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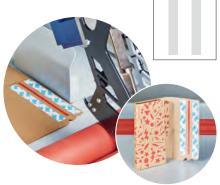
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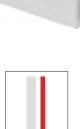


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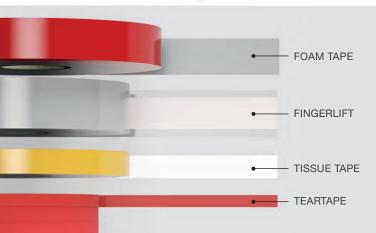


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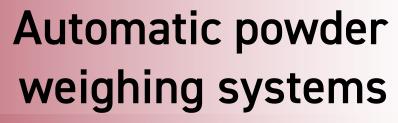












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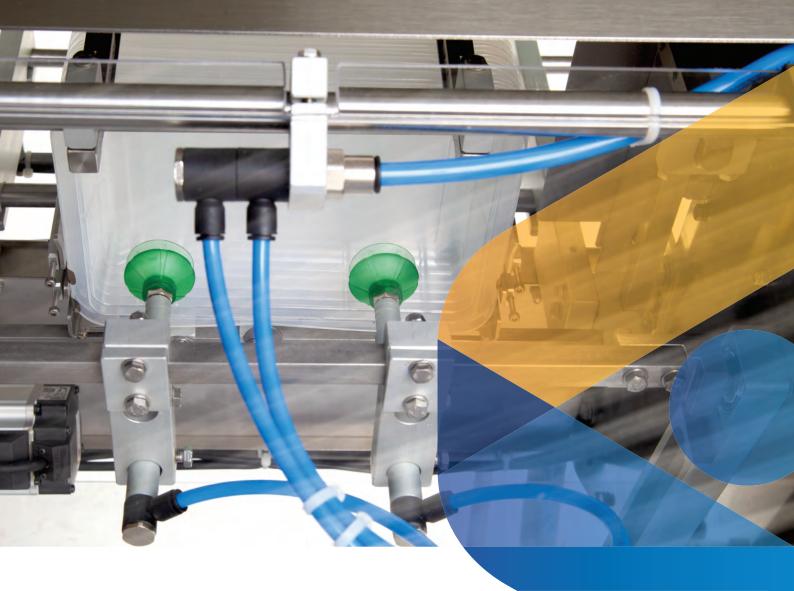
















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214-225MATERIALS PACKAGING



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A GLOBAL LEADER. IN INDUSTRIAL AUTOMATION SOLUTIONS FOR PACKAGING. **PG. 12/18**



FOR THE 2023 EDITION OF INTERPACK TOPJET S.P.A. WILL CONFIRM ITS PRESENCE. **PG. 94-95**



AUTOMATIC MICRO-INGREDIENTS DOSING SYSTEM.

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NOT JUST GOOD. SMI SOLUTIONS FOR THE FINI GROUP. **PG. 140/142**



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



CUTTING-EDGE TECHNOLOGY, RESEARCH AND PROFESSIONAL ETHICS SERVING THE CLIENTS' NEEDS. PG. 164/166



IS LEADING EXPERT IN OPTICAL SORTING TECHNOLOGY FOR FRUIT AND VEGETABLES. **PG. 198/200**



MACHINE BUILDING EXPERIENCE FOR PACKAGING IDEAS AND DESIGNS. PG. 216-217



TRADE FAIR PREPARATIONS GET UNDERWAY FOR FACHPACK 2024

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THE COMPANY

levertech is a leading company in the industrial automation market, and specializes in the production of packaging solutions for multiple sectors. Clevertech offers design, engineering, and production services for Front, Center, & Endofline systems based on the best technologies, and presents itself as a unique partner for product handling.

With all engineering centralized in Italy, Clevertech has production facilities in Italy, where the company's headquarters are located, with 36,000 square meters of production area; in Shanghai-China with 4,000 square meters; in Fort Myers, Florida (USA) with another 3,000 square meters; and finally in Pune (India) with 2,000 square meters. The company has a worldwide presence with several subsidiaries in locations such as France, England, India, Germany, Poland, and Mexico, which enable it serve as a global partner to its customers. The company surpassed the threshold of 100 million in consolidated sales in 2022, proving to be a reliable partner for multinational companies around the world, having faced the post-Covid difficulties and raw material shortages that characterized last year with resilience and resourcefulness.

The group's primary objective is to offer a safe and high-performance method of handling packaging, thanks to the fully integrated approach that allows easy use of the plant and optimization of uptime by making it more available for production.

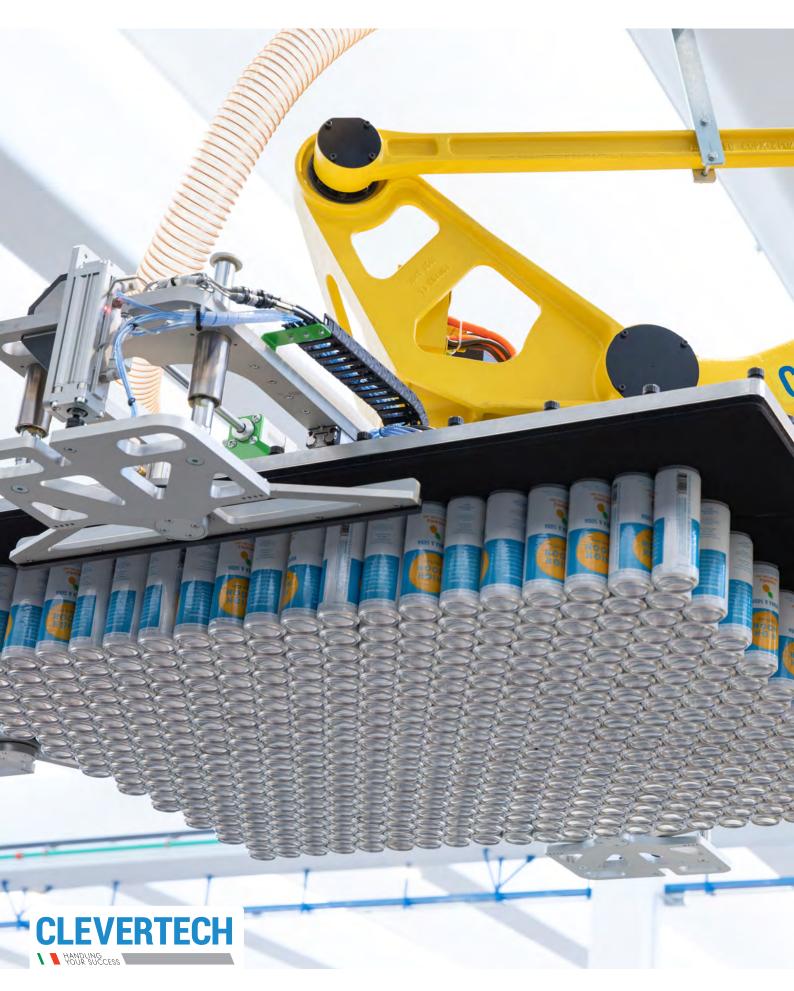
The holistic approach taken by Clevertech helps reduce costs, as thinking holistically means thinking about a machine as a whole, avoiding overlapping functions and maximizing integration between parts. The company's philosophy is based on quality, reliability, and the safety of its equipment and component parts.













- Petfood
- Home Care and Personal Care
- Food
- Can Making
- Wine & Sprits
- E-commerce
- Interpack

Clevertech pays attention to sustainability and strives to be a certified supplier. Clevertech's photovoltaic systems enable it to use TÜV SÜD-certified solar energy with an output of 25,537 kWh/year of electricity produced, enabling energy self-sufficiency, and corresponding annual savings of 58,000 kg of CO2. In addition, Clevertech uses only IE3 premium-rated electric motors in systems it delivers to its customers. IE3 motors enable the reduction of CO2 emissions as well as electricity savings.

The Solutions

The Clevertech portfolio comprises front line or depalletizing solutions capable of feeding bottle, pouch, and carton production lines. The Center Line section comprises systems for loading and unloading products such as cans, tubs, pouches or jars and bottles from baskets and trays that must be fed from autoclaves in the food industry. These systems include the ability to supervise product handling data to ensure traceability and, consequently, consistent quality over time. Finally, for the End of Line section, Clevertech offers solutions for vertical product wrapping, forming, and closing of American cartons, with the ability to insert bottles divider within them, as well as automated ream feeding in case erector

magazine to make the process totally autonomous.

Clevertech end-of-line focuses on a range of palletizers, which include machines for all kinds of needs: from palletizers with very compact robotic cells, to palletizing systems combined with product sorting that can handle as many as eight production lines simultaneously.

Clevertech's integrated end-of-line offer includes pallet wrapping and labelling. From primary to tertiary packaging, all packaging nowadays must be labeled to ensure the safety and traceability of products throughout the supply chain. Pallet wrapping with stretch film when fully integrated into the palletizing process ensures the highest efficiency with minimum use of space and high product traceability by achieving a system with a single architecture, identical interfaces per operator and the same documentation for different manuals. Finally, Clevertech recently created a new business unit: Leantech. This business unit concentrates on the know-how for engineering as well as producing product transport systems using different technologies such as air or magnets, used to transport lids, cans, jars, bags, and bottles, which are manipulated in the various stages of the line either as primary packaging, secondary packaging, or pallets.





PACKAGING MACHINES

THE SECTORS Petfood

The increasing humanization of pet food, combined with the decreasing size of the animals in our households and an increase in urbanization, are some of the major forces that are driving the growth of the pet food market worldwide. Through new materials and packaging designs, food manufacturers now seek ways to convey the premium nature of their product: pouches and aluminum trays are becoming increasingly popular. Clevertech is also present in this market with its primary (pouches, aluminum trays, cans) and secondary (cartons, trays, shrink-film packs) packaging handling technologies, which are well able to ensure the storage of products that require a quarantine period between the production line and the palletizing area.

Home Care and Personal Care

In this sector, Clevertech has gained a great deal of experience, having taken charge of major front and endof-line installation projects for several multinational companies on more than one continent. Among others, systems have been installed in Japan, the Middle East, Europe, and America. In North America, Clevertech has gone so far as to install systems for 36 lines over a period of 3 years in a single plant. This work was carried out for a well-known multinational company in the Home & Personal Care sector where products are handled in three different business units, including dedicated liquid products for personal, home and tissue care. Recently, Clevertech has successfully developed and installed case packing projects with state-of-the-art solutions in terms of speed and axis handling, combined with a super clean machine design that facilitates maintenance and cleaning.

Food

Food is a confirmed strategic sector for Clevertech, which has col-

laborated with several market-leaders around the world as partners for front and end-of-line systems for packaging ketchup and mayonnaise as well as other sauces. In particular, the strong development of the confectionary sector in the U.S. has seen the company engaged in the production of unique palletizing solutions going as far as managing up to eight different product lines simultaneously, with only two palletizers and a flawless sorting system.

Can Making

Clevertech stands out for having gained extensive experience in this area. This is where it all began in 1987 and this is where, today, Clevertech is the undisputed leader in the handling of lids and cans, and metal boxes of all sizes and shapes.

More specifically, over the last two years, Clevertech has rethought and developed new systems for lid transport lines that improve line efficiency with a substantial reduction in the amount of space used for the plant. The innovation becomes even more important now that aluminum packaging is experiencing a period of special attention thanks to its recyclability. In 2023 Clevertech delivered three new plants in this area, with speeds of 3,600 cans per minute, and to the best of our knowledge, these are the fastest systems in the world!

Wine & Sprits

Clevertech has been taking its first steps in this sector since 2015, going as far as collaborating with several distilleries and wineries in the year just ended. The offer focuses on case packers as well as palletizing. In this sector, the first systems were already delivered in 2017 and the current year has seen Clevertech producing case packing systems for the biggest wineries in North America.

E-commerce

Since 2018, Clevertech has inaugurated a business unit dedicated

to the world of automation in the e-commerce sector, thanks to an important collaboration with the indispute world wide leader in e-commerce. To date, the business unit involves more than 30 high specialized Engineers involved in continuous R&D joint development, placing Clevertech at the forefront of e-commerce logistics in Italy with technologies suitable for handling, tracking and sorting of different products to be managed in the e-commerce supply chain.

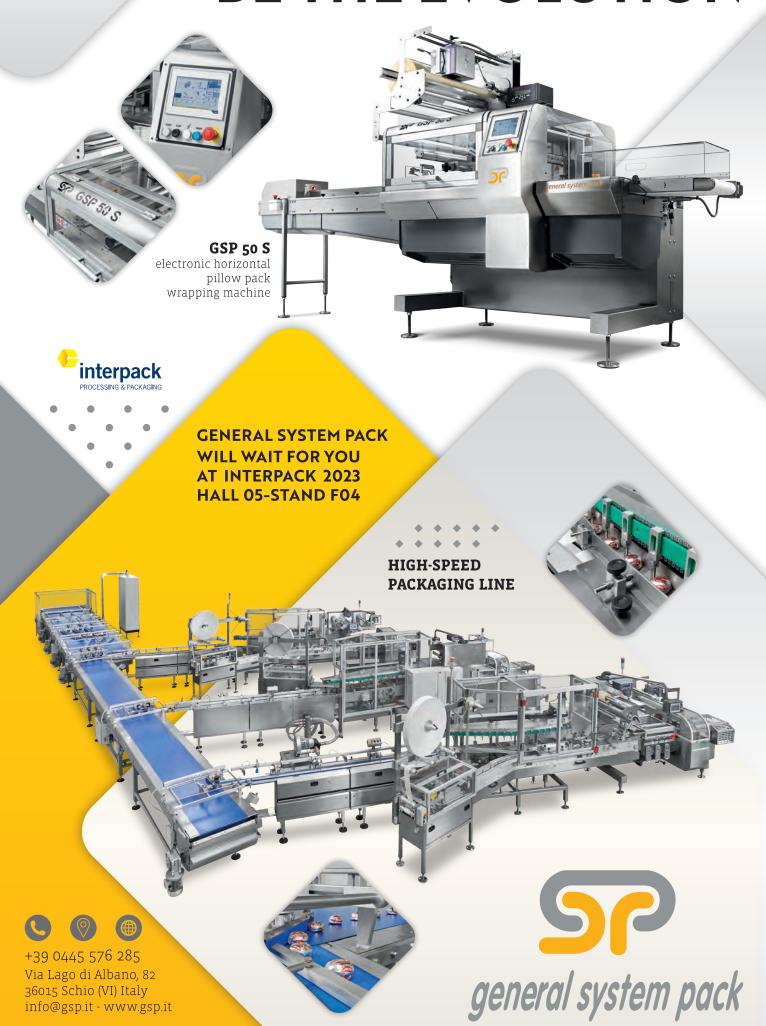
Interpack

Industry professionals have great expectations for this event, in its first post-pandemic edition. Clevertech will present itself with a revamped image, and live system simulations. A robotic system capable of dialogue with an AGV system will be on display at the booth: this will make it possible to demonstrate the different operations possible in a packaging line such as depalletizing, palletizing and product layer handling. The palletization part will feature pre-forming with layer composition with Roboflex, thanks to robotic manipulators that enable the handling of cartons of different sizes, without resorting to changeover. The digitization package, applicable to any system, as well as a camera system for monitoring and assistance, will be presented at the fair. The package also includes the option to install innovative touch screens with dedicated menu displays for diagnostics, up to a specific predictive analysis package, an exclusive solution presented at Interpack. To celebrate the upcoming edition of Interpack, after a long two-year wait, Clevertech has organized a full-day event as well as an exclusive invitation-only party on the evening of May 8. International managers and staff will be pleased to welcome customers and partners for a demonstration of the opportunities offered by Clevertech systems. îm

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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.

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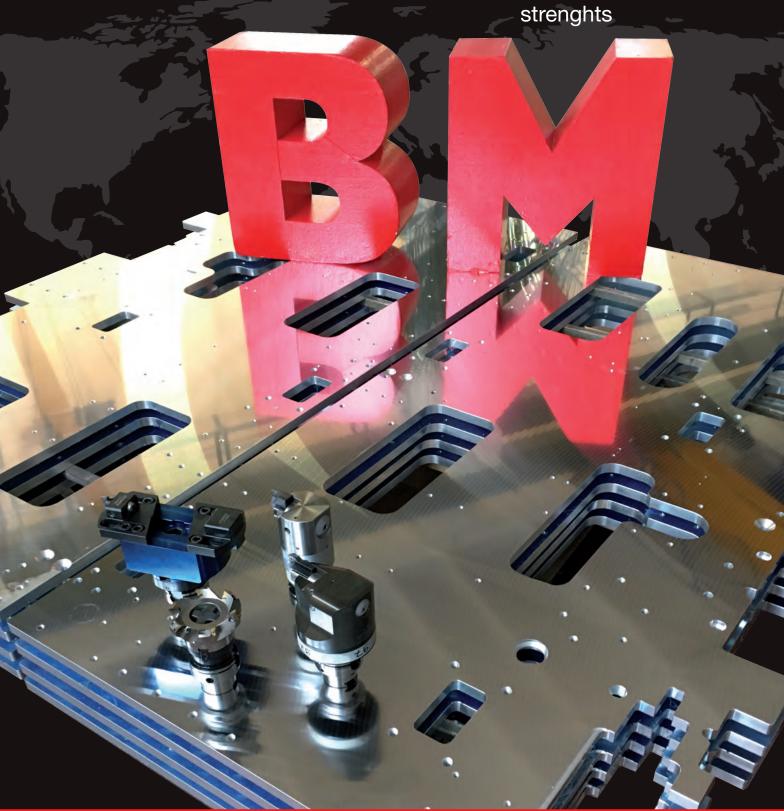


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NATURE PRESERVES ITS PRODUCTS, FOR EVERYTHING ELSE THERE IS TECNO PACK



Wrapping up quality with TAILORED PACKAGING SOLUTIONS

olcezze 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 Dolcez-

ze 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,

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











palm oil-free products and a clearer labelling system.

