

FOOD

PROCESSING

it. MAGAZINE
n° 5-2024

BEVERAGE & PACKAGING

**PROCESS
AND PACKAGING**



PERSPECTIVE

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



NVC NETHERLANDS PACKAGING CENTRE

This PERSPECTIVE comprises three parts:

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

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www.nvc.nl



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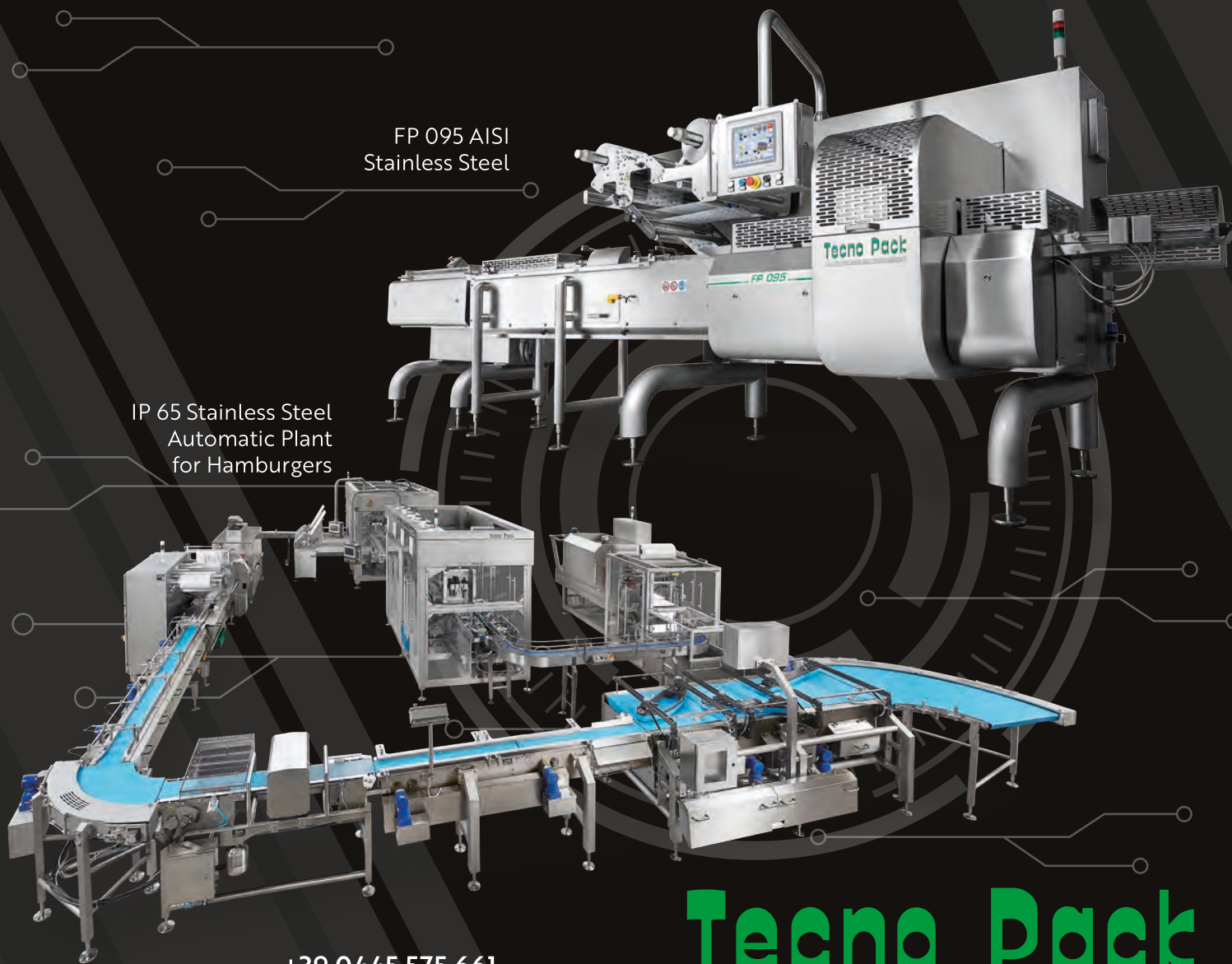
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A. Einstein

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PER LE INDUSTRIE ALIMENTARI



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PROCESSES AND PACKAGING
TECHNOLOGY



PRISMATECH SRL

PRISMATECH CUSTOM SOLUTIONS
FOR BEVERAGE PROCESSING.
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NEWS



MAKRO LABELLING SRL

MAKRO: MODULARITY, FLEXIBILITY. ALWAYS.
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EXHIBITIONS



TARNOS S.A.

TARNOS VIBRATING TECHNOLOGY
FOR PACKAGING PROCESSES
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SONIA V. MAFFIZZONI
Editorial Manager

Packaging in the Food Industry: A Matter of 3Rs

In the world of packaging, the 3Rs – Reduce, Reuse, Recycle – are becoming essential for a sustainable future. In the food industry, where packaging is responsible for 40% of waste according to the European Union, reducing has a significant impact. It's not just about cutting excess but designing lighter and more compact packaging that minimizes waste. It also means rewriting the rules, even aiming for minimal or no packaging at all. New technologies and research help create edible packaging, pushing the boundaries of what's possible. At the same time, the idea of reuse is gaining traction, turning packaging into versatile objects for everyday life. For example, bottles can become vases, boxes can transform into office storage, and jars can be repurposed as garden containers. The possibilities are endless. On the recycling front, bioplastics, extended use of paper, advanced recycling technologies, and smart packaging are set to revolutionize the near future.

The connection between packaging and the 3Rs is not only possible but necessary. This shift is driven by market demand, regulations, and consumer expectations. It's a change already happening, one that must be embraced with commitment.



PROXAUT SRL

PROXAUT'S LIFTERS AND SHUTTLES: SANITISING FOR FOOD PROCESSING IS JUST AN AGV AWAY.

PG. 100-101



FORUM SA

GLOBAL PACK GREECE 2025: THE TOP-RATED GATHERING OF THE PACKAGING WORLD.

PG. 114/116

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CHAMBER OF COMMERCE



NVC NETHERLANDS PACKAGING CENTRE



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skype™: editricezeus

Editrice Zeus:  

**Machineries, plants and equipment
for food and beverage industry**

year XXXV - issue n. 5 - November 2024

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in partnership with:

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printing

ZEUS Agency

Italian Magazine Food Processing

Europe: single issue: Euro 25

Annual (six issues): Euro 120

Outside Europe: single issue: US\$ 30

Annual (six issues): US\$ 170

Subscription payment can be made in the name

of Editrice Zeus srl, by bank money transfer or cheque.

Italian Magazine Food Processing

An outline of the suppliers of machines, plants, products and equipment for the food industry. Published: monthly.

Registration: Court of Monza no. 10 of 05.09.2018.

Shipment by air mail art.2 comma 20/b law 662/96 Milan.

Panorama dei fornitori di macchine, impianti,

prodotti e attrezzature per l'industria alimentare

Periodicità: mensile. Autorizzazione del Tribunale di Monza, n. 10 del 05.09.2018

Spedizione in a. p. 45% art. 2 comma 20/b legge 662/96

Filiale di Milano

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ALine - Jar Wrap-around & Tamper Evident Labelling Machine

ALTECH, the leader in the design and manufacture of labelling systems based in Bareggio near Milan, Italy, has recently delivered an interesting new labelling system for a customer in Northern Europe – a manufacturer of preserves packaged in glass jars. The customer's requirement was to equip their packaging line with a new labeller which would be able to apply **wrap-around labels to the body of the jar**, synchronised with a second **upper label, folded like a guarantee seal**.

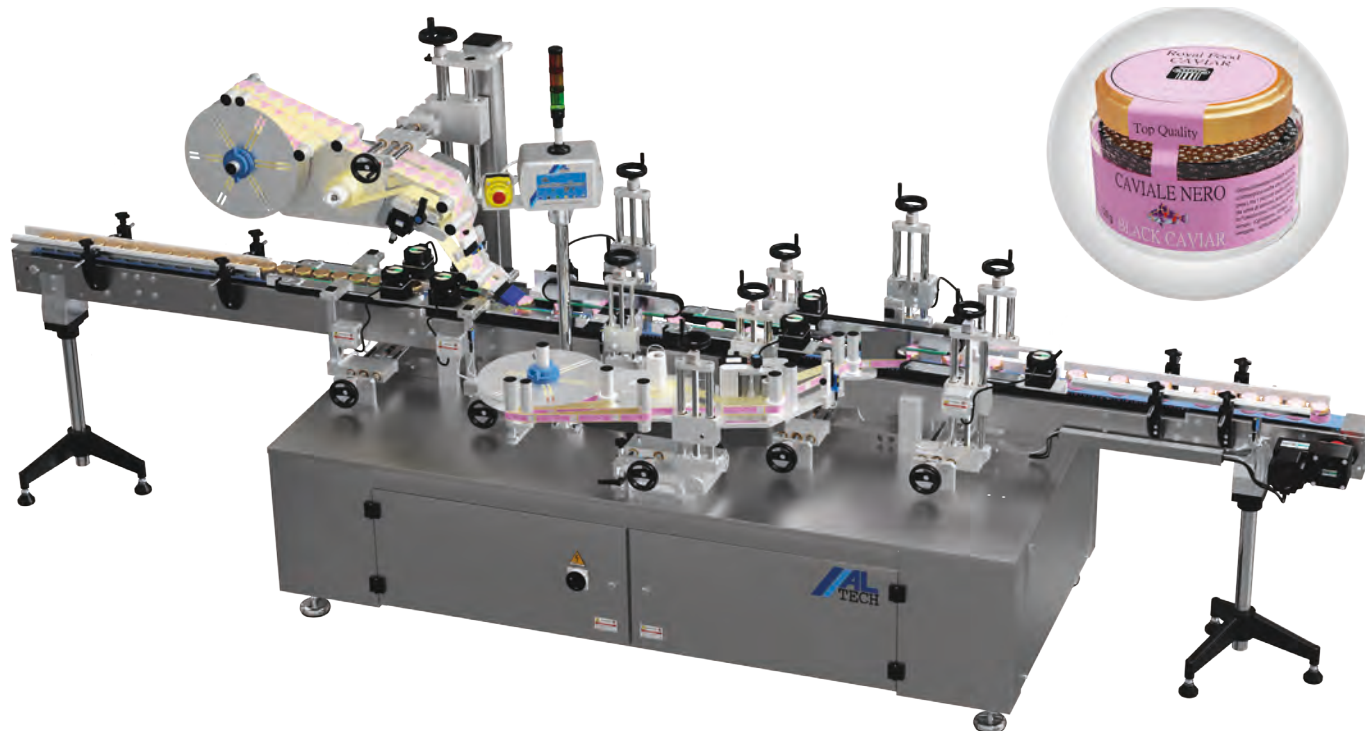
All of this without reducing the performance of the packaging lines, able to churn out **150 jars per minute**.

The labeller designed by ALTECH for this application, starting out from the standard model of the ALine range, was in this case equipped with an innovative device which allows the body label to be synchronised with

the seal label, also on an in-line labeller, at high speed: the electronically controlled system can rotate the jar while it is moving on the conveyor belt, allowing the user to select on the touchscreen interface how much the jar must be rotated with respect to the seal position, in order to be able to centre the relative position between the two labels. By storing the parameters in a recipe, it is also possible to easily process **labels of different dimensions, or jars of different diameters**, by carrying out a simple and repeatable format change.

The new application technique designed for this customer by the manufacturer based in Bareggio near Milan confirms ALTECH's bent for innovation, also allowing the company to add an additional new solution to its range which we believe will pique the interest of the market – particularly because these solutions were previously available only on sophisticated rotary labellers, which come at a much higher cost. 🏠

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



PROVEN INNOVATION



ALine E - An in-line labelling system configured to apply two front and back labels to rectangular and elliptical shaped products.

- Integrated management via PLC, with Industry 4.0 and remote support.
- Touchscreen controller on a swivel panel, which can store up to 100 labelling formats.
- Silent, modular conveyor with automatic synchronization.
- Digital positioners on all adjustment handwheels, with recipe format values available from the control panel.
- Perimeter base, with over structure for system rigidity and internal lighting.



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 ALine E system.

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info@altech.it

www.altech.it



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Wrapping up quality with **TAILORED PACKAGING SOLUTIONS**

Dolcezze Savini is a company based in Tuscany that for three generations has passionately been working in the art of bread and pastry making, using old processing techniques and carefully selected ingredients. From its factories in Valdarno, for over fifty years Dolce-

zze Savini has been baking high-quality products such as the famous bread cooked in a wood-burning oven, made with Tuscan wheat.

In addition to the different varieties of bread and pizza made with different types of flour, the Valdarno brand bo-



asts a rich pastry production that also includes the typical traditional pastries from Siena produced by the historic company Fiore 1827, acquired by Dolcezze Savini in 2017.

Among these specialities there are three important IGP products: two of them are from Siena and they are Panforte and Ricciarelli, while the almond biscuits named Cantuccini are linked to the Tuscan territory.

For a long time, Dolcezze Savini has focused its activity on a production that pays particular attention to the importance of some elements such as natural ingredients, reduced gluten products, palm oil-free products and a clearer labelling system.

Dolcezze Savini's artisanship meets Tecno Pack's technological innovation



Tecno Pack
PACKAGING MACHINES

iFP
PACKAGING

SP
general system pack

The current size of the company, which counts more than a hundred employees in total, has not affected the original characteristics of Dolcezze Savini, confirming its vocation for craftsmanship, its dedication to quality and its desire to be at the forefront of the technology used in its factories.

In this regard, in 2019 the company built a new production plant of over 4,000 meters with the clear intention of investing in technological innovation. Alongside the integration of two new semi-automatic lines for the production of partially baked bread, the new investment has opened more space for

artisanal production with the strengthening of the production of handmade pizza dough. The company has also developed a complete electronic management system, making it part of the world of industry 4.0. This innovation process has found full achievement in the strengthening of its packaging



sector, for which Dolcette Savini has called upon the group Tecno Pack, a leading company in the supply of packaging technologies.

For over 30 years Tecno Pack has been designing, manufacturing and distributing horizontal packaging machines and automatic packaging systems for the food industry and other sectors. Tecno Pack is a group of companies including Tecno Pack, IFP and GSP. Based in Schio, in the pro-

vince of Vicenza, Tecno Pack stands out for being a pioneer and innovator in the packaging industry, developing cutting-edge solutions, increasing the digitalization of machines and plants, offering its customers excellent results with limited investments.

The partnership between Tecno Pack and Dolcette Savini has resulted in the development of three packaging lines, specifically designed by the group for the bread sector of the Tuscan company. These, in detail, are

the new packaging lines implemented in the production system of Dolcette Savini:

- Monopiega Diamond 650 wrapper. This is an innovative and high-performance shrink wrapping machi-





ne, designed to wrap small, medium and large-sized items as well as thin solid products;

- Flow pack ATM FP 025 line suitable for pizza dough and ideal for "pinsa" (a traditional pizza made with an ancient Roman recipe). This horizontal packaging machine is specific for modified atmosphere packaging thanks to the tight packs granted by the sealing system. It is the most suitable flow-wrapper when aesthetically good-looking packages with high-quality side gussets and thick wrapping materials are required;
- The FP 015 line for sandwiches. This horizontal pillow pack wrapper

has a particular cantilevered frame with easy accessibility that helps sanitation, both for hygienic and maintenance reasons, guaranteeing full safety at work.

At the same time, the historical production carried out by Fiore 1827 was also implemented with the purchase of a vertical + multi-head packaging machine to improve the type of packaging and achieve greater production efficiency.

With the selection of these tailor-made solutions, designed according to the production needs of Dolcezze Savini, the Tecno Pack

group not only proves to be a leading manufacturer in the sector of packaging machines and systems but also confirms to be the ideal partner to integrate new technologies created as "tailor-made" solutions according to specific automation requirements.

The precious and fruitful collaboration between the Tecno Pack group and Dolcezze Savini represents the utmost expression of the most recent technological innovation combined with traditional working procedures for the production of a great variety of quality products with an authentic artisanal flavour. 🏡



CAMA's wrap around credentials

Create retail and shelf-ready packaging for any type of product in a one-piece wrap around case or tray and lid display box.



At All4pack we will showcase a wrap-around cartoner as part of a complete line for tea bags.

The line includes product handling, a horizontal side cartoner for resealable 'cathedral' boxes and this compact case packer.

The CAMA range of SRP case packers, developed since the early 1990s, is constantly developing in terms of applications, loading solutions and machine design.

Wrap-around electronic case packer to produce tray or full wrap around cases. Several infeeds available, racetrack, robots, accumulation; products can be positioned into the case flat, on edge or standing up on one or multiple layers. Compact machine, flexible frame approach, hygienic machine design, easy entry and access.

Special features of machine

- Metal frame or stainless steel
- High Speed
- Various type of primary product (pouches, flowpack, thermoformed etc.)
- Type industry
- Left and right hand

Break Through Generation

- No hollow body
- Modular Frame Design
- No retention
- Energy saving
- Ergonomics
- Safe easy entry
- Semi automatic change over

Industry

- Food
- Beverages
- Personal, Home & Health Care
- Pet Food 🏠

www.camagroup.com

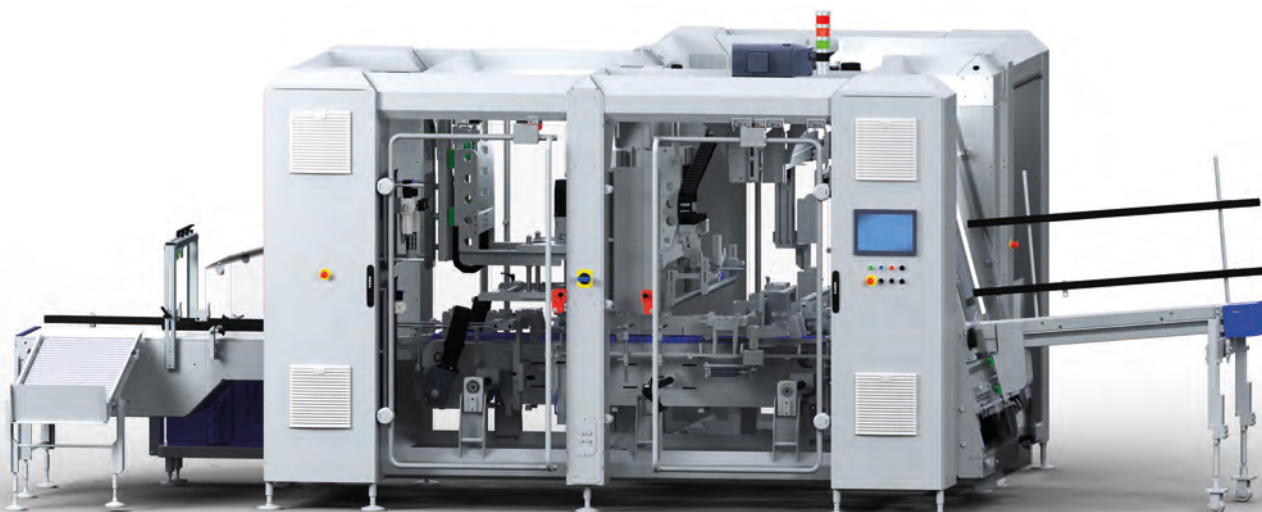
About CAMA France

Created in 1984, the French subsidiary has a team of around fifteen people focused on supporting French customers.

This team with a technical and commercial profile is involved in the study of the best technical solution and in the maintenance of Cama portfolio machine. Involved very early in the project, french services team participates in launch meetings, assembly, FAT – SAT, training, etc.

