-sized enterprises (SMEs) that require flexible and affordable automation solutions.

Increasing use of robots in e-commerce and logistics, where they are used to handle the high volumes of packages and parcels that are processed every day. Robots are being used to sort, pack, and transport packages, as well as to perform last-mile delivery tasks, such as loading and unloading trucks and vans. This trend is expected to accelerate as e-commerce continues to grow and consumers demand faster and more efficient delivery options.

Focus on sustainability and environmental responsibility. Robots are being designed to reduce waste, energy consumption, and emissions, as well as to optimize the use of resources such as water and materials. For example, robots can be used to pack products more efficiently, reducing the amount of packaging material required, or to recycle or repurpose waste materials. This trend is driven by increasing consumer awareness and demand for sustainable products and practices.

Introduction of AI in the packaging industry:

“The fusion of AI and robotics into protective packaging systems connotes an innovational step toward smarter, more resilient, and eco-friendly operations, requiring investments in smart machineries and technologies.” – Says Ismail Sutaria, Chief Packaging Analyst.

The packaging industry is evolving with the technological revolution, as artificial intelligence emerges as a needy and powerful innovation and transformation. The advancement in areas such as language processing, computer vision, and reinforcement learning will enable even more sophisticated automation, predictive maintenance, and supply chain optimization.

A quick look at our latest report on AI in packaging

The global AI in packaging market is estimated to be worth US\$ 1,790.8 million in 2024. The artificial intelligence (AI) in packaging market is expected to reach US\$ 23,415.2 million by 2034. It is projected to surge at a CAGR of 29.3% in the forecast period 2024 to 2034. The packaging sector is undergoing significant innovation through partnerships between companies, technology providers, research institutes, and government agencies, focusing on creating integrated solutions, conducting research, exchanging best practices, and resolving regulatory issues in various countries.

What is the future of robotic packaging?

The future of the packaging industry is associated with AI technology by transforming the industry into a more agile, customer-faced, and efficient. As manufacturers embrace the transformative potential of artificial intelligence, the packaging sector is poised to reach new heights of excellence and competitiveness.

Final Thoughts

Robotic packaging has become a game-changer solution for the packaging industry, offering a wide range of benefits such as precision, repeatability, speed, safety, and flexibility. Robotic systems have vastly improved the packaging workflow, increasing efficiency and reducing costs for manufacturers. Additionally, the introduction of AI has further transformed the industry, offering even more sophisticated automation and optimization.

Some recent developments in the packaging industry

In 2021, BEUMER Group was contracted by Helthjem, a Norwegian CEP (Courier, Express, and Parcel) provider, to automate its parcel sorting and distribution process. This partnership is aimed at enhancing the efficiency of Helthjem’s operations and enabling it to deliver a better customer experience. By leveraging BEUMER Group’s advanced sorting technology, Helthjem intends to streamline its parcel handling process, reducing processing times and boosting productivity.

In 2022, Maxpack Machinery LLC has recently launched a revolutionary piece of packing equipment called Leap by Max pack, which is designed to meet the demands of the fast-growing Buy Now, Pay Later market. Leap is a state-of-the-art automation equipment that enables customers to pay for their purchase over time. This innovative technology is offered as premium bundles with 18 interest-free, guaranteed, and credit-free monthly installments. This makes it easier for customers to invest in this equipment without having to worry about the upfront costs, thereby increasing accessibility to businesses of all sizes.