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 Dolcezze 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 province 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 Dolcezze 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 Dolcezze Savini:

• Monopiega Diamond 650 wrapper. This is an innovative and highperformance 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 tailormade 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.





Food packaging to combat food waste. It may seem like a play on words, but new technologies are talking about edible packaging based on natural components or derived from by-products of the food industry. It is the new challenge of sustainability, as taught by the well-known trio: reduce, reuse, recycle.



by Elisa Crotti

he numbers are alarming: 1.3 billion tonnes of food are lost every year. By 2030, this figure is expected to soar to 2.1 billion. With a planet struggling to sustain us, a climate gone haywire, and a population increasing exponentially, food waste is a serious issue.

One example concerns fish: every year, 35% of the catch is lost or discarded before it is commercialized. This is equivalent to 3 billion Atlantic salmon. A staggering amount that we can't even imagine.

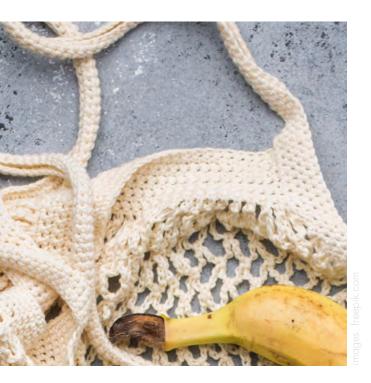
Given that tackling food waste has been an imperative for over a decade, one strategy could be to convert it into packaging. That is, discarded food could be used to store other food. A utopia? No, if you consider that smart solutions have been under study for some time now, finding literal fertile ground in developing countries

One, among many, concerns the production of bags created with a flour obtained from the crushing of tropical fruit waste, capable of biodegrading in 3-6 months and living on the shelf for up to two years, costing 10% less than non-biodegradable plastic bags. Moreover, we have the case of films made through a particular processing of natural hydrocolloids and active agents; these are not only sustainable packaging for food preservation, but also edible.

A comprehensive study by Bahçeşehir University (BAU) in Istanbul is working on producing biodegradable



latest news



food packaging from food waste or by-products of food production, working together with a packaging industry partner and a food industry partner. The study is supported by the FAO Regional Office for Europe and Central Asia and Interpack, and will be publicly presented at the end of spring.

The crucial role of packaging

Why is packaging so important in combating food waste? Firstly, because the packaging industry has a significant weight. It is the largest industrial sector in the world, second only to the food and petrochemical industry. The packaging industry is among the top 5 industries in all countries in the world, with annual growth rates between 3 and 5%. It is not difficult to understand how the concept of sustainability is more pressing than ever here.

Furthermore, in the food sector, waste due to packaging is extremely high. Some data can give us a picture: 300 million tonnes of plastic are produced every year, and half of it is used only once. In particular, plastic used for packaging represents about 40% of the total plastic produced, and most of it ends up in a landfill. As if that weren't enough, only 30% of the plastic used in food packaging is recycled, while most of it ends up scattered in the environment.

If we then look at emerging countries, we find that inadequate packaging performance is precisely what causes incorrect food preservation and, consequently, food waste.



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OPEM Green solutions, flexibility, and customisation

n the market packaging, the current trend is an increasing preference for sustainable products. However, this trend imposes the need for **greater operational flexibility** for companies in the sector. Elena Binacchi's analysis and experience

According to research by Nomisma's Largo Consumo Packaging Observatory, in 2021, more than half the

population of Italy (65 per cent) said that they would regularly buy products with less packaging in the next 12 months, while 59 per cent said they would buy products with sustainable packaging.

Added to this is the growing importance of brand-oriented packaging, which is capable of visually displaying the key concepts of the brand personality, and customisation, which inspires us to keep finding new ways to present the product and make it valuable for the final user.

"These are market requirements that have a direct impact on the packaging solutions adopted by manufacturers and distributors, despite very high innovation and implementation costs." This is explained by Elena Binacchi, marketing and communication manager of the Emilia-based Opem Spa. "In this sense" - Binac-





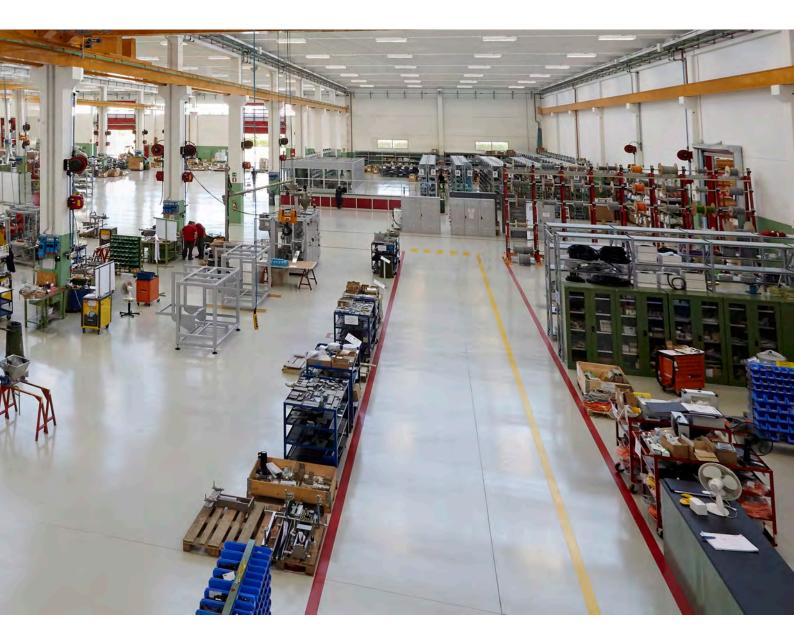


chi continues - "Opem can count on great operational flexibility combined with a craftsmanship approach: with almost 50 years in the food packaging business, the company enables both large companies and SMEs to respond effectively to the demands of an increasingly global and competitive packaging market."

In other words, the role that packaging plays today is definitely central. "The

choice of packaging today directly influences production, distribution, research and development, sales, through to accounting and finance," Binacchi explains. "In particular, brands or distributors are increasingly requiring strong customisation and a solid sustainability strategy from their production partners, so as not to risk conveying messages that are not very attentive to social and environmental issues. Manufacturers, especially

SMEs, may find themselves unprepared if they do not invest adequately in product design to meet these stringent market requirements. But above all, the packaging is nowadays an integral part of the offer, in fact packaging acts as the main means of triggering preference for any particular product: this is why it is often referred to as the 'silent salesman'. Customised packaging, therefore, represents an opportunity to build consumer loyalty,







consolidate consumer brand perception and differentiate oneself from the competition."

In all this, the aspect of environmental, but also social, sustainability takes on a significance that even the most distracted or sceptical person can no longer ignore. "As far as Opem is concerned" - says Binacchi - "we are not merely talking about a production line, rather it is a green policy, a philosophy we want to pursue. For us, the choice to be a green company means orienting the entire production activity, from design to individual processes, as well as from in-house manufacturing to the choice of machinery, towards a drastic reduction in consumption, high energy efficiency and a concrete valorisation of space"

Today, the Emilia-based company also has branches in the United States, Brazil and Asia "and continues to operate at excellent technological levels while preserving the craftsmanship of its products" Binacchi adds. This enables highly customised production lines, designed according to the needs of the customer, be it a large customer or an SME. The keystone of Opem's strategy to meet market needs is its ability to interface with any upstream and downstream supplier in the supply chain, without partnership preclusions, and then take on the role of a project manager to coordinate the design and release of the complete line. In particular, this operational flexibility not only allows freedom of choice to customers, large or small, but also enables Opem to realise advanced packaging solutions that would probably be unthinkable in more traditional contexts, bound only to certain suppliers, such as capsules of unusual shapes or the open-and-close bag for pet food, or even the adaptation of a packaging machine to the specific case of large biscuits. While, typically, the mix of high technology and extensive customisation would require a considerable economic investment, that is often not justifiable for a single production line, Opem, thanks to its enormous customisation experience, succeeds in reducing engineering costs compared to other, more structured competitors, and is able to provide a high-quality, advanced solution even for small companies." 🏛

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for a tailor made packaging.

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Mondial Pack: innovation and sustainability for industrial packaging

ackaging is a strategic sector for the industry, and Mondial Pack has been one of its main players for over 35 years.

Founded with the aim of offering high-quality services to small and medium-sized enterprises, the company has evolved over time, becoming a reference point for technological innovation and environmental sustainability.

Today, Mondial Pack is one of the few Italian companies capable of managing the entire internal production process, from design to turnkey delivery, ensuring a high level of quality and customization.

Thanks to its decades of experience, the company offers vertical packaging lines, flow-packs, thermo-sealers, and cartoners, capable of interfacing with any dosing and counting line, offering flexible and highly personalized services.

But what makes Mondial Pack a virtuous company is its attention to eco-sustainability.

Always committed to reducing the environmental impact of its activity, the company has taken a further step forward by using completely ecological and recyclable materials, such as polyethylene.

The result is a highly innovative and sustainable product line that meets the needs of customers and the challenges of the future.

Among the latest innovations presented by Mondial Pack at Inter-









PACKAGING MACHINES

pack, there is a vertical line that packages entirely in paper and paper combined with polyethylene, recyclable as paper.

The final product is a bag with four welded edges, made entirely of recycled material and foldable to ensure a seal of guarantee.

The packaging machine can be combined with an end-of-line composed of a robot for insertion into boxes, palletizer, and possible wrapper, all in a highly efficient and completely ecological system. For Mondial Pack, innovation does not stop here.

Thanks to integration with Industry 4.0 and the use of innovative techniques, the company looks to the future with a dual objective: to protect the environment and serve the needs of small and medium-sized enterprises.

To guarantee a timely and professional service, Mondial Pack has assistance centers throughout Italy.

In summary, Mondial Pack represents excellence in the industrial packaging industry.

A cutting-edge company that combines technological innovation and environmental sustainability, placing the needs of companies and the territory at the center of its activities.. 🏛

Visit: www.mondialpack.com







ZER



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



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

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



IMA in the FOOD Market

MA serves the international Food market with the best platforms and machines now available to satisfy any industry need, consistently providing tailored technologies for the processing and packaging of tea & herbs, coffee, confectionery, stock cubes and savory, dairy and baby food, bakery, protein, produce and more, offering fully engineered turn-key solutions delivery highly efficient packaging lines.

Innovation is a keyword to success and IMA FOOD counts on a variety

of specific solutions starting from the Tea & Coffee sector, strong of a world leading position in the manufacturing of tea bag packaging machines and counting on the renowned know-how and competence on processing and packaging solutions for the entire **coffee industry** chain. In 2023, at least two new packaging platforms will see the light of day: the new high speed C24-IQ Tea Bag Packaging machine and the new SYNKRO, a latest generation **high-speed** coffee capsule filling and sealing machine.

IMA FOOD supports the **Confectionery** international industry responding to the most diverse processing and packaging requirements with machines and platforms conceived to handle **gums**, **candies**, **coated sweets and bars**.

A variety of technologies are available to respond to the fast-moving industry trends and needs: compression and coating, wrapping and primary packaging for cartons, rigid containers, flow-packs, doy-pack and blisters up to case packing and palletizing.







IMA FOOD also boasts an undiscussed leadership in the manufacturing of low, medium and high-speed dosing, pressing and wrapping lines for **hard** and **soft stock cubes** with a wide choice of solutions, ranging from stand-alone machines to fully integrated, turnkey lines including boxing and cartoning machines and end-of-line packaging in display and bulk containers.

Ready to be launched in 2023, the new **IMA CORAZZA PDP24**, a compact, reliable and flexible hard stock cubes pressing machine.

For the dosing, wrapping and packaging of **cream, fresh** or **processed cheese** IMA is a reference brand, with a wide range of machines for **triangular, rectangular** or **square portions** guaranteeing high flexibility with its dosing systems.

IMA also provides equipment for dosing and wrapping, filling and sealing (FS), cartoning and end-of-line solutions for **butter and margarine** products packed into mini, consumer and big portions.

IMA offers the most revolutionary technology in the field of flexible stand-up spouted and unspouted pouches, pre-formed and thermoformed cups for **yoghurt**, **beverages and baby food**, leaving the customer free to choose shape and marketing solutions.

Form, fill and seal machines (FFS) for cups, portion packs, stick packs and sachets, fill and seal machines (FS) for pre-formed cups, tubs, and bottles complete the range of solutions for the dairy & food industry.

To respond to the demanding request for flexible packaging solutions on any food market segment, IMA offers the widest variety of HFFS and VFFS packaging lines constantly researching innovative solutions and new eco-compatible materials

Fruit of IMA ILAPAK's innovation and ready to be launched: the new Delta OF-360 X (HFFS) able to switch from a material type to another with no effort at all , and the new DOYTRONIC 120 (VFFS) compact, modular and easy to use.

A wide range of **end-of-line solutions** complete the range, enabling the handling of countless types of products and packages: overwrapping, stretch banding and shrink wrapping, case packing and palletizing.

www.ima.it





LAMINATI CAVANNA: innovative flexible packaging solutions

ith its lamination, coupling, and flexible packaging coating solutions, Laminati Cavanna S.p.A. is a partner to choose in the flexible packaging industry.

Since 1969, Laminati Cavanna S.p.A. has been making couplings and laminations for the food, pharmaceutical, cosmetic and pet food packaging industry using flexible material films.

It makes multilayer films for electrical insulation and for the solar and photovoltaic industry.

As a reference subcontractor for the European market, it collaborates with leading converters, thanks to its constant commitment and search for inno-

vative solutions that guarantee quality, sustainability and performance.

Laminati Cavanna is ISO 9001:2015 and BRC PACKAGING certified, and is constantly evolving technologically. It keeps abreast with a rapidly evolving market by experimenting with new materials and adhesives thanks to its know-how, state-of-the-art machinery





and high degree of specialisation. Particular attention is paid to customer-required processing for new pro-

jects arising from research and development and to packaging structures that increasingly aim to be environ-

is constant and pursues continuous environmental performance improvement, via its support to projects related to the development of the territory in which it operates. Since 2020, the Ambassador of the Packaging Ethics Charter Foundation, Laminati Cavanna has been committed to spreading a positive packaging culture, abiding by its Code of Ethics drafted in

2021.



www.laminaticavanna.com







MARTINI the right choice for packaging solutions

pplication fields of our machines

We have been working in particular in the foodstuff field. The range of our production starts from small weighing systems for manual packaging, which are very requested from bakers and confectioners with small production, to the **last generation** of sophisticated **Vertical Form, Fill and Seal (VFFS) machines or flow-pack machines for the foodstuff industry**.

Our range of machines includes: ponderal weighers, multi-head weighers; bucket dosers, screw dosers; vertical, sloped and horizontal packaging machines, with intermittent motion, for medium-speed production; vertical and horizontal packaging machines, with continuous motion, for high-speed production; feeding systems (belts, screw feeders, etc.); checkweighers for packets and full cartons; metal detectors; printers and various accessories.

Our machines are suitable to weigh/ dose and pack solid, granular or powdered foodstuffs like **dried** short-cut and long-cut pasta, fresh pasta, rice, oven products, snacks, breakfast

cereals, potatoes, chips, candies, dried fruit, sugar, salt, spices, tea, coffee, pet food, detergents, vegetables and many other products. Besides our range includes a line of machines designed and manufactured for the field of frozen products, by means of which we weigh and pack in particular: frozen fruits and vegetables in cubes, pre-cooked frozen French fries, fish frozen fingers and fillets, frozen mushrooms, filled frozen pasta, frozen gnocchi, frozen ready meals.



TWIN vertical packaging machine integrated with corrousel Model MCRV-D, reaching 120 bpm, combined with 28-heads multi-head weigher.





MARTINI at a glance

It's not so easy to condensate the history of MARTINI company in few lines, but we try to do it with these figures:

- 50 years of activity this year.
- Presence in about 100 countries worldwide.
- 900 customers worldwide.
- **5.000 machines** in operation worldwide.

Let us say that this year we start the second part of our life by building on what we made in the past 50 years



Continous movement vertical packaging machine Model MBM600, reaching 120 bpm, complete with 16-heads multi-head weigher.

Why to choose our machines

The big advantage which is offered by MARTINI is the versatility of its technical solutions; in fact, our technical department is able to design and realize particular "tailor-made" solutions, according to the customer's needs. Thanks to the high-quality production standards we have reached and thanks to the use of high-quality components, our machines assure to the final user high performances, long duration and maximum safety, thus guaranteeing

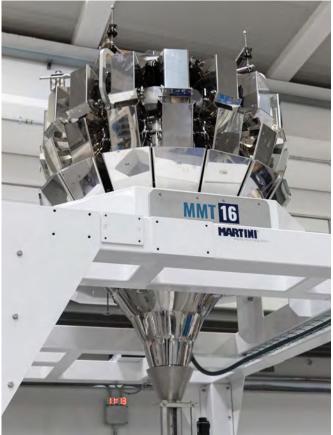
low costs for spare parts. Besides, the feature simplicity of our machines requires a very low maintenance, which can mainly be done by the customers themselves.

An efficient and reactive **After Sales Service**, our real point of









Multi heads weighers (100% manufactured by MARTINI in Italy)

strength, allow us to assist our customers with multi-languages (Italian, English, French, Spanish, Arabic) technicians and engineers.