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Packaging Specialists

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electronic horizontal
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HIGH-SPEED
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general system pack

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



PAPACKS®
PACKAGING BY NATURE

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 protection, 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



Unlock the packaging potential

ifp
PACKAGING



IP67 stainless steel
Automatic plant



DIAMOND X
Stainless steel box motion



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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 po-



sitioning 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 in-

dustry—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





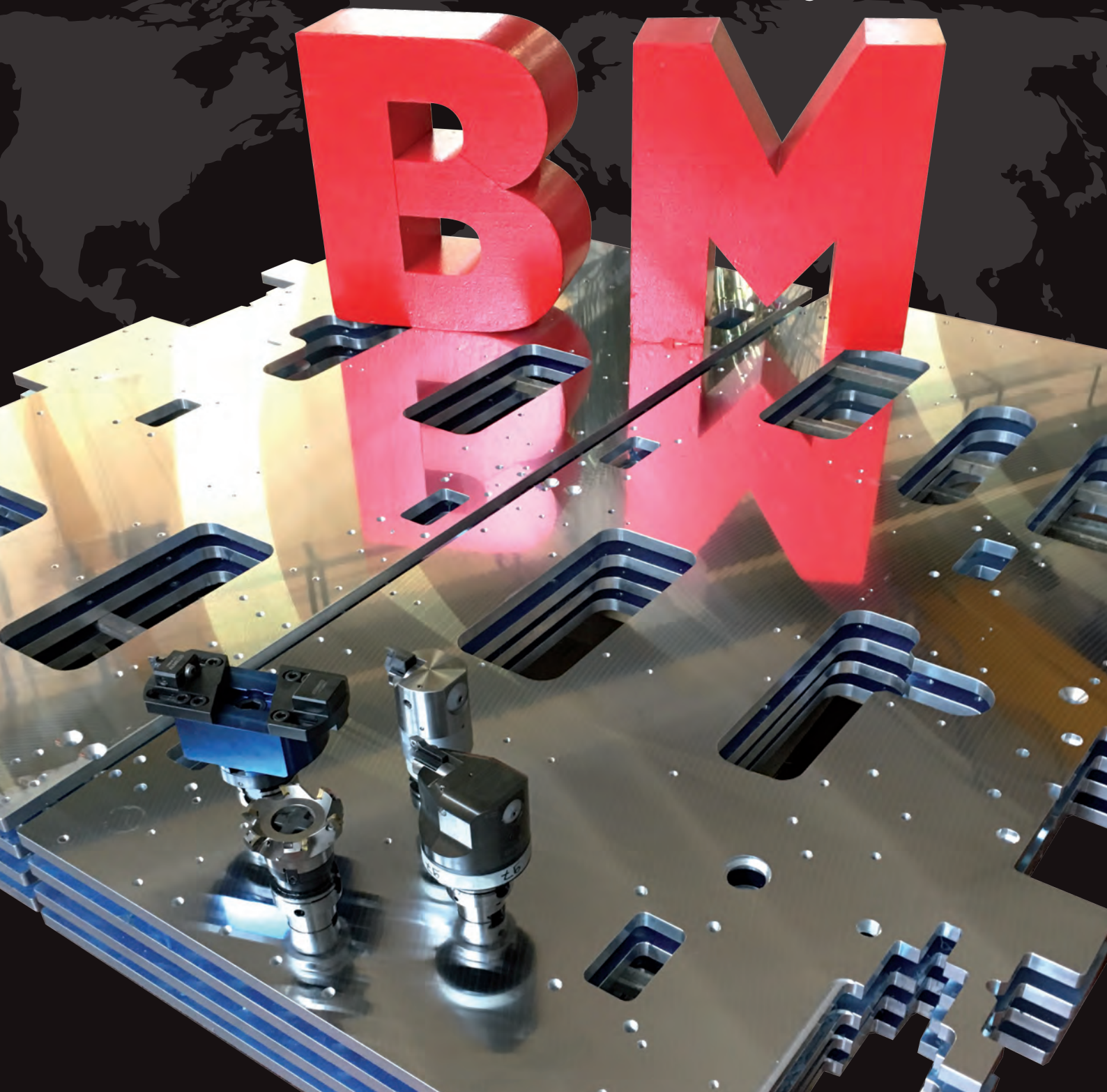
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LAVORAZIONI MECCANICHE

Qualità, velocità e servizio sono i nostri
punti di forza

MACHINING

Quality, speed and service are our
strenghts



B.M. GROUP SRL: all-around service: CNC machining - pre-treatments - anodizing

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

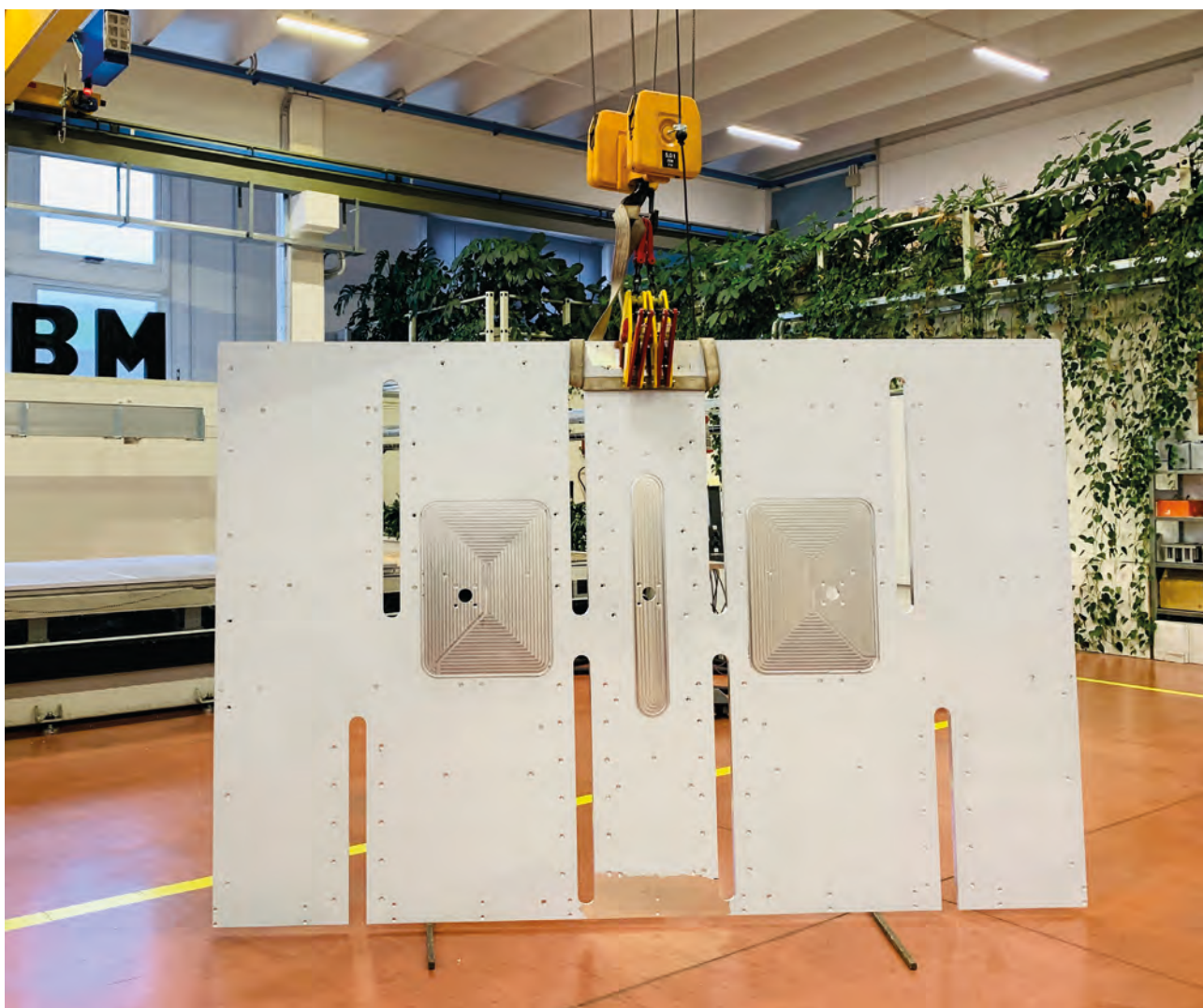
Our Chairman, **Mr. Silvano Busin**, has developed a deep knowledge of both sector through the

years and for this reason he in person is managing the technical department. On the other hand, our VP **Ms. Marina Vitacca**, is managing both communication strategies and research departments. Moreover, our team is made up with young and qualified staff aiming at continuous self-improvement, in line with our Management working philosophy.

CNC Machining of big-sized aluminum plates has en-

abled us to establish also abroad in the main European markets and to meet the requirements of a niche sector in which B.M. Group S.r.l. has recognized the potential.

Aside from the CNC Machining we perform pre-treatments as mechanical brushing with different types of finishing or chemical pre-treatments, as well as anodizing.



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

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

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

www.bmgroupsrl.com



PRISMATECH custom solutions for beverage processing

PRISMATECH has recently showcased multiple custom installations for producing juices, soft drinks, flavoured water, and RTD alcopops. By working with the customer throughout the projects, PRISMATECH R&D technicians designed multiple solutions to satisfy all requirements, meaning that like every good Italian design, the syrup rooms were completely customized to the end user's needs: be that space constraint, quality control, batch requirements, automation or recipe changovers.

IoT INTEGRATION: TOWARDS 5.0

A recent custom project for a completely automatic syrup process line combined the latest in Siemens components technology with the innovation of PRISMATECH's in-house software developers.

By including IoT technology in the control panel and integrating with an industrial PC, a new frontier has been reached for recipe traceability and integration with customer software, making life easier at every stage from customer quality control department and certifications to the day-to-day ease-of-use for the onsite operators.

DETAILED DESIGN FROM EVERY ANGLE

So that each step of the design and construction process is simplified, all projects are designed not only in 2D with complete flow diagram and P&ID as well as custom layouts tailored to the customer factory, but also in 3D rendering.

This imagery is then used throughout the project so that the client feels they are getting a truly personalised pro-

ject: from the design to the software to the manuals; nothing is replicated, experiences are refined, successful concepts are integrated and continuously improved upon in an organic feedback loop which is only possible thanks to PRISMATECH's dynamic and highly adaptive team.

PRODUCT INNOVATION

On virtually a daily basis, new products are being introduced to the market, and PRISMATECH is always ready for the challenges these bring. From Basil-seed drinks to nitrogen

drinks, collagen and beauty waters to the NoLo trends, hard seltzers to mood drinks, coffee drinks to the increasing number plant-based milk alternatives, the experimental and supportive family spirit at the heart of PRISMATECH with successful trials and pilot lines internationally mean that it's an ideal partner for those looking to launch or develop a new product or recipe.

Partnerships with recipe technologists complete what is truly a turnkey solution.



PRODUCT CATALOGUE

PRISMATECH's industrial drink machines include: full turnkey processing lines as well as water treatment plants, reverse osmosis, syrup rooms, fruit juice preparation plants, saturators and carbonators, pasteurisers and homogenisers, CIP systems, batch sugar dissolvers, continuous sugar dissolvers, filtration units, deaeration plants, Premix machines, as well as various kinds of preparation tank, available with or without insulation.

EXHIBITIONS AND WHERE TO FIND PRISMATECH

From 4th to 7nd November 2024 PRISMATECH will be exhibiting for the first time at All4Pack EMBALLAGE in Paris, France (Stand F 5001).

During the trade fair, which is a main reference for the Food & Beverage industry worldwide, PRISMATECH's



innovative machinery and solutions will be introduced to an ever-greater number of people, with focus on the automatic technologies and the benefits offered in terms of energy, resources and improved performance. PRISMATECH will also be exhibiting at the Dubai World Trade Center, Dubai at **Gulfood Manufacturing from 5th to 7th Novem-**

ber 2024 (Sheikh Saeed Hall 3 – Stand D17).

Can't make it? Visitors are always warmly received to the factory in Parma, Italy for a tour of the machinery in construction and to discuss projects in person. 🏭

www.prismatech.it



GPI, the extent of success in the food industry

To manufacture a successful end-of-line plants it is crucial to become customer's algorithm, and to be a proactive listener of his visions, an expert able to provide efficient and personalized answers. It is not by chance then that GPI's motto is "Tailor made innovation with reliability", a catchphrase for innovative, customizable and highly renowned technologies.

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

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

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



SIMPL-CUT®



The Simple Revolution in "cutting-edge" Roll-fed Solutions



1. Only one drum for three operations



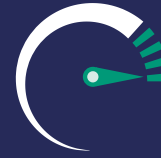
2. Hot melt applied before cutting



3. Innovative Cutting System



4. Up to 6 divisions on the same drum



5. No-stress label management



6. Standard ergonomic layout

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

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

The demand for automation in end-of-line packaging processes is growing, such as pouches,

doypack, flowpack, bags, sachets, alu-trays, and thermoformed trays, in different formats and materials.

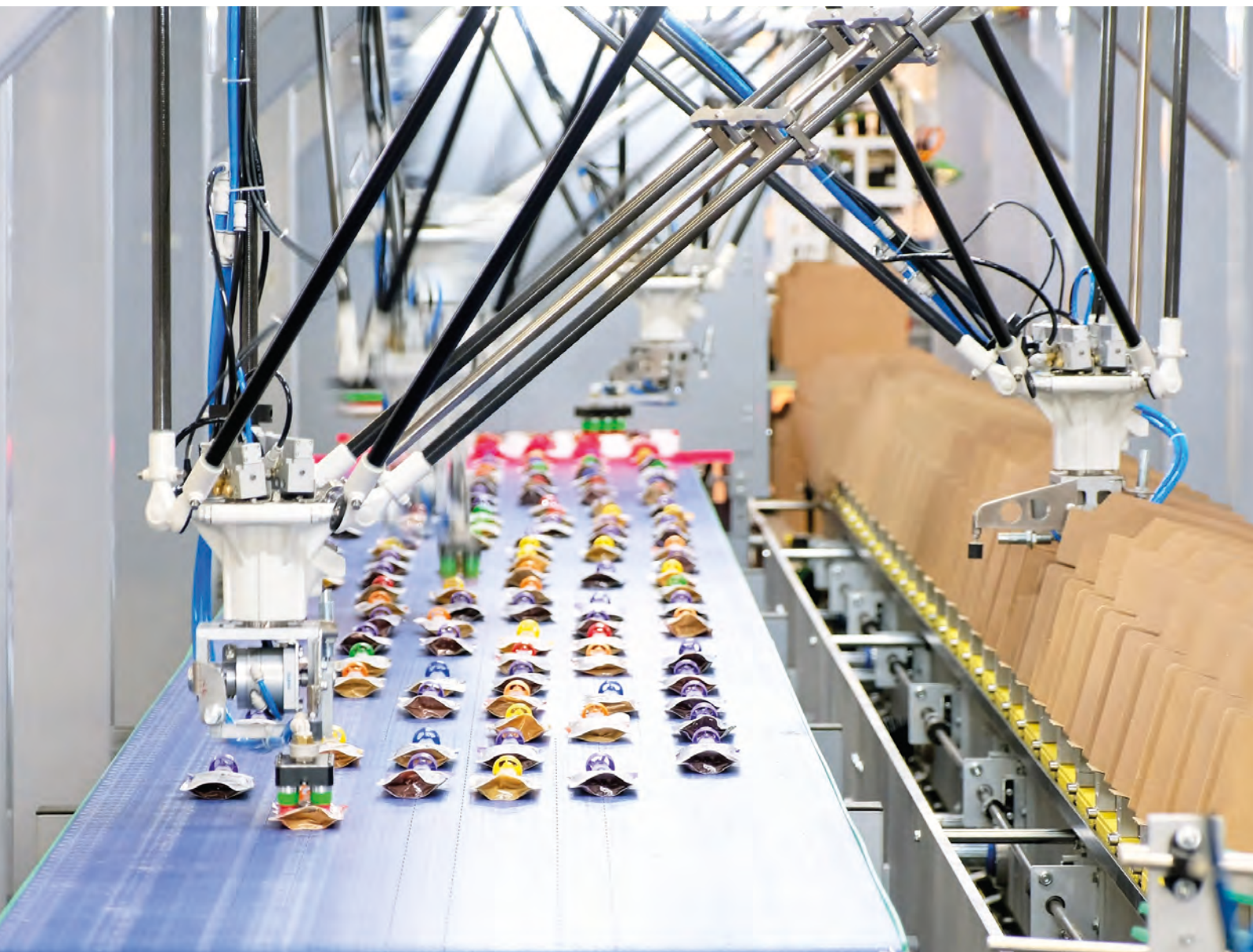
It is also worth remembering the most appreciated and unquestionable advantage of the pouches: moderate logistic expenses, easy disposability for end consumers thanks to small volumes, and sustainability deriving from low carbon footprint: energy cost per each package is lower and footprint minimal.

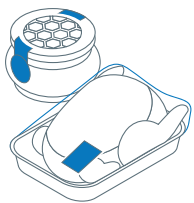
Environmental awareness sharing continuous innovation to be on the frontline of packaging evolution,

which needs fast and constant study to safely handle the most diverse types of packaging.

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

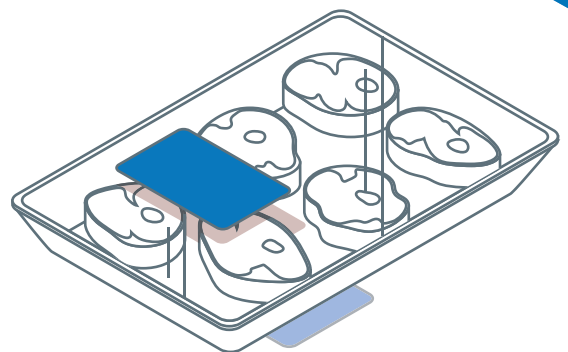
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RCA IMBALLAGGI: innovative packaging and water solutions

The Company, RCA Imballaggi Flessibili S.r.l., was born in 2002 and now, it's specialized in printing on complex films, bags and reels of different films, coupled with aluminium or laminated, specially customized for food industry. An important new development in the latest years is the



opening of our new e-commerce site (www.rcapack.com), where in addition to the possibility of purchasing the range of our neutral bags directly, it is possible to customize small quantities (even as few as 100 bags) very quickly.



This service is available on both kraft and eco-sustainable plastic material. For more than 30 years our mission has been to provide companies with packaging of high quality and reliability, careful in design and competitively priced. In recent years our energies have also been focused on minimizing lead times.



technical and graphic consulting services. We are the magnifying glass that allows the Entrepreneur to see the potential of their product from the outside helping them to communicate through image its full potential.

The average delivery time for our external printing service on preformed bag is 5 days. In addition to providing a service, we have an ambitious desire to be considered a partner and not just a supplier. On top of materials expertise, we combine in-house and



WMB 16 Liters/day



WMB 40 Liters/day

patented system is filtered and added with mineral salts, and made the water not only DRINKABLE but also of an EXCELLENT QUALITY.

This extraordinary product makes it possible to come to the rescue of the drought related emergency of recent years, both in agriculture and in communities where water tables are gradually drying up, and it is unnecessary to emphasize the wideranging social and economic impact of the use of WaterMaker.

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RCA Imballaggi Flessibili Srl is proudly the exclusive national distributor for the Italian, Canarian and Corsica market for the amazing in-

novative technology behind WaterMaker. WaterMaker extracts water from the moisture present in the air. The water thus produced through a

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WATERMAKER From Air to Water



Exclusive distributor in Italy

SATYENDRA PACKAGING LTD, BOPP Film designed for sustainability needs

Satyendra Packaging Ltd (SPL) is one of India's largest and fastest growing, global packaging solution group, servicing Indian and international market since 2007. Our journey of BOPP Film manufacturing started in 2022 and at present our installed BOPP film production capacity is 54000 MT for bare film and 14000 Mt for Metallized film annually. Our BOPP Film manufacturing facility is located near Ahmedabad, Gujrat India. This consists of latest high speed and high output one 10.4 Metre wide Bruckner make BOPP film production line and one 3.65 Metre wide BOBST make Alu Bond Metallizing machine along with Atlas, U.K make Primary & Secondary Slitters.

Our group company is also one of the largest manufacturers & exporter of Woven Polypropylene (WPP) Bags & Sacs, FIBC Jumbo Bags and Geo-



textile fabrics, with installed capacity of 1 million WPP bags per day and 0.5 million per month FIBC Jumbo Bags. The production facility for same is located near Ahmedabad, Gujarat (India) and Africa continent.

New generation BOPP Film production Line and Metallizing machine

By investing in very high output and versatile BOPP film production line and Metallizing machine with newest technology of Alubond Metallizing, we have an edge on production economics along with production facilities of new generation BOPP Film grades in line with EU's circular economy and green deal policies.

Our production facility is located near to Western India sea port and we can





ship our goods efficiently and timely to our export customers. Our production line can produce thinnest BOPP film as 10 micron and thickest as 50 Micron.

A range of BOPP Film Products suitable for new trends in sustainable packaging

Satyendra Packaging is constantly working towards new innovation and offering BOPP film to contribute in new trends of sustainable packaging.

Our BOPP film grades are suitable for running on high-speed Gravure and Flexo printing machines and we can offer a stable COF to low COF and lower SIT of up to 75 degrees centigrade sealable film. Also, our product range includes high COF grade Transparent and Matte BOPP film for antiskid application with COF as high as 0.60 and very low SIT Matte grade Co-ex Film up to 110 degrees centigrade. For sustainable packaging we can provide a new generation Low

shrinkage BOPP Film which can work on high temperature as a replacement of BOPET film as print substrate to make laminate structure recyclable. Our new generation Metallizing grade Co-ex BOPP Film have high barrier up to 10 OTR & 0.15 MVTR, high hot tack and high metal bond properties and can increase packed product shelf life up to 25%. Also, we can offer our BOPP Film product range with high % of recyclable raw material content.

Our range of specialty BOPP Film for sustainable food packaging

| Film Type | SPL Product | Standard Thickness | Features | Application |
|------------------------------|-------------|--------------------|---|--|
| Metalised High Barrier films | SMA Series | 15/18/20/25/30 | High Barrier and High Metal bond strength with following features. SIT range: 105/95/85/75 deg C WVTR: 0.15-0.2 g/m ² /day OTR 20-30 cc/m ² /day | Inner sealing web of laminates for Cookies, crackers, confectionery, snacks, dry food and beverage powder, replacement of standard grade Co-ex Metallized Film to increase shelf life of packed products |

| | | | | |
|---|----------------|----------------|--|--|
| Metalized Crack Resistance film | SMA-CH2 | 15/18/20/25/30 | High Barrier, High Metal bond, Crack Resistance, Extrusion Lamination Metallized BOPP Film. OTR - 20 cc/m ² /day, MVTR - 0.15 g/m ² /day, SIT- 85°C, High hot tack and broad sealing range. Optical Density: 2.8 | Inner sealing web of laminations used in packaging (snacks, confections, cookies, light sensitive products) Suitable for Extrusion lamination |
| Non Heat Sealable Metalized film for Sandwich layer | VMN2-SW series | 15/8/20/25/30 | Excellent Metal Bond and Metal cracking resistance Non Heat Seal both sides treated Metallized Film. Available in Optical density from 2.2 to 2.8 | Used for Sandwich layer for three ply structure for biscuits / Cookies / crackers / Confectionary pouches |
| Heat Sealable Low SIT Matt films | MH1-MTS | 18/20/25/30 | One side Heat Sealable Matte, Other side Glossy Corona Treated Matte HS Bopp Film. (Matte side SIT 110°C) | Suitable for Various Printing & Lamination high speed Machine Bakery biscuit, cookie, crackers), Confectionary, Chips & snacks Reverse printing and lamination for multilayer laminate for natural / matte looks |
| Heat Resistant Grade | TN1/2-PL (HRS) | 12/15/18/20 | Transparent Non Heat Sealable Heat-Resistance BOPP Film available in Onside / Both Side Treated. | High speed, Heat-resistant Easy jaw release in, Savory & Snacks – dry applications, Shampoo and Conditioner sachet, Home care liquids. Replacement of BOPET substrate print layer |



Future Investment by Satyendra Packaging Ltd

We are committed to invest in new age technology in line with sustainable packaging requirement of food and non- food products. Our upcoming investment in Offline coating machine will provide a new generation of EVOH and PVDC free high oxygen, moisture and good mineral oil barrier transparent BOPP Film range. By this production facility, we would be able to offer a series of transparent high barrier BOPP film range to re-

duce multiple layer laminate structures into monolayer laminate structures and also to make complete recyclable multilayer laminate structures. Also, this facility will be used to produce Alox coated BOPP film range and base BOPP Face stock for PS Self Adhesive label substrate.