www.futuremarketinsights.com

VETROPACK OPENS FULLY AUTOMATED WAREHOUSE IN BOFFALORA SOPRA TICINO

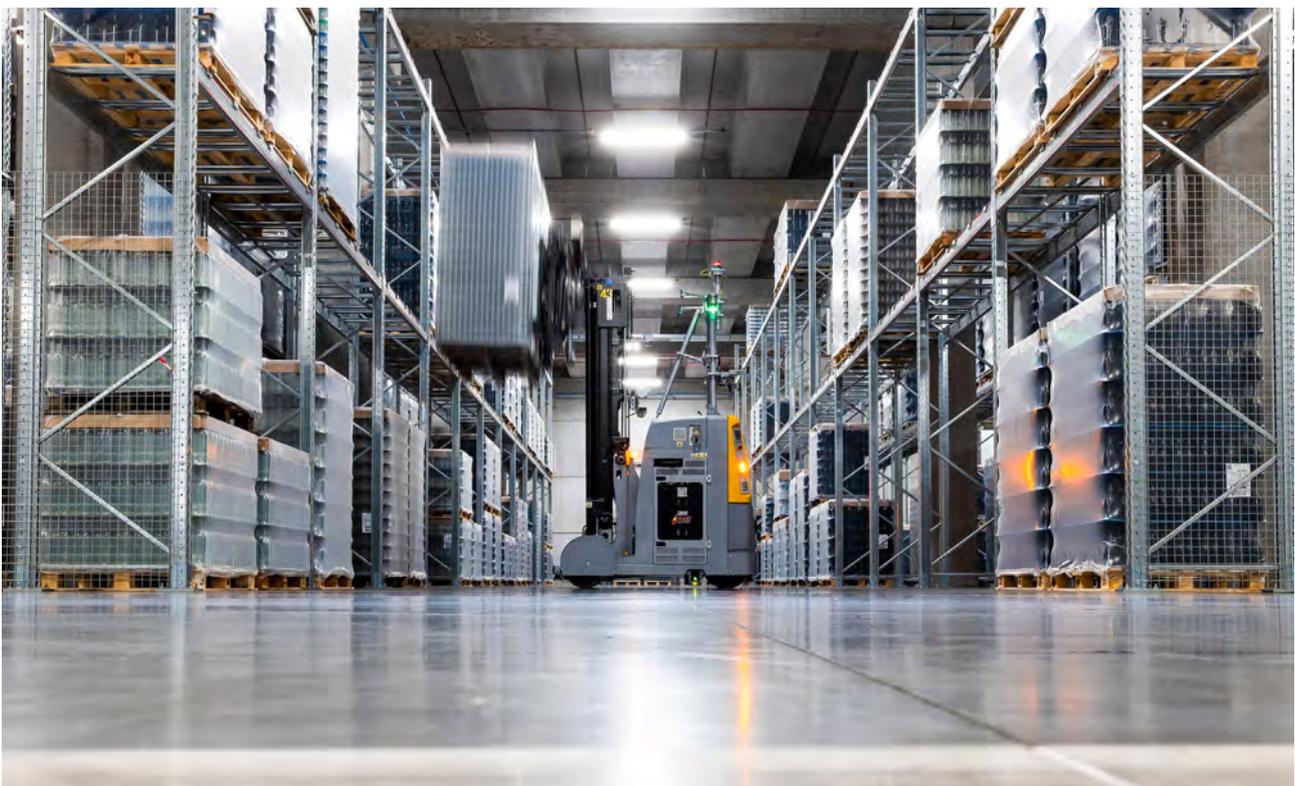
It is a glimpse into the future: Vetropack, one of Europe's leading glass manufacturers, is embracing the full potential of a smart factory in Italy. At its new manufacturing site in Boffalora sopra Ticino, the company operates a state-of-the-art, fully automated warehouse. Customers benefit from shorter lead times and seamless transparency.

The fully automated warehouse is equipped with state-of-the-art technology designed to optimise logistics operations at Vetropack's new site in Italy. It achieves notably higher efficiency in order processing compared to conventional or partially automated warehouses. Thanks to this new system, Vetropack Italia ensures real-time full traceability, enabling immediate responses to any deviations and significantly reduced lead times. Automation also ensures the even distribution of tasks across available resources, helping Vetropack avoid bottlenecks and ensure efficient capacity utilisation.

"In Boffalora, all processes are aligned with the latest technology," says Jaroslav Mikliš, Group Supply Chain Projects and Transformation Manager. This includes the logistics, which were planned using simulations. "In a fully automated warehouse, unnecessary movements are a thing of the past. At the same time, precise data acquisition enables us to control and monitor processes with exceptional accuracy," Jaroslav Mikliš explains further. To ensure smooth operations, the entire system can be remotely monitored.