In case you want to learn more about our machines, you can visit our web-site. 🟛

www.martinisrl.com

Interpack 2023

We would be glad to receive your visit at Interpack 2023 in Düsseldorf, 04-10 May 2023, HALL 11 STAND 11E55, where there will be a Technology corner, with our multi-function machine Model UNICA700+MMT16, in which you can learn more about: On Site Machine Diagnostics, Remote Assistance & Supervision/Maintenance of the machine by means of Augmented reality through digital visual elements (holographic technology).







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www.mt.com/interpack



Improve Contaminant Detection and Food Safety with DUAL ENERGY X-RAY

With certain products, food manufacturers can realise great benefits from using dual energy x-ray detection. Mike Pipe, Head of Global Sales of Mettler-Toledo Safeline X-ray, explains how the technology can improve both inspection and business performance.

he detection of foreign body contaminants is part of the critical quality assurance process to improve food safety standards. X-ray inspection has long been a key technology in this process, but there are different types of x-ray detection with which food manufacturers can inspect their products, depending upon the nature of the application.

Traditionally, manufacturers have used single energy x-ray detectors, but dual energy technology is becoming more commonplace, and is more powerful, effective, and easy to use than ever before. It works using the concept of 'material discrimination', with dual x-ray beams of different energy able to identify materials of different densities. Advances in detection sensitivity mean that dual energy x-ray is now even more discerning, allowing ever-smaller contaminants to be detected in a wider range of applications.

But what are the applications in which dual energy x-ray excels compared to the more commonplace single energy detection systems? In simple terms, there are two key

In simple terms, there are two key aspects of a product that make it suitable for inspection by dual energy x-ray. The first is where there is a large

degree of overlap within the package, or where there are variations in thickness. Examples of the types of packs where products overlap include packs of pasta, rice, nuts, and frozen goods such as French fries or potato wedges. Packs with variations in product thickness include chicken breasts and other fresh cuts of meat. Both scenarios produce an x-ray image with high levels of contrast.

The second type of application where dual energy x-ray is most suitable is where the likely contaminant in a food product is a low-density material, such as glass, plastic, rubber and calcified bone.

If a product application has one or both of these aspects, then a case can be made for dual energy x-ray. However, it is important to understand how this technology works. Here, the key concept is material discrimination

Dual energy x-ray works by using high and low x-ray energy levels to discriminate between materials of different densities. Software algorithms enable the material that is the food product to be removed from a noisy x-ray image, leaving behind any material identified by the second energy



TECHNOLOGY

level. This is most likely to be a contaminant.

The most advanced dual energy technology available today features an enhanced detector that collects detailed data about the product being inspected. When this is combined with sophisticated image analysis software, the result is even clearer, higher resolution images that enable the best levels of contaminant detection possible today.

Best fit

Mettler-Toledo dual energy x-ray systems can detect more than eight times as many difficult-to-find contaminants

as single energy x-ray systems. To ensure that a manufacturer's application is best suited to dual energy x-ray manufacturers should look for a "Test Before You Invest" service.

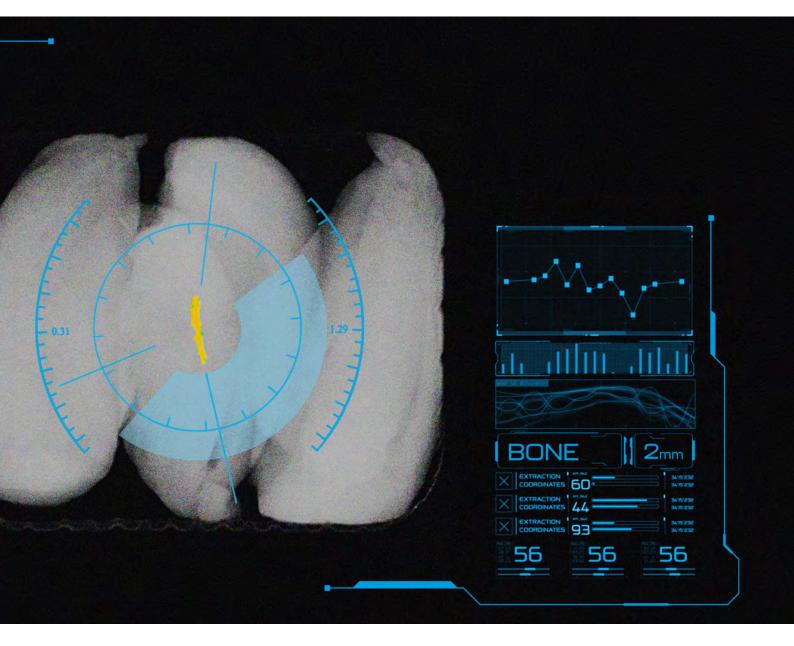
The general rule of thumb is that dual energy is best suited to applications where some or all of these factors exist:

- the product being inspected is one with high contrast, caused by overlapping products or products with variable thicknesses
- the expected contaminants are low density materials such as glass, rubber, plastic and calcified bone
- the packaging material used is low density, allowing low energy x-rays

to pass through and inspect the product inside

Improving the effectiveness of contaminant detection with dual energy x-ray that is optimised to the product application is clearly beneficial to food quality and consumer safety standards, but it also helps the food manufacturer's business.

Consider, for example, the degree to which the sensitivity of a single energy x-ray system would have to be fine-tuned to detect very small contaminants such as 0.8mm pieces of stainless steel in packs of nuts. The sensitivity required for such an appli-



PACKAGING MACHINES

SPECIAL

cation would very likely cause many false rejects, which would result in a great deal of product throwaway. Turning down the sensitivity to reduce the false reject rate might mean that contaminated products pass undetected, leading to a product recall and damage to reputation. Using dual energy x-ray would very likely enable the manufacturer to optimise detection around this application, without the resulting surge in false rejects and wasted products. In turn, this makes the business case for dual energy x-ray much stronger.

Balancing wants and needs

Food manufacturers have to balance a range of factors, including budget constraints, when deciding upon investments and improvements to their production line capabilities, and product inspection is only one of their considerations. It is a critical one though since it is the guardian of food safety.

With dual energy x-ray, everything depends upon the application, including the nature of the product, the possible contaminant, and the packaging. If operating on a tight budget, a single energy x-ray system might seem superficially more attrac-

tive. However, the more advanced contaminant detection capabilities of dual energy make more accurate inspection of challenging applications possible, and can quickly provide a return on investment, when set against the mounting costs of waste through false rejects and potential product recalls.

For more information, please click www.mt.com/xray-de-wp-pr







Cavanna: scalable Flowpack, Cartoning & Casepacking



Cavanna Packaging specializes in:

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



sales@cavannagroup.com

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www.cavanna.com

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CAVANNA: the flowpack is one of the most accessible in the world

avanna Group is a world leader in primary and secondary turn-key packaging solutions (flowpacking, cartoning and casepacking).

Sustainable, appealing and hermetical, our solutions allow our customers to stand out and differentiate on shops shelves, preserving the qualities of their products and protecting them from external and contaminating agents.

Based in north of Italy, we design and manufacture machines and complete packaging systems to answer the needs of different Industries.

63 years of expertise, a global presence of 5 sites and 11 service hubs worldwide, to propose efficient packaging solutions, install them and support our customers in their daily operations.

Over 6.000 machines/lines installed at 900 customers sites and more than 100 registered patents. These are the numbers we are proud of.

65% of our packaging lines serve the Bakery & Confectionery world: biscuits, crackers, rusks, bars (cereal, protein, sport, ...), cakes and chocolate.

While the remaining 35% goes to savoury snacks, Ready2Eat, coffee caps and pharmaceutical products.

At Interpack 2023 we will exhibit different lines:

 G41EFC: the monobloc solution of Cavanna to erect, fill and close cartons at high speeds and flexibility, efficiently integrating primary and secondary packaging.





CAVANNA



 ZERO5BMF: a high performance flowpacker, with 'BoxMotion' transversal sealing technology. It is one of the fastest machines on the market, reaching speeds of over 300 pieces / min.

Mainly aimed at the packaging of products that require very high airtightness, the ZERO5BMF is designed to work with very thick, innovative films that require a longer sealing time. First of all, pharmaceutical products, coffee capsules, some frozen products, but not only.

- TSL with ZERO5NKZ: Tray Slug Loader (TSL) is a numeric, multi-lane loader developed for products enrobed with chocolate, cookies, sandwiches and products with decorations. TSL is connected to a flowpacker ZERO5NKZ, capable to deliver up to 9 different packaging configurations, regardless the number of incoming lanes.
- ZERO4WD: the Cavanna platform of wash-down equipment, up to IP

67 ratings, to minimize any risks of contamination.

 WA3: Cartesio Packaging, the newly-acquired company specialized in cartoning solutions, presents a compact wrap-around casepacker.

www.cavanna.com

interpack: Hall 3 - Stand B74





AMC: a new concept of the packaging industry

MC is one of the most innovative manufacturers of thermosealers for the food industry. Cheeses, meats, olives, sliced fruit, ready meals are just a few examples of the variety of products that your company can pack using AMC technology, 200% made in Italy.

The thermosealers and automation lines are made following a rigorous process controlled through a UNI EN ISO 9001:2015 certified quality management system, and a new industrial philosophy introduced to meet customer needs: tailor-technology, i.e. a machine built around







PACKAGING MACHINES

the specific needs of the customer. Therefore, no machine is the same as another and every single part is designed and built to meet a specific need. Your unique and specific need.

AMC produces a wide range of packaging machines for small companies and large industries by providing fully operational systems, equipping your packaging lines with multiple accessories (product fillers, weighers and portioning systems, conveyor belts, lid systems, etc.) and much more.

It offers consultancy for the automation of entire production plants, from the receipt of raw materials to shipment through primary secondary and tertiary packaging.

All the lines created are equipped with an innovative remote assistance

system, which allows our technicians to monitor all our machines operating remotely all over the world. You will no longer wait for technical assistance because it is in real time!

Furthermore, if you are bored and tired in the daily format changeover on your machine, our packaging machines will allow you to change format in 5 seconds thanks to our exclusive Automatic Mold Changeover System.

AMC is recognized as a sector leader by internationally renowned clients who recognize the great flexibility and variety of solutions and the willingness to listen to existing problems. The solutions to these problems have led to the release of 16 national and international patents in the last 5 years alone and to winning the

growth champion award both in 2022 and 2023 certified by the German Quality Institute and published by "La Repubblica".

If these few lines have intrigued you, visit our website at

www.amcpackaging.com or come directly to visit us at our stand at Interpak Hall 3 B75 from 4 to 10 May.

Our experts are waiting for you to show you all the latest news from the AMC world for free advice on possible solutions to your packaging or automation problem.



interpack: Hall 3 Stand B75





SPECIAL

LAFERPACK - pack it your way!



ustomized horizontal packaging machines and automatic lines for flexible film packaging

A bit of history

Laferpack is a Lafer Group company based in Schio, Veneto. Lafer started in middle '70 manufacturing machines for textile industry.

The foresight and passion of Lafer managers leaded the company's diversification establishing Laferpack as one of the most important Italian manufacturers of packaging machines for food industry, with more than 600 machines produced and 61 Countries served.

Customer orientation

Thanks to the passion and commitment of its close-knit team, Laferpack can of-

fer high-customized solutions, meeting the customer's requirements. Our team is always willing to evaluate and analyse each opportunity, in order to develop a solution which can satisfy also the most demanding expectations.

From versatile manually fed packaging machines to large automatic lines dedicated to a single product, Laferpack's design and operational flexibility allow us to serve the entire food product packaging market efficiently and effectively.

Laferpack can offer to the customer machines with reduced maintenance time and operating costs, machines easy and intuitive to be programmed, thanks to the aid of all means that modern technology offers.

We are also aware of the great importance of the after sales service, in fact we have entrusted its management to a team of multilingual technicians, which is supported by an assistance network that is active in many countries around the world.

A green philosophy

For Laferpack, sustainability is a social responsibility to be shared with its own customers.

A green choice is a future-oriented decision, which is why all packaging machines manufactured by us are suitable with new wrapping materials that guarantee a minor environmental impact. If you are also oriented towards eco-friendly packaging, we will be happy to assist you along this path.



Packaging machines & automatic lines







Simply passion for our job, desire to share our knowledge, pride of meeting our customer's expectations: for this reason, when we talk about packaging machines, we give priority to the human being. We exactly know that the value of each machine is rated by the ability of doing properly what it has been built for.

Every customer becomes a partner who imagines the possibilities and who looks for the solution to which we give shape and substance. Any idea is evaluated to be the most rational as possible: it is designed, tested and applied.

Every project becomes an opportunity to further improve what we do. We offer customized solutions aimed to satisfy the user's needs, machines with reduced maintenance time and operating costs, machines easy and intuitive to be programmed, suitable with new wrapping materials that garantee a minor environmetal impact.

This is our thought that is realized with the help of all means that modern technology offers to reduce energy consumption, without losing sight of the needs of those who will daily use our machines.

Simplicity is the ultimate sophistication.

Even this year Laferpack will be at Interpack, the world's most important packaging trade fair.

Laferpack will be present with the new restyling of Disko, high speed packaging machine specifically designed for candies and lollipops: new design, reduced sizes, improved performance.

Don't miss the opportunity to discover it, we are waiting for you: Hall 4, Stand 4B28.







customized solutions

suitable for sustainable packaging

user <mark>friendly</mark> software





2023: New year, new projects

The new year has begun with a new challenge for the Laferpack team: the restyling of Disko, one of our top products for the packaging of hard candies and lollipops. This new machine, which will be presented in our stand at Interpack, comes with an improved design and reduced dimensions.

The electronics developed directly by our technicians and the high-speed sealing can grant better performances if compared to the previous model, making us highly competitive in the market.

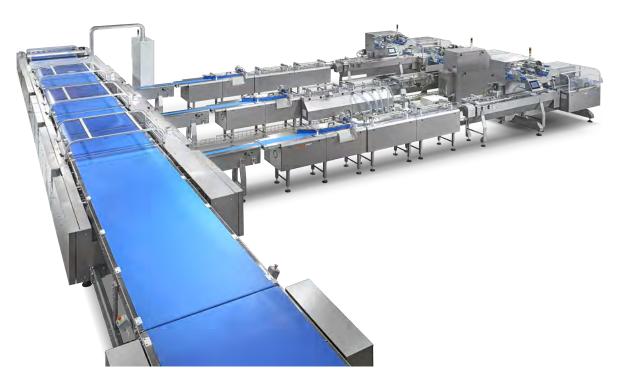
Thanks to the extensive knowledge and experience that we have gained during these years, and to the enthusiasm of our partners, we are always ready to challenge ourselves with new projects that allow us to keep growing.

With Laferpack, each customer becomes a partner and each machine an opportunity to improve together. Do not miss the opportunity to visit us at Interpack trade fair, Hall 4 stand 4B28, for discovering the New Disko and its improvements.

Our Sales Team will be glad to meet you at our stand. $\widehat{\ensuremath{\mathbf{m}}}$

www.laferpack.com









SUSTAINABLE PACKAGING SOLUTION

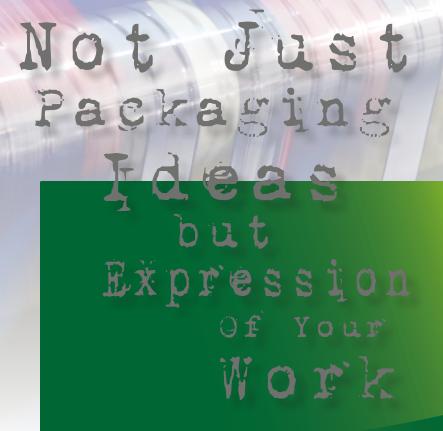


SINCERT SINCERT





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New Erreplast: better, lighter, friendlier

Over 40 years of reliability

ounded in 1980 by Crescenzo Raccioppoli, Nuova Erreplast has knows a development and evolution over the years such as transforming the company from a small family-run business into an industrial excellence in the South of Italy.

A growth path marked by important stages that have led Nuova Erreplast to become a national point of reference in the production of eco-sustainable packaging solutions. Today, the company is led by Domenico Raccioppoli, a young manager with an entrepreneurial vision always oriented to research and innovation. That vision has taken for Nuova Erreplast, to the creation of a hi-tech plant in the industrial area of Marcianise (Ce), where about 120 people are employed at the moment. With these premises, Nuova Erreplast is capaable to offer products such as single and multilayer packaging in BOPP, CPP, PET, PE, PA; paper and plastic packaging (with certificate of recyclability) with or without windows; compostable biodegradable packaging (with certificate of recyclability); dOYPACK production; 3 seals bags and shoppers for retail; recyclable mono-material packaging (with certificate of recyclability).

In addition, Nuova Erreplast acquired new packaging sister companies such as Packingraf, Print & Packaging and RDM Pack, thanks to it is able to offer integrated packaging solutions, answering to a constantly evolving and increasingly demanding market, especially in terms of sustainability.

www.nuovaerreplast.it



FLEXIBLE PACKAGING SOLUTION















ROL: we extrude ideas for your future

OL was founded in 1984 in Forli, northern Italy, to meet the increasing demand for laminates and coextruded sheet for thermoforming in the packaging sector.

With 30 employees, six extrusion lines, a slitter rewinder, and a laminator/coating machine (solventless), we process PET, PS, and PLA by extruding foils that are then wound into reels with an external diameter ranging from 200 mm to 1200 mm, thickness ranging from 130 μ to 2300 μ , and strips from 80 mm to 1050 mm.

The production takes place at two sites and generates a turnover of 16 million euros.