Our team is ready to discuss with you in great details, you can contact us for the future enquiries. 🏢

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Innovative Advance Packaging

“CARTON BEVERAGE PACKAGING: AN ECOLOGICAL CHOICE OR A CONVENIENT SOLUTION?”

In recent years, the food industry has seen a significant increase in the use of carton packaging for beverages.

This trend, driven by growing environmental awareness and consumer pressure, has led many companies to reconsider traditional materials. However, the question remains: is carton packaging truly an ecological solution, or is it simply a convenient and practical choice?

Carton packaging has undeniable advantages. It is lightweight, easy to transport, and often recyclable, making it appealing to beverage producers. Moreo-



by the editorial staff



latest news

ver, modern technologies allow carton to be treated so that it becomes liquid-resistant and capable of adequately preserving the contents, extending their shelf life without compromising product quality. However, the main advantage frequently highlighted is its supposed environmental sustainability. Carton, derived from renewable sources such as cellulose extracted from trees, is recyclable, presenting it as a more ecological alternative to plastic or glass, both of which have a more significant environmental impact in terms of production and disposal.

But behind this image of sustainability lies a more complex reality. While it's true that carton is recyclable, its production requires enormous resources. The process of extracting cellulose and processing paper consumes large amounts of water and energy, and the forests

from which the raw material is sourced are not always managed sustainably. Certainly, certifications like FSC (Forest Stewardship Council) ensure responsible forest management, but not all producers subject themselves to such scrutiny. Additionally, once carton is combined with layers of plastic or aluminum, as is often the case with beverage containers, its recyclability drastically decreases. Separating these materials once they are fused together is a complex and costly process, and not all recycling facilities are equipped to handle it.

Another aspect to consider is transportation. Carton, being lighter than glass and less bulky than rigid plastic, helps reduce CO2 emissions during the distribution of beverages. This aspect is particularly important when considering the overall environmental impact since logistics represent a significant portion of a pro-



duct's lifecycle. Reducing the weight and volume of packaging means fewer trips are needed to transport the same amount of product, with tangible benefits in terms of greenhouse gas emissions. However, even in this case, the benefits only materialize if the entire lifecycle of the packaging, from its production to disposal or recycling, is managed efficiently and sustainably.

There is also the economic factor, which plays a crucial role in companies' decisions. Carton is generally cheaper to produce than glass or rigid plastic, making it an attractive solution not only from an ecological standpoint but also from an economic perspective. For many companies, choosing carton means being able to reduce costs without sacrificing product quality while presenting themselves to consumers as environmentally conscious brands. This marketing strategy, often supported by slogans that emphasize the "green" nature of the packaging, has strong appeal for modern consumers, who are increasingly concerned about the sustainability of the products they purchase. But it's fair to question how much of this choice is truly driven by the desire to reduce environmental impact and how much is simply a response to market trends.

Finally, we cannot ignore the behavior of the end consumer. Even the most eco-friendly packaging becomes useless if not disposed of correctly. Despite awareness campaigns, recycling rates remain low in many countries, and a large portion of packaging ends up in landfills or, worse, littered in the environment. Therefore, it is crucial that companies not only invest in more sustainable packaging but also commit to educating consumers on how to properly dispose of these materials.

In conclusion, carton packaging for beverages represents a solution that, at first glance, seems to meet environmental sustainability needs. However, the reality is more nuanced. While carton has undeniable advantages over other forms of packaging, its benefits largely depend on the context in which it is produced, used, and disposed of. It is a choice that, if well managed, can contribute to reducing the environmental impact of the beverage industry, but it should not be considered the definitive solution. Real change will only occur when the entire lifecycle of packaging is designed with sustainability in mind, from the sourcing of raw materials to the recycling or disposal phase.

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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.

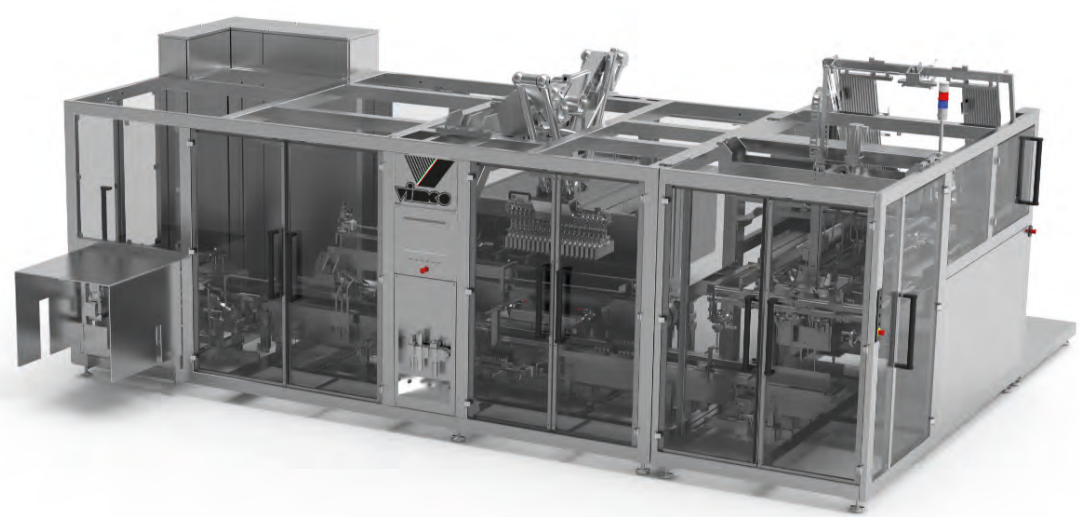
Space sometimes represents the biggest challenge for positioning machines and lines within a customer's plant.

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 with the customer to study and opti-





imize 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 automated process.

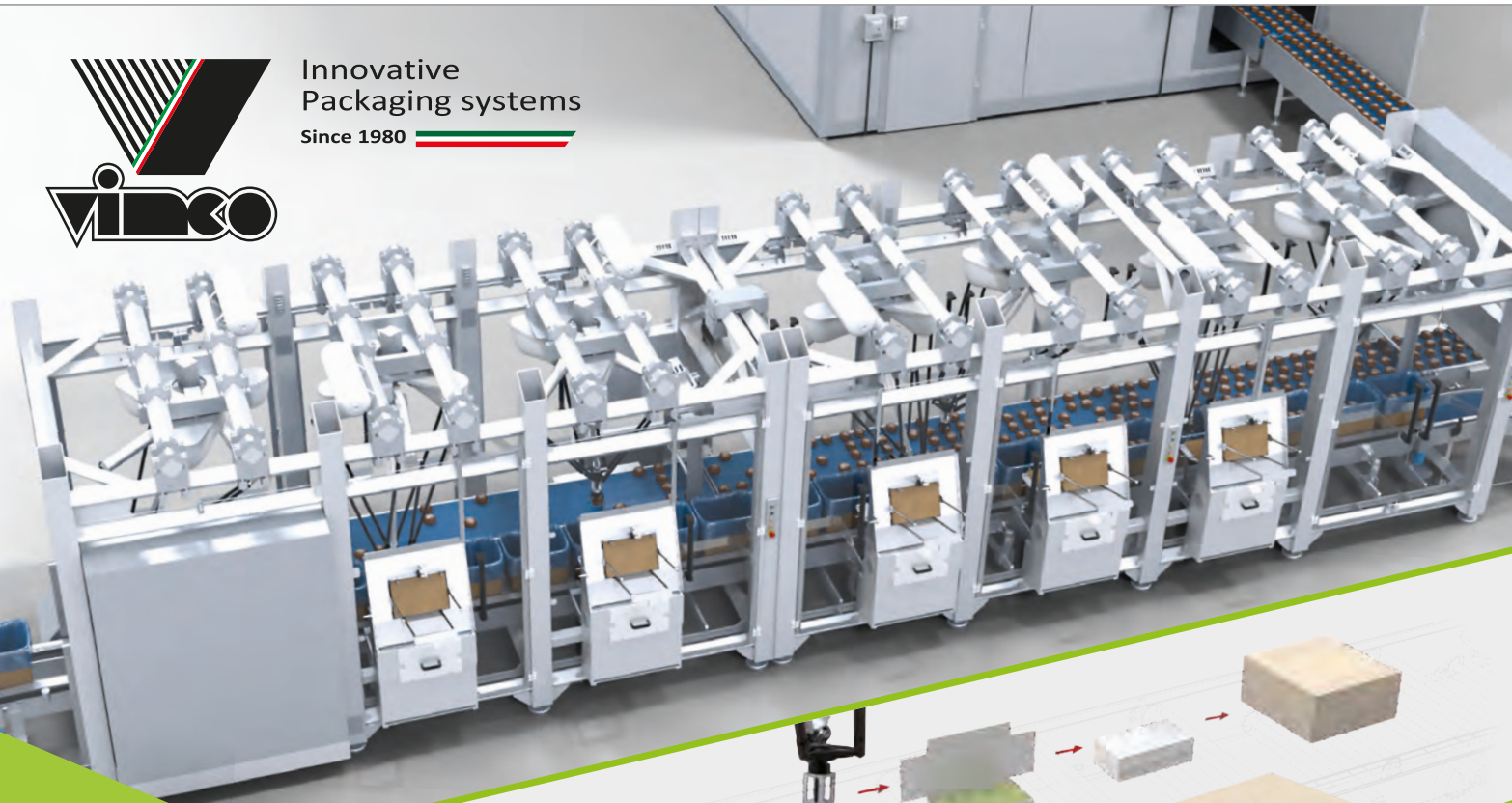
The advantages of monoblock lines are certainly compactness and versatility. Versatility is an equally important requirement, as packaging is con-

stantly 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. 🏭

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IPAK, a pioneer in sustainable and innovative packaging solutions in Pakistan

International Packaging Films Limited (IPAK), founded in 2017, has quickly established itself as a leader in Pakistan’s packaging industry. Known for its innovation, superior quality, and commitment to sustainability, IPAK has made a mark in flexible packaging solutions, offering products that cater to a wide range of industries. Headquartered in Karachi, IPAK operates a cutting-edge manufacturing facility in Lahore, allowing the company to serve both local and international markets. In this article, we explore IPAK’s journey, its product offerings, sustainability initiatives, leadership vision, and the future of this pioneering company in the packaging industry.

Foundation and Growth Trajectory

IPAK was born out of the vision to revolutionise Pakistan’s packaging sector by introducing advanced packaging technologies. It became

the first company in the country to introduce five-layer Biaxially Oriented Polypropylene (BOPP) films, which set the standard for quality, R&D and efficiency in packaging solutions. With state-of-the-art manufacturing equipment sourced from renowned international engineering firms, IPAK quickly rose to prominence, establishing itself as a trusted name in both the local and international packaging markets.

Since its inception, IPAK has achieved significant milestones, including becoming the largest manufacturer of packaging films in Pakistan by 2024. The company’s rapid expansion has been supported by its commitment to technological innovation and a

relentless focus on meeting customer demands. IPAK’s manufacturing facility, spanning over 46 acres, enables it to produce a diversified range of products tailored to meet the specific requirements of various industries.

Product Portfolio: Versatility and Innovation

IPAK offers an extensive product portfolio, providing flexible packaging solutions for industries such as food, labels and industrial products.

While the company is particularly recognized for its contributions to the food packaging sector, its films are widely used in multiple applications, offering higher productivity, extended shelf life, aesthetics and durability.



Key Product Lines:

- **BOPP Films:** IPAK’s BOPP films are highly sought after for their high gloss, transparency, and protective barrier properties, making them ideal for food packaging, such as snacks and bakery items. These films also offer excellent printability, allowing brands to maintain vibrant packaging designs that enhance shelf appeal.
- **CPP Films:** Cast Polypropylene (CPP) films are widely used in laminations and flexible packaging applications due to their superior seal strength and puncture resistance. They are ideal for packaging that requires high clarity and durability.
- **BOPET Films:** Biaxially Oriented Polyester (BOPET) films are known for their strength and barrier properties. These films are extensively used in the packaging of electronics, industrial goods, and consumer products, where robust protection is needed.
- **Metallized Films:** Metallized films provide excellent barrier pro-

erties against moisture, oxygen, and light, extending the shelf life of perishable goods. These films are commonly used in the packaging of snacks and confectionery items that require enhanced protection.

- **Cavitated Films:** Known for their lightweight, high yield and aesthetics, cavitated films reduce the overall use of plastic without compromising on performance. They are widely used in food packaging, offering an eco-friendly and cost-effective solution.

IPAK’s commitment to continuous technological innovation has been a driving force behind the success of its diverse product offerings. As the packaging industry evolves, the company remains at the forefront by developing high-performance films that meet both domestic and international standards.

Sustainability at the Core

Sustainability is integral to IPAK’s business philosophy. The company has

implemented a comprehensive sustainability strategy aimed at reducing its environmental impact while promoting the principles of the circular economy. IPAK’s sustainability initiatives focus on three primary areas: energy efficiency, waste reduction, and product recyclability.

To reduce its carbon footprint, IPAK has invested heavily in renewable energy. Its Lahore facility, for example, generates over 4.1MW of solar power, with plans for future expansion. This transition to renewable energy not only helps reduce greenhouse gas emissions but also supports IPAK’s broader goal of achieving net-zero emissions in the future.

IPAK is also committed to reducing plastic consumption through down-gauging technology, which allows the company to manufacture thinner films without compromising on quality. This process results in lower material usage, decreased plastic waste, and more environmentally friendly packaging solutions. Additionally, IPAK is exploring the development of bio-based and recycled-content films



to further align with global sustainability trends.

Circular Economy Initiatives

In alignment with its sustainability goals, IPAK is a strong proponent of the circular economy. The company actively participates in international sustainability initiatives, including partnerships with platforms like RecyClass and CEFLEX, which focus on enhancing the recyclability of plastic packaging and promoting eco-friendly production processes. These efforts reflect IPAK's dedication to minimising its environmental footprint and contributing to a sustainable future. By prioritising recyclable materials and optimising its manufacturing processes to reduce waste, IPAK is helping to set new standards for sustainability in the packaging industry.

Leadership and Strategic Vision

IPAK's growth and success can be attributed to its strong leadership. CEO Naveed Godil and Chairman Muhammed Amin have played pivotal roles in shaping the company's direction, ensuring that innovation, quality, and sustainability remain at the forefront of its operations. Under their guidance, IPAK has expanded its product offerings, strengthened its presence in international markets, and fostered a corporate culture that values innovation and environmental responsibility.

A key milestone in IPAK's growth trajectory was its Initial Public Offering (IPO) in 2024. The IPO was highly successful, with an oversubscription rate of 1.73 times, reflecting investor confidence in the company's future. This marked a turning point for IPAK, enabling it to further accelerate its growth and pursue new opportunities in international markets.

Expanding Global Presence: IPAK Connect

As part of its global expansion strategy, IPAK launched a subsidiary in

Dubai, IPAK Connect, in 2023. This subsidiary was established to create stronger connections with international markets and facilitate seamless order execution for IPAK's global clientele. The strategic location of IPAK Connect in Dubai allows the company to efficiently serve customers in regions such as the Middle East, Europe, and Africa, helping to broaden IPAK's reach and enhance its global presence.

IPAK Connect is a key part of the company's international growth plan, acting as a bridge between IPAK's manufacturing operations and its global customers. By leveraging Dubai's world-class infrastructure and strategic location, IPAK is well-positioned to tap into new markets and build lasting partnerships.

Research and Development (R&D)

At the heart of IPAK's innovation efforts is its robust Research and Development (R&D) department. The company's Center of Excellence in Research and Development (CERD) plays a critical role in driving product innovation, process optimization, and sustainability initiatives. IPAK's R&D team works closely with its customers to develop tailored packaging solutions that meet their specific needs, focusing on improving recyclability, reducing plastic waste, and enhancing product performance.

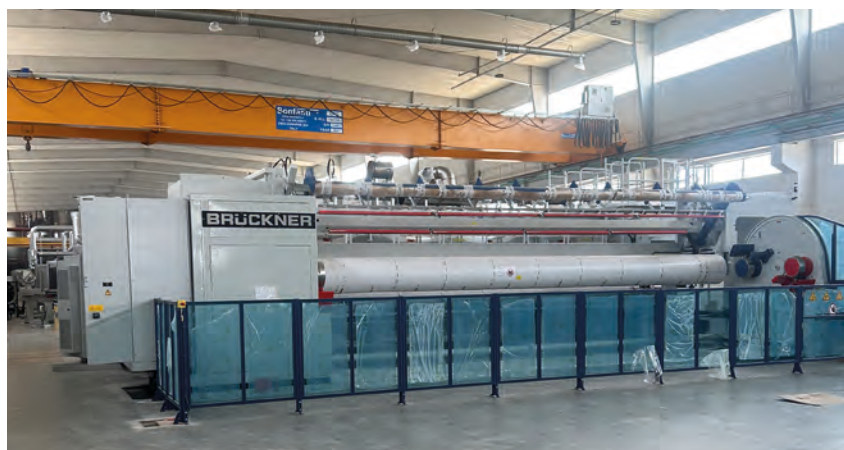
The company's product development process is guided by the 5R strategy—Reduce, Reuse, Redesign, Recycle, and Refuse—demonstrating its commitment to sustainable packaging.

One of IPAK's key future innovations is the development of Biaxially Oriented Polyethylene (BOPE) films, which offer enhanced sustainability credentials. The company is also exploring the use of bio-based materials and top-coated films to align with global trends toward reducing plastic waste and promoting the use of sustainable materials.

Employee Engagement and Corporate Culture

IPAK's success is also a result of its strong corporate culture, which values collaboration, professional development, and inclusivity. The company places great emphasis on employee well-being and provides state-of-the-art facilities, such as a fully equipped gym, a guest house, and the Executive Mess, where employees can unwind and network.

The Human Resources (HR) department at IPAK has implemented several initiatives to foster employee engagement and create a positive work environment. One of these initiatives is the Smart Employee Self Service (ESS) portal, which allows employees to manage their tasks efficiently and access important HR-related information. This digital transformation aligns with IPAK's broader strategy to create a more agile and responsive organization.



IPAK's focus on employee satisfaction and development ensures that its workforce remains motivated, productive, and committed to the company's vision. A strong corporate culture is vital to IPAK's long-term success, helping the company attract and retain top talent.

The Road Ahead: IPAK's Vision for the Future

As IPAK looks towards the future, it remains firmly focused on innovation, sustainability, and global growth. The company has laid out ambitious plans to expand its product offerings, invest further in renewable energy, and continue developing eco-friendly packaging solutions. With a strong foundation built on technological innovation and a commitment to environmental responsibility, IPAK is poised to lead the packaging industry into a future where sustainability is key.

A major area of focus for IPAK moving forward is its ongoing investment in sustainable materials and packaging solutions that reduce the environmental impact of plastic. The development of bio-based films, increased use of recycled content, and further integration of renewable energy sources are central to the company's strategy. IPAK's efforts to contribute to the circular economy, combined with its innovative product portfolio, place the company in a strong position to meet growing global demand for sustainable packaging solutions.

IPAK's continued expansion into international markets is another important aspect of its long-term strategy. With the launch of IPAK Connect and its growing presence in regions such as the Middle East, Africa and Europe, the company is well on its way to becoming a global player in the packaging industry. Its commitment to building lasting relationships with customers and partners around the world ensures that IPAK will remain at the forefront of innovation and growth.

Key Focus Areas for Future Growth

- 1. Expansion of Product Lines:** IPAK is actively working to introduce new product lines, including BOPE films and top-coated BOPP and BOPET films, that offer enhanced sustainability features. These new products are designed to meet the evolving needs of global markets, with a focus on reducing plastic usage and promoting recyclability.
- 2. Renewable Energy Investments:** The company is planning to increase its investment in renewable energy, building on its success with solar power at its Lahore facility. This will help IPAK reduce its reliance on fossil fuels, lower its carbon footprint, and work towards its goal of achieving net-zero emissions.
- 3. Strengthening Global Presence:** IPAK's expansion into international markets is set to continue, with a focus on building strong partnerships and exploring new opportunities. The company aims to further establish itself as a global leader in flexible packaging, serving customers across a wide range of industries.
- 4. Sustainability and the Circular Economy:** IPAK is deeply committed to promoting the circular economy in packaging, with a focus on developing fully recyclable and biodegradable packaging solutions. By aligning with global sustainability initiatives, IPAK is working to reduce the environmental impact of plastic packaging and contribute to a more sustainable future.

Conclusion: A Commitment to Leadership, Innovation, and Sustainability

IPAK's journey from a young company to becoming Pakistan's largest manufacturer of flexible packaging films has been marked by its relen-

tless pursuit of excellence, innovation, and sustainability. Through its advanced product portfolio, commitment to reducing environmental impact, and strategic global expansion, IPAK has established itself as a leader in the packaging industry.

The company's success is underpinned by its dedication to providing high-quality packaging solutions that meet the diverse needs of its clients while contributing to a more sustainable world. With a strong leadership team, a clear vision for the future, and a focus on innovation, IPAK is well-positioned to continue driving positive change in the packaging industry.

As the global demand for sustainable and innovative packaging solutions grows, IPAK's forward-thinking approach ensures that it will remain at the forefront of the industry. By staying true to its core values of quality, sustainability, and customer satisfaction, IPAK is set to lead the way in transforming the future of packaging, offering solutions that not only meet today's needs but also anticipate the challenges of tomorrow.

Final Thoughts

IPAK's remarkable growth story is a testament to the power of innovation and strategic leadership. The company's ability to adapt to changing market demands, prioritise sustainability, and continually innovate has enabled it to rise as a dominant player in the packaging industry. As IPAK continues to expand its product offerings and strengthen its global presence, it remains committed to delivering high-performance packaging solutions that align with its core values of sustainability, quality, and innovation.