Maximum safety, more sustainability, no waiting times

Avoiding manual intervention enhances both occupational safety and the quality of secondary packaging: The use of automation technologies and artificial intelligence prevents risky situations as well as damage to secondary packaging. The fully automated warehouse also contributes to Vetropack's sustainability goals. The entire fleet



Vetropack has commissioned a fully automated warehouse at its new 340,000 m2 Boffalora sopra Ticino plant





The system in Boffalora offers shorter lead times, end-to-end control, high operator safety, sustainability, and seamless transparency



“In Boffalora, all processes are aligned with the latest technology,” says Jaroslav Mikliš, Group Supply Chain Projects and Transformation Manager

of vehicles has been equipped with state-of-the-art, low-consumption lithium batteries, which not only reduce the charging cycle durations but also significantly improve the charging process efficiency. “Thanks to our efficient use of the entire area, we are reducing shuttle traffic to other warehouses and will hopefully soon be able to eliminate it completely,” comments Jaroslav Mikliš. The new fully automated warehouse once again exemplifies the positive impact of the ultra-modern and resource-efficient site in Italy on the entire Group.

www.vetropack.com

vetropack 



REVOLUTIONIZING PACKAGING: THE TRENDS SHAPING A SUSTAINABLE FUTURE

These factors are pushing the adoption of new technologies ranging from mechanical engineering to recycling, redefining the very concept of packaging and the materials used.

The focus on sustainability has highlighted the urgency to reduce the environmental impact of packaging. Companies are investing in research and development to create biodegradable, compostable, or recyclable materials that can replace traditional plastics. Among these, bioplastics and fiber-based packaging are gaining traction. These new materials, in addition to being less harmful to the environment, must ensure the same functionality and product protection as conventional materials.



by Our Editorial Team

In recent years, the packaging industry has undergone a radical transformation, driven by efforts in sustainability and regulatory changes.



All images: Freepik.com



Regulations play a crucial role in this transition. The European Union, for instance, has set ambitious targets to reduce plastic waste and increase recycling.

These regulations are forcing companies to rethink their production processes and seek innovative solutions to comply with the new standards. It is not just a mandatory adjustment but an opportunity to demonstrate leadership in sustainability.

Smart designs are becoming protagonists in this context. Technological innovations allow for the creation of packaging that not only protects and preserves the product but also interacts with consumers in an interactive way.

QR codes, smart labels, and integrated sensors provide information about the product, its origin, and recycling methods, promoting transparency and consumer awareness.

These advanced designs not only improve the user experience but also help reduce waste and optimize logistics.

Startups are playing a fundamental role in this packaging revolution. Thanks to their agility and ability to innovate, these young companies are introducing disruptive ideas that are rapidly changing the landscape of the sector. From reusable packaging solutions to tracking technologies for recycling, startups are creating a fertile ecosystem for sustainable innovations.

Collaborations between large companies and startups are becoming increasingly common, as the former seek to quickly integrate the new technologies developed by the latter.

It is clear that the transition in packaging is not just a matter of materials but involves a broader change that encompasses the entire production chain.

Companies must adopt a holistic approach, considering not only the final packaging but also the entire product lifecycle, from production to post-consumption.

This entails investments in new technologies, staff training, and closer collaboration among all stakeholders in the value chain.

The trends in packaging are marking an epochal shift, driven by the need for sustainability and new regulations. The combination of new materials, smart



designs, and the innovative energy of startups is reshaping the future of packaging.

To never miss a trend, companies must be ready to continuously innovate and collaborate for a more sustainable future.



PROD&PACK 2025 PACKED WITH INNOVATION

18–20 November 2025,
Eurexpo Lyon, France – 3rd Edition



As France's largest trade show covering the entire process from manufacturing to palletisation and packaging, Prod&Pack will bring together key players in the production, processing and packaging industries from **18th till 20th November 2025 at Eurexpo Lyon**.

With over 750 exhibitors, it has established itself as a strategic meeting point to support the transformation of industrial value chains, focusing on industrial performance, sustainability and adaptation to new uses.

Among the highlights of this edition: the opening of a new hall, a dedicated AI village, and an exclusive showroom featuring five functional mini-factories, each dedicated to a specific packaging material.

Prod&Pack: The packaged product factory

Located in Lyon, at the heart of France's leading industrial region, Prod&Pack will host over 750 exhibitors (+20% vs 2023), offering concrete solutions tailored to all sectors that use packaging (food & beverage, pharmaceuticals, cosmetics, mechanical engineering, etc.).

Prod&Pack highlights the ongoing transformations in production, industrial processes and packaging sectors. It covers the

entire life cycle of the packaged product, structured around four complementary areas:

- Packaging and conditioning machinery and equipment
- Production and processing machinery and equipment
- Packaging, containers and materials
- End-of-line, handling, storage, shipping and logistics

Prod&Pack fosters business meetings, knowledge sharing, and the discovery of practical solutions. It's the ideal venue to identify new suppliers, explore innovative processes, and rethink industrial flows in an increasingly demanding and fast-evolving environment.