Going green with our sheets. 'We extrude ideas for your future' is the promise we make to our customers, and we keep that promise by offering new eco-friendly materials like recycled PET. Sustainable sheets made from recycled PET (rPET) perfectly match our commitment to offering the highest quality and environmentally friendly products.

Our new extrusion line, with its decontamination technology, allows us to produce food-grade PET sheets using 100% recycled post-consumer material that meets food-grade standards such as EFSA and FDA.

Among our products is PLA, a biobased polymer derived from natural resources. This biodegradable and compostable bioplastic allows for a significant reduction in the carbon footprint compared to oil-based plastics.

ROLPLA is an extruded PLA sheet suitable for thermoforming and ideal for fresh food packaging and all biocompostable packaging applications

Here are four good reasons why ROL is your go-to partner:



our expertise and efficient manufacturing process enable us to meet increasingly demanding customer needs.

When we receive a technical support request, our staff are promptly deployed directly to the customer's site.

Our customers are the driving force behind our growth and improvement, and we cater to the needs of both small and large businesses.

ROL is registered in the Environmental Managers Register, offering industrial customers a collection service to pick up post-production film waste and related secondary packaging materials, including pallets and cores, for reintroduction into the production cycle.

Hall 9 Stand E11

www.rol-italy.com









More than 34 years of experience in making paper packaging as a guarantee of your success.





ANICO, Italy's Leading Company in Sustainable and Ecological Food Packaging

wareness and attention of consumers to environmental issues are increasing the demand for sustainable and ecofriendly packaging solutions.

For over 34 years, Anico has been a pioneer in making innovative and sustainable paper-based packaging for many different industries.

Anico has taken the lead in producing 100% recyclable packaging for several products and, among these,



there are some astonishing ones specifically designed for the pasta industry.

Our packaging is attractive, functional, and environmentally sustainable, making it the ideal choice for pasta

manufacturers who want to innovate their packaging while minimizing their environmental impact.

We believe sustainable packaging, especially 100% paper, is the way forward, which is why we are con-







stantly exploring the comparison of paper between new materials and various manufacturing methods to ensure our products are of the highest quality whilst remaining environmentally friendly.

Anico offers packaging alternatives that can be customized according to specific customer needs.

As a leader in the Italian market, we have achieved an excellent reputation in supplying high quality packaging for a lot of products such as breadsticks, biscuits, frozen food, pet food, dried fruit, coal and others.

The ability to customize packaging ensures our clients' products are introduced in a charming and functional way, enhancing their branding and differentiation in a competitive marketplace.

Attention to design and sustainability have made our packaging a popular choice among forward-thinking pasta producers who want to innovate their packaging while minimizing their environmental impact.

Our packaging is compatible with a range of production producers like: Rovemar, Stiavelli, Altopack S.p.A., Ricciarelli S.p.A., TecnoPack or others. This connection ensures high productivity and yield, making our pack-

aging an efficient and cost-effective choice for manufacturers.

Therefore, Anico is one of the leading companies in its field, providing high-quality solutions for a wide range of products.

Our customizable packaging options, compatibility with a wide range

of machinery, care of design, and mainly, attention to environmental sustainability have made us a market leader.

This is the path we have taken, please follow it too!

Visit: www.anico.it





CAMA GROUP demonstrates turnkey solutions for your business challenges at interpack 23

ama Group will use this year's interpack event to highlight how it has evolved over the last six years. Not only has it enjoyed significant growth, but its heavy investment in R&D has led to the creation of high-technology packaging solutions that are setting the pace across multiple industries.

Cama Group is doing everything bigger at this year's interpack event. Central to the company's 500 m2 stand is a turnkey robotised naked chocolate packaging line, devel-

oped for a leading North American confectionary brand.

Even with just a quarter of the full 1,500 ppm line on the stand, visitors to interpack will get a real appreciation of the perfect partnership between advanced mechanical design and a modern high-tech digital automation infrastructure: the resulting solution being capable of handling 14 different packaging formats, with rapid changeover between them.

Cama specialists will also be on hand to highlight the things you can't

see, such as: the machine's full Industry 4.0 architecture; extremely quick RFID-managed part changeovers; comprehensive augmented reality (AR) capabilities, for training, operation, maintenance & spares; and a line-supervision and data-collection system for machine learning, artificial intelligence (AI) and analytics.

Indeed, the company's extensive AR capabilities will be the subject of a separate display area, where specialists will take you on a journey through a wide variety of machines

interpack: Hall 13 Stand A33





and packaging technologies installed all over the world.

Alongside Cama's digital capabilities, it will also showcase its real-world specialisms, with a huge array of packaging styles, types and materials from industries across the entire food, beverage, home & health and petfood sectors. All shapes, all sizes, all counts, all flavours and all volumes.

Another element of demanding packaging lines around the world will also be on display in the shape of Cama's







PACKAGING MACHINES

SPECIAL



best-selling FW Case Packer. Capable of packaging corrugated cases at the rate of 25 per minute, the FW series has proved to be a real workhorse across multiple industries.

According to Alessandro Rocca, Group Sales Director at Cama: "We never slowed down during the pandemic and interpack 2023 will show the fruits of all our hard work. Our AR solution has proved immensely popular on both existing and new-build machines, and the line supervisor solution on the showcased machine is illustrative of our next evolution,

which will see us leveraging machine data and AI to extract every possible percentage point of efficiency out of our solutions."

For anyone interested in discussing their packaging challenges, Cama is accepting meeting requests for the show, where visitors will be able to explore solutions with local representatives from Europe, North America, Latin America and Asia. There will also be a hotline to the company's systems engineering team in Italy, which will turn around system design ideas in 24 hours, so visitors can see their own potential solutions in

action the very next day at the event.

"We have so much to exhibit this year," Alessandro concludes, "and next year we may need an even bigger stand.

I personally cannot wait to show off our sustainable solutions and expanded capabilities and then showcase how we have solved so many customer challenges over the last six years. We look forward to meeting everyone there."

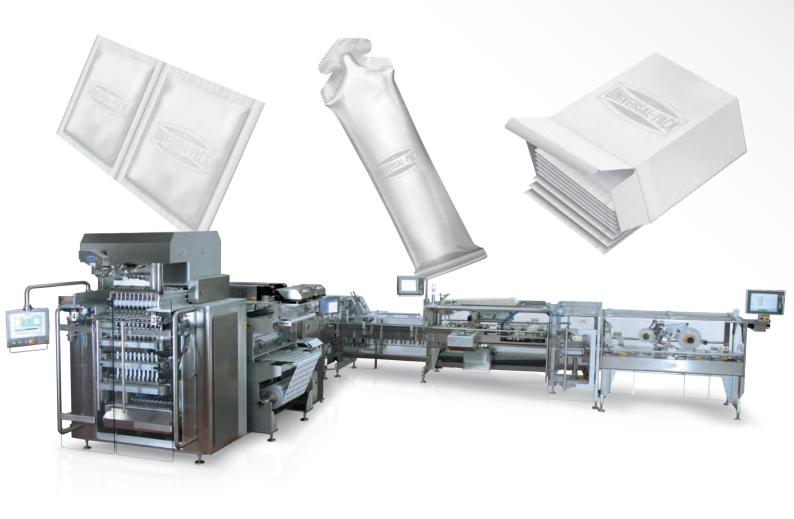
www.camagroup.com



Enter a new level of flexibility

Sachet and stick solutions for the Food Industry

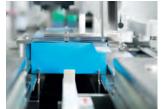














NEW STANDARDS, NEW TECHNOLOGY

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

Simple and hygienic

Universal Pack machines are built to guarantee the highest hygienic level in the simplest manner. The R&D department has designed and developed automatic CIP systems for cleaning the inner parts of dosing systems.

As a matter of fact, these systems ensure the full equipment cleaning without the need for disassembling. These solutions are aimed to reduce machine





downtime by providing ready-to-work spare units. All cleaning systems are designed and built abiding by EHEDG guidelines and 3-A sanitary standard.

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

Traceability and certifications

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

veness. The list goes on with IQ (Installation qualification), OQ (Operational qualification), PQ (Performance qualification), FDS (Functional design specifics), HDS (Hardware design specifics) and Risk analysis, FAT and SAT ad hoc protocols.

For the planet

Our non-stop research in reducing the packaging industry carbon footprint resulted in streamlined machinery design for packing recycled, recyclable and compostable laminates. LCA (life cycle assessment) is used to measure the en-







vironmental impact of our products and identify optimal ways to reduce it. It is a 360° analysis that goes beyond the mere packaging produced and involves every step of the packaging machinery production process. We develop our solutions shoulder-to-shoulder with the main global film suppliers and test them in agreement with major multinational companies in order to provide them with a turnkey solution able to produce eco-packages.

Universal lab

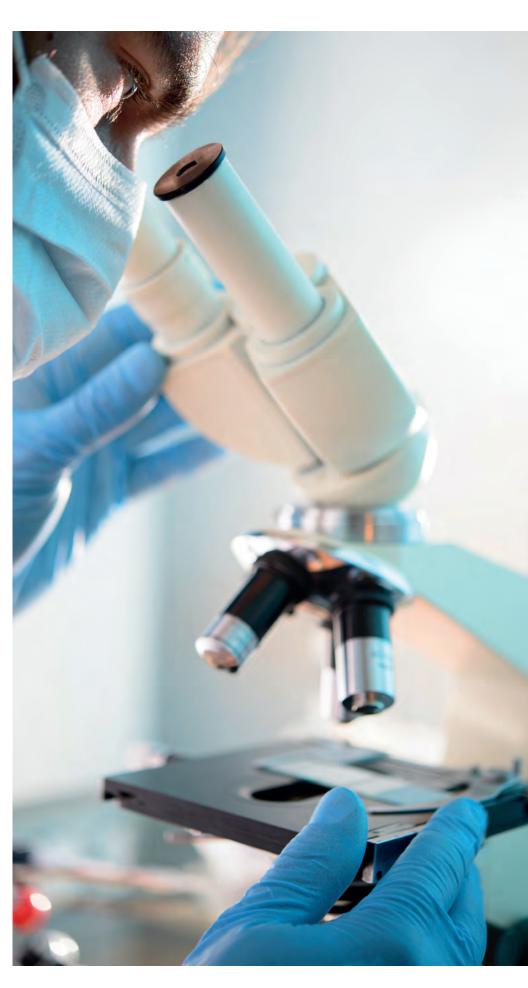
Over 30 years of scientific research. Our in-house laboratory was built to always ensure the most sustainable and efficient packaging solution. The research in Universal Lab allows us to optimize machine design, efficiency and reliability by studying the most significant properties of products and newly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

The company

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

www.universalpack.it











MAK: Rotary labellers designed to meet your every need

odularity, flexibility and practicality are key concepts in a company whose strong point is technological innovation and development.

This is what the market wants and this is what customers get from the Italian based Makro Labelling, international standard setter for industrial labellers in the beverages, food, detergent and pharmaceutical sectors.

The thirty years' experience of its founders, a team of 140 people, a dense and wellorganised sales network consisting of the branch offices Makro UK for the United Kingdom and Makro North America in Saint-Philippe (Montreal) for Canada and the USA, together with agents and representatives in the most important countries throughout the world, plus an impeccable assistance and spare

parts service guarantee satisfaction of every labelling need and constant expansion on all the most important international markets.

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

The range includes labellers able to process from 1,500 to 50,000 bottles per hour, applying up to five





labels per bottle and available in wet glue, hot melt, self-adhesive and combined versions.

For companies with limited production requirements, the MAK 01, MAK 02, MAK 03 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, 8 and 9 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 new 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 label-





SPECIAL LABELLING - CODING



lers: The 6,000 b/h to 40,000 b/h production speed and use of wrapround 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.

CLeap (Concept Leap)

Makro In 2017 created and presented a new concept of labelling

machine using longstator linear motor technology, setting a new and revolutionary standard. Cleap's concept has led to the creation of the new Inline, which, in addition to high precision and labelling speed, also offers the advantage of no format changeover: in just a few minutes the operator is ready to start production again. Its versatility and production flexibility make it ideal thanks to its small footprint.

www.makrolabelling.it





Labelling the Future

MODULARITY, FLEXIBILITY, PRACTICALITY.

Labelling in the Beverage, Food, Detergent and Pharmaceutical industries has always been our passion and our core business. Innovative technologies, an international sales and after-sales service network and operational flexibility are our strengths. Satisfying every labelling requirement from 1,500 to 50,000 bph is our result, appreciated by companies of all sizes. The more than one thousand one hundred systems now present all over the world is our greatest confirmation.



MAK machine configuration with HS2 adhesive units



Example of configuration with cold glue stations



MAK machine configuration with HS SLIM adhesive units



Cold glue stations



Adhesive stations (SLIM)



Roll-Feed stations



Hot-melt stations



Makro Labelling srl

Via S. Giovanna d'Arco, 9 - 46044 Goito (MN) - Italia Tel.: + 39 0376 1872203 - Fax: +39 0376 1872197 info@makrolabelling.it - www.makrolabelling.it





OROGRAF SRL: multiple printing systems on the same production line

rograf S.r.l. has been in the SELF-ADHESIVE LABEL and SLEEVE

business for 50 years and We are a well-established firm, both in Italy and internationally, hold ISO 9001:2015 certificate.

We offer a high-quality and highly flexible all-round service, from graphic design through to final printing.

Our production facilities are highly innovative and use the most advanced manufacturing technologies.

We have a wide range of printing systems (letterpress, screen, HD flexo, digital, offset, hot relief, dry relief, perforation, glitter effect and on-foil pantone overprinting), and we can print on all types of material, adhesive and non-adhesive

(laid, embossed, metallized paper, synthetic films, twin and booklet labels, reels and sheets), for any kind of end product.

But what really distinguishes Orograf S.r.l. is that we can combine multiple printing systems on the same production line and therefore offer our customers unique and customized final products tailored to their specific needs.





FOOD Labels

Regardless of whether they are applied on packaging or directly on products and fresh foods, labels for foodstuffs must be produced respecting a series of precautions dictated by the particular products on which they are to be applied.

Above all they must be produced in compliance with **consumer health protection laws**.

OROGRAF uses top-quality certified and guaranteed materials that meet these legal requirements and guarantee consumer protection.

In addition to informing the consumer about the product, food labels can be used as warranty seals or openand-close labels; they can also carry advertising, recipes, warnings, information about competitions, discounts, and so on. As well as being customized with logos, colours and ingredients, food labels also need to carry **traceability** information, such as barcodes, progressive numbers, production and best before dates, batch codes and other **variable** data.

Orograf offers a wide range of plasticized materials, white and transparent, as well as standard finishes such as lamination and protective anti-UV coatings, hot foil printing and relief embossing.

SLEEVES

Our sleeves (produced in PET, PVC or PLA) can be printed in **multiple** colours, including metallized ones.

An important characteristic is the option of providing every sleeve with a "tear off" system.

This is essential for products that consumers need to be able to open easily after purchase; this system also allows the sleeve to be removed from the container for recycling, once the product has been consumed.

MULTIPAGE, TWIN LABEL and PEEL-OFF

Multipage, Twin and Peel-off labels are all great solutions when the available space is limited and needs to be optimised.

Multipage labels, as their name suggests, have a number of pages and they come in different sizes and formats: they can take the form of folded leaflets; detachable or with a







transparent resealable cover; or booklets (bound like a book).

Peel-off labels can have 2 layers (4 printable surfaces), 3/4/5 layers, or a booklet format; they can be printed in multiple colours, also internally, and there is the option of adding various other features, such as a tear-off system.

Twin labels are special self-adhesive "page-like" labels where a second layer (or page) can be applied on top of the first.

This can be peeled back, read and repositioned. $\widehat{\boldsymbol{m}}$

www.orograf.it









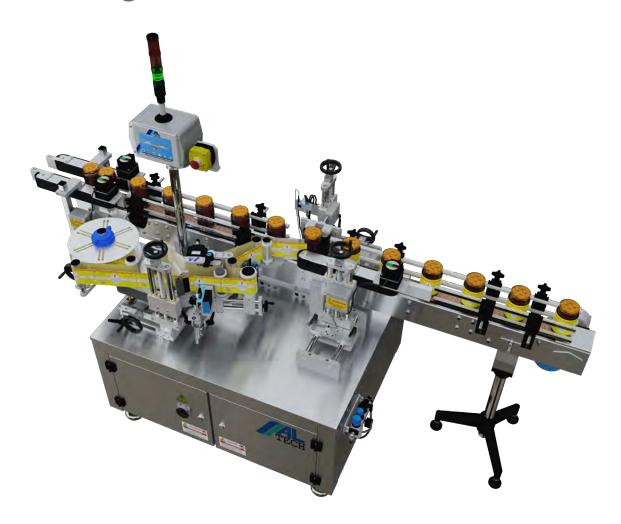
- Hot/Cold foil
- Embossing and Debossing
- On-foil Pantone overprinting
- Glitter effect
- Relief and sensory varnish
- Anti-counterfeiting varnish
- Die-cutting

Our rotary machines print up to six colours simultaneously and apply anti-UV coatings, always ensuring very high production rates.





ALTECH - Advanced Labelling Technologies



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

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

ALTECH has maintained a presence in the market since 1991, and during its three decades of activity the quality of the company's systems has won



over an increasingly large number of customers worldwide.

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

AlTECH will be keeping its traditional appointment in Dusseldorf, exhibiting at Interpack from 4-10 May 2023, where the most representative models in its range, as well as some important new ones, will be on display at

HALL 08B STAND 8BC48.