Looking ahead, IPAK is well-positioned to shape the future of packaging, setting new standards for excellence and sustainability in an ever-evolving global market.. 

ipak.com.pk

The future of sustainable packaging: Cartonboard takes centre stage

By Winfried Muehling, Director of Marketing and Communications, Pro Carton

With increasing requirements on product and food safety, we see an ever-increasing level of packaging waste in Europe. Figures reached an all-time high totalling 84.3 million tonnes (Eurostat, 2024). As we look to create a more sustainable future for the packaging industry, the concept of a circular economy has become increasingly critical. Within this, cartonboard has emerged as a leading contender, offering a recyclable, renewable, and truly sustainable packaging solution.

EU regulation paves the way

The upcoming Plastic Packaging Waste Regulation (PPWR) in the European Union (EU) represents a pivotal moment for the packaging industry. This regulation, anticipated for formal approval by the end of 2024, will incentivise the adoption of more sustainable and circular packaging alternatives. With potential enforcement commencing in the summer of 2026, PPWR will have a comprehensive impact across all 27 EU member states. Pro Carton supports PPWR, recognising its potential to establish a robust foundation for a truly circu-

lar packaging industry within the EU, and hopefully lead non-EU member states into a similar circular economy for packaging standardisation.

Separate and harmonised collection is key

Recycling is the cornerstone of a circular economy for packaging and it's largely down to consumer action – something we must remain aware of. The efficacy of sorting and collection systems is paramount. Our industry voices out the importance of separate collection for fibre-based packaging harmonised across Europe. This helps to avoid recontamination and secures the best recycling results.

Europe boasts an impressive 82.5% recycling rate for paper and cartonboard (Eurostat) a testament to its well-established and efficient recycling infrastructure.

Correlating to this, consumers also have high trust in the recycling efforts of cartonboard. Recent surveys reveal that cartonboard and paper packaging enjoy an 87% trust level – the highest ever recorded for these materials (Pro Carton Rethin-



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A BETTER WORLD

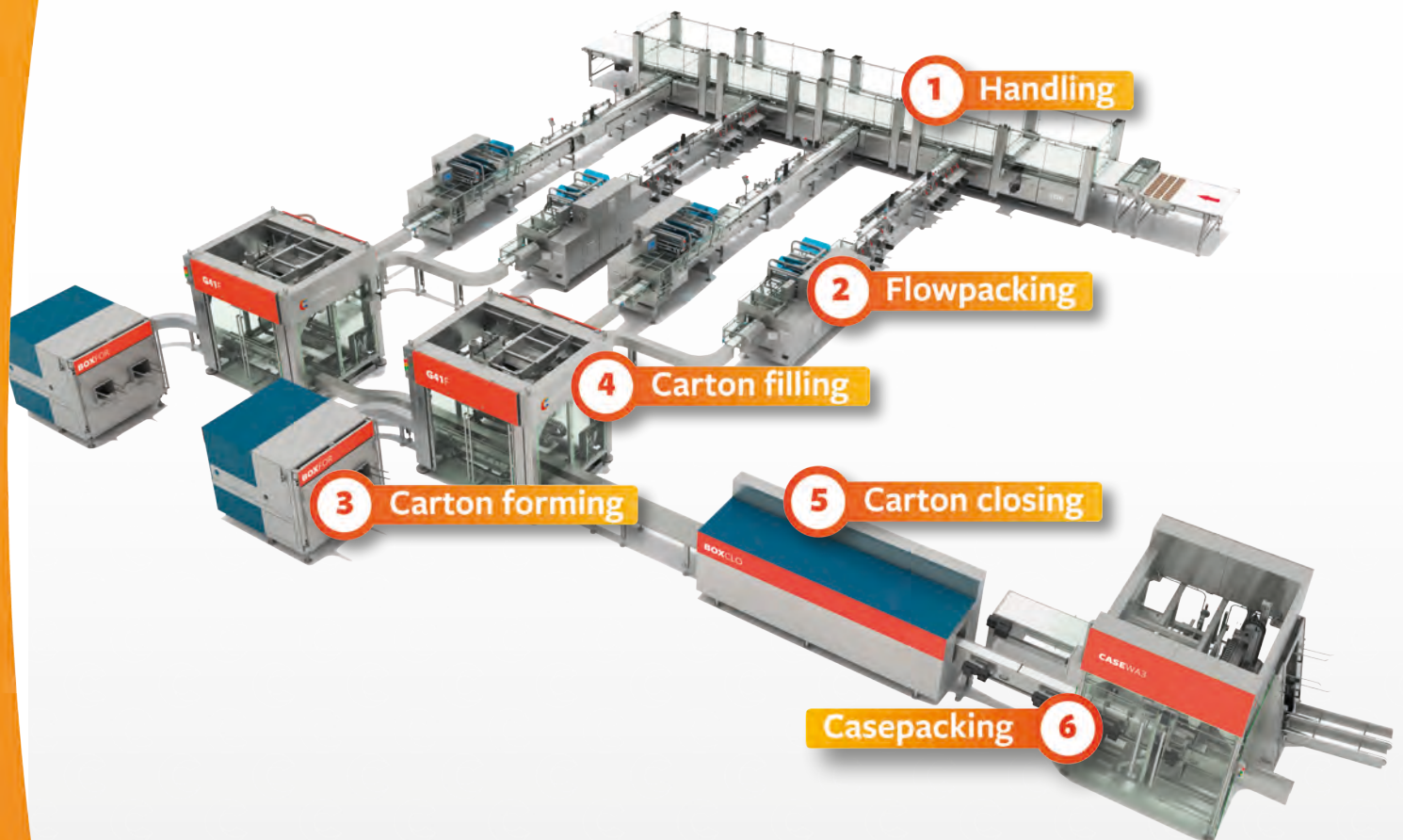


king Packaging - Consumer Survey, 2024). However, fostering this trust further is essential.

Consumers require tangible evidence of the impact of their recycling efforts, a credible system of recycled packaging material finding its way back on



Cavanna: scalable Flowpack, Cartoning & Casepacking



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- Easy to clean toolless Poke Yoke solutions
- Fully Caustic Washdown Flow Wrapping lines
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the shelves.

Balanced supply of virgin and recycled board qualities secures circularity

A well-balanced system utilising both virgin and recycled fibres is critical for European cartonboard production. Virgin fibres provide the necessary structural integrity and strength and will meet all needs on the 'whiteness' of the board or very specific food safety requirements.

Recycled fibers are most commonly used for different food and non-food applications to safely protect the product.

The supply system for both virgin and recycled board qualities is well-balanced in Europe and secures the availability of the respective qualities at any time. Packaging material suppliers together with packaging specialists on the brand owner site will carefully evaluate the best board quality for each product.

Pro Carton members are firmly committed to further refining the recycling process, enabling more mills to efficiently handle cartonboard recycling of different recycling materials .

Fibres can be recycled more than



25 times, demonstrating circular economy principles (Pro Carton, 2021). Innovation remains another key driver propelling cartonboard towards even greater sustainability. Pro Carton members actively pursue avenues to further reduce the plastic content in coatings and identify renewable materials for barrier functions. Developing barriers from renewable resources further improves the recyclability of coated cartonboard materials.

ECEA entries prove folding carton's circularity leadership

A brilliant example of this is the European Carton Excellence Award 2024 (ECEA) Sustainability Award Winner, Calma Products, by PAWI Packaging Deutschland GmbH.

The packaging can be recycled in regular paper streams and will find its way back to the shelves after recycling. The product was previously packed in plastic packaging and was transferred to a sustainable folding carton solution. An added perceived value for young parents.

Another entry of the ECEA 2024 portrays a great example of a closed

recycling loop. Cartonboard producer RDM Group aligned forces with folding carton producer Arti Grafiche & Reggiane Lai and cheese producer Granterre to create its latest Parmareggio recycled cartonboard packaging design. In a campaign starting in August 2024, the packaging will be recycled in a closed recycling loop to new cheese packaging. A genuine demonstration of taking ownership of recycling of own packaging waste and a perfect example of demonstrating leadership in circularity.

The concept of 'living circularity' is embodied in every square metre of board produced and every folding carton leaving our member factories.

We are unwavering in our commitment to keeping up consumer trust and confidence, raising the bar for sustainable packaging solutions with cartonboard.

By embracing innovation and fostering collaboration, we can collectively create a future where packaging contributes substantially to a healthier planet. 🌱

www.procarton.com





PERSPECTIVE

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

This PERSPECTIVE comprises three parts:

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



NVC NETHERLANDS PACKAGING CENTRE



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

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

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

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

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

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



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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

3. Policy recommendations for the year 2023 and beyond

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

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



Gouda, 14 December 2022
NVC NETHERLANDS PACKAGING CENTRE

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Sharing the future in packaging
www.nvc.nl

SMI the advantages of a smart end of line

The performance of end-of-line packaging systems plays a key role in ensuring an efficient production, capable of quickly adapting to market changes and improving the quality and sustainability of the final packaging of beverages, food, detergents and chemical products.

SMI automatic palletizing systems from the **APS ERGON range** represent the ideal solution for managing an uninterrupted, optimized and flexible production flow, capable of quickly switching from one format to another, according to the consumers' purchasing habits.

An example of this flexible technology is represented by the **APS 4140 L ERGON palletizer**, which stands

out for the perfect synchronization between pallet loading, palletizing layer formation and interlayer insertion.

More efficient end of line with double column palletiser

The APS 4140 L ERGON system is an advanced system equipped with two independent columns for palletizing cartons, bundles, trays and packs in general up to 140 packs per minute/400 layers per hour (variable values depending on the product) It consists of several modules that can be configured individu-

ally according to the logistical conditions of the end-of-line area and palletising needs.

The heart of the APS ERGON system consists of the two vertical columns: the first equipped with a motorised belt, while the second with a basket.

Through an innovative system of rotation and/or continuous pack handling on three Cartesian axes (x, y, z), the bundles arriving on the single-row belt are turned, translated and arranged in several rows in the position provided





by the palletising pattern, thus preforming the layer.

The first column receives the complete layer from the input module and, moving on the vertical axis, brings the product to the height of the basket of the second column; From here, through the motorised belt, the layer is inserted into the basket that deposits it on the pallet.

At the end of this operation, the basket, moving on the vertical axis, moves to the waiting position of the next layer.

Advantages

- The inlet with continuous preformation is very compact and allows the end of line spaces to be optimised.
- The layer formation system is equipped with rounded, sliding protection doors in anodised aluminum, which allow all the motors (low energy consumption) to be on the outside of the mechanical groups they operate.
- The door closure system is equipped with a deceleration device, which slows down the final phase of the cycle by accompanying the door harmoniously.
- The ergonomic and functional structure of the frame allows the operator to easily carry out all the activities related to the use and maintenance of the system.
- The accident prevention protections are made of aluminum and polished polycarbonate (PC).
- Production adapts quickly to new formats required by the market.
- Palletising schemes are optimised for truck loading.
- Format changeover times are kept to a minimum.
- The handling of the containers is



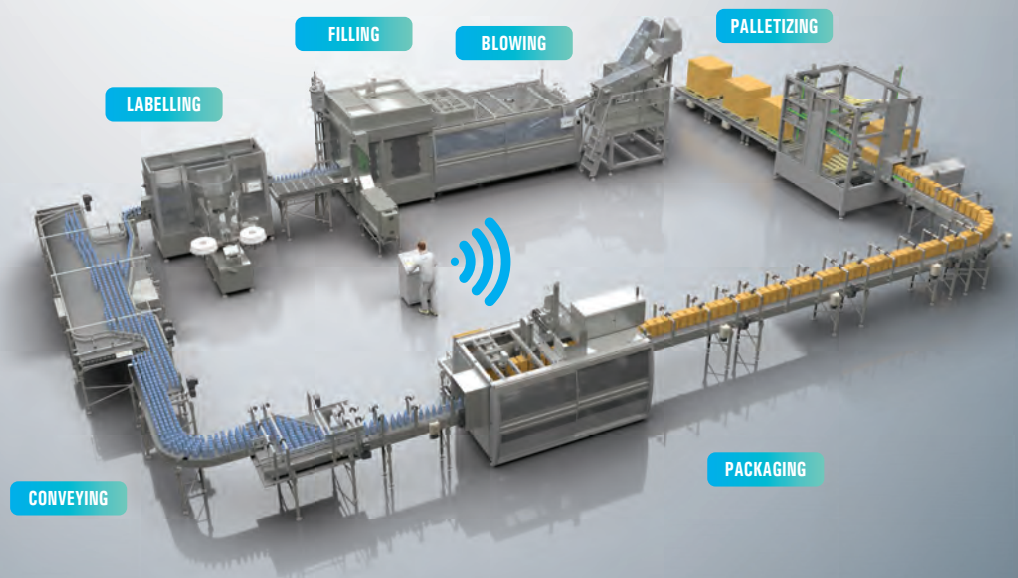
DESIGN WITH US YOUR CIRCULAR PACKAGING



IMPROVING YOUR CARBON FOOTPRINT IS EASY WITH SMI!

Our bottling and packaging systems benefit from Industry 4.0 and IoT technologies, can process recyclable materials such as rPET and allows for considerable energy savings.

Find out our solutions for packing a wide range of containers up to 50,000 bottles/hour.



fluid and avoids damage during handling.

- Use of innovative design solutions in IoT key, which reduce the operator's workload and ensure high levels of plant efficiency.
- Simple and intuitive control of all operations, which can be further optimised with the SWM supervision system for the collection, control and interpretation of production data.
- ICOS motors equipped with integrated digital servo-drive, which ensure production with reduced environmental impact and low energy consumption.

Pallet feeding system

Magazine module with a maximum storage capacity of 300 kg (pallet modules with higher capacity are

available as optional accessories) and/or a maximum total height of 1800 mm.

The system is designed according to FCR (Full Cost Reduction) methodologies and is tested and supplied to the customer full wiring and assembly.

Optional pad feeding module

It is a module composed of the pad magazine and the pad feeding unit with controlled axes, which can be combined with the central column of the APS ERGON palletiser.

The pad feeding module is a pad feeding system that can be adjusted according to the different dimensions of the interlayer.

SMI S.p.A.

SMI supplies a wide range of bottling and packaging machines with an innovative design, equipped with IoT technology, that offer smart solutions for productions up to 50,000 bottles/hour and that meet requirements of competitiveness, efficiency, flexibility, energy saving and easy management of the production plant. 🏭

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“ NEW EUROPEAN REGULATIONS ON SUGARY DRINKS: A STEP FORWARD IN THE FIGHT AGAINST OBESITY AND DIABETES ”

The European Union has recently introduced new regulations regarding the production and marketing of sugary drinks, an initiative that will come into effect next year.

These measures aim to reduce sugar consumption among the European population, directly addressing the rise of obesity and related diseases such as type 2 diabetes. Excessive sugar consumption is indeed one of the main risk factors for the development of chronic diseases, and the World Health Organization has repeatedly emphasized the need to limit the intake of simple sugars to less than 10% of total daily caloric intake. However, eating habits in many European countries show significantly higher consumption than



by [Walter Konrad](#)



latest news

this recommendation, especially among children and adolescents.

The new European directives foresee strategic interventions aimed at transforming the population's eating habits. One key measure is the gradual reduction of sugar content in beverages.

Manufacturers will have to comply with new standards that impose a maximum limit of 5 grams of sugar per 100 milliliters by 2025. At the same time, the EU requires that drink labels be clear and transparent, indicating the sugar content per serving and the corresponding ca-

loric value, as well as including warnings about the health risks associated with excessive sugar consumption.

Another crucial point of the new regulations concerns the restrictions on advertising sugary drinks.

Severe limitations will be introduced, especially in television programs and online content aimed at children, to prevent young people from being influenced by promotional messages that encourage them to consume unhealthy products. Additionally, promotional incentives such as discounts and freebies that often attract consumers to these beverages will also be limited.



To encourage positive change, the EU has also planned tax incentives for companies that develop and market low-sugar or sugar-free drinks. This rewarding approach aims to foster innovation in the sector and promote healthier alternatives for consumers.

The reactions from the beverage industry to the new regulations have been mixed. Some companies, already engaged in sugar reduction programs, have welcomed the measures, seeing them as an opportunity to innovate and differentiate their products.

Others, however, have expressed concerns about the costs of compliance and the impact on sales.

A spokesperson for a major beverage company stated, "Reducing sugar content is a significant technical and economic challenge. However, we recognize the importance of contributing to public health and are working to develop solutions that meet the new requirements without compromising the taste of our products."

Consumers' opinions are also divided. Many support the new regulations, seeing them as a necessary step to improve public health.

However, some are skeptical about the effectiveness of the measures and fear that low-sugar alternatives may not be as palatable. "I've been drinking sugary drinks for years and can't imagine a valid alternative," commented a consumer interviewed in a Milan supermarket. "However, if these measures can help prevent diseases, I am willing to try them."

The new European regulations on sugary drinks therefore represent an ambitious attempt to address one of the main public health challenges of our time.

Although there are obstacles to overcome and resistance to win, the goal of promoting healthier eating habits could bring significant benefits to the European population in the long term.

The European Union will continue to monitor the implementation of the regulations and evaluate further measures to ensure that the transition to reduced sugar consumption occurs effectively and sustainably.



BBM SERVICE: leading the rising trend toward used equipment in the beverage industry



In recent years, the demand for used equipment in the beverage industry has surged, driven by economic savings, sustainability goals, and the need for operational efficiency. Companies are increasingly choosing refurbished machinery as a cost-effective alternative to new equipment, offering significant savings without sacrificing performance. BBM Service is at the forefront of this trend, providing overhauled machinery that matches new models in functionality, while supporting environmental goals by promoting the circular economy. With quick delivery and turnkey solutions, BBM helps companies maintain agility and competitiveness in a fast-paced market.

REVISED BBM BOTTLING PLANTS: DISCOVER THE NEW OPPORTUNITIES

BBM Service's updated selection of complete bottling and packaging lines offers businesses a unique opportunity to acquire top-quality equipment with a variety of purchasing options designed to meet different needs and budgets.

Fast delivery and a wide selection

BBM's showroom features a 200+ range of complete bottling and packaging machines, including blow molders, fillers, cappers, labelers, shrink wrappers, cartoners, palletizers, and stretch wrappers. Most are meticulously overhauled and ready for

immediate customization and installation. Customers can expect significant savings, enhanced sustainability, and prompt availability, with installation completed within 120-160 days.

Three new purchasing options

BBM now offers three distinct purchasing options, tailored to different operational needs:

1. AS-IS:

This option is ideal for customers seeking immediate availability and a highly cost-effective investment. By purchasing machinery in its current condition, clients can quickly start or enhance a production line with minimal delay.

2. OVERHAULED AND GUARANTEED:

For clients who prioritize long-term reliability, BBM offers fully overhauled machinery, complete with a six-month warranty. This option ensures peace of mind, with the assurance that all equipment has been rigorously tested

and refurbished to meet the highest standards of performance and safety.

3. READY-TO-USE:

This comprehensive package includes operational machinery and a compatible spare parts kit, allowing for self-service maintenance. It is an

ideal solution for businesses with an in-house maintenance team, providing everything needed for smooth and efficient production.

These options allow clients to choose the solution that best fits their operational requirements and investment capabilities.

Below are some of the standout offerings from BBM's current inventory.

Note that "bph" refers to the nominal capacity of the plant ("bottles per hour"):

PET Bottling Plant for Still and Sparkling Water, Soft Drinks – 6,000 BPH (blow molder to shrink wrapper)



PET Complete Bottling Plant for Still and Sparkling Water, Soft Drinks – 6,000 BPH (from blow molding to stretch wrapping)



PET Bottling Plant for Still and Sparkling Water, Soft Drinks – 12,000 BPH



PET Bottling Plant for Still Water - 18,000 BPH

Featuring a combi system



PET Bottling Plant for Still and sparkling Water - 18,000 BPH



PET Bottling Plant for Still Water - 21,000 BPH.

Solution with a COMBI machine, perfect for those who need space optimization



PET Bottling Plant for Still and Sparkling Water - 21,000 BPH



PET Bottling Plant for Still and Sparkling Water - 22,000 BPH

A larger-scale solution offering a complete bottling line, ideal for businesses seeking to expand their production capacity.



Returnable Glass Bottling Plant - 10,000 BPH

Suitable for water, soft drinks, beer, and wine, this plant supports the trend toward eco-friendly, returnable glass bottles.



Flask Bottling Plant - 1,400 BPH

Specially designed for alcoholic products and is perfect for distilleries looking to scale up production.



Complete bottling plants - available now

BBM Service's updated catalog showcases a wide variety of bottling plants, catering to different capacities and beverage types. Whether your company produces still or sparkling water, soft drinks, or alcoholic beverages, BBM has a solution ready to meet your needs.

Browse the complete BBM used equipment catalog

Clients can browse the full range of available machinery and receive personalized quotes tailored to their specific needs.

Whether you are looking to purchase, sell, or upgrade your equipment, BBM is your go-to partner for innova-

tive and sustainable solutions in the beverage industry. Browse the catalog:



Additional features and services

BBM Service goes beyond just providing machinery. The company offers several optional features and programs designed to enhance the efficiency and safety of production lines:

1. Buy-Back of existing plant:

BBM is committed to helping businesses maximize their return on investment. The company offers to assess decommissioned lines, purchasing machinery with market potential and safely disposing of other equipment.

2. Technical assistance and engineering: complete customer support

With 20 years of experience and a team of more than 50 qualified technicians, BBM Service offers a wide range of technical assistance services to support clients. These include disassembling and relocating production lines, format changeovers, scheduled maintenance of plants, and staff training. The company also provides remote assistance through a HOTLINE service, offering personalized packages to respond quickly to client needs and ensure a rapid production restart.

BBM Service also stands out for its expertise in highly specialized engineering interventions. BBM's portfolio includes machinery upgrades aimed



at improving energy efficiency and reducing operating costs. BBM is a leader in upgrading blow molders, achieving energy consumption reductions of up to 35% through targeted and customized installations.