The 2023 edition attracted 15,872 visitors, confirming the growing interest in this event, now a cornerstone of industrial transformation.

2025 Highlights

• AI Village

A new themed area focusing on artificial intelligence, showcasing solutions applied to design, manufacturing processes, sustainability, and distribution. A strategic space to anticipate upcoming technological shifts in the sector.



prod & pack

PACKED WITH INNOVATION

Agri-food • Chemicals • Cosmetics - Pharmaceuticals
E-commerce • Consumer Goods • Logistics

LYON 2025

NOV. 18-19-20

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I PACKAGE

Packaging
and Conditioning,
Machinery and
Equipment

I CONDITION

Packaging,
Containers and
Materials

4 NEW
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• **Mini-Factory Showroom**

This exclusive feature, in an area of nearly 800 m², will present five functional mini-factories, illustrating packaging and conditioning lines using five key materials: wood, plastic, glass, metal, and paper/cardboard.

Key Features

• **Innovation Alley**

Right at the entrance to the show, an immersive exhibition will present tangible solutions for the packaging of the future.

• **The Reuse Village**

Organised in partnership with Réseau Vrac & Réemploi, this themed area will highlight the latest innovations in the reuse sector through demonstrations, practical solutions and expert discussions, in line with the AGEC law.

• **Conferences & National Reuse Conference**

A programme of high-level conferences will provide up-to-date insights into industry challenges. The highlight will be the 3rd edition of the National Reuse Conference, with case studies, testimonials, and ongoing projects.

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Prod&Pack unveils a new identity

To mark its 3rd edition, Prod&Pack is introducing a new identity that reflects the diversity of sectors and industries represented at the show, under the tagline “Packed with Innovation.” The logo has been refreshed, with a stronger emphasis on the D&P symbol. The “D” reflects the duality of the sector, representing both machinery and packaging materials, while the “P” stands for process, also illustrated by the blue beam.

Surrounding this emblem are references to all types of packaged products, from solids to liquids, and a variety of materials, highlighting the wide range of packaging sectors. This new identity embodies the full scope of the exhibition and the industries it serves—food & beverage, pharmaceuticals, cosmetics, logistics, industry, and e-commerce.



PFP EXPO Sino-Pack 2026

中国国际包装工业展

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2026.3.4-6

Area B, China Import & Export Fair Complex,
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Scope of Exhibit

- Smart Packaging Total Solution
- Smart Logistics Equipment and Systems
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- Weighing and Testing Machinery
- Auxiliary Equipment of Packaging
- Laser Marking Machines and Others
- Liquid Packaging Machinery
- Aseptic Packaging Machinery
- Plastics Packaging Machines, Production of Containers
- Flexible Packaging Equipment and Machinery
- Plastics, Paper, Green Pack, Metal, Glass, New Materials and many more...



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FACHPACK 2025: THE FUTURE OF PACKAGING IN TRANSITION



FACHPACK (Nuremberg, 23-25.9.25) is the European trade fair for packaging, technology and processes. Exhibitors cover the entire packaging process chain for industrial and consumer goods: packaging materials, packaging and accessories, bottling and packaging machinery, labelling, marking and identification technology, machines and equipment for the packaging periphery, packaging printing and finishing systems, palletizing technology, intralogistics and services.

With its new slogan: “We create the future”, FACHPACK 2025 will be devoted to the trending topic of “Transition in Packaging”.

Trade visitors come from all packaging-intensive sectors such as food/beverages, luxury food, pharmaceuticals/cosmetics, chemicals, health care, non-food, pet food, other consumer goods as well as automotive, technical articles, medical technology and other industrial goods: www.fachpack.de





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Messe Düsseldorf (Shanghai) Co., Ltd.

Tel: 021-6169 8313 / 8337

Email: visitswop@mds.cn

FOOD AFRICA AND PACPROCESS MEA 2025: POWERING REGIONAL TRADE AND INDUSTRY GROWTH

Returning for their 10th and 6th editions respectively, Food Africa and pacprocess MEA will take place from 9 to 12 December 2025 at the Egypt International Exhibition Center (EIEC). These internationally renowned events have become leading platforms for stakeholders in the food and beverage, processing, and packaging sectors, offering unmatched opportunities to explore business prospects across Africa and the Middle East.