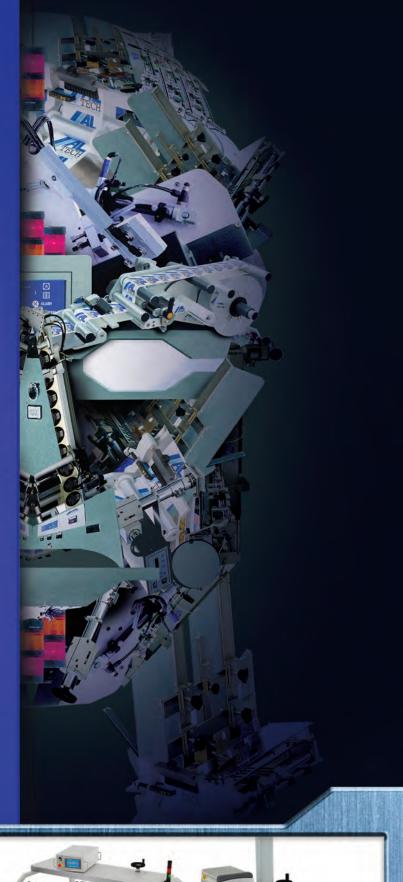
INDUSTRIAL LABELLING MACHINERY MADE IN ITALY

ALTECH SRL Viale De Gasperi, 70 20010 Bareggio (MI) Tel. +390290363464 info@altech.it www.altech.it

interpack

PROCESSING & PACKAGING

Düsseldorf - Germany 4 -10 May 2023 Hall 08B - Stand 8BC48





LABELLING CODING

SPECIAL



In particular, the following will be on show:

- The Alstep E, the most compact and economical labelling head on the market.
- The ALritma S, a high-performance labelling head with touchscreen display.
- The ALritma X, an industry 4.0-ready labelling head with exceptional performance.

- Alcode AC05, a real-time printapply unit with air-blow applicator.
- Alcode AC36, a real-time print-apply unit with full-electric applicator with vacuum belts.
- Alline E/C, for front-back labelling of elliptical products, presented with an adjustable axis drive system and automatic format change logic.
- Alcode Robot, for real-time printing and application of labels to pallets, equipped with a robot arm able to reach different application positions and programmable via learning.
- Albelt BT52, for top and bottom label application on tubs.

For further information

info@altech.it www.altech.it







LISA WICKER named Ceo of Lyons Brewing & Distilling Co

Lyons Brewing & Distilling Co. is the new global brand name for the Lyons family's beverage business, including breweries and distilleries in Kentucky and Ireland



hat began as a personal passion and a toast to family tradition for the late Dr. Pearse Lyons has become a global beverage business with six breweries and distilleries in Kentucky, USA, and in Ireland crafting an award-winning line of beers and spirits.

The legacy continues with Dr. Mark

Lyons, the seventh generation of the Lyons family to be involved in brewing and distilling, as well as his mother and Pearse's wife, Deirdre Lyons. Recently, Mark and Deirdre developed a new global brand name for their family of breweries and distilleries. Lyons Brewing & Distilling Co. now represents their beverage entities, including Lexington

Brewing & Distilling Co., Dueling Barrels Brewery & Distillery, Pearse Lyons Distillery and Pearse Lyons Brewery. This new name is reflective of the business' private and familyowned nature and will enable the business to better tell its story.

With the development of this new global brand, the Lyons family also







began an international search for its first CEO.

"We were looking for a leader who shares our team-focused values, commitment to excellence and passion for brewing and distilling," said Dr. Mark Lyons, president of Lyons Brewing & Distilling Co. "We were delighted to find those qualities in Lisa Wicker.

When Lisa and I met, one of the elements that stood out most to me was her background as a scientist and journalist.

As we appoint our first-ever CEO for Lyons Brewing & Distilling Co., it seems fitting that we found someone who, like my father did, has a deep enthusiasm for and expertise in the craft — both the science and the storytelling."

Wicker most recently served as the president and master distiller at Widow Jane Distillery, a rapidly growing whiskey brand in New York. Her early interest in the beverage business began on an Indiana vineyard, where she picked grapes as a farmhand and proved she was not afraid to get her hands dirty.

Since then, her 20-year career journey has spanned many facets of the spirits industry, including winemaking, whiskey production, product development and fermentation management.

She has held progressive roles in distilling and management at Limestone Branch Distillery in Lebanon, Kentucky; Starlight Distillery in Starlight, Indiana; and Preservation Distillery in Bardstown, Kentucky.

Wicker's strengths include building teams and mentoring others in the industry. She has trained brand ambassadors and distributors and conducted masterclasses at WhiskyFest in New York, Whiskies of the World in Washington, D.C., and The New

Orleans Bourbon Festival in New Orleans, Louisiana.

"I am delighted to return to Bourbon country and have the opportunity to be part of the next phase of growth for Lyons Brewing & Distilling Co.," said Wicker. "The Lyons family's story is unique in the brewing and distilling space, and the passion that the team has for their brand and their brewing and distilling processes is authentic. They have all of the elements to generate even greater success in the future, and I am looking forward to this next phase of growth alongside them."

"Our breweries and distilleries were founded on family tradition, are steeped in rich history and are reflective of their communities," said Lyons. "They hold stories that, when well-told, help connect people to our brand. Lisa's experience with product development, combined with a degree in journalism and a shared belief in the power of storytelling, make her uniquely qualified to deliver on our vision for Lyons Brewing & Distilling Co. and to share what we find to be so special with even more people."

Wicker began in her new role as CEO of Lyons Brewing & Distilling Co. in November and is based at the company's Lexington Brewing & Distilling Co. in Lexington, Kentucky.

RECENT ACCOLADES Lexington Brewing & Distilling Co. wins two World Beer Awards

Two beverages produced by Lexington Brewing & Distilling Co. recently brought home gold medals from the 2022 World Beer Awards, a global awards program that selects the best beers in all internationally recognized styles.

Kentucky® Maple Bourbon Stout and Kentucky® Bourbon Barrel®

Ale were recognized as a Gold Medal Flavored Stout and Porter and a Gold Medal Heritage Beer, respectively.

Kentucky Maple Barrel Stout is a bold imperial stout brewed with brown sugar for an extra kick.

With flavors of roasted malt and cocoa, this brew was aged for 18 months in a freshly decanted maple syrup bourbon barrel. Kentucky Maple Barrel Stout has notes of sweet maple syrup, vanilla and caramel, backed up by hints of oak on the finish.

Kentucky Bourbon Barrel Ale is aged in freshly decanted bourbon barrels from some of Kentucky's finest distilleries. Subtle yet familiar flavors of vanilla and oak are imparted to this special ale as it rests in the charred barrels. T

his beer has grown to become the flagship beer of the premier name in barrel-aged beers.

The 2022 World Beer Awards are part of the World Drinks Awards, presented by TheDrinksReport.com, a leading online resource for drinks professionals. More than 3,200 beers from more than 50 countries entered the contest, and an international judging panel blind-tasted and scored the entries across three rounds of judging to identify the best beers in 10 categories.

Lexington Brewing & Distilling Co. is located in downtown Lexington and is a popular stop on the Kentucky Bourbon Trail®.

Pearse Lyons Distillery recognized by Whiskey Awards Ireland

Pearse Lyons Distillery at the historic St. James Church in Dublin has garnered yet another accolade, recently receiving the Highly Commended Award in the Sustainable





Distillery Category at the Icons of Whiskey Ireland 2023 awards.

The award is given to "a distillery that has implemented improved sustainability processes within the distillery and the wider supply chain in the past 12 months that have led to demonstrable reductions in the brand's environmental impact."

Pearse Lyons Distillery is Dublin's only independent, family-owned distillery and is named for Alltech founder Dr. Pearse Lyons. It produces Pearse Irish Whiskey brands and pays homage to the Lyons family's brewing and distilling legacy.

Located in a deconsecrated church, the distillery opened in 2017 and quickly became an award-winning tourist destination. The Lyons family's environmental commitments were at the core of every decision made during the church's restoration, from LED lighting and solar panels to shipping spent grains to local farmers to be used as animal feed.

Pearse Lyons Distillery recently achieved Gold Membership, the highest and most prestigious standard in the Bord Bia Origin Green program, Ireland's pioneering food and drink sustainability program.

Currently, the distillery is also awaiting intermediate certification from Sustainable Travel Ireland, the only Irish certification body with criteria recognized by the Global Sustainable Tourism Council (GSTC).

In November, Pearse Lyons Distillery hosted the 2022 Irish Whiskey Awards ceremony, the pinnacle of the Irish Whiskey industry event calendar. More than 120 whiskey producers competed for medals in 17 categories, and entries were judged by members of eight Irish whiskey societies from across the country.

Pearse Lyons Distillery scooped up three prestigious awards at the event. Both the Pearse Lyons 5-Year-Old and Pearse Lyons 12-Year-Old whiskeys received gold medals.

The distillery also won the title of Best New Irish Whiskey in the three-to-sixyear-old category for its latest offering, Genesis, which has not even been released to the public yet.



Specialisti in etichette professionali

FPE SrI è una Società Italiana, specializzata nella produzione di etichette professionali per i sistemi di identificazione utilizzati nelle Industrie di diversi settori.

In un decennio la Società è cresciuta affermandosi come produttore leader a livello Nazionale e Internazionale.

FPE Srl è il partner affidabile e specializzato per dare risposte mirate e tecnologicamente avanzate alle più esigenti richieste del mercato. FPE Srl per offrire un servizio più completo, ha un esteso programma di vendita che include:

SW Programmi software LABEL MATRIX, CODESOFT e CABlabel S3

NA Nastri per stampanti a trasferimento termico

ST Stampanti termiche/trasferimento termico di CAB e ZEBRA

LE Lettori di codici a barre lineari e bidimensionali









BIOBASED HOTMELT adhesives for packaging and labelling

company that researches, designs and produces
HOTMELT ADHESIVES for any industrial application active since 1974. The success of the company is based on the continuous updating of the characteristics of the adhesives, which follow the technological evolution of the supports to be glued and of the systems used for the various industrial applications

The global adhesives market has evolved significantly over the past decade, due to increased consumer sensitivity to **renewable feed-stock-based formulations**. In this

context, ICAT has distinguished itself as a pioneer in the sector, being the first to develop innovative hotmelt adhesives for packaging (ICAMELT RX) formulated with 50% of raw materials from renewable sources, the only real sustainable alternative to metallocene based hotmelt adhesives on the market.

ICAMELT RX are the most performing biobased hotmelt adhesives available in the market, specially developed for the food packaging industry being approved for direct contact with food substances and free from MOSH and MOHA mineral oils.



Labelling sustainability – Alkaline soluble hotmelt adhesive:

The choice of label and adhesive are a key component to achieve **sustainable packaging**. ICAT developed a **water-soluble hotmelt pressure sensitive adhesive**, called **ICAMELT 3916 HS**, certified according to the **PETCycle** standard.

ICAMELT 3916/HS improves ICAT customers sustainability in PET, glass







and metal bottling processes, being produced for **86% from renewable raw materials** and, in the same time, guarantees the highest performances on the most advanced label-

ling equipment available in the market.

ICAGRIP Natural Adhesives for pallet stabilization:

The stretch film is an LLDPE plastic film produced from fossil raw materials (oil

and gas). There are many initiatives put in place today to reduce its **environmental impact**, but none of them completely solves the problem. At **ICAT** we believe in the optimization of packaging understood as the **removal of all unnecessary materials**.

For this purpose we have developed a new line **ICAGRIP Natural Adhesives**, suitable for pallet stabilization (100% biodegradable), able to reduce the use of stretch films and consequently the disposal costs, the risks of damage to goods during transport, going at the same time to improve the sustainability of the packaging.

Thanks to the use of ICAGRIP Natural Adhesives it is possible to reduce the stretch film used from 50% to 100%, ensuring better product stability and an improved packaging sustainability.

Visit: www.icat.it/it





66 FOOD LABELING: BETWEEN REGULATIONS AND TECHNOLOGICAL INNOVATIONS. 99

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

ood labeling has become a central issue in contemporary society. The quality of food and food safety are distinctive elements of European culture. Food labeling allows consumers to have clear and transparent information about the products they purchase, as well as ensuring compliance with current regulations.

In this article, we will examine the main rules governing food labeling and the technological innovations available to companies to improve production and control processes.





The regulatory framework

The regulations on food labeling are based on Regulation (EU) No. 1169/2011 of the European Parliament and of the Council, known as FIC (Food Information to Consumers). This regulation establishes the mandatory information to be included on the label, such as the product name, list of ingredients, expiration date, storage conditions, allergen indication, and nutrition table.

The health ministries of the various countries are the entities responsible for controlling and monitoring compliance with regulations on food labeling, including the prohibition of unfair and misleading commercial practices.

Technological innovations in the food industry

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

- 1- Blockchain: This technology allows for the creation of a secure and unalterable digital record of transactions along the production chain. In this way, companies can guarantee the origin and quality of the ingredients used, offering consumers greater transparency.
- 2- Artificial intelligence (AI) and machine learning: The use of advanced algorithms and automatic learning systems allows for real-time analysis and monitoring of product quality, and the detection of any anomalies or irregularities in the labels.
- 3- Smart labels and QR codes: The adoption of interactive labels and QR codes allows consumers to access detailed information about the product and its production chain simply by using a smartphone.

- These solutions offer a more complete and personalized experience for the customer, who can make more informed purchasing decisions.
- 4- Internet of Things (IoT) and sensors: The use of connected devices and advanced sensors along the production chain allows for the collection and real-time monitoring of data, improving resource management and reducing waste. For example, sensors can be used to monitor temperature during the transport and storage of products, thus ensuring the safety and quality of food.
- 5- 3D printers for labels: 3D printing allows for custom labels for each product, with greater flexibility and a lower incidence of errors. This technology can be particularly useful for companies that produce food in small batches or with specific characteristics, such as organic or gluten-free products.
- 6- Digital platforms and management software: The use of digital platforms and specific software for label management simplifies and speeds up the process of creating and revising labels. These tools can help companies comply with current regulations and prevent any penalties for non-compliant labels.

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





Modular CM: Flexibility&Compactness. The P.E. LABELLERS labelling solution preferred by Wine&Spirits

he new rotary labeling machine is completely ergonomic and flexible, with its layout reconfigurable quicky and easily.

Modular CM is a compact and solid machine available in 4 sizes from small to medium, up to 6 labeling stations, perfect for glass and plastic bottles, cylindrical and shaped formats, and for partial labels – front / back, neck labels, plastic I/L/U shape tax stamps.

This solution has all the features to be loved by many sectors that need a small to medium-sized labeling machine, super flexible thanks its complete modularity, with a layout that can be reconfigured easily and quickly.

In particular this ergonomic labeling machine meets perfectly the needs of many producers and bottlers in the Wine & Spirits sector.

In addition to Wine & Spirits, Modular CM also satisfies the production



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

needs of the Oil, Beer, Food & Dairy industries.

It features labeling stations with pressure sensitive technology and cold glue, reciprocally interchangeable; they are replaceable in a few steps according to any production needs. The Modular CM is a machine that

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







provides the highest standards of safety for the operators:

it has up/down protections that, when raised, instantly stop the machine's operation.

Modular CM was in the spotlight of many 2022 international trade shows, and also this year it will be present in significant fairs.

The first in roadmap: Enomaq (Zaragoza – ES, 14-17.02.23) and Vinitaly | Enolitech (Verona – IT, 2-5.04.23). ⋒

www.pelabellers.com

Founded in 1974 in Mantua (Italy), P.E. Labellers is a global leader in the design and manufacture of entirely modular and ergonomic automatic labeling machines. The developed solutions offer all available labeling possibilities, even reciprocally combined, through independent and interchangeable machines and stations. The company's lean production is inspired by the concept of total flexibility: with this Design Innovation approach, P.E. Labellers produces 450 machines each year, both

rotary and linear, for the beverage, wine & spirits, food & dairy, but also personal & home care, pharma, chemical and pet food sectors. Today, 10,000 P.E. machines are installed worldwide and widely managed remotely thanks to continuous support and maintenance services. P.E. Labellers features a global dimension: 8 production sites distributed amidst Italy, US, Brazil and 500 employees all over the world. The company is part of the multinational group ProMach, a world leader in Packaging.













COLORJET can: print on two sides, optimise production time, fast drying thanks to UV technology. Print on many materials such as: polystyrene, wood, plastic, glossy cardboard, treated surfaces and more.





For the 2023 edition of Interpack TOPJET S.P.A. will confirm its presence

or the 2023 edition of Interpack, the international trade fair for packaging machinery and products, Topjet S.p.A. will confirm its presence given the strategic importance of this event.

The main goal of the company is to establish its position worldwide in the packaging field.

The development of new technologies, ideal for different types of application, makes the company a reliable partner as well as an expert consultant to guide customers towards the best possible choice for their printing needs (both in the field of marking and decoration), having the possibility to range from compact solutions such as HR 500, HR 350 and JP4C to more complex technologies with multiple functionalities such as ARIETE, SLATJET, MARCAPALLETS and COLORJET.

This year Topiet S.p.A. is bringing the COLORJET digital printer to its stand.

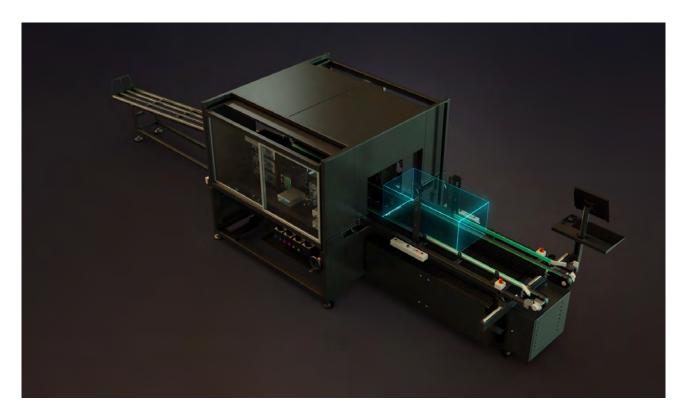
COLORJET presents the possibility of printing on both sides of the product and at the same time adapting to the most varied types of packaging, thus presenting itself as a high-performance machine that also manages to contain the costs associated with the use of inks.