3. Spare parts: a reliable and cost-effective solution

BBM Service specializes in supplying mechanical, pneumatic, and electronic spare parts compatible with leading industry brands. With

a 1,800-square-meter warehouse, BBM ensures fast delivery and minimal waiting times. Their parts are tested in certified labs, offering high quality at prices 10-20% lower than market averages. Regular clients benefit from discounts and customized spare parts stock, optimizing warehouse management and reducing costs. BBM also offers marked parts for easy identification and traceability. To ensure continuous production, the company has implemented a minimum stock program and will launch an e-commerce platform for spare parts in early 2025. 🏪

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Spare parts. BBM's mechanical and electronic spare parts are compatible with the major OEMs. The highest quality of free pass material is provided at prices 10-15% lower than market average; BBM's team of foreign agents facilitates spare parts supply in EU and EXTRA-EU territories.

Technical support. A team of over 50 technicians offers a complete range of services to support the customer throughout the life cycle of machines from the main OEMs.

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“ TRENDS IN THE EUROPEAN BEVERAGE MARKET: PET OR GLASS? ”

The European beverage market is undergoing significant transformation, driven by increasing environmental awareness and new regulations.



by the editorial staff

Beverage manufacturers face a crucial dilemma: continue using PET or revert to glass? This decision is not just a matter of corporate preference but involves complex considerations related to the environment, economy, and consumer expectations.

In recent years, PET (polyethylene terephthalate) has been the dominant material for beverage packaging. Its characteristics of lightness, strength, and relatively low



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cost make it a practical choice for many companies. Additionally, PET is easily recyclable, and recycling infrastructures are well developed in many parts of Europe. However, despite these advantages, the use of PET is increasingly criticized for the environmental impact associated with its production and waste management. Plastic remains a significant problem for marine and land pollution, and public perception is influencing corporate strategies.

In this context, glass is experiencing a resurgence. Historically used for beverage packaging, glass is perceived as a more sustainable choice. It is completely recyclable and can be reused multiple times without losing its properties. Moreover, the transparency and premium appearance of glass can enhance the product's image in consumers' eyes. However, glass also has its drawbacks: it is heavier and more fragile than PET, leading to higher transportation and handling costs. Additionally, the glass production process is highly energy-intensive.

Beverage manufacturers must therefore balance various factors. On the one hand, using glass can improve corporate image and meet the expectations of increasingly sustainability-conscious consumers. On the other hand, operational and logistical costs associated with glass could negatively impact profit margins. Some com-

panies are exploring hybrid solutions, such as using recycled PET or bioplastic, which can offer a compromise between sustainability and practicality.

Government policies play a crucial role in this transition. Many European countries are introducing stricter regulations to reduce the use of single-use plastics and promote recyclable materials. These regulations can incentivize companies to invest in more sustainable packaging solutions. However, the transition requires time and significant investments in infrastructure and innovation.

Finally, consumer behavior is a decisive factor. Consumption trends are changing, with a growing preference for eco-friendly products. Companies that can effectively communicate their commitment to sustainability can gain a competitive advantage. However, it is essential that these strategies are supported by concrete actions to avoid accusations of greenwashing.

In conclusion, the future of beverage packaging in Europe might see a mix of materials, with glass playing a more prominent role alongside innovative solutions in recycled plastic.

Companies will need to adapt quickly to these trends, balancing sustainability, costs, and consumer expectations to thrive in an ever-evolving market.



BrauBeviale 2024: **TIMMER** presents efficient vacuum and fluid technology for the beverage industry

- *New FluidFit product series for conveying liquids*
- *Precise and reliable: D4 glue pump*
- *quickLIFT and heavyLIFT vacuum hose lifters for ergonomic lifting*

Discover efficient solutions for the beverage industry live: Timmer will be presenting its latest handling and fluid technology products at this year's BrauBeviale. The trade fair presentation will focus on solutions for optimising production processes and improving occupational safety. Among other things, visitors can expect to see versatile vacuum hose lifters, the precise D4 glue pump and the modular FluidFit system with plug-in connectors for conveying liquids. Whether for barrel storage, labelling or transporting crates - the demands in beverage production are high and require efficient solutions. 'Our product portfolio covers the key processes in the beverage industry and helps companies to optimise processes and make workstations more ergonomic,' says Michael Moser, Key Account Manager at Timmer.

For more ergonomics in the workplace, Timmer offers a wide range of vacuum hose lifters that safely lift and lower heavy goods. At BrauBeviale, the Neuenkirchen-based company will be presenting the quickLIFT and the heavyLIFT, two of its tried-and-tested lifting aids for a wide range of applications.

The quickLIFT is characterised by its versatility and ease of use. This solution enables fast and precise pick & place handling of light to medium-heavy loads. Thanks to the optional integrat-



The glue pump from Timmer is characterized by its precision and reliability in the dosing of glue and adhesives.



The connectors in the FluidFit product series are new to the Timmer range. The advantages are a tool-free assembly and the wide product range.

ed multi-suction unit, the hose lifter can safely pick up a wide variety of materials - from cardboard boxes to sensitive packaging. 'Our quickLIFT is an ideal solution for the beverage industry, as it not only simplifies the handling of crates and packaging, but also significantly improves ergonomic conditions in the workplace,' says Moser. For heavier loads, Timmer presents the heavyLIFT. Equipped with a keg turner, the tube lifter enables the safe lifting, turning and emptying of heavy keg.

Precise dosing and flexible liquid delivery

Another highlight at the Timmer stand is the D4 glue pump. It stands for precision and reliability in the dosing of glue and adhesives, which plays a central role in the labelling of bottles and packaging in particular. The pump is optimised for an even and controlled supply of glue and therefore ensures a smooth production process with minimal material consumption. 'Our glue pump is extremely precise and low-maintenance, which makes it the perfect choice for automated production processes,' explains Moser. 'It not only contributes to a more efficient use of resources, but also ensures consistently high product quality.' For the first time at BrauBeviale, Timmer is presenting the FluidFit system, which has been specially developed for flexible liquid conveying. Thanks to their simple, tool-free assembly, the connec-



The vacuum hose lifters from Timmer improve ergonomics and efficiency in the workplace. 29 bellows suction cups ensure a wide range of applications.



tors are easy and versatile to use in production environments. The food-grade connectors made of acetal copolymer are fitted with EPDM O-rings and are available in various sizes. In addition to the connectors, the range also includes non-return and throttle valves, which are ideal for confined spaces and precise flow control.

Timmer GmbH will be exhibiting at BrauBeviale in Nuremberg from 26 to 28 November 2024 in Hall 4, Stand 4-107. 🏢

Further information at www.timmer.de

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.



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



Cold glue stations



Adhesive stations (SLIM)



Roll-Feed stations



Hot-melt stations

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 labelers: The 6,000 b/h to 40,000 b/h production speed and use of wrap-round 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.com



“ ARTIFICIAL INTELLIGENCE IN WINERIES: INNOVATION SUPPORTING WINEMAKING TRADITION ”

Artificial intelligence (AI) is revolutionizing numerous sectors, and the world of viticulture is no exception. When it comes to cellar management, winemakers are beginning to discover the advantages of a technology that promises to enhance efficiency, optimize production processes, and, most importantly, maintain high-quality standards.



by the editorial staff

AI can be seen as a tool capable of transforming the ancient tradition of winemaking into a more precise and modern art without losing touch with the craft's roots.

One of the most interesting aspects of AI applied to cellar management is its ability to analyze vast amounts of data collected throughout the entire production process. Thanks to increasingly advanced sensors and monitoring tools, it is now possible to track every single parameter, from the microclimate in which the grapes mature to the fermentation and aging of the wine. Based on this data,



AI can make accurate predictions and suggest targeted interventions to prevent errors, improve the final product's quality, and reduce waste and costs.

For example, one of the most crucial moments in wine-making is the grape harvest. In the past, this decision was solely based on the winemaker's experience.

Today, AI can complement that experience with precise data by analyzing humidity, temperature, and the chemical composition of the grapes to determine the ideal time for harvesting. This ability to predict and respond in advance to environmental variables marks a significant leap forward compared to traditional methods, where unpredictable weather conditions could compromise entire harvests.

Equally important is the management of the wine aging process, a delicate phase in which even slight varia-

tions in temperature or humidity can influence the final result. AI allows for real-time monitoring of these parameters and instant adjustments to ensure that the wine reaches the desired quality.

This is especially useful in large-scale wineries, where manual control of each barrel is challenging.

In addition to improving production processes, AI can also significantly impact wine marketing.

By analyzing consumer preferences and market trends, it is possible to predict which wines will be more successful and how best to position products in the market.

This type of analysis, based on big data, helps wineries make more informed strategic decisions, reducing the risk of producing or promoting wines that may not resonate with consumers.



However, using AI in viticulture does not mean replacing human expertise but rather complementing it.

While AI can provide precise insights based on mathematical models and algorithms, the role of the winemaker remains crucial. Their experience and knowledge of the land enable them to interpret and apply these insights effectively. After all, wine is and will always be a product of the earth, embodying not only scientific processes but also passion and creativity.

In conclusion, integrating AI into cellar management represents a natural evolution for a sector that, despite its ties to tradition, has always embraced innovation. In a world where efficiency and sustainability are becoming increasingly important, AI could be the key to facing future challenges without sacrificing the quality and authenticity that define exceptional winemaking.



Online auction machinery for the food industry in Oirschot (NL)



Online auction machinery for the food industry due to closure Glenmar Shellfish in Cork (IE)



Online auction machinery for the food industry in Saint-Pantaléon-de-Larche (FR)



Online auction automated can sterilization, labelling and palletizing line in Dungannon (UK)



Online auction machinery and inventory for the production of snacks and convenience products in Deurne (NL)



Register for free

Find and bid

Win

Pay and pick up

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 im-

mediate 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 Mana-

ger. 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.



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

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 Vetro-pack's sustainability goals. The entire fleet 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

Braubeviere 2024: KHS presents its holistic line concept

Pioneering filling technology combined with extensive inspection technology, the new Plasmax generation and a broad spectrum of service products are the focus of this year's trade show for the KHS Group.

- Compact high-tech: the Innofill Can C can filler
- Plasmax coating technology: the new machine generation
- From modular service packages to smart digital products

"We'll be demonstrating how our advanced technologies and wide range of service concepts optimize our customers' production processes and at the same time help to protect the environment in the long term," says Tobias Wetzel, CSO at KHS, of the company's pending visit to Brau-Beviere. T

he Dortmund turnkey supplier will again be one of the biggest exhibitors at the show. "At our customers' side as a partner they can depend on, we're actively helping to shape the future of the beverage industry with our convincing combined new and further developments in high-precision filling technology, intelligent

packaging systems and smart services," Wetzel continues.

Line concept in focus

As just one example of its extensive line expertise, KHS will be showcasing its successful compact Innofill Can C can filler model. Together with the powerful seamer unit manufactured by Swiss partner Ferrum, the filler achieves an output of up to 60,000 cans an hour. It can be perfectly integrated into medium-capacity beverage lines, particularly in conjunction with KHS process technology or its inspection technology that has been successively expanded over the last few years. The latter includes, among

other units, the Innocheck MMS machine management system that localizes and assesses faulty filling valves and closure elements, the newly-developed Innocheck FHC that checks fill levels by X-ray and the Innocheck ECI empty can inspector. This examines empty cans for foreign bodies and damage.

Furthermore, an extension retrofittable on existing lines enables previously undetected blind spots to be identified. "With our systems and solutions that have proved themselves on the market many times over, we're not only improving the quality of production but also increasing safety and efficiency," says Wetzel.





Sustainability plus product protection

One solution to the demand for circular packaging is provided by the unique technology of the latest-generation InnoPET Plasmax. This coating process for PET containers covers the insides of plastic bottles with an ultra-thin layer of glass.

Available as a single machine or blocked with a stretch blow molder and/or additional filler unit, it provides highly effective production protection that unifies optimum quality, freshness and shelf lives with 100% recyclability by type.

Digital planning and extensive consultancy

Progressive technology isn't all that's needed to ensure trouble-free, continuous line operation, however. This is why KHS also offers a broad range of service products and consultancy services. These include, for instance, modular service packages that make sure that beverage fillers' production lines run efficiently and without di-

sruption. Unplanned downtime and unexpected consequential costs are thus avoided. Virtual line design at KHS makes use of up-to-the-minute 3D software that gives customers a holistic impression of their potential line as early as during the offer phase. Thanks to the new mobile laser scanning and virtual reality presentation features, advance planning is now even quicker and more detailed.

KHS will also be enabling visitors to explore its selection of digital services using ConnectApp Guide and its MES systems InnoLine Basic Line Monitoring (BLM) and InnoLine Flex Control (IFC). ConnectApp Guide addresses the challenges of line maintenance. It facilitates digital, paperless maintenance management

by flexibly planning servicing tasks across all sections of a company using a web platform that can be accessed by a mobile app. This gives bottlers greater reliability in maintenance that in turn results in less downtime and optimized production performance. InnoLine BLM and IFC are modular software packages specially conceived for the beverage industry that ensure transparency and greater efficiency throughout the entire filling process. Both can be perfectly integrated into the operating company's infrastructure.

The KHS Group will be in Hall 8 at BrauBeviale from November 26 to 28, 2024. 🏛️

www.khs.com



PARADE LABEL WS LINEN enhances both performance and visual appeal

Sappi supplements its wet-strength label paper portfolio with a new embossed version

Sappi Europe, the leading global manufacturer of speciality papers, is expanding its portfolio of wet-glue wet-strength label papers with a linen embossed version of its successful Parade Label WS label paper. Produced at Sappi's Gratkorn mill in Austria, the new Parade Label WS Linen exhibits excellent printing and converting results – targeting applications such as returnable beverage bottles. It boasts outstanding results both in terms of performance and visual appeal. The

paper's launch at the beginning of October coincides with the completion of Sappi's significant investment project at its Gratkorn site. Two years ago, in September 2022, Sappi announced the investment of tens of millions of euros in a state-of-the-art technical infrastructure at the site. The project was aimed at ensuring production capacities of wet-strength, alkali-resistant label papers in the future and at establishing its position as a full-range supplier of label papers over the long term.

- Parade Label WS Linen elevates label performance and visual impact
- Validation results: confirmed precision and speed for premium brands
- Investment project at Gratkorn mill successfully completed
- Sappi: a reliable partner for the beverage industry

Parade Label WS Linen: impressive performance and visual appeal

Sappi's Parade Label WS, a wet-strength and alkali-resistant label



Sappi Europe is expanding its portfolio of wet-glue wet-strength label papers with a linen embossed version of its successful Parade Label WS label paper grade.

paper, which is now established on the market, has convinced users worldwide with its impressive printing and finishing results. With the company's latest new product – Parade Label WS Linen – Sappi continues its success story with wet-glue label papers. This one-side double coated wet-strength paper primarily targets wet-glue label applications, such as returnable beverage bottles.

Linen embossing not only enhances the visual appearance, but also label functionality, which results in superior labelling performance due to improved separability of the labels and greatly reduced static adhesion. The paper, available in 65, 68, 70, 75 and 80 g/m², also ensures superior washability of the labels in the bottle preparation process for reuse. This works especially well with papers which have been metallised to create eye-catching labels.

Sappi will be presenting its new Parade Label WS Linen as well as many other great products for beverage applications at this year's Fach-Pack (24 to 26 September) in Hall 4A, Stand 306 and BrauBeviale (26 to 28 November 2024) in Hall 4A, Stand 410 in Nuremberg.

Successful validations of labelling performance and visual impact

It was only in September 2023 that Sappi launched Parade Label WS in the classic Gloss version. Since then,

the wet-strength and alkali-resistant paper is being produced and delivered to selected customers – as part of a long-term validation programme which now comes to an end. The validations, carried out with brand owners as well as converters and printers, delivered convincing results in terms of quality and performance. Brand owners were satisfied about the paper's exceptional display of their brand image and flawless labelling performance – even with high-speed labelling lines at up to 70,000 bottles/hour. Converters and printers were positively impressed with the high printing speed and excellent printing results achieved with Parade Label WS.

Sappi encourages its customers to take advantage of this validation option. Product samples are available to all interested parties who are invited to simply contact Sappi at psp@sappi.com.

Sappi successfully completes significant investment project at Gratkorn mill

The launch of Parade Label WS Linen coincides with the completion of Sappi's investment project at its Gratkorn site. In September 2022, Sappi announced its aim to significantly expand its label paper business through a long-term double-digit million investment. The project entailed the adaptation of production capacities for label papers to the increasing needs of the beverage industry – as well as capacities to produce high-quality wet-strength, alkali-resistant label paper

in the future. Paper grades such as Parade Label WS and its sister product Parade Label Pro, developed for high-quality non-wet-strength labels in the food, beverage and consumer goods industries, are greatly benefiting from integrated pulp production as well as state-of-the-art production and converting equipment, such as a new embossing calender. The third label paper produced at the Gratkorn mill is Sappi's successful Parade Face Semi Gloss for self-adhesive labels.

Reliable partner in production, availability, supply and support

With the investment, Sappi has strengthened its Austrian site as a key centre for label papers within the Group's mill network and established itself as a reliable partner to the beverage industry.

Together with its other plants in Alfeld (Germany), Carmignano (Italy) and Somerset (USA), Sappi is ideally positioned to ensure the reliable supply of premium label papers. State-of-the-art production facilities enable flexible production cycles and thereby fast availability. Innovative back-up solutions, seamless supply chains and quick deliveries – ensured thanks to logistics chains built up over decades and supplemented by outstanding support technology – enable Sappi to successfully meet its customers' diverse needs. 🏭

www.sappi.com

sappi

TARNOS vibrating technology for packaging processes

Electromagnetic vibrating machines have emerged as indispensable tools in various applications, from weighing lines to alignment, calibration, and counting processes. Leveraging electromagnetic principles, these machines offer unparalleled accuracy and reliability, revolutionizing how industries approach tasks requiring precise measurements and meticulous control.

One of the primary applications of electromagnetic vibrators is in weighing lines, where precise measurement of materials is essential for quality control and process optimization. **Tarnos Electromagnetic vibrating feeders** are employed to deliver materials uniformly and accurately to weighing scales, ensuring consistent and reliable measurements. The controlled vibration and the instantaneous regulation of the flow, helps prevent material compaction and ensures proper flow, thereby enhancing the accuracy of weight measurements.

Furthermore, electromagnetic vibrators play a crucial role in aligning and calibrating during manufacturing processes with controlled vibrations, minimizing errors and improving accuracy. In industries where batch processing and precise counting are essential, electromagnetic vibrating machines offer an ideal solution. Vibratory counters utilize controlled vibrations to accurately count and dispense individual components or products, ensuring consistency and efficiency in batch production.

The use of electromagnetic vibrating machines offers several advantages in industrial applications:

- **Precision:** Electromagnetic vibrators provide precise control over vibrations with instantaneous regulation, ensuring accurate measurements and alignments.
- **Reliability:** These machines are known for their reliability and durability, making them suitable for continuous operation in demanding

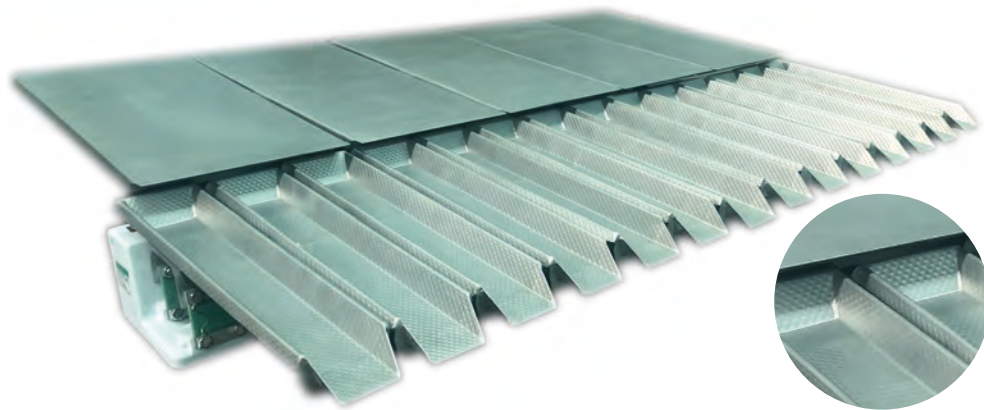
industrial environments, reducing downtime and maintenance.

- **Versatility:** Electromagnetic vibrating machines can be easily integrated into existing production lines and automated systems, enhancing overall efficiency and productivity.
- **Consistency:** By eliminating manual intervention, these machines ensure consistency in measurements, alignments, and counting processes, minimizing errors and variability.
- **Regulatory compliance:** The specifications and finishes meet high hygiene standards with edgeless designs, dust and water protection IP-66, stainless components, and FDA paint.