A Unified Platform for Industry Advancement

Food Africa has, over the past decade, positioned itself as a premier gateway to Africa's thriving food and beverage sector. As the continent's population surges towards 2.5 billion by 2050, food consumption and demand are increasing rapidly. Africa's food industry is expected to reach \$1 trillion annually by 2030, and its food imports are forecasted to hit \$90–\$110 billion by 2025. Egypt, strategically located and economically pivotal, continues to lead the way. In 2024, Egypt's processed food sector exports reached \$5 billion,

with top destinations including Arab countries, the EU, and the United States.

In parallel, **pacprocess MEA**, organized by Messe Düsseldorf and a member of the interpack alliance, drives progress in the packaging and processing landscape of the MEA region. As demand for modern, efficient, and sustainable packaging solutions increases, pacprocess MEA offers a specialized platform where global and regional stakeholders converge to showcase innovation and explore new business partnerships.

The 2024 edition of the two events welcomed 1,018 exhibitors from 35 countries and over 31,000 trade visitors from around the globe. Spanning key sectors such as food and beverages, pharmaceuticals, cosmetics, non-food, and industrial goods, the exhibitions support industry transformation by bringing together leading brands, manufacturers, and decision-makers in one dynamic venue.





pacprocess

PROCESSING & PACKAGING

9^{TO}12 DECEMBER 2025

MIDDLE EAST

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Strategic Features Driving Engagement

Food Africa and pacprocess MEA are more than just exhibitions—they are strategic business platforms. Key features include the Hosted Buyers Program, which connects exhibitors with vetted international buyers and decision-makers; the B2B Matchmaking Platform, which facilitated over 5,561 pre-scheduled meetings in 2024 between stakeholders from 64 countries; and a specialized conference that gathers international experts to explore trends, market insights, and sectoral developments.

Where Food, Processing, and Packaging Converge

The synergy between Food Africa and pacprocess MEA reflects the growing interdependence of the food industry with the processing and packaging sectors. Together, these exhibitions offer a comprehensive view of market opportunities and industry advancements, fostering knowledge exchange, commercial growth, and supply chain efficiency across the region.

With Egypt serving as a strategic trade bridge into Africa and the Middle East, these events are uniquely positioned to help companies access one of the world’s most promising growth regions. Whether you’re looking to expand your network, enter new markets, or launch innovations, Food Africa and pacprocess MEA 2025 will offer the ideal environment to accelerate your goals.

Food Africa and pacprocess MEA are proudly organized by **International Fairs & Promotions (IFP)**, **Konzept**, and

Messe Düsseldorf, bringing together their expertise to deliver world-class industry platforms in the Middle East and Africa.

For media inquiries and updates, visit:

- www.foodafrica-expo.com
- www.pacprocess-mea.com



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EXHIBITIONS 2025-2026

PROSWEETS

02-05/02/2025 🏠
COLOGNE

Trade fair on technologies for the confectionery and snack industry.

FRUIT LOGISTICA

05-07/02/2025 🏠
BERLIN

Trade fair on technologies for the fruit and vegetable industry.

BEER&FOOD ATTRACTION

16-18/02/2025 🏠
RIMINI

Trade fair for the beer, food & beverage world.

SANA FOOD

23-25/02/2025 🏠
BOLOGNA

International exhibition of healthy eating out.

SLOW WINE FAIR

23-25/02/2025 🏠
BOLOGNA

International fair dedicated to the good, clean, and fair wine.

MECSPE

05-07/03/2025 🏠
BOLOGNA

International trade fair for the manufacturing industry.

PROWEIN

16-18/03/2025 🏠
DUSSELDORF

International trade fair for wine and spirits.

VINITALY

06-09/04/2025 🏠
VERONA

International exhibition for wine and spirits.

LATINPACK

16-18/04/2025 🏠
SANTIAGO, CHILE

International trade fair on packaging and packing technologies.

TUTTOFOOD

05-08/05/2025 🏠
MILAN

B2B trade fair for the entire agri-food ecosystem.

MACFRUT

06-08/05/2025 🏠
RIMINI

Trade fair for the fruit and vegetable industry.

SPS/IPC/ DRIVES ITALIA

13-15/05/2025 🏠
PARMA

Fair on automation, components, and software for the industry.

IBA

18-22/05/2025
DÜSSELDORF

Trade fair for the bakery and pastry industry.

IPACK-IMA

27-30/05/2025 🏠
MILAN

Trade fair on technological solutions for food and non-food processing and packaging.