Thanks to this double-sided printing capability, the machine is able to optimise production time, and with its UV technology it can print on polystyrene, wood, plastic, glossy cardboard, treated surfaces and others.

To ensure a user-friendly machine, the human-machine interaction (HMI) is optimised through an industrial PC that allows the management of files, images and logos in various formats (bmp, jpg, png, tif), as well as the insertion of barcodes,

date and time stamps and the possibility of consecutive repetition of the message with monochrome colour or with the use of CMYK with the addition of white (both for marking and decoration). The us of white ink, which represents a digital innovation in this respect, makes it possible, if required, to place prints on coloured backgrounds or as a base to heighten and emphasize the overlying colour.

Filippo Romani, Sales Export Manager of Topjet S.p.A. will be present at the fair and he affirms: "At last we can return to one of the events that we consider to be of major importance worldwide. We expect that the fair will host many visitors and with them great opportunities to consolidate our presence within the packaging market with the aim of increasing our global awareness. We will bring a very versatile and user-friendly technology that will be active and visitors will have the opportunity to touch the finished, freshly



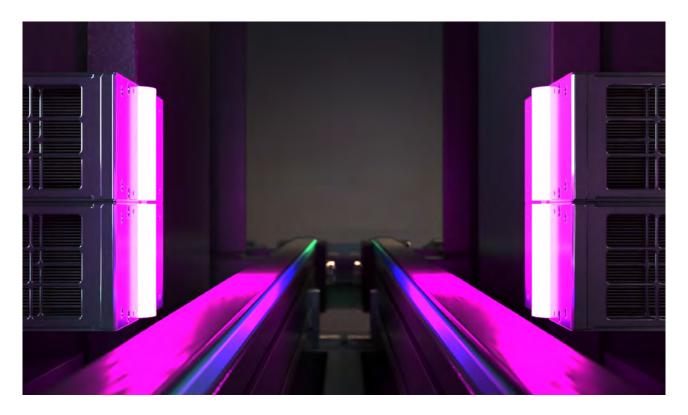


printed product by checking the performance of the system directly on our stand.

Thanks to the support of one of our specialised technicians, who will operate the machine for the duration of the fair, we will be able to print on different types of materials, also to perform demonstrations and give technical answers to all kinds of needs for all those who will visit us.



www.topjet.it







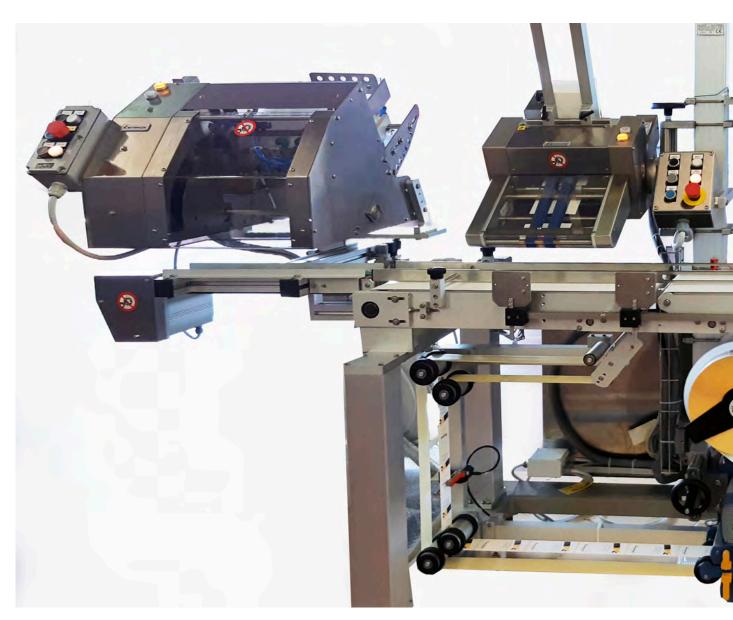
ETIPACK. Whizzy and Clippy the win-win integration for food packaging line

andling and feeding are two key processes for inline food products packaging. Very widespread are in fact, food products packed in trays or pouches often accompanied by informational or promotional inserts that complement the packaging. Coupons, bulletins, leaflets, heat-sealed sachets for seasonings, and small

gadgets are indeed very common additions included in a vast number of packages to meet multiple consumer communication needs

When it comes to food packaging, Etipack offers a wide range of sturdy and reliable Feeder and Pick & Place machines capable of enduring the highest processing rates. Prominent among the top lines, are the Whizzy and Clippy Denester models, which, thanks to their flexibility and configuration options, can meet a broad set of production requirements.

Whizzy is a machine for dispensing (friction singularization) and in-line distribution of flat and thin products that are precisely positioned in a defined







space. Top of the range in the feeder family in terms of performance, accessories and possible formats, it is perfect for the integration into high-speed, high-precision production lines. Among its many formats, Whizzy can accommodate, for example, coupons, coupons, bulletins, instruction sheets, pre-folded brochures, envelopes, promotional, folded, cards,













and envelopes up to 3 mm thick, or 8 mm thick with special configuration. It offers numerous configurations for horizontal or vertical processing, as well as the ability to handle formats of various sizes. It also features advanced management of data exchange with the machine and the line.

Clippy Denester is a de-stacker, i.e., a pick-and-place manipulator, for de-stacking thermoformed plastic trays and lids. By the use of suction cups, it picks up stacked products from a load-

ing magazine, and distributes them horizontally down the packaging line. It is equipped with a double loading magazine - to distribute 2 trays side by side and, thus, increase production speed -, as well as a programming keypad to set speed and control functions.

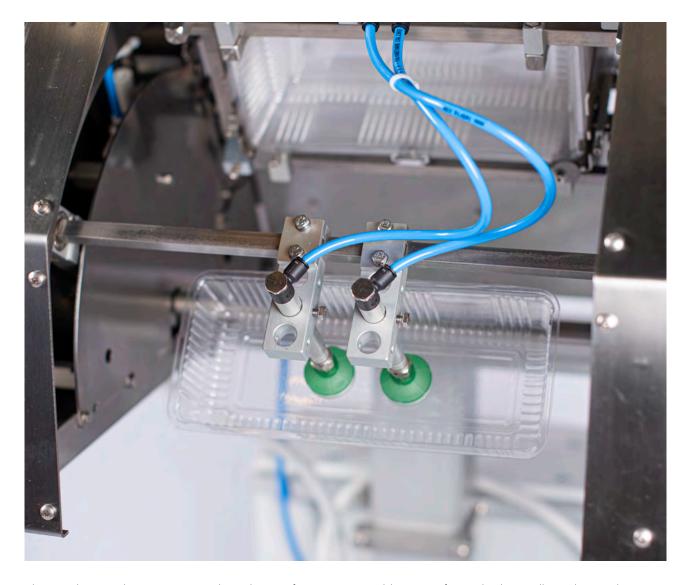
Interpack will hosts the most iconic Feeders and Pick & Place of the Etipack range

At **Hall 8B booth C49**, a solution representing the many possible configurations specifically dedicated to

food trays packaging will be available at Interpack. The setup includes at the infeed, a Clippy Denester pickand-place de-stacker with double loading storage that allows, through the use of suction cups, to collect and distribute trays horizontally on the packaging line.

Afterwards, the package is conveyed to a Whizzy automatic friction feeder, complete with a loading storage unit, which dispenses flat and thin products complementary to the packaging,





placing them with accuracy inside the tray. To complete the solution, a bottom labeling machine, which, as the package passes through, applies a label containing product information such as ingredient list, expiration date, batch, etc. This configuration is emblematic of the many possible integration options offered by Etipack, which, alongside standard machines, combines tailor-made solutions designed according to specific and special requirements of both production companies and, above all, packaging line manufacturers who can count on solid design capacity and consolidated experience within the food sector.

www.etipack.it



4[™]10 MAY 2023 DÜSSELDORF





VISIT US 8BC49



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LASER. Food equipment designed and manufactured with the use of innovative technologies and excellent materials

Iways attentive to technological innovations, Laser s.r.l. produces modern machinery able to best respond to the increasingly restrictive regulations in the food sector and the needs of users.

In order to comply with hygiene requirements, it is in fact necessary to

comply with precise legislative obligations for all machines that come into contact with food.

The request to avoid contamination between production batches and a quick and efficient production changeover are fundamental keys to the success of a modern food factory by reducing the plant management cost.

In the European and Italian context, Directive 2006/42/EC and Legislative Decree 17 of 27 January 2010 define that machines intended for food use must be designed and built in such a way as to avoid any risk of infection and disease. The machine





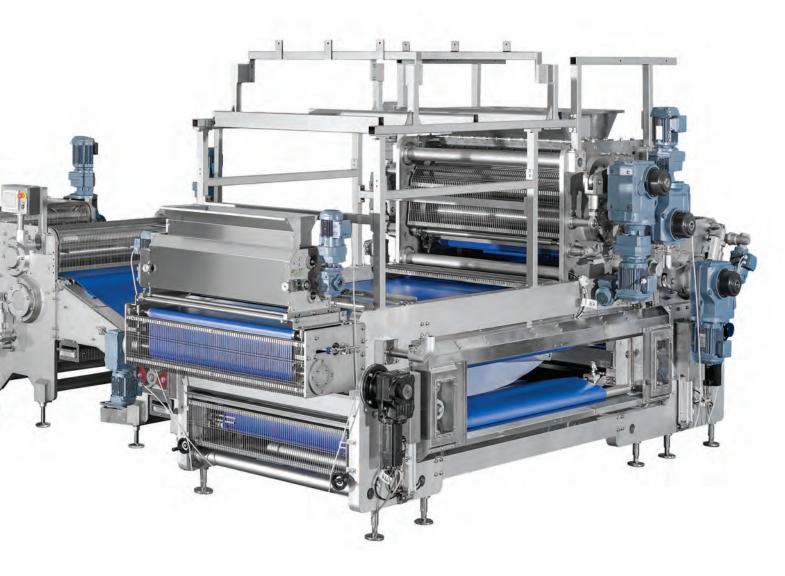
must be designed and constructed in such a way that the materials can be cleaned before each use.

In recent years, the market has particularly rewarded the most innovative company decisions that are more sensitive to the safety of the working environment, the speed of cleaning of the machinery and reduced maintenance, developing the overall efficiency of the plant and increasing its profitability for the customer.

For this reason, in the systems produced by Laser s.r.l. all surfaces in contact with food products are smooth and linear, to improve sanitization

and minimize the possibility that not only food residues, but also dirt can settle. Furthermore, waste and scraps of the dough flow out of the production chain without any impediment.

In industrial line plants, made up of several modular elements, significant measures are therefore envisaged to





SPECIAL FOOD PROCE

FOOD PROCESSING MACHINES

minimize the need for cleaning between one production batch and the next, at the same time plant maintenance is reduced as fewer mechanical components are subject to wear.

The construction materials, mostly in stainless steel, plastics for food use and anodized aluminium, are assembled in accordance with good practices so that, under normal conditions of use, they do not constitute a danger to human health, breaking or deteriorating.

Also for all these reasons, a professional scheduled assistance service is guaranteed to customers of Laser s.r.l., through a constant and continuous direct professional contact, in order to minimize risks and unwanted malfunctions. A new portal dedicated to Industry 4.0 will be launched in 2023 to more efficiently manage plant documentation, registration of production batches, working recipes and scheduled maintenance.

To be among the first to use this service, Laser awaits you at Interpack – Dusseldorf.

www.laserbiscuit.com





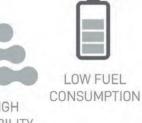




Complete and customized automatic plants for pastry, breads and biscuits



















LAWER. Automatic micro-ingredients dosing system

The ideal partner for food manufacturers

he weighing process of micro-ingredients that form part of the recipes for food products of all kinds, must guarantees precision, quality, repeatability and, above all, traceability of the operations carried out, as well as perfect hygiene and safety in handling.

Lawer supports food manufacturers with **automatic weighing systems of powder micro-ingredients**, which guarantee very high productivity, constant quality, and complete process traceability, while eliminating the "human error" factor.

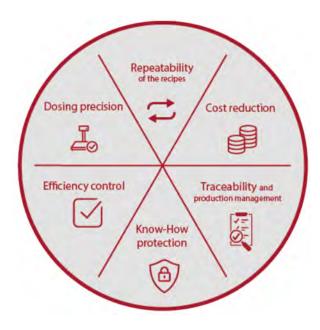
All the automatic powder dosing systems offered by Lawer can grant:

- Highest quality of the finished product
- Highest weighing precision

- Replicability of the recipes
- Right balance of raw materials
- Production management, efficiency and cost reduction
- Complete confidentiality of knowhow
- Optimisation of production, less production time

Lawer can supply different models of Automatic dosing systems, with Mono – Double or multi scales technology, with different level of accuracy (1gr – 0.1 gr or 0.01 gr) and different capacity of powders' storage (from 50 It up to 1800 It. capacity each hopper).

For **medium-large productions** that need to weigh large quantities of product or many products for the same recipe, we propose the **SUPERSINCRO** weighing system.













For **small-medium productions**, the solution is **UNICA**; this system has been designed and patented to organize production in an innovative way, by automatically weighing the powder ingredient components of recipes and batches in different processes of the food preparation industry.

SUPERSINCRO is **totally customizable** according to the different products used, which can be stored in fixed and interchangeable silos, hoppers, and big-bags.

The system includes a station for the automatic generation of bags of variable size (from 9 to 36 L).

The control software guarantees effective cross-checks and traceability on all the operations carried out by the system, generating at the same time sophisticated reports, and allowing bidirectional integration with external systems (MES), as required by Industry 4.0.

UNICA TWIN consists of a number of independent storage silos in stainless steel, to store different ingredients. Each silo is equipped with dosing screw (Lawer patented) which allows fast and accurate dosing; an efficient suction-filtering device guarantees maximum safety and a clean working area. The

system is managed by a touch screen computer on the main control panel.

UNICA HD is equipped with stainless steel silos with a capacity of 50 I, and it can be configured with 8-16 or 24 silos. The products are dosed through stainless steel screws into buckets placed on the weighing trolley, which has an electronic scale, with 30kg capacity and a resolution of 1 gr.

The management software allows to collect information about the operation reports and statistics and it can be interfaced with external systems.

www.lawer.com



PELLACINI - The future-proof, food-tech industry

t all started with the aim of enhancing and preserving all the flavour of tomatoes, one of the symbols of Made in Italy excellence and of the Parma area. From then on, it was 1896, the year the company was founded, the synergy between industry and agriculture became increasingly consolidated, and Pellacini Engineering, a company specialized in the design and construction of fruit

and tomato processing plants, became the protagonist of various innovations, through the creation of numerous industrial patents, and the expansion of its commercial prospects abroad.

Pellacini Engineering has experienced all the stages of growth in the food processing sector, and, thanks to its experience gained in the international field, is now able to respond to a market that is increasingly attentive to productivity, safety and environmental sustainability.

What are your peculiarities and operating philosophy?

Our peculiarity is that of being able to transfer into the present the great wealth of knowledge acquired over a century of work, and that of adopting a production methodology in line with the needs of economy and technical effectiveness demanded by the current





Transforming food in a smart, sustainable way. Talking about it is engineer Francesco Pellacini, owner of Pellacini Engineering.

market. Indeed, our production philosophy is based on an innovative methodology: the **Tailoring System**. We design solutions based on the specific needs of the customer, and, free from our own production constraints, choose the most suitable workshops for each project, managing the tailored production process, and directly controlling each phase to guarantee the best quality to price ratio.

In a global context in which it is increasingly difficult to stand out, how have you achieved it? It is well-known that the Pellacini brand is a strength ...

Our story began with a first workshop in 1896, entirely dedicated to tomato processing, helped by our location in the Parma area. In 1925, we registered our first patent: the "Reviati System Mixer" was the first prototype of the current continuous pasteurizer. Among our firsts was that of having been among the very few in Italy to experiment with an aseptic filling system

in pre-sterilized bags, respecting strict international standards.

The Pellacini brand is known all over the world. On the market for several generations, it has created a network of customers, in both **strategic countries and markets where it has presented itself as a first mover**. This diversification has ensured territorial coverage and an excellent brand reputation. Interest and trust have always grown, and customers associate Pellacini with a highly competitive quality to price ratio. Today more than ever, with the affirma-





FOOD PROCESSING MACHINES

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tion of the principles of sustainability and energy efficiency, a space is opening up for the evolution of production processes that particularly concern the food sector. And it is precisely in this direction that Pellacini is directing its R&D, as evidenced by some already consolidated projects that aim to optimize resources, in terms of both energy and raw materials, for example, by creating plants aimed at **recovering up to 95% of production waste**.

What commercial strategy and goal does Pellacini Engineering have? What are the results of the Pellacini Engineering – Co.Mark collaboration?

Pellacini's commercial strategy has

always been based on its excellent reputation, acquired and consolidated over 125 years of history. The good references of previous customers have made it possible to acquire new ones, while relations with returning customers have been consolidated by a prompt and efficient after-sales assistance and spare parts service.