Electromagnetic vibrating machines have transformed industrial processes, offering unparalleled precision, reliability, and efficiency in tasks such as weighing, alignment, calibration, and counting. They are optimizing

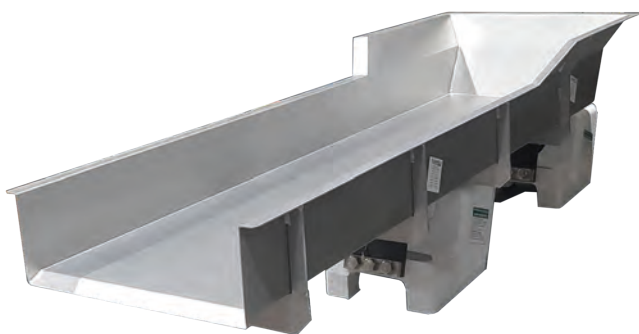


Feeders and Sieves for packaging lines ***Dosing elevators and weighers***



- Accurate feeding
- Versatility
- Product care
- Compliance with strict hygiene standards
- Customized designs

- Manual or remote control
- Instant regulation
- Zero maintenance
- Water and dust protection IP-66
- Stainless steel components
- FDA painting



(+34) 91 656 41 12

tarnos@tarnos.com

www.tarnos.com



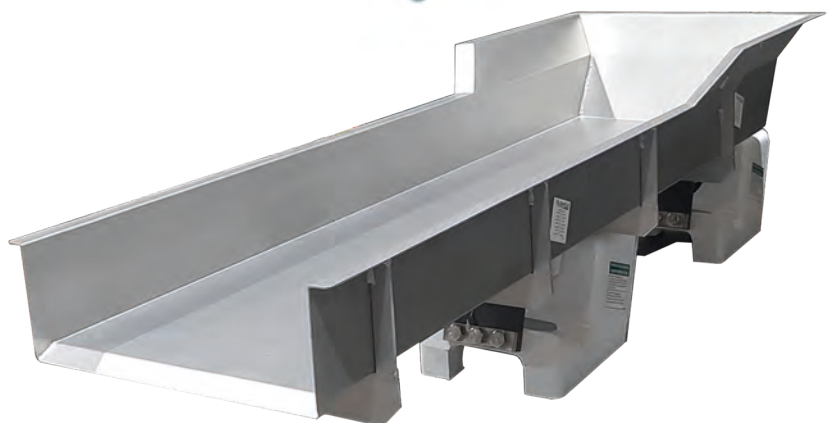
weighing lines in food processing playing a crucial role in enhancing product quality and process efficiency across diverse industries. As technology continues to advance, the integration of electromagnetic vibrating machines with automation and digitalization trends will further elevate their role in shaping the future of industrial automation and production.

TARNOS has designed and manufactured this kind of Vibrating Material Handling Equipment for more than 60 years with the support and know-how of a strong pioneer in this field, Syntron.

The participation in many projects and applications through all these years, and even in different industries, provide the company with experience to solve problems in many critical handling processes. 🏭

www.tarnos.com

TARNOS



TECAU: innovation and quality in meat processing machinery

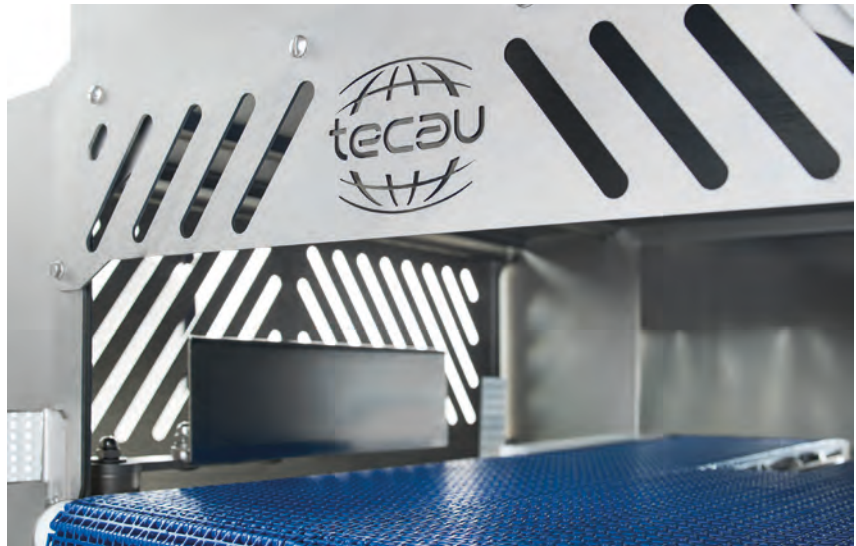
In the food industry, automation and optimization of production processes are essential to ensuring competitiveness.

TECAU, a company based in Reggio Emilia, has established itself as a leader in the development of industrial machinery for processing ham and cured meats, thanks to its constant commitment to innovation and quality. This philosophy has led to the creation of custom-made technological solutions capable of improving customers' efficiency and profitability.

By collaborating with leading food companies, TECAU has developed machinery that optimizes every stage of production, reducing time and automating processes.

Designed and CE certified in Europe, these products comply with the strictest regulations.

Another strength is the technical service, which ensures rapid intervention to resolve any issues, minimizing downtime. Post-sales



support and maintenance guarantee the proper functioning and continuous updating of machinery, extending their operational life.

TECAU also stands out for its ability to modernize and transform existing plants, offering customized

solutions to improve production times and costs. In an evolving industry, the company positions itself as a reliable partner, putting into practice the values of innovation and quality that guide every project. 🏢

www.tecausrl.com



SOTTORIVA: 80 years of excellence

When a company has 80 years of experience behind, every machine becomes a concentrate of quality and value.



In fact, this important milestone occurs in 2024: the historic company Sottoriva, founded in 1944 in Marano Vicentino (VI) Italy, is now a renowned manufacturing company that has proudly carried the Italian flag all around the world ever since.

It is a brand that over the years has become a quality synonymous of products and services offered to all its customers, grown from an artisanal business to a le-

ading role in the manufacturing of bakery machines and lines.

The passion for the "Art of Bakery" made the brothers Giuseppe and Claudio Sottoriva give life to what is now one of the world's leading companies for the production of machinery, semi-automatic and automatic lines, designed for both small and large bakery companies.

Sottoriva's range of machinery is totally designed and manufactu-

red in-house, in order to be able to guarantee its customers the highest possible quality and after-sales service, as well as proven durability over time. This is why Sottoriva products, constantly monitored at every stage of production, stand out for their safety, reliability and ease of use. The manufacturing unit, the heart of the company, avails itself of the collaboration of highly professional personnel, who take care of each single product thanks to





the support of the most modern technologies: from the Jgalileo management software to the three-dimensional CAD for mechanical and electronic design, to the CAM for the management of the software of computerized numerical control machines.

The wide range of products offered by Sottoriva varies from machines designed for small businesses, such as bakeries, pastry shops and pizzerias, which are well suited to a small but quality-conscious production, to customized automatic systems designed for large industrial companies.

Among the former, the iconic double arm mixers IBT, still manufactured in cast iron casting to guarantee extreme solidity and durability and the spiral mixers certainly deserve a mention.

Standing out among these is Sottoriva's latest addition, the Sintesi +, a perfect combination of ex-

perience and innovation. Thanks to the new touch screen control panel, it can work both in manual and automatic mode, allowing you to memorise up to thirty recipes of eight phases each to manage mixing times, speed and any pauses.

However, it was in the second half of the 1990s that Sottoriva began to focus its attention not only on small bakeries but also on the large industries that were gaining a foothold in the bakery sector.

The emerging production needs require an increase in production in the shortest possible time, guaranteeing uniformity and consistency in the results: Sottoriva's technology thus shifts to automatic plants and lines, which today represent an essential part of the production.

Such as the Bread Line, the flagship of the Sottoriva catalo-

gue: a line for the production of loaves and baguettes, also available with tray loading system that can reach a maximum production of 4,500 pieces/hour.

One of the lines most appreciated by Sottoriva's customers is the Roll Line: a completely modular line designed for the production of hamburgers, finger rolls, hot dogs and stamped products, with a weight range from 20 g to 220 g and a maximum production of 15,000 pieces/hour at 6 rows. 🏠

Discover the full range of Sottoriva products at www.sottoriva.com

Stainless steel pallet trucks and stackers by BADA: quality, reliability, and safety

Why choose BADA stainless steel pallet trucks and stackers? BADA, a leading company in the production of high-quality pallet trucks and stackers, offers a comprehensive range of stainless steel models designed to meet the specific needs of the food industries. Stainless steel provides unparalleled resistance to corrosion, stains, and wear, making it the ideal choice for heavy-duty use in aggressive environments with high hygiene standards. BADA's stainless steel pallet trucks and stackers ensure significantly longer service life compared to standard steel models, offering a secure and profitable investment over time. The smooth, non-po-

rous surface of stainless steel facilitates cleaning and sanitization, making BADA pallet trucks and stackers perfect for environments with strict hygiene protocols. The ability to thoroughly wash with water and aggressive detergents without risking damage to the machinery allows for high standards of cleanliness and prevents the proliferation of bacteria and pathogens.

BADA places maximum emphasis on the reliability and safety of its products. The stainless steel pallet trucks and stackers are built with high-quality components and subjected to rigorous testing to ensure flawless operation even under intense working conditions. BADA designs its stainless steel pallet trucks and stackers with great attention to ergonomics to minimize operator fatigue and





maximize productivity. The ergonomic handle, intuitive control levers, and optimal component layout reduce physical effort and improve posture during use, promoting safer and more comfortable work.

In a context where hygiene and safety are of primary importance,

the use of equipment made of stainless steel represents a strategic and necessary choice. BADA Material Handling, with its proven experience and dedication to quality, stands out as a reliable leader in this field. Thanks to stainless steel, BADA pallet trucks and stackers not only last longer but also maintain an optimal level

of performance over time. This resistance to corrosion ensures that surfaces remain intact and uncontaminated, thus protecting food products from any risk.

The quality of BADA Material Handling's stainless steel products represents a winning combination of corrosion resistance, ease of cleaning and robustness.



These characteristics make them ideal for the food industry, where reliability and compliance with hygiene standards are of vital importance. BADA Material Handling is committed to providing solutions that not only meet but exceed the sector's expectations, guaranteeing products that contribute to the safety and efficiency of food operations. Choose BADA stainless steel pallet trucks and stackers for maximum reliability, safety, and durability over time. Contact us now by emailing info@badamh.com or visiting our new website at

badamh.com 

“PRECISION FARMING BENEFITS EVERYONE”

Precision farming brings countless benefits. It reduces costs for those who adopt it, improves food safety and traceability throughout the supply chain, and ensures consumers enjoy safer, less contaminated products. It also benefits the planet, thanks to the sustainable footprint of this small revolution made possible by technology.

Technology is transforming every area of our lives: from communication to medicine, from education to shopping. The agricultural sector is no exception, and one innovation spreading widely - after initially being used only by pioneers - is precision farming. Along with Agriculture 4.0, it is revolutionizing modern farming.

In essence, precision farming is an approach that uses advanced technology to optimize crop and resource management. This involves tools like sensors, GPS systems, drones, and satellite images, which allow farmers to monitor factors that help optimize crops in real time. Some examples include



by
Elisa Crotti



plant health, soil composition, moisture, weather conditions, and even the presence of pests.

By applying resources like water, fertilizers, and pesticides only where and when they are needed, precision farming significantly reduces costs through greater efficiency.

Reducing costs

Savings from precision farming can vary based on factors such as the type of agriculture and the technology used, but overall, its cost-effectiveness is undeniable.

Optimizing the use of water, fertilizers, and pesticides can reduce material costs by 10-20% or even more. Crop yields can increase by 5-30%, while savings typically range from 10-15%. For farmers, this often means profit margins improve by 15-20%.

The advantage for those who choose precision farming is clear, and it is a solution that any type of farm can adopt. But the benefits don't stop there. They also translate into greater sustainability for the business, with reduced use of chemicals and less soil erosion.

The value of traceability

Precision farming addresses global sustainability challenges, but it also supports traceability and food safety, which are top priorities for consumers. This need for traceability often originates from companies at the start of the supply chain, such as processing industries or consortia, which require it to add value to their products in the eyes of consumers.

The data collected through precision farming can provide final consumers with information about where the raw materials for a product were grown (even specifying the exact plot of land), the farming practices used, and the environmental impact of the production process from field to table.

This information can be easily accessed via a QR code, and traceable products tend to be more valuable, benefiting farmers as well.

Food safety for a virtuous supply chain

Precision farming plays a key role in food safety, benefiting the entire supply chain. Advanced technologies allow for more precise monitoring and control of agri-





All image on freepik.com

cultural processes, reducing contamination risks and improving product quality. For example, the targeted and reduced use of pesticides and fertilizers lowers the risk of chemical residues in food.

Monitoring soil and water conditions helps detect potential contamination, preventing harmful substances from spreading to crops. Additionally, early detection of diseases or pests reduces the need for intensive chemical treatments, ensuring healthier food.

Some disadvantages

Precision farming is highly beneficial, but it has some drawbacks that need addressing.

One challenge is the technical skills required to use the technologies and interpret the data. Farmers must be ready to invest in training their staff or collaborate with external professionals to bridge these gaps.

Another significant factor is the initial cost of implementing these technologies. This requires investment, which may need to be supported by funding.

Building a network

To fully harness the potential of precision farming, it's essential to bridge the knowledge gap between farmers, technicians, and innovators, creating a virtuous cycle that also involves institutions.

Widespread adoption of these technologies requires not just investment in advanced tools, but also in training and the dissemination of necessary skills.

This is the only way to optimize agricultural production, reduce waste and environmental impact, and ensure sustainable food safety in the long term.

Investing in precision farming today means building a future where agriculture is more efficient, resilient, and able to respond to global challenges like population growth and climate change.

These challenges require expertise, innovation, synergy, and collaboration across the network.

C&G, PLANTS for the treatment of industrial wastewater

C&G Depurazione Industriale Srl is an Italian company which has been designing and manufacturing plants for the treatment of industrial wastewater around the world for over 40 years, with the aim of providing clients with a complete, personalised service which fully respects the environment around us.

The company has a team of engineers and highly specialised personnel that follows each client from the design to the construction and installation of the machine, including assistance and post-sales maintenance.

C&G supplies machinery and support technologies to a wide variety of production sectors with one common objective: to treat and improve the quality of a particular liquid.

The main sectors where our products are applied include galvanic industries, where it is possible to recover Chrome VI, Nickel, Brass, Copper and precious metals, while treating the wastewater produced by these industries. Other fields of application include graphic arts, mechanical, chemical and petrochemical indus-

tries, pharmaceutical, cosmetic and food industries.

C&G is a pioneer in vacuum evaporation technology, and offers a wide range of evaporator models all of which are characterised by low electrical consumption, the use of elec-

tricity or alternative energy sources, automatic 24 hour functioning, compact, robust design, constancy and quality in the results obtained, and absence of smell or vapours. The principal objectives of C&G are: to reduce the disposal costs and water consumption costs of a company up to 90%, to recycle the water used in an industrial line; to recover precious metals, to eliminate any possible risk of sanctions by environmental control authorities, to modernise production and to improve the image of a company. 🏭

www.cgdepur.it

C&G s.r.l.
SOCIO FONDATORE UNIAQUA



FARA® FUNCTIONAL SYSTEMS for plant-based nutrition: FARABURGER!

Based on hydrocolloids (stabilisers and emulsifiers) Faravelli's FARA® functional systems have always guaranteed the best balance between innovation, cost and quality

FARA® functional systems, from the simplest to the most sophisticated, are tailor-made, following specific customer requests.

The blends include emulsifiers, natural hydrocolloids and functional ingredients that give foods and beverages unique characteristics, for example a well-defined structure, good resistance to thermal stress, improved consistency,

or a characteristic and consistent taste.

The added value is not limited to improving product quality.

Functional Systems, in fact, simplify the phases of research and development, quality control and approval of raw materials, with important economic, practical and operational advantages.

They can be used in the most varied sectors of the food industry.

A rapidly growing trend, **the plant-based diet** favours the consumption of plant-based foods, such as fruit and vegetables, but also nuts, seeds and oils, whole grains, and legumes. In addition, although not biologically classified as plants, mushroom and algae products are also included in the definition.

According to a 2017 Mintel study, which is also collected by the Plant Based Association, taste is the main driver in consumer decision-making, even for plant-based foods. Therefore, it is important to offer products on the market that are not only healthy but also have the organoleptic characteristics that consumers are looking for.

Faravelli has developed a range of functional systems purposely dedicated to the vegan and vegetarian sector, the latest launches being Faramix HH 105 - intended for vegetarian meat alternatives - Faramix FV 104 for bakery products, both savoury and sweet.

FARAMIX HH 105 for meat-no-meat burger

FARAMIX HH105 is a functional system to obtain a "meat-no-meat" product (hamburgers, meatballs, sausages) with visual characteristics and compactness identical to classic ones:





- neutral taste (soya is not perceived at all), no flavouring, therefore very adaptable to the taste.
- structure identical to the classic meat burger, without syneresis.
- very versatile, it can be adapted to the most diverse recipe and format requirements, while maintaining its juiciness and fat-free characteristics.

A product so juicy and meaty, people won't believe it's made from plants!

A food that is not only good and high in protein, but also an ally of environmental sustainability.

A certified quality production plant

First-class expertise in the selection of raw materials available on the market, special attention to food safety issues and a state-of-the-art production plant are the prerequisites to be the reliable partner in the production of powder blends.

Faravelli's production plant is located in Nerviano, near Milan.

It houses a packaging line for customizable solutions and an application laboratory where finished products are tested with methods that closely reflect the final application.

Both the production plant and the Applications Laboratory operate within the Faravelli quality system and are certified according to ISO, IFS, HACCP and FDA standards. 🏠

meaty, juicy, pleasant to the palate. Within the plant-based diet, the "meat-no-meat" category is growing just as fast and responds to the new needs and sensitivities of a growing consumer segment.

Plant-based meat is produced directly from plants. Like animal meat, it is composed of proteins, fats, vitamins, minerals and water. The new generation of plant-based meat looks, cooks, and tastes just like conventional meat.

CHARACTERISTICS OF THE FINAL PRODUCT WITH FARAMIX HH105

- very juicy despite the absence of fats

www.faravelligroup.com/functional
fara@faravelli.it



Tosca expands european operations with new service centre in Ingolstadt, Germany

Tosca, a global leader in reusable packaging solutions, has opened a new, state-of-the-art service centre in Ingolstadt, Germany. This downstream-focused facility, equipped with solar panels for sustainable energy usage and advanced technology capabilities, is designed to support Germany's largest retailers with efficient, data-driven services.



Marco Gonzalez, Managing Director for Central Europe at Tosca



Solutions purpose-built to unlock value across the supply chain

Tosca's expert, custom-fit reusable packaging and pooling solutions unlock value and sustainability at every step of its customers' supply chain. With the largest selection of 100% recyclable, reusable plastic packaging in the market and in-house R&D capabilities, it offers solutions purpose-built to eliminate food, labour, and transportation waste while upholding high-quality standards, safeguarding against product damage and contamination. It manages its customers' logistics seamlessly, streamlining their

supply chain, simplifying maintenance, optimising space and enhancing efficiency.

The company's commitment to sustainable business practices, ethical and social responsibility has been recognised with the prestigious EcoVadis Gold Award for its sustainability initiatives in Europe and the UK. The award places Tosca in the top 5% of companies assessed, solidifying its position as a sustainability leader.

"We're excited to unveil our newest service centre in Ingolstadt, a testament to our ongoing commitment to delivering exceptional service and value to our customers," said Marco Gonzalez, Managing Director for Central Europe at Tosca.

"This expansion highlights our ability to adapt quickly to market demands, as well as our dedication to growth in reusable plastic packaging solutions across Europe."



Close to the customer with an extensive service centre footprint

The opening of the Ingolstadt service centre marks a significant expansion of Tosca's footprint in Europe. With a total area of approximately 2,700 m², the centre is strategically positioned to cater to the growing demand for Tosca's innovative reusable plastic products and pooling services in the region. With the addition of the Ingolstadt centre, Tosca currently operates 43 service centres across Europe.

Driven by the increasing business in plastic half pallet operations, the decision to establish the Ingolstadt centre underscores Tosca's dedication to supporting its downstream customers across Europe. By optimising operations and reducing transport costs, the new centre will enhance efficiency while facilitating further growth in the region. Importantly, the centre is positioned to serve Tosca's largest downstream customer in Central Europe and one of its key suppliers.

Notably, Tosca achieved an impressive lead time of just four months from the start of site search to operational readiness, showcasing the company's agility and collaborative working across all departments.

Advanced technologies for operational excellence

Ingolstadt is equipped with advanced technologies, including RFID gates, scanning equipment, and automation systems. These innovations ensure optimal data accuracy and provide customers with deep insights into their supply chain performance, underscoring Tosca's commitment to future-proofing supply chains. This technology enables Tosca to increase the efficiency and accuracy of their customers' supply chains, driving growth, operational excellence and sustainability.

In August/September, Tosca will install a fully automated wash line at their site, including a conveyor reader on the wash line to automatically update asset status and monitor perfor-

mance. These investments highlight Tosca's commitment to enhancing operational efficiency and providing their customers with superior supply chain solutions.

Investing in Continued Growth

As Tosca continues to solidify its presence in the European market, the opening of the Ingolstadt service centre represents a significant milestone in the company's journey towards continued growth and innovation. 🏠

www.tosca ltd.com



NIRSO EZIO: since 1969, an Italian excellence

The Nirso company based in Busto Garolfo (province of Milan) was born in 1969 from an idea of Nirso Ezio.

Interested in the world of meat grinding, Ezio designs and develops a line of accessories for meat grinders, in particular it specializes in the production of molds and knives that largely satisfy most of the manufacturers of plants for the food industry and producers of cured meats on the market.

Ezio, starting from simple ideas, brings to the market an increasingly innovative and quality product over the years.

In 1991 Ezio left the family business to his son Dario, who has always been very passionate about the world of small mechanical parts, he brings the company into constant professional growth and expansion on the Italian and foreign market

Since 2007, always attentive to market developments, the Nirso company has been buying new numerical control automation systems with software able to control in a precise and detailed way the various processing phases

In 2017, Dario studies and manufactures a patented and certified cutting kit for food use for the production of mortadella, which allows to bring numerous benefits in the grinding phases.

After numerous steps between mechanical tests and paperwork, this patent repays Dario for many difficult moments, when the competition was strong and the market difficult to scratch.

After years of sacrifice and constancy, success has arrived, Nirso products have high quality standards and are among the most





requested in the preparation of foods such as cured meats.

Another strong point of the company concerns the sharpening of molds and blades of any shape and size, with a department that presents high quality machinery.

In 2017, Dario added his son Marco to the company staff, representing the third generation, who deals with marketing and communication, supporting his father Dario in the various stages of mechanical processing, to steal all the secrets.

In 2021, thanks to the determination of his son Marco, the company proudly participated in the Meat Tech fair concerning the process and product technologies of the meat industry in Milan from 22 to 26 October, in conjunction with Host and Tutto Food

Humility, simplicity, constancy great human qualities at the helm of the Nirso factory have led it to today's awards.