MIDDLE EAST 2025/26

GULFOOD

17-21/02/2025 🏠
DUBAI

Fair on hospitality and food products.

DJAZAGRO

07-10/04/2025 🏠
ALGIERS

Salon for companies of the agri-food sector.

IRAN FOOD+BEV TEC

19-22/05/2025
TEHRAN

Fair on packaging technologies.

PROPACK ASIA

11-14/06/2025 🏠
BANGKOK

International exhibition for packaging.

GULFOOD MANUFACTURING

04-06/11/2025 🏠
DUBAI

Fair for the packaging and food & beverage industries.

GULFHOST

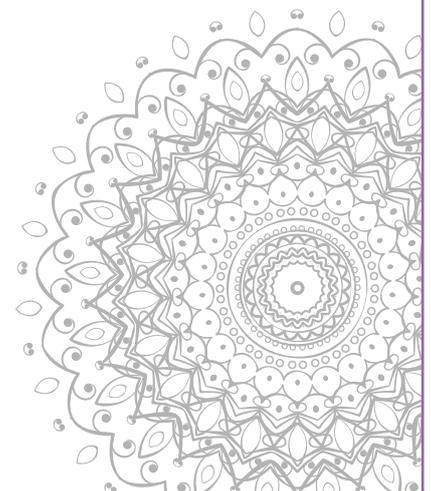
2025 🏠
DUBAI

Hospitality fair for the Middle East, Africa, and Asia.

HOSPITALITY QATAR

2025 🏠
DOHA

Fair on hospitality and HORECA.



EXHIBITIONS 2025-2026

FISPAL

24-27/06/2025 🏠
SAO PAULO, BRAZIL
Trade fair on packaging technologies.

DRINKTEC

15-19/09/2025 🏠
MUNICH
Trade fair for the beverage industry.

SUDBACK

20-23/09/2025
STUTT GART
Trade fair for baking technologies.

POWTECH

23-25/09/2025 🏠
NUREMBERG
Trade fair on technology for powder product processing.

FACHPACK

23-25/09/2025 🏠
NUREMBERG
Trade fair for the packaging industry.

MCTER EXPO

08-09/10/2025 🏠
VERONA
Exhibition on energy efficiency and renewable sources.

SAVE

08-09/10/2025 🏠
VERONA
Fair on automation and instrumentation.

HOST

17-21/10/2025 🏠
MILAN
Trade fair for the hospitality and HORECA sectors.

CIBUS TEC FORUM-LABOTEC

28-29/10/2025 🏠
PARMA
Conference-exhibition on production lines and technologies for the food industry.
Salon for the laboratory and analysis sector.

MARCA

15-16/01/2026 🏠
BOLOGNA
European trade fairs for the private label industry and the International supermarket label exhibition.

INTERPACK

07-13/05/2026 🏠
DUSSELDORF
Fair on production lines, solutions, and materials for packaging.

SIAL

17-21/10/2026 🏠
PARIS
Trade fair on food products.

CIBUS TEC

27-30/10/2026 🏠
PARMA
Fair on technology for the food and beverage industry.

BRAU BEVIALE

10-12/11/2026 🏠
NUREMBERG
Fair on technologies for beer and beverage production.

SIMEI

17-20/11/2026 🏠
MILAN
International exhibition on enology and bottling.

ALL4PACK

23-26/11/2026 🏠
PARIS
International exhibition for packaging.





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12-13

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47822 Santarcangelo di Romagna - RN
Italy

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54/56

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1-4-5

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Italy

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11

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INTERNATIONAL SPA

79

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60012 Trecastelli - AN
Italy

GAMPACK SRL

26/28

Via Piemonte, 1
29122 Piacenza - PC
Italy

GENERAL SYSTEM PACK SRL

GSP

23/25

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36015 Schio - VI
Italy

GL EVENTS EXHIBITIONS

102/104

Via Nizza, 294
10126 Torino - Italy

IFP - INTERNATIONAL FAIRS & PROMOTIONS

109

3rd floor, PG 1776 Bldg,
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II COV-40/42

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Italy

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I COV-9-10

Via E. Fermi, 5
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Nasr City Cairo - Egypt

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49-50

Via Roma, 19
26842 Caselle Landi - LO
Italy

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92-93

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20094 Corsico - MI
Italy

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46/48

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

TECNO PACK SPA

17/19

Via Lago Di Albano, 76
36015 Schio - VI
Italy

VIMCO SRL

29/31

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