That said, competition, **new technologies and the new production**

model have made it necessary to take action to generate more contacts and, above all, ensure continuity. On this basis, a fruitful collaboration came into being with Co.Mark, a consultancy company specialized in internationalization, with the aim of constant growth and an organic coverage of the markets in which Pellacini Engineering operates.

www.pellacini.com







Next, the new generation of checkweighers: ultimate savings and better sustainability

n the food and beverage industry the checkweigher has become an essential part of the **end-of-line inspection and control systems** as it dynamically measures the real weight of the 100% daily production, rejects non-compliant products (over- or underweight) and avoids missing items or components.

This means that all market legal requirements can be fulfilled, especially the strictest ones set by the Retail Food industry as to **HACCP batch** traceability, weight accuracy and quality control.

And when it comes to unpackaged food, a checkweigher helps avoid overfilling. The immediate feedback



of its software indeed allows real-time filler monitoring and adjustment which translates into a



TECHNOLOGY -

significant reduction of product giveaway and impressive money saving. On the other hand there's no risk of commercializing underweight products which can harm the producer's

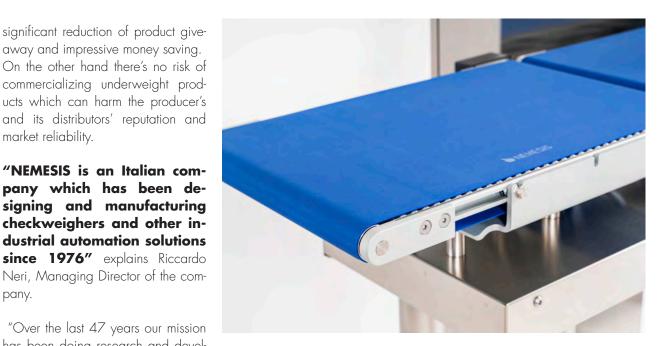
market reliability.

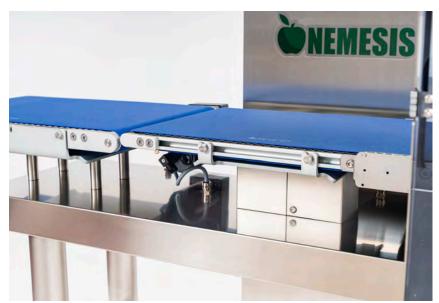
"NEMESIS is an Italian company which has been designing and manufacturing checkweighers and other industrial automation solutions since 1976" explains Riccardo Neri, Managing Director of the company.

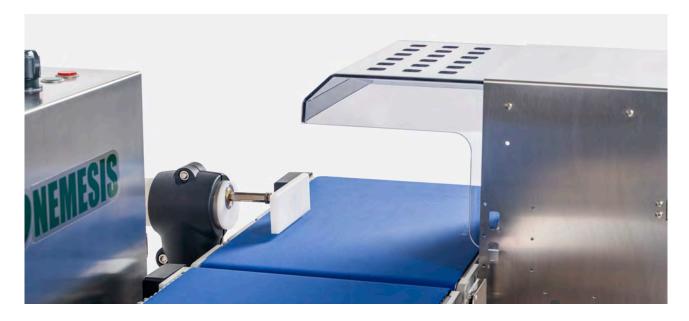
"Over the last 47 years our mission has been doing research and developing innovative systems in the dynamic weighing field.

EasyWeigh® is the state-of-theart technology of our checkweighers that, thanks to its algorithm, allows us to weigh every new product format, without the need of any calibration or learning procedures, no matter its shape or orientation in the line"

In its constant search for improvement this year NEMESIS is launching "NEXT", the new generation of checkweighers, which has reached the challenging goal of weighing,









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with MID-certified results, products from 5g up, with 0.2g accuracy and conveyor belt speed up to 100 m/min.

"We know by experience that for a food or beverage producer **a 0.2g overfill in every single package is worth many thousands Euro every year**, that's why we strived to get the MID certification to guarantee our customers such a scale interval even on a conveyor belt running 66% faster than the market standards.

An outstanding result for our industry" continues Riccardo Neri.

"And we couldn't develop a new generation of machines disregarding the **sustainability** issue.

That's why NEXT checkweighers feature a slimmer, modular and more compact chassis, to avoid an unnecessary volume of steel without compromising on sturdiness and stability and leaving a smaller footprint on the environment in all phases of its lifetime: from production to handling, from shipment to final disposal.

Even the use of plastic in its design has been minimized nearly to zero."

In a retail market which becomes more demanding and challenging year after year, the industry must rely on solution providers offering cutting-edge machinery to stay competitive on the market and keep its business profitable and sustainable at the same time.

And NEMESIS is definitely one of these providers. $\widehat{\ensuremath{\underline{m}}}$

Visit: www.nemesis.it







I-41122 Modena (Italy) info@nemesis.it



POPPING MACHINE RP-EVO

Re Pietro's Innovation for the production of cereal cakes and no-fried snacks

OPPING MACHINE RP-EVO is the press of the latest generation manufactured by Re Pietro Srl to produce both cereal cakes and no-fried snacks, products that following a worldwide trend are having a constantly increase in demand.

With this new press, the highly innovative attitude of Re Pietro Srl is setting new standards in cereal cakes and snacks production, by offering one solution that will revolutionise and simplify the manufacturing of these products. In fact, once the mould has been chosen and installed, the POPPING MACHINE RP-EVO transforms the cereals and/or the micropellets into fragrant cakes or crunchy snacks.

Its efficiency and flexibility allow to have a wider range of products, using one press only.

Nowadays these products not only are appreciated as healthy alternatives to conventional bread, but they are also valued for their versatility by professionals and consumers: they are perfect as carbs supply during meals, as crunchy snacks for a quick bite or as fancy decorations to dishes and desserts.

By using the new POPPING MA-CHINE RP-EVO you can maintain the taste and freshness of the raw material used whether it is rice or legumes, corn or cereal mix or even various types of microspellets, so that you can offer to your customers a tasty and healthy product with a wide choice of flavours and shapes.

You may wonder how many moulds and which shapes can allow you to produce both cakes and snacks with our new press. Round big and small, round with ridges, triangular or



square, hexagonal and rectangular just to name a few. But we can also produce customised moulds based on the customers' requests.

POPPING MACHINE RP-EVO FOCUS ON

It has a nickel coated steel structure, certified food contact material, a stainless-steel electric panel with a side rotating and swivelling touch screen control panel, set at eye's level for easier use.

The POPPING MACHINE RP-EVO is equipped with a hydraulic system that produces the high pressure needed for the expansion of the cereals or micropellet turning them into fragrant cakes or crispy snacks.

The volumetric dosing is carried out by a pneumatically operated feeding plate.



SNACKS OR PUFFED CEREALS? LET'S MAKE THEM ALL.



One single machine for different products!

With the new popping machine RP-EVO you can finally make puffed cereals cakes or no-fried snacks with one single machine. Choose the shape and you are done. Are you ready for the change?

New RP-EVO. Join the (r)EVOlution.

4 TO 10 MAY 2023 interpack PROCESSING & PACKAGING

WE LOOK FORWARD TO WELCOMING YOU AT INTERPACK 2023! HALL 1 - BOOTH C33



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The moulds which shape the popped cakes and snacks are made by hardened steel coated with titanium nitride, to guarantee solidity and a long-lasting life, and to prevent the sticking of the products on the moulds.

The moulds, as well as all the parts that get in touch with the products, comply with the MOCA specification for food processing machines as per Reg. No.1935/2004 CE (MOCA compliance). The upper and lower moulds are heated by cartridge heaters sepa-

rately controlled by thermoregulators. Each press has got its own PLC (Siemens S7-1200) and 7" control panel. From the HMI it is possible to set up each production phase, to save the recipes and check any malfunctioning thanks to its efficient diagnostic system.

POPPING MACHINE RP-EVO is

another milestone in the production of Re Pietro Srl, where the manufacturing of food processing machines and plants has always been approached with an eye to innovation and development, relying on 90 years of solid experience.

In fact, the Company, surrounded by paddy fields in the southern outskirts of Milan, celebrate this year the 90th anniversary of the great intuition of its founder Mr Carlo Re, who saw the potential of rice and its processing. Without forgetting the incredible added value of the Made in Italy quality.



www.repietro.com







SILVESTRI Industrial mixers for two generations

Silvestri offers excellent quality of both machinery and services for customers' full satisfaction



or two generations Silvestri Srl has been producing industrial mixers installed in leader companies in the bakery production sector all over the world.

Study, design and machinery production are carried out in-house in such a way as to have full control of the products from many points of view: mechanics, electronics and software programming.

Silvestri offers excellent quality of both machinery and services for customers' full satisfaction; each order is carried out thoroughly from the start right to final start-up. Thanks to our long-lasting experience in mechanical manufacturing,





FOOD PROCESSING MACHINES







we achieved a big know-how of our machines, which are very reliable and well-finished.

Buying a Silvestri's mixer means not only to choose the best technical functioning but also to get a complete and reliable after-sales service. It means also to find staff with expertise and precious knowhow regarding the food industry's products.

HSM Horizontal Mixer

High-speed horizontal mixers are suitable for doughs of cookies, stuffed cookies, crackers, cakes, shortbread and hard biscuits and generally for baked goods, and in addition for high-capacity production.

Bowl tilting can be performed up to 170° by hydraulic cylinders, while for double tilting (forward and backward)

a mechanical device with toothed gear is provided. The bowl tilting can be stopped in any position to allow hand addition of other ingredients and to check the dough outcome. The dough mixing is performed by a rotating mixing arm, without shaft, specially designed to guarantee quick and uniform dispersion of the ingredients during the mixing.

Our mixers can be completely customized according to the customer's requests, both from what the software functioning regards as for the ingredient feeding and the unloading of the dough.

VKS Vertical Mixer

Vertical mixers are suitable for producing highly uniform dough. The mixing is performed by vertical shafts with horizontal winding arms specially designed to guarantee quick and uniform dispersion of the ingredients as well as a soft and effective mixing.

On the occasion of Interpack 2023 we will present an innovation of our HSM mixer, provided with dismountable seals of the rotating shafts. This option guaranties the possibility to substitute them from outside without disassembling the mechanical parts of the machine, saving time and resources.

Silvestri manufactures and sells industrial mixers installed worldwide in the bakery production lines of main industries, both big corporations of the food processing and smaller facilities producing specific baked goods, from South America to Middle and Far East going through Europe and Africa.

www.impastatricisilvestri.it











Each dough has its own story







Silvestri S.r.l

Via Caduti sul Lavoro, 15 - 35014 Fontaniva Z.I. - Padova - Italy +39 049 9450515

info@silvestri-srl.it www.impastatricisilvestri.it





PLEASE VISIT US AT: HALL 3 / D66

Tarnos electromagnetic technology in vertical packaging processes

he features of the new generation TARNOS electromagnetic vibrators, which are being manufactured at its facilities in Madrid for more than 60 years, have given a strong boost to their applications in the Food Industry.

Compact vibrators up to 60 kg prepared for heavier tray weights, greater amplitudes that translate into more speed, greater capacities, or the ability to dose "complicated" products.

The specifications and finishes meet the most demanding hygiene standards in the sector; designs without edges, protection against dust and water IP-66, stainless components, FDA paint... The tray designs solve accessory problems to the dosage of the product; beveled outlets to feed at 90 degrees, screening of fines prior to packaging, circular peripheral outlet for distribution in a multi-head radial weighers....

Materials in contact with the product; smooth stainless steel blasted, corrugated, mirror polished, etc., also improve the efficiency of the system.

The instantaneous regulation units present variants depending on the needs of the installation, double speed, manual regulation or by means of a signal, IP finishes depending on the insulation of the regulator to include or not in the general control panel, etc.

TARNOS

The application that displays this post; feeder for dosing to packaging machine with product collection area from elevator, is gaining positions among the most used equipment in the sector, sharing space with the first-class packaging machines due to its levels of production and precision that require uniform feeding to the weigher.

These systems are also used to load the elevators prior to the weighers, feeding and sometimes even sieving the product before elevating for weighing.

www.tarnos.com







60 years of good vibrations

Electromagnectic Linear vibrators

Standard vibrators or customized vibrating dosers

- ✓ Competitive prices
- ✓ Own manufacturing
- ✓ Inmediate delivery
- ✓ Request your 3D and sample machine.

Syntron



Standard electromagnetic vibrators

Vibrating equipment for light industry



Customized vibrating channels

We can help you with a complete vibrating system for automation processes



Food Industry Pet food



Chemical products



Plastic Glass



Packaging

FEATURES AND TECHNICAL SPECIFICATIONS

- ✓ High frequency and low amplitude for product care.
- Uniform and precise dosing with instant flow rate variation, start-stop.
- ✓ Hygienic design.
- Zero maintenance and great durability.
- Manual or remote adjustment through electronic circuit or controller; various models with different characteristics.
- Standard or customized dosing channels with the possibility of including sieves, special
- ✓ Water and dust protection IP-66 according to food industry standard, all possible components in stainless steel and FDA paint.
- Possible ATEX execution for almost all range of vibrators.
- ✓ Electromagnetic compatibility and CE certificates.
- UL/CSA certification upon request.

USES AND APLICATIONS

- ✓ Standard vibrators as strategic components of dosers, weighers, optical sorters, counters.
- Feeding and dosing to elevators, belts, weighers, freezing tunnels, cutters, sorters.
- Feeding and transport of solids in packaging and canning processes.
- ✓ Feeding and dosing of the spread product.
- ✓ Removal of impurities and saftety check.
- Product clasification by size.
- Spread and distribute toppings uniformly
- Load big bags and boxes.
- Controlled dosing for counting, orientanting, packaging machines, transfer or pieces between belts.
- Orientation, separation, transport and PICK UP line, inspection.



ITECA® SpA, Special Fully Automatic Technological Bakery Plants



TECA® S.p.A is an Italian manufacturer, leader in the production of fully automatic bakery plants for over 30 years.

ITECA® has chosen to invest in research, human resources and fieldwork expertise.

These choices have led to a constant growth at both technical and manufacturing levels, and today ITECA® designs and assembles the most advanced tailored-made plants for bakery products, based on specific demands of each client, both in Italy and abroad.

ITECA® know-how allows to offer to its customers big and fully automatic systems from silos to the packed finished product, also through the collaboration with different partners of specific experience.

The entire process is based upon customer requirements, in order to grant maximal results in terms of product quality and return on investment.

ITECA® reached, for some products, a production capacity never reached

by any other manufacturer and the high performances of the plants have been always recognized by all customers.

This is possible thanks to continuous training of engineering and technical staff, allowing ITECA® to be one of the leaders in cutting-edge turnkey plants for large productions for many products, such as:

BREAD such as baguettes, loaves, ciabatta and coarse bread (2,000-8,000 kg/h)

LOAF BREAD from laminated sheet, on a single chain (1.000-2.000 Kg/h)

BREAD DERIVATIVES such as taralli, sticks, stretched, rolled and pressed breadsticks, thins (250-4.000 Kg/h) SODA AND CREAM CRACKER (1.000-5.000 Kg/h)

PIZZA fresh and frozen pizza, American pizza, gluten free pizza, calzone, panpizza, focaccia and... the real Neapolitan pizza! From ball or

from lamination system. And also, Arabic bread and tortilla (500-16.000 pcs/h)

Classic, wholemeal, cereal and light RUSKS (1.000-2.500 Kg/h)

CROISSANT, mini-croissant, saccottini, strudel and leavened products with puff pastry with the possibility of choosing the degree of puffing of the product, weight, size, type of filling and two-color (23,000-100,000 pcs/h)

INDUSTRIAL PASTRY: scones, cookies brownies, muffins, plumcakes, sponge cakes (100-2,000 Kg/h) BISCUITS laminated, rotary, extruded, wire cut and cast (3.000-5.000 Kg/h)

ITALIAN TYPICAL PASTRY PROD-UCTS: pandoro, panettone, colomba cakes (1.000-8.000 pcs/h).

The R&D department is also developing new projects and innovative recipes based on the evolution of market demands worldwide.













ITECA IMPIANTI TECNOLOGICI ALIMENTARI SPECIALI SPA

Via Legnago, 45-47 37050 Palù - VR - Italy - **www.itecaspa.com**

FOOD PROCESSING MACHINES

COMPONENTS OF ITECA® LINES

ITECA® lines are complete and fully equipped with the best components such as industrial ovens, proofing chambers, air-conditioned chambers, conveyors, depanners, picking systems, special applications such as boilers or steam pasteuriser, scoring machines, vacuum tunnels for cooling of panettone and pandoro, automatic oilers, flouring dusters and seeds/grain dispensers.

ITECA® INDUSTRIAL LINES ARE TAILORED TO THE NEEDS OF EACH CUSTOMER AND CAN REALIZE A LARGE VARIETY OF PRODUCTS.

OBJECTIVE: HYGIENE AND SANITATION DURING ALL PRODUCTION PHASES

ITECA® pays close attention to the cleanability and sanitation of its equipment and all lines are built with a view





to maintain high standards in terms of hygiene and cleanliness. Where possible, the different components are easily removable and disassembled. Specific procedures are provided to customers to facilitate all operations.

ENVIRONMENT AND SUSTENIBILITY

ITECA® team is constantly engaged in designing tailor-made solutions with a view to sustainability by cutting CO2 and harmful substances emissions.

This results also in lower energy consumption and in sensitive minimization of operation costs.

ITECA® looks forward to welcoming you at Interpack exhibition, in Düsseldorf from 04 to 10 May 2023, at the Düsseldorf Exhibition Centre Hall 3, at stand n. D57

www.itecaspa.com





SPECIAL

Protecting Food and Beverage Processing Technologies

ood industry is one of the most active and innovative, not only because new foods are coming on our tables, but also because automation is a must for any companies processing food and beverage (F&B)

Despite traditional foods are produced following centenary-old recipes, mass production requires automated machines which must be up to the hilt in terms of speed, performance and low energy consumption. There's no alternative to stay on the market.