From attention to detail to logistics, each piece that leaves the company represents the past and the future,

tools of the past and innovation come together obtaining the trust of the largest Italian food companies, all strictly Made in Italy. 🏠

www.nirsoezio.it
info@nirsoezio.it



INNOVATIVE AUTOMATIC DOSING SYSTEM: fast, accurate and eco friendly

Color Service is an Italian excellence and since 1987 has positioned itself as a leading supplier of automatic dosing systems for any kind of powder and liquid product.

With a start in the textile field and thanks to years of experience and know-how, Color Service introduced its unique technology into many markets segments (rubber, tire, cosmetics, plastics) before orienting his innovation into the food industry, where the dosing of powders and liquids requires considerable precision, speed and traceability.

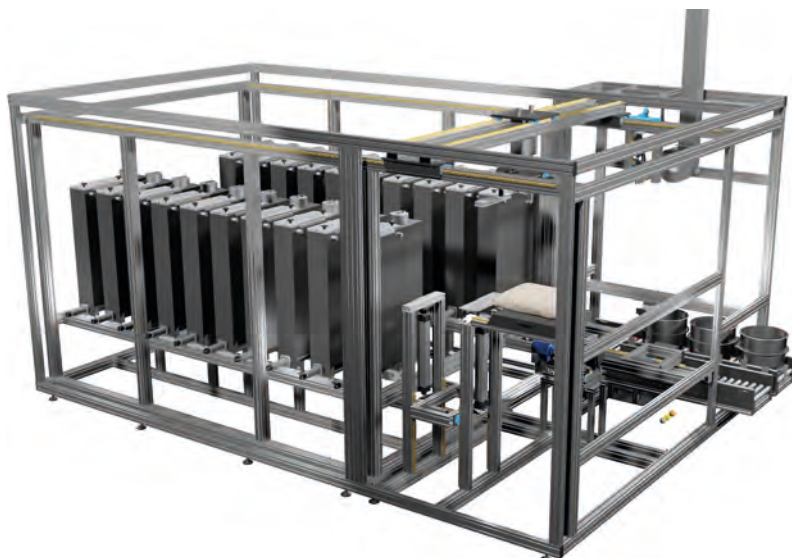
Why dosing is so important in food processing?

Weighing is a key element of the food production process for quality compliance: dosing the proper amount of ingredients is extremely important to fulfill recipe specifications and constant quality requirements. In most cases, the food industry's

weighing department employs operators who manually dose raw ingredients, resulting in difficult and complicated management in terms of weighing accuracy.

To support this necessity, our technology is designed to solve problems associated with the manual weighing of any kind of powders and liquids applied in the food industry and it is developed with the goal of achieving a safe, fast and precise dosing. The aim is therefore the development of high-efficiency systems that allow to minimize the production costs and boost productivity while also improving final product quality, essential for the competition of all companies.

According to customer's requirements, Color Service offers to the market two



solutions of automation: a complete full automatic and a semi automatic weighing system.

Full automatic dosing system

With the full automatic dosing system, all processes are automatically monitored and data are recorded in the software integrated with the customer's management system. The activity of the operator is exclusively confined in the loading of products into storage silos of various capacities through high-performance vacu-

um for powders and pump for liquids that guarantee fast loading with low air consumption.

During the dosing, a multi-scale conveyor completely aspirated through a dedicated dust extraction system allows high dosing accuracy of recipes that can be dosed directly into a bucket or in identified bags created in a completely automatic way: this is a fundamental characteristic that allows each individual recipe to be traced. The full automatic system, guarantees High Dosing Accuracy,

Batch Traceability and Modularity of storage stations and according to product consumption and production requirements, the system offers several storage modules of different capacities that could be interchangeable or expanded in the future.

Semi-automatic dosing system

On the other hand, the semi-automatic weighing system can offer a good compromise: the robotic storage of powder products with the manual





weighing assisted by a PC. In this way, according to the recipe, the system drops the right box and transfer it to the weighing position, where the operator, guided by the PC can dose the product.

Key benefits of our automatic dispensing system

By investing in an automatic dosing system, the customer will be able to benefit from a repeatable production process that runs 24 hours a day, is reliable and fast, in which human error is definitively eliminated and which allows leading to high-quality

end products with uniformity features throughout time.

Systems are user-friendly and software is intuitive and easy to use, allowing a quick and easy understanding.

„Dosing right the first time” as a consequence of accurate and exact dosing of powders and liquids, results in a reduction of product waste, energy/water consumption, processing times and, as a consequence, cost.

From the ecological point of view, our technology reduces to zero the exposure for operators to dangerous substances or toxic ingredients and provides absolute control of the dust

emitted during the weighing with the use of special suction devices, ensuring total operator safety and environmental protection.

Another significant advantage is the traceability of recipes. Indeed with a manual weighing, in case of non-conformity, it is impossible to identify all the products that are affected by this problem downstream and it is difficult to trace the causes upstream that can be represented for example by an incorrect mixing proportion or from a non-conformity of a specific ingredient. Without expensive labor costs due to manual batch processing and profit loss due to recipe formulation mistakes, companies can begin to boost profits, while offering a superior and uniform product to their customers. 🏠

www.colors-service.eu



Customized technology
for UNIQUE AGVs offering
targeted expertise and
leading to concrete
solutions for food industry.



TAILOR-MADE AGVS



www.proxaut.com

www.middprocessing.com



PROXAUT's lifters and shuttles: sanitising for food processing is just an AGV away

Many new opportunities have opened up for PROXAUT since its acquisition by the Middleby Group in July 2022. The company, based in Castelfranco Emilia (MO), specialises in the **design and construction of autonomous guided vehicles and shuttles, or AGVs for short.**

One of these opportunities, not chosen by chance but determined by a precise growth strategy of vertical integration on the part of Middleby, is the **promotion of collaboration between the various brands in the FOOD PROCESSING**, a sector in which **Middleby is one of the world's leading players.**

PROXAUT, in the field of warehouse and production automation technology, is devoting resources and investments to **improving the positioning of its AGVs in the FOOD sector**, a constantly growing sector in which it has important references at global level.

PROXAUT's vehicles are designed to operate in **environments regulated by HCCP protocols** to guarantee **food safety and consumer health.** Forklifts and shuttles intended for use in the FOOD sector are designed from the outset with specific features to facilitate cleaning, washing and disinfection operations, thus enabling them to be sanitised.

To ensure that the **AGV can resist the cleaning and sanitising process**, i.e. the use of detergents and hot water jets, it has been designed with the following technical features:

- 1. AISI 304 stainless steel frame, metal sheets and carters.** Stainless steel is therefore the most suitable material for use in transport systems inside production areas, such as cold rooms below -20° C, curing and smoking rooms, etc., due to its resistance to alteration.
- 2. IP67 protection for all electrical and electronic equipment** housed in stainless steel boxes, specially designed to prevent



the infiltration of dust, liquids, ice and heat. This level of protection makes it resistant to jets of hot and cold water over its entire surface, including the bottom of the shuttle, in other words over its entire surface.

The collaboration with **COLUSSI ERMES** of Casarsa Della Delizia has enabled PROXAUT to offer its customers **a fleet of AGVs that can be sanitised directly in Colussi's washing machines.**

This innovative opportunity allows customers in the food sector to **guarantee hygiene and speed in their production processes**, eliminating the need for operators to wash the vehicles and ensuring maximum compliance with health and hygiene regulations.

A goal that Proxaut and Colussi Ermes have achieved together, joining forces to offer their customers **a great competitive advantage: hygiene just an AGV away.**

Make sure you have a front-row seat and experience the simulation: this synergy will be reinforced at the **upcoming trade fairs**, including **Sudback** in Stuttgart from 26 to 29 October 2024, **IFFA** in Frankfurt from 3 to 8 May 2025 and **IBA** in Düsseldorf from 18 to 22 May 2025... come and find out how... 🏛️

For more information about upcoming events:

www.proxaut.com
www.colussiermes.com



MINI MOTOR S.p.a. realizes its vision for Food & Beverage in Industry 5.0

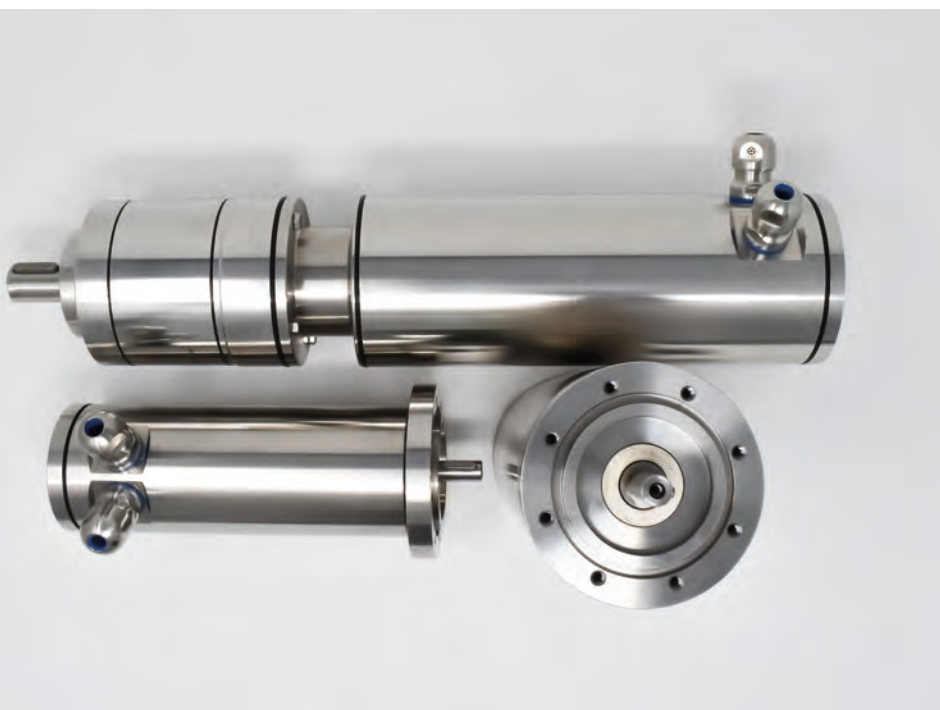
Founded in 1965 in the middle of the Motor Valley, Mini Motor is a leading company with a long history of innovation and passion for mechatronics and industrial automation.

Today it is present in more than 50 countries, but its heart always beats for technological excellence and customer satisfaction.

Thanks to the continuous evolution and integration of mechanics and electronics, Mini Motor is able to respond with tailored solutions to the specific needs of sectors such as Food & Beverage, embracing the challenges of Industry 5.0 and offering cutting-edge technologies.

Bringing value and technology to the food industry

Industry 4.0 has marked a momentous turning point in the technological revolution, and Mini Motor has been at the forefront of it.



Now, with the advent of Industry 5.0, the future becomes even more fascinating: it is one in which solutions become not only smarter, but also closer to people, more flexible and sustainable.

Mini Motor is also leading the way in this context, and its Clean Line is the perfect demonstration of this. This line puts what really matters first as it is designed specifically for the food sector and combines advanced technology, hygiene, reliability and safety, indispensable allies for food processing.

A real commitment to safety and quality

Mini Motor's SS (Stainless Steel) models are made of stainless steel, a material that is resistant to corrosion caused by food and beverages, pre-

venting contamination and alteration of the latter: it is precisely this characteristic that makes them the protagonists of the line dedicated to the Food & Beverage sector.

The use of AISI 304 stainless steel (or the optional AISI 316L) is a mandatory and successful choice in the food industry, as these alloys offer optimal characteristics compared to other materials: extreme resistance to boiling water jets (80°C) and high pressure (90 bar); absence of protective coatings, which, if chipped or worn, can cause discontinuities on the surface; porosity-free surface compactness, ideal for hygienic surface cleaning; high bacterial removal in cleaning cycles; and low post-cleaning bacterial concentration, which should remain unchanged for as long as possible.

Due to the peculiarities of the material, models in the SS Mini Motor line can be easily sanitized, ensuring compliance with ISO 9001:2015 standards.

The design conforms to E.H.E.D.G. (European Hygienic Engineering & Design Group) guidelines, ensuring compliance with the stringent requirements of hygiene-oriented industries.

Finally, IP67 and IP69K ratings ensure high resistance to dust, liquids and high pressures, offering maximum safety and cleanliness.

Innovation and connectivity for Industry 5.0 in Food & Beverage thanks to Mini Motor

The high level of technology that characterizes Mini Motor motors has always made them cutting-edge, and today it also places them as pioneers of Industry 5.0, perfectly integrated in the logic of personalization, enhancement of the human-machine relationship and sustainability.

In this context, Mini Motor motors become undisputed protagonists of



the future in the Food & Beverage sector, thanks also to the possibility of being combined with the DRF, the new IP67-certified integrated inverter.

Mini Motor's DRF offers an innovative solution to one of the main needs of food companies that are part of Industry 5.0, namely the demand for flexible and easy-to-use machinery.

The speed of the electric motor can be conveniently programmed and changed from the PC or wirelessly.

In addition, direct mounting on the motor reduces wiring costs by up

to 50 percent compared to traditional solutions. Thanks to the DRF, connectivity remains the company's flagship, allowing connection with the most common field buses, first the analog ones (Canopen and Modbus), then the more advanced Ethernet buses (Profinet, Ethercat, Powerlink and Ethernet IP).

In concrete terms, Mini Motor proves to be the ideal partner for Food & Beverage companies that want to be key players in the future of their business. 🏭

Discover more on: www.minimotor.com

The barcode turns 50 and doubles in power

Fifty years after its debut in an Ohio supermarket, the barcode that identifies retail products is evolving into a new two-dimensional format, offering consumers with more information and enhancing efficiency for retailers.

On June 26, 1974, a supermarket cashier in Troy, Ohio, made history by scanning a barcode on a ten-pack of Wrigley's Juicy Fruit chewing gum with a Magellan Model A scanner. Developed by Spectra Physics, now part of the Italian multinational Datalogic, this was the world's first fixed retail scanner.

The ability to automatically identify products at checkout marked the beginning of a new era, revolutionizing the retail industry with unprecedented speed and accuracy.

Fifty years later, this innovation remains indispensable.

As a pioneer in identification technologies, Datalogic has recognized



Magellan 9600i/9900i scanners speed up code reading, identify products, and reduce theft

the vast potential of barcode from the start. Building on its early success with scanners like the Magellan Model A, the company has become a leader in the retail automatic identification

market. Datalogic has consistently remained at the cutting-edge of technological advancements to better serve its customers.

Beginning with the development of the first 1D scan readers, the company later led the way in using imager technology in scanners, and has recently elevated performance by integrating the latest AI-based technologies.

A new information-rich two-dimensional code

We are at a critical turning point as the retail industry gears up for the roll-out of the GS1 Digital Link, a groundbreaking product identification code, which will gradually appear on all consumer product packaging by 2027, complementing the traditional linear barcode.

The GS1 Digital Link barcode is an upgraded version of the traditional barcode, embedding digital information accessible via a URL. This creates



Memor 30, Android 5G Wi-Fi terminal and scanner for remote reading

a direct connection between a physical product and its associated digital content. The new GS1 standard QR code will enable consumers to instantly access up-to-date information about products they are considering purchasing by scanning the packaging.

This includes details of ingredient origins, allergens, usage (such as cooking tips and recipe suggestions), recycling or disposal guidelines, nutritional values, and much more.

The code will also include detailed information about the specific package, such as the expiration date, production lot, or a unique serial number. This data can be integrated into retailers' point-of-sale systems, improving security, streamlining procurement processes, and minimizing the risk of fraud.

Fabrizio Pareschi, Datalogic's Global Account Manager, stated, "Consumers will be empowered to make more informed purchases by gaining insights into the environmental impact of the products they buy.

They will have access to detailed information, such as the origin of a product and its ingredients, as well as guidance on how to recycle or reuse packaging. Retailers and supply chain companies can offer personalized content, promotions, or offers tailored to consumer preferences or location.

In addition, the new GS1 standard enhances traceability throughout the supply chain, aiding in the fight against counterfeiting and improving product recall management. It also optimizes inventory, warehouse management, and logistics processes by integrating with enterprise ERP and CRM systems. For these processes, Datalogic is the ideal technology partner, offering solutions for point-of-sale and data management through professional mobile computers like the new Memor 30/35. It is the perfect tool for tasks such as inventory management, price control, and stock re-

plenishment. All Datalogic retail products are already fully compatible with GS1 code management".

The role of software, systems, and artificial intelligence

So, how is the retail industry gearing up for the introduction of these new two-dimensional codes? Michele Benedetti, Chief Technology Officer at Datalogic, explains: "Our goal is to ensure that reading these two codes on packages is seamless and rapid, maintaining the same level of reliability we currently have with linear barcodes. Our scanners and mobile devices can read both types of code simultaneously, with the same speed and accuracy. But the real game-changer will come from integrating smart systems and software to create innovative applications that improve the shopping experience, support sustainability, and give retailers a competitive edge. For example, our next-generation Magellan scanners are truly intelligent machines capable of processing not just product codes, but also images captured by in-store and point-of-sale cameras. This paves

the way for innovative applications, such as advanced anti-theft solutions, which will make retailers more efficient and ready to tackle the challenges of a rapidly evolving market."

Here's to the enduring legacy of the barcode and its successor, as they guide us into the next era of retail. Datalogic is poised to lead the charge. 🏪

Datalogic Group

Global leader in the automatic data capture and industrial automation markets since 1972, Datalogic empowers the efficiency and quality of processes in the Retail, Manufacturing, Transportation & Logistics and Healthcare industries.

Datalogic S.p.A. is listed in the STAR segment of the Italian Stock Exchange since 2001 as DALMI. Visit www.datalogic.com.

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Linear barcode and GS1 code

SITEC, state-of-the art timers and temperature controllers

Sitec timers and temperature controllers are multifunction, setting to comply with UL certification, they can be also provided with the innovative motor fast gear change function

For more than 25 years, Sitec has been the ideal partner for professional timers and temperature controllers for baking industry.


Handy (thanks to a big and ergonomic dial featuring renewed design), practical and extremely user-friendly, Sitec timers and temperature controllers for ovens and mixers stand out as the perfect solution that meets bakery and confectionery professional requirements, since they can be highly user-friendly and reliable also in particularly difficult environments. Electronic dial timers for mixers enable fast and clear time setting by means of an ergonomic dial that is extremely handy even though operators wear gloves.





Multifunction, setting to comply with UL certification, they can be also provided with the innovative motor fast gear change function. Sitec offers a comprehensive range of dial timers for mixers, timers and temperature controllers for civil and industrial furnaces, as follows:

- **Timer, Series TFO** (3 displays and red led lights to display cooking and steam times).
- **Temperature controllers, Series TRG** (set point through transparent dial) All Sitec timers and tempera-

ture controllers for ovens and mixers feature high protection degree that grants an excellent seal from powders and liquid sprays. " 

www.sitecrl.it/en/timer

- **Timer 72x72** (3 displays and red led lights for time display)
- **Timer 96x96** (4 displays and red led lights for time display)
- **Timer 72x144** (control on both cycle times; led light and double display)

The novelty is the AC motor brake unit, a device designed to meet the safety standards.

Sitec electronic timers for mixers can be supplied with the electronic module AC motor brake unit, which allows controlled engine "deceleration", with power adjustment, and braking time.

Timers and electronic dial temperature controllers for ovens enable controlling cooking and steam time, and temperature in the oven.



ANGELUS: can seaming equipment manufacturer



In the late 1800's and early 1900's, the invention of the double seam – a means of folding 5 layers of material in a way that interlocks a can end with a can body – transformed Food and Beverage packaging by eliminating the need for soldered seams to achieve a hermetic seal. By 1910, Henry L. Guenther had taken this advancement to the next level by designing and patenting the first machinery to create these double seams on cans. With that invention, the Angelus Sanitary Can Machine company was founded, with a vision of creating the finest machines of their kind, anywhere in the world.

Today, more than a century later, and with more than 16,000 seamers sold

in 132 countries across the globe, Henry's vision has been realized, and the Angelus name is still recognized as the standard for excellence in seaming technology and equipment. Joined with Pneumatic Scale Corporation in 2007, the combined company of Pneumatic Scale Angelus is a global leader in the design and manufacture of packaging machinery for liquid and dry filling, capping, can seaming, and labelling applications as well as state-of-the-art container handling solutions. The company is a division of BW Packaging under the Barry-Wehmiller umbrella of companies.

In recent years, the company has introduced the Angelus V-Series line, designed to meet the specific needs of

the Food and Beverage markets. The same technology used for high-speed seaming applications has also been scaled for the needs of the craft beverage space. Angelus has manufacturing facilities in Ohio in the United States, as well as its Parma, Italy location.

In nearly all markets Angelus serves, concerns for sustainability and increased, pandemic-driven demand for shelf-stable products created a surge in can demand and a subsequent shortage of them. Though pressures have eased somewhat, with can makers working aggressively to increase production, it will still take time for supply to catch up with demand.

In addition, the lightweighting of cans brings challenges to seaming



equipment, as lighter cans can often lead to an increased risk for can damage during production and even transportation. Seamer suppliers like Angelus are responding with innovations to seamer design and container handling.

For Pneumatic Scale Angelus, consistent communication with can makers helps drive not only future product design, but also current partnerships with customers to analyze produc-

tion and mitigate potential areas for damage, not only at the seamer, but also upstream and downstream from the seaming process. Angelus currently has patents pending for several new developments in seamer design and container handling that it believes will provide superior solutions for its customers, as well as a competitive advantage for the company.

When asked about the future of sea-

mers for Food and Non-Food cans, Thomas Thiel, Product Line Leader for Can Seaming replied, "Angelus continues serving the Food and Beverage markets with seamers specially designed to address their unique needs. We have a long history of innovation in seaming, and we are excited about our plans to continue that legacy well into the future." 🏛️

www.psangelus.com



Pneumatic Scale Angelus

A Barry-Wehmiller Packaging Company

We turn your vision into reality

Siat has been active in various industrial sectors for over 80 years and it is in continuous development with the automation of production processes and an increasingly innovative production technology.



In the fruit and vegetable sector we offer a wide range of standard and customized brushes, made with certified materials for the food industry. For the Siat company food safety is very important.

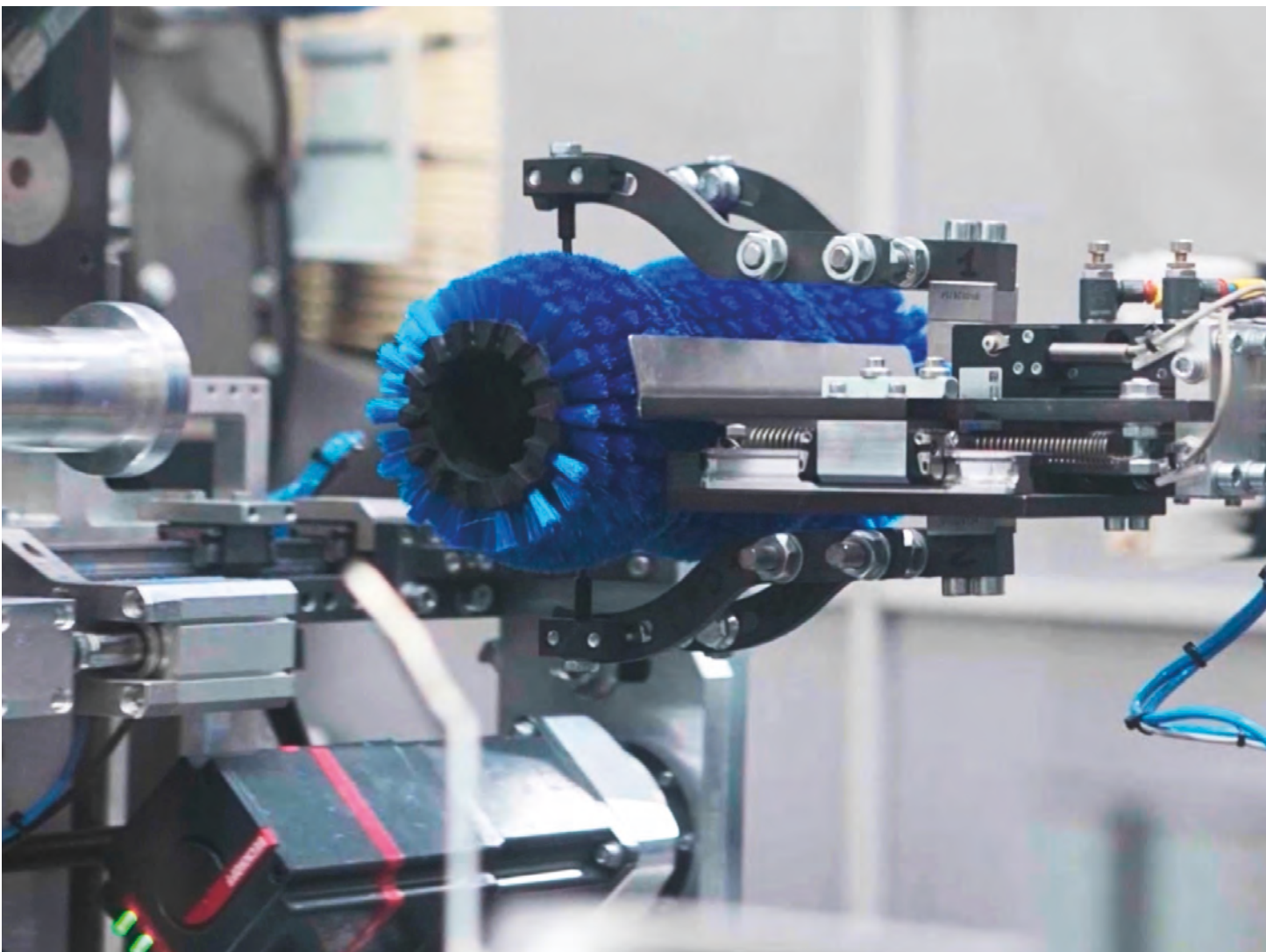
One of the many goals of the team is the realization of solutions that can guarantee maximum efficiency on the

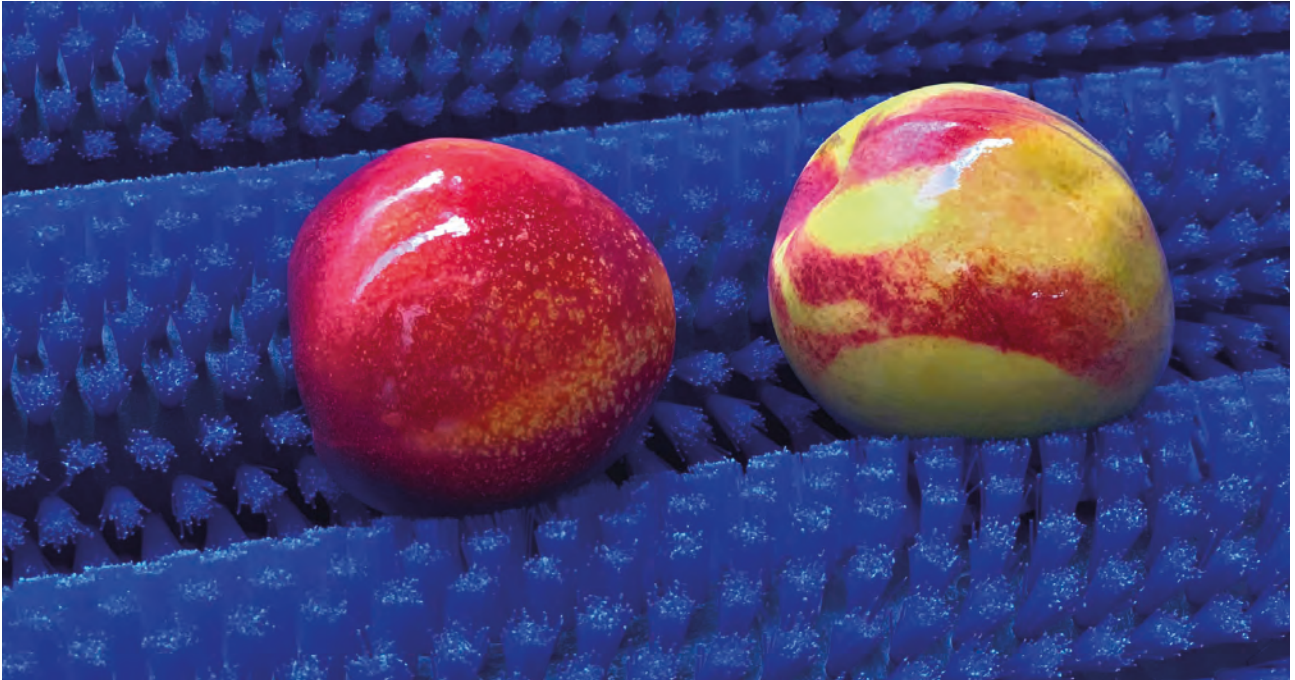
fruit and vegetable processing lines minimizing waste and enhancing every resource, achieving the desired quality that the market requires.

MISSION:

The Siat team aims to be more and more efficient and to reach out to

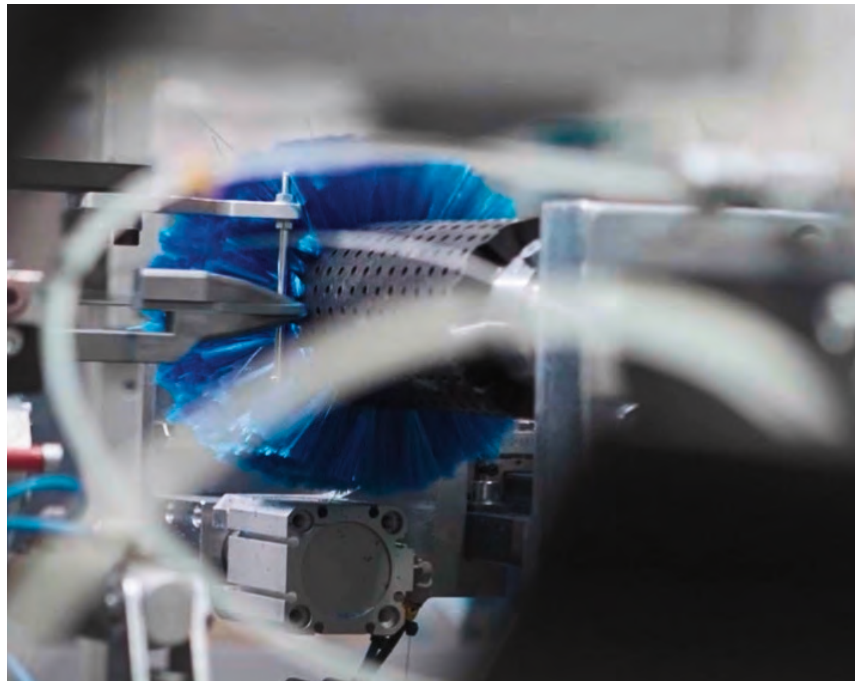
countries where it has not yet arrived with increasingly innovative solutions. With a complete customisation service and a very fast maintenance service, the company guarantees maximum efficiency for its customers and fruit and vegetable processing plant owners.





INNOVATIVE SOLUTIONS:

Siat's professional team provides customised solutions for all stages of fruit processing, from harvesting machines, bins unloading systems, brushing machines, polishing machines, grading machines, to packaging and bins filling. Siat's competitiveness is high, all production processes take place in-house and the search for new materials for the production of state-of-the-art industrial brushes is continuous. The Siat team listens to customers' needs and, after an in-depth technical analysis, begins prototyping solutions designed in relation to the mechanical characteristics of the customer's processing lines and individual machines. 🏠



For more information: www.siat.it



THE 30TH EDITION OF SIMEI to be held from 12 to 15 november at Fiera Milano

SIMEI, the leading international exhibition for wine-making and bottling machinery by Unione italiana vini (UIV) is about to launch its milestone 30th edition. The event is set to celebrate 60 years as a biennial trade fair from 12 to 15 November at Fiera Milano (Rho, halls 1,2,3,4). The best of technology applied to the wine and beverage supply chain will be on show, from the vineyard to the cellar and from bottling to labelling, right up to the glass. An edition entirely dedicated to intercepting the tastes of new consumers through technological and product innovation.

With a transversal overview of innovations and processes in wine-making, liquid food, oil, beer and spirits, SIMEI 2024 is even richer both in terms of the programme and the product range. In addition to the partnership with Distillo (a trade fair dedicated to micro-distillery equipment that will be holding its third edition right inside Simeil), the first edition of BeerForum, the “general condition” of beer in Italy, will also be debuting at SIMEI. Organised by Luca Grandi Birra Nostra, a company founded in 2007 to promote quality Made in Italy craft beer, the BeerForum aims to represent - through meetings, conferences, masterclasses and tastings over the 4 days of the event - an opportunity to learn more about the state and evolution of the Italian brewing sector. News also on the olive oil front with “L’Oleoteca di Olio Officina”, a space coordinated by the observatory of the same name on the world of olive oils. Olio Officina, the Observatory on the world of olive oils led by Luigi Caricato will be bringing

an exhibition on the best examples of oil design and packaging to Simeil as well as a series of meetings on the topic revised with a green focus.

Finally, there will be the now traditional Innovation Challenge, the competition that rewards technological innovations in the sector with the “Technology Innovation Award”, “New Technology” and “Green Innovation Award”.

With 480 exhibitors, 25.500 square metres of exhibition space and more than 30 attendees registered in the 2022 edition, including 450 foreign

delegates, Simeil has increasingly become the key event for a sector – with a high technological and internationalisation rate – that is crucial to the Made in Italy brand worth more than 3 billion euros. It is a moment to take stock of the state of the art of the sector and its policies. 🏛️



INTERNATIONAL
ENOLOGICAL
AND BOTTLING
EQUIPMENT
EXHIBITION

SIMEI



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LEADER IN WINE & BEVERAGE TECHNOLOGY

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UNIONE ITALIANA VINI



FIERA MILANO

12th-15th November 2024
Fiera Milano (Rho) - ITALY

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Regione
Lombardia

info@simei.it / simei.it

GLOBAL PACK GREECE 2025: the top-rated gathering of the Packaging world



GLOBAL PACK which is going to be held on November 7-10th, 2025, at Metropolitan Expo, Athens - Greece, will welcome thousands of visitors from across the Industrial Production, while also from Processing Sector, Printing, Warehousing & Transportation.

15,180 visitors, 562 international buyers and hundreds of exhibitors experienced three days of innovation, inspiration, networking and information at the 1st GLOBAL PACK, which was held on November 2023. Following this success, GLOBAL PACK 2025, will welcome once again thousands decision makers – from company Owners & Managing Directors to Purchasing Directors, R&D Professionals and Logistics Managers- of all industries, who are searching for technological solutions, robotics and automations related to packaging machinery and materials, printing and labels.

Customized solutions & packaging trends

IoT technology, 3D printing, sustainable packaging will be at the center of discussions for four days between exhibitors and visitors. The exhibitors will showcase innovations, specialized packaging solutions, global trends and tools for the digital transformation of the packaging line for immediate productivity improvement, cost reduction and production increase.



- **Packaging and filling machinery**
- **Packaging materials and supplies**
- **Labelling, marking and identification technology**

- **Peripheral packaging machinery and equipment**
- **Packaging printing and finishing**
- **Palletizing technology**
- **Weighing, Coding and**

- **Traceability systems**
- **Storage and Handling equipment & solutions**
- **Services for the packaging industry**
- **Packaging testing labs**

> 7-10
NOV
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Global Pack

INTERNATIONAL PACKAGING EXHIBITION



Packaging INSPIRING Innovation

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INTERNATIONAL FOOD PROCESSING EXHIBITION

Who visits GLOBAL PACK?

The exhibition gathers owners and executives from all the productive and commercial sectors of the economy, such as:

- **Food & Beverage production industries**
- **Pharmaceutical companies**
- **Cosmetic manufacturers**
- **Food & Beverage wholesale & Organized retail**
- **Warehousing & distribution companies**
- **Bakery & Pastry industries**
- **Agricultural products packaging and exporting companies**
- **Building materials manufacturers and trading companies**
- **Industrial goods & lubricants manufacturers and trading companies**
- **Graphic arts paper manufacturers and suppliers**

A key trade meeting point of international scope

The companies that will participate as exhibitors will have the opportunity to meet in person with 350 International Hosted Buyers, in order to develop new clientele and make business contacts that will help them penetrate foreign markets. It is worth noting that these international key buyers who will visit the trade show are executives with purchasing power, i.e. CEOs, owners, R&D managers, engineers, logistics managers, procurement support from the entire range of production and commercial businesses, mainly from Egypt, Morocco, Tunisia, Jordan, S. Arabia, United Arab Emirates, Albania, Bulgaria, Romania, North Macedonia, Serbia, Georgia, Kazakhstan, Kyrgyzstan, Azerbaijan, Poland.

GLOBAL PACK & FOODTECH: Two trade shows under one roof

GLOBAL PACK is being held alongside FOODTECH, the premium interna-



tional trade show focusing on the production, processing, and handling technologies of Food & Beverages. The co-organization is gathering leading companies with integrated solutions & automations, that increase production capacity both for manufacturing lines and supply chains.

Those leading trade shows create for the exhibitors, great synergies of high-value commercial outcome.

Organized by FORUM SA Member of NürnbergMesse Group

GLOBAL PACK trade show is organized by FORUM SA that is the largest trade show organizer in Greece and subsidiary of NürnbergMesse Group (organizers of FACHPACK and POWTECH TECHNOPHARM among others) – one of the most dynamic German trade fair organi-

zers and one of the 15 largest exhibition companies in the world. In the portfolio of FORUM SA are leading exhibitions such as FOODTECH, ARTOZA, HORECA, FOOD EXPO, XENIA, ATHENS COFFEE FESTIVAL, WORLD OF BEER FESTIVAL.

Useful information

- Date & Times
- Friday, 7 November 2025
10:00-18:00
- Saturday, 8 November 2025
10:00-18:00
- Sunday, 9 November 2025
10:00-18:00
- Monday, 10 November 2025
10:00-18:00

Location

METROPOLITAN EXPO Exhibition Center, Athens – Greece 🏠

www.globalpackexpo.gr/en/

ATHENS - GREECE

**9-11
NOVEMBER
2024**
METROPOLITAN EXPO

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AND PACKAGING



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PROCESSING
PRINTING
LOGISTICS**

**SAVE
THE
DATE**

Circularity at the heart of ALL4PACK EMBALLAGE PARIS :

The scale of the environmental challenges facing the packaging industry is leading companies to place circularity at the heart of the value chain.

ALL4PACK EMBALLAGE PARIS, France's leading packaging and intralogistics exhibition, aims to bring together all the players involved in eco-design, recycling, reuse and reducing the environmental footprint, while highlighting innovative solutions for companies using packaging.

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COUNTRIES

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sgemelli@salonifrancesi.it

To exhibit

Eleonora FERRARI

eferrari@salonifrancesi.it



#ALL4PACK

COMEXPOSIUM

EXHIBITIONS 2024-2025

PROSWEETS

28-31/01/2024 🏛️
COLOGNE

Fair for the sweets and snacks industry.

FRUIT LOGISTICA

07-09/02/2024 🏛️
BERLIN

Fair for fruit and vegetables.

BEER&FOOD ATTRACTION

18-20/02/2024 🏛️
RIMINI

Fair for beers, drinks,
food and trends.

MECSPE

06-08/03/2024 🏛️
BOLOGNA

Fair for the manufacturing industry.

PROWEIN

10-12/03/2024 🏛️
DUSSELDORF

International wine & spirits exhibition.

ANUGA FOODTEC

19-22/03/2024 🏛️
COLOGNE

Fair on food
and beverage technology.

VINITALY

04-08/04/2024 🏛️
VERONA

International
wine & spirits exhibition.

LATINPACK

16-18/04/2024 🏛️
SANTIAGO CHILE

International packaging
trade fair.

HISPACK

07-10/05/2024 🏛️
BARCELONA

Technology fair for packaging.

CIBUS

07-10/05/2024 🏛️
PARMA

Fair of food product.

MACFRUT

08-10/05/2024 🏛️
RIMINI

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

SPS/IPC/DRIVES/ ITALIA

28-30/05/2024 🏛️
PARMA

Fair for industrial automation sector.

FISPAL

18-21/06/2024 🏛️
SÃO PAULO

Fair for product
from packaging.

FACHPACK

24-26/09/2024 🏛️
NUREMBERG

International
packaging trade fair.

MCTER expo

16-17/10/24 🏛️
VERONA

Exhibition on energy efficiency.

MIDDLE EAST 2024/25

GULFOOD

19-23/02/2024 🏛️
DUBAI

Fair for food and hospitality.

DJAZAGRO

22-25/04/2024 🏛️
ALGERI

Fair for companies
of the agro-food sector.

PROPAC ASIA

12-15/06/2024 🏛️
BANGKOK

Fair for packaging, bakery, pastry.

IRAN FOOD+BEV TEC

16-19/06/2024 🏛️
TEHRAN

Fair for food, beverage&packaging
technology.

GULFHOST

05-07/11/2024 🏛️
DUBAI

Fair of hospitality.

HOSPITALITY QATAR

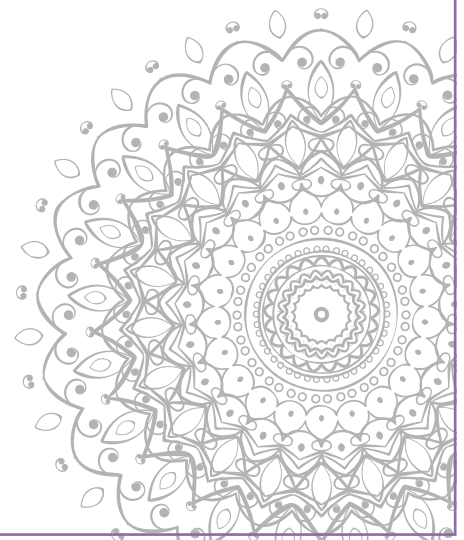
12-14/11/2024 🏛️
DOHA

Fair of Hospitality
and HORECA.

GULFOOD MANUFACTURING

05-07/11/2024 🏛️
DUBAI

Fair for packaging
and plants.



EXHIBITIONS 2024-2025

SIAL

19-23/10/2024 🏠

PARIS

Fair on food products.

SUDBACK

26-29/10/2024

STUTT GART

Fair for bakery and confectionery.

ALL4PACK

04-07/11/2024 🏠

PARIS

Exhibition about packaging technology.

SIMEI

12-15/11/2024 🏠

MILAN

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

BRAU BEVIALE

26-28/11/2024 🏠

NUREMBERG

Fair of production of beer and soft drinks.

TUTTOFOOD

05-08/05/2025 🏠

MILAN

Fair B2B show to food & beverage.

SPS/IPC/DRIVES/ITALIA

13-15/05/2025 🏠

PARMA

Fair for industrial automation sector.

IBA

18-22/05/2025 🏠

MONACO

Fair for the bakery&confectionery industry.

IPACK-IMA

27-30/05/2025 🏠

MILAN

Exhibition about food and non-food processing and packaging.

DRINKTEC

15-19/09/2025 🏠

MONACO

Fair for the beverage, liquid food industry.

POWTECH

23-25/09/2025 🏠

NUREMBERG

The trade fair for powder processing.

CIBUS TEC FORUM

28-29/10/2025 🏠

PARMA

Exhibition-conference on food technology trends

HOST

17-21/10/2025 🏠

MILAN

Fair for bakery production and for the hospitality.

SAVE

2026 🏠

VERONA

Fair for automation, instrumentation, sensors.

INTERPACK

07-13/05/2026 🏠

DUSSELDORF

Technology focused on packaging, bakery, pastry technology.

CIBUS TEC

27-30/10/2026 🏠

PARMA

Fair for food & beverage technologies trends.



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