At Interpack, in Dusseldorf, more than 150 exhibitors will show their

brand-new technologies for processing F&B. Each of them has spent time and resources in R&D to properly design machine and plants that respond to the needs of F&B companies.

Sometime the innovation brought by a company can be so trivial as genial (the Egg of Columbus), sometimes the innovation is not trivial, but it can be so evident and easy to be implemented by competitors. As a result, a company that has spent much time in finding a solution to a technical problem, to provide improvements and respond to the market needs, can see its solution copied soon after the exposition.



Antonio Di Bernardo

How can these innovative companies secure themselves and their investments? The answer is simple: by registering patents.









Patents are very effective solutions to keep technologies safe because they allow to protect a general technical idea that can be deployed in different ways.

The more the invention is disruptive, the more will be the scope of protection of the patent which is not limited to the exact wording of the claims (defining the protection conferred by the patent) but is extended to all equivalent solutions.

Patents allow protecting both machines and methods, this means that companies can get protection over both the physical device and the processes implemented by the machines.

This is very important because by protecting the processes, the patent owner can get a somehow broader protection, e.g. over particular actions or steps independently from the technical elements used to make them.

Patentable methods are also the software algorithms that are used to control machine operations, e.g. software that process acquisition data to decide on F&B quality in order to change control parameters of the machine. Software is more and more pervasive and important in F&B processing, and the huge amount of data available has made artificial Intelligence (AI) a reality adopted to control performance of food processing machines.

Al allows taking decisions that are often too difficult to be taken by hu-

man minds and is therefore used to solve optimization problems involving several parameters. In this field of technology, Al is typically used for dosing ingredients, saving energy, or controlling parameters to optimize F&B processing.

Also, if Al is often based on well-known classes of algorithms (e.g. Support Vector Machines, Neural Networks or Genetic Algorithms) the particular application, feature selection or training adopted, can make the solution patentable.

www.thinx.expert





66 CLOSING THE CHAPTER ON FOOD PACKAGING AS AN ENVIRONMENTAL PROBLEM

According to Legambiente's Beach Litter dossier (2019), at the top of the top 10 most commonly found wastes on Italian beaches are plastic and polystyrene pieces,

which are the "precursors" to microplastics.

n particular, beverage caps and lids (one per meter of beach), followed by cigarette butts, cotton swabs (7.4% of the total found), plastic bottles (45 every 100 meters), and plastic utensils (34 every 100 meters). This observation on waste and its dispersion highlights how single-use plastic for food products and related consumption practices represent a real and significant obstacle to environmental preservation.

Obviously, the problem is not limited to a single nation, so the recent European directive on single-use plastics addresses those wastes that are now among the most common on European territories. In fact, the (EU) 2019/904 directive on reducing the impact of certain plastic products on the environment introduces new measures and specific requirements to reduce the impact that food packaging continues to have on waste dispersed in the environment. For example, beverage bottles and their caps are among the most common and polluting: caps can easily detach from their containers or be lost due to consumer distraction.

For this reason, attention to packaging design remains high in the world of the food industry.

An event not to be missed, albeit now imminent, is Interpack: the fair held in Düsseldorf every 3 years, which brings together all the major players in the packaging industry. Exhibitors from around the world who operate in the Machinery, Equipment, Materials, and Services for Packaging & Packaging industry and supply various industries, including of course the food industry, will be hosted. The day before the start of this major event, the hybrid PUMA conference organized by the Netherlands Packaging Centre (NVC) will also be held at the Sheraton Düsseldorf Airport Hotel: a significant event that aims to demonstrate the commitment of all stakeholders towards proposing new solutions in order to close a chapter of history that sees food packaging as the main cause of the global waste management problem. Indeed, if we examine the evolution of food packaging, we can understand how it began in the 1800s when

by Silvia D'Alesia

the food industry acquired the ability to preserve and transport food from production to consumption, preserving its quality. From preservation techniques such as the lyophilization of Russian chemist Dirchoff (1832) to the hermetic preservation of French pastry chef Nicolas Appert (1827), packaging was studied to solve difficulties in ensuring the quality of fresh food. Therefore, the holistic approach to innovation processes along food supply chains has always focused on optimizing the distribution and sales phase.

The PUMA conference offers a vast overview of all aspects related to the world of packaging and how they are interconnected. For example, if the intention is to spread a new process operation to agricultural producers, then how to design an effective 'door-to-door' solution?

Dr. Thatcher teaches the importance of never stopping in designing while paying attention to details. For example, observing the wide and smooth mouth of a bottle, calibrating its capacity based on consumption habits, its easy use and reuse, etc. His research included the closure system, starting the life of what we know as the spring cap or the integrated Milk Protector protection system. Therefore, particular attention should be paid to the design of closure caps and their materials (from metal to plastic) that respond to the different packaging and packaged food product requirements.

The evolution of patents related to the hermetic closure system follows the evolution of different packaging solutions and their requirements (in the example of the bottle, whether to give it a cylindrical shape, a wide body, or a wide mouth, etc.).

Working together...



...to the end of packaging as an environmental issue.





The PUMA World Conference 3 May 2023

The day before interpack



Sheraton Duesseldorf Airport Hotel

Düsseldorf Germany

10 AM - 5 PM CET

Live Hybrid

Programme and registration:



PND and its new mango peelers mod. PL4M and PL8M: the novelty of 2023

Innovation, reliability, speed.

hese are only three of PND's strengths, a company that is among the most important ones in the metalworking sector in the production of machinery for fruit processing. Founded in 2000, it specializes in the design and development of advanced systems for the ready-to-eat cooked products and for the industries of canned, frozen and dehydrated products.

The internationalization of the product is a company's goal and, in fact, it operates on a global scale and is strongly present in Europe, South America, the United States, Asia, Australia and Africa. A business relating to export, which is worth 90% of the total turnover, also thanks to





TECHNOLOGY

; -

highly specialized and trained multilingual collaborators.

There are 19 machines in the catalogue that are easy to intuit, use and maintain: peeling machines, automatic and manual cutters and coring machines for the processing of different varieties of fruit, keeping their organoleptic characteristics unchanged.

PND is also committed to providing customized solutions for line completion, tailored to the needs of the customer, a vision that allows to pay attention to technological performance, perfectly customized, taking into account the needs of those who choose them.

The novelty in 2023 is the brand new mango peeler mod. PL8M achieving the production of 112 fruits/minute: it is a restyling, an optimization, of the 6-head version (36-42 fruits/min), born more than 10 years ago. Next to the new PL8M model and the yet best seller PL6M, you can also find the smallest model: the PL4M peeler, with 4 processing heads (24-28 fruits/min), also extremely performing and fast.

The machine, entirely made of stainless steel and with materials that comply with food standards, is able to peel any shape, size and, above all, any fruit ripening. An advantage that cannot be found in any other machinery on the market, a unique plus.

The mango peelers are manually loaded and very simple to use: the operator loads the fruits manually on a fruit trolley and the fruit is easily and productively peeled. For PL6M and PL4M models, one operator per load is sufficient. For the new PL8M model two people are needed, due to the large size of the machine and the high speed with which it works.

The PL8M has a production capacity of 112 fruits per minute and is one of the most requested machines. There are 160 mango peelers in the world, with a considerable demand in South America, especially in Peru.



The advantages for the PL8M model are considerable and relate to space optimization, savings in manpower and processing flexibility. The company has decided to embrace all production capacities, from the most extensive to the smallest. This is possible thanks to the collaboration of customers: listening to the consumer and paying attention to their needs and demands are the focus of activities. Relying on PND means receiving personalised assistance. As a matter of fact, customer care is quick and effective and covers every latitude. All consumable spare parts and routine maintenance components are always available in a short time.

The company has managed to win the trust of both industry technicians and customers, who recognize in its machinery irreplaceable partners, which adapt to every need. You can visit the website www.pndsrl.it to take a look at the catalogue of available lines, as well as to discover the fair events in which the company will participate. For more information you can write to info@pndsrl.it





SACMI Packaging & Chocolate at Interpack 2023:

Everything for Chocolate and Packaging for Everything

ustainability, performance, new technologies: that's what SACMI Packaging & Chocolate is bringing to Interpack 2023 (Düsseldorf, 4-10 May, Hall 4 Stand E05) with its integrated technologies for the preparation and moulding of chocolate, traditional wrapping, flowpack and secondary packaging

Chocolate processing and moulding

SACMI Packaging & Chocolate presents the HFT 518, the new five-cylinder refiner designed to guarantee optimal grinding results and fine particle sizing, even on products that differ in consistency from traditional ones and two machines from the latest version of the Nano Chocoline: the new 2-cylinder HCP 203 pre-

refiner and the 5-cylinder HFI 509 refiner, able to reproduce - on a smaller scale - a high-quality chocolate processing line.

In the chocolate molding section, Cavemil Super 860 offer outstanding productivity and modern, practical functional design, ideal for the production of solid pralines, bars and tablets, with or without ingredients, or filled with cream.

A new line that doses chocolate and compound-based semi-finished items in drop, chip, stick and chunk form makes its debut too: at Interpack, the heart of the system, the MLRG 1500 rotary dosing machine.

Chocolate packaging

Presented at the end of 2022, HTB is the new wrapping machine for

chocolate tablets and bars with an all-electronic approach that, for the very first time, replaces a purely mechanical design.

HTB combines the best wrapping quality with the highest speed on the market: up to 250 tablets per minute, without any damage to the wrapping and/or processed product.

Moreover, HTB is at the forefront of sustainability and energy recovery: it lets users retrieve energy in a circular manner, ensuring attainment and maintenance of maximum energy efficiency/optimization.

In the HY7, a "hybrid" multi-style (e.g. Top, Side & Double Twist, Bunch, Wallet & Envelope) wrapper of flat-based pralines, machine operation is







We're landing in Düsseldorf

We're the only company in the world able to provide machines and complete lines for the preparation and moulding of chocolate, wrapping systems for all types of cocoa and candy products, plus flow-wrapping and secondary packaging solutions.

Discover our 115 years' experience in the chocolate production and packaging industry.

Everything for Chocolate and Packaging for Everything



chocolate preparation & moulding



chocolate & confectionery packaging



packaging for almost everything else





SPECIAL

FOOD PROCESSING MACHINES



not based just on mechanical transmission but on high-performance, energy-efficient servo drives. Extremely user-friendly, the HY7 can achieve output rates of 700 pieces per minute and it is designed to aid the transition towards a new generation of eco-sustainable wrapping materials.

Already a big market hit thanks to its unique compactness, efficiency and versatility, JT Advance is the top-of-the-range flowpack machine for chocolate/cereal bar, snack and praline lines requiring high productivity (up to 150 meters of film, 1300 products per minute).

Simplified maintenance, easy access to the machine and extremely short changeover times streamline JT Advance operation enormously. Reel replacement can also be carried out during production, without reducing machine speed. At Interpack 2023, JT Advance will be integrated with

the Advance S-334, a next-gen secondary packaging unit, which ensures high output rates (up to 800 products per minute, 150 boxes sealed).

Moreover, the multi-function picking robot provides impressively ergonomic blank loading. With the innovative linear motor system, the box form-fill-seal stages are independent, maximizing line efficiency and versatility, especially in the case of frequent changeovers.

Packaging - other industries

A Pick & Place loading cell equipped with Fast Picker robots and an innovative vision system that allows greater inspection efficiency and product pick accuracy even for delicate or irregular bakery products.

The products are then passed to the HPS 50 horizontal flowpack wrapper, a medium-speed solution.



The new TF22 TS (Top seal), tray forming machine for produce which aims to meet the need for protective, tamper-evident packaging. TF22 Top Seal also lets manufacturers form cardboard trays for special sizes usually made of plastic.

The VPS 40, a vertical continuous packaging machine designed to deliver high-speed, flexible production for the food and non-food industries.

www.sacmi.com







Not just good. SMI solutions for the Fini Group

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

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

Not Just Good – The tradition of homemade food

FINI is the brand of fresh filled pasta, which represents all the flavours of

the Emilian tradition in the kitchen, in Italy and around the world.

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

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

The **Fini Group**, also plays an important role in the canned sector, thanks to the "**Le Conserve della Nonna**" brand, an Italian company that believes in the simplicity of products and uses natural processes.

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

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

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

The company's production is in fact, based on the concept of seasonality, as is the case for any artisan preparation.

Just by looking at the finished product, be it a jar of jam or a bottle of tomato sauce, you get the feeling of... home!

An irresistible appeal of healthy and simple lunches, the result of great attention and dedication, and the desire to eat in company, like our grandmothers wanted, because the more people sat at the table, the more happiness hovered in the air.

















Fini's commitment to the environment

For years, the Fini Group has pursued the objective of environmental sustainability of its activities through the aegis of its corporate mission, "Not Just Good", which focuses on food and its goodness, as a result of a safe and controlled production process. The entire supply chain is involved in the "mission", from the careful selection of local raw materials. to the production and use of widely recyclable packaging, without forgetting the use of clean energy thanks to the photovoltaic systems installed in the company, which make it possible to drastically reduce CO2 emissions and optimise production.

SMI has also embraced the goal of sustainability, designing packaging systems such as the **CSK ERGON series** packaging machine installed in the Fini Group's Modenese plant, which boasts cutting-edge technical solutions in the field of energy saving and respect for the environment.

Le Conserve della Nonna

The secret of all the products lies in the genuineness of the raw materials, which are selected and worked through transformation processes that reflect traditional methods, to offer a product "like home-made", which speaks of nature and flavours of the past. "Le Conserve della Nonna" is the first Italian company to make preserves in transparent glass jars, just as they did in the past, to keep their

characteristics unaltered, guaranteeing the correct conservation and external visibility.

SMI solutions for "Le Conserve della Nonna"

To optimise the secondary packaging process of the huge variety of "Le Conserve della Nonna" brand products, the Fini Group turned to SMI for the installation of an auto-

matic shrinkwrapper from the CSK ER-GON series, which stands out for its advanced automation and flexibility of use, low energy consumption and respect for the environment.

The CSK 50T ERGON packaging machine, installed at the Ravarino plant, packs different types of bottles and glass jars in multiple pack formats in film only, pad + film and tray + film.







The range of models of the CSK series of SMI shrinkwrappers includes single and twin lane models, with a compact and ergonomic design, which contain the best of the industry technology for packaging in shrink film at the maximum speed of 50 + 50 packs / minute (depending on the size of the container and the pack format).

CSK 50T ERGON SHRINKWRAPPER Main advantages:

- very flexible production and packaging process, which allows you to quickly and easily switch from one format to another to maintain high levels of plant operating efficiency
- packaging machine equipped with a motorised system of oscillating guides at the machine infeed, which facilitates the correct channeling of loose containers on

- a conveyor belt equipped with chains in thermoplastic with a low coefficient of friction
- grouping of bulk containers in the desired format carried out continuously by means of electronically synchronized separation pegs and bars
- pad cardboard magazine placed under the infeed belt, from where the cardboard blanks are picked up, by means of an alternating motion picker, positioned at the start of the cardboard ramp, consisting of a group of suction cups with vacuum suction system
- curvilinear cardboard ramp in the initial and final section, to facilitate the insertion of the pad under the grouping of products at the outfeed of the electronic separator
- compact design film cutting unit, where the blade is managed by a "direct-drive" brushless motor

- which makes the cutting operation more precise and simplifies maintenance
- new ICOS motors, equipped with integrated digital servo-drive (driver), able to simplify the wiring of the machine and ensure greater energy efficiency, less noise and reduced wear of components;
- shrink tunnel equipped with optional metal chain and lubrication able to ensure better splicing of the film under the pack
- optional automatic format change adjustment system
- the machine is also equipped with a series of optional devices to ensure the high quality of the final pack, such as the product stabiliser and the additional 1150 mm belt, placed at the outfeed of the tunnel for rapid pack cooling.

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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 36,800 bottles/hour.











ZACMI - Global customer base demands global support

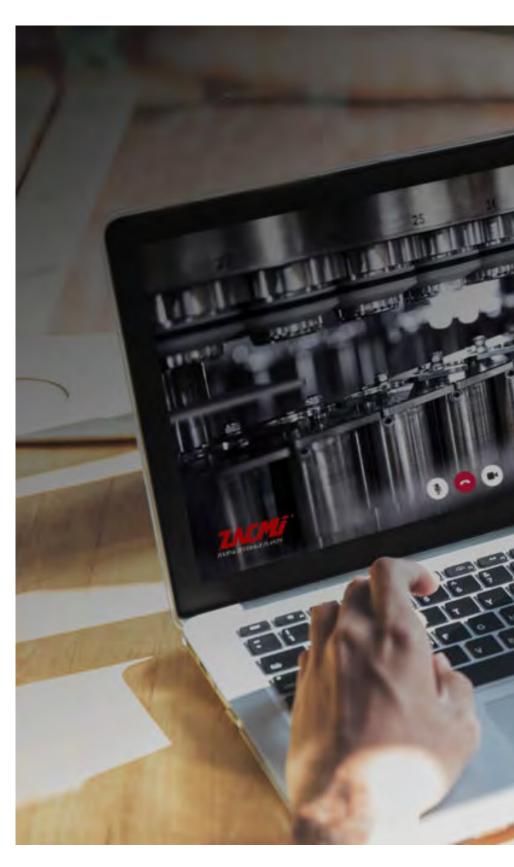
n modern industrial operations, it is rare to find a company that has earnt a reputation based solely on the quality of the products or machines it manufactures. These days, an equally important element of any company's market standing is the level and quality of pre- and post-sales support it can offer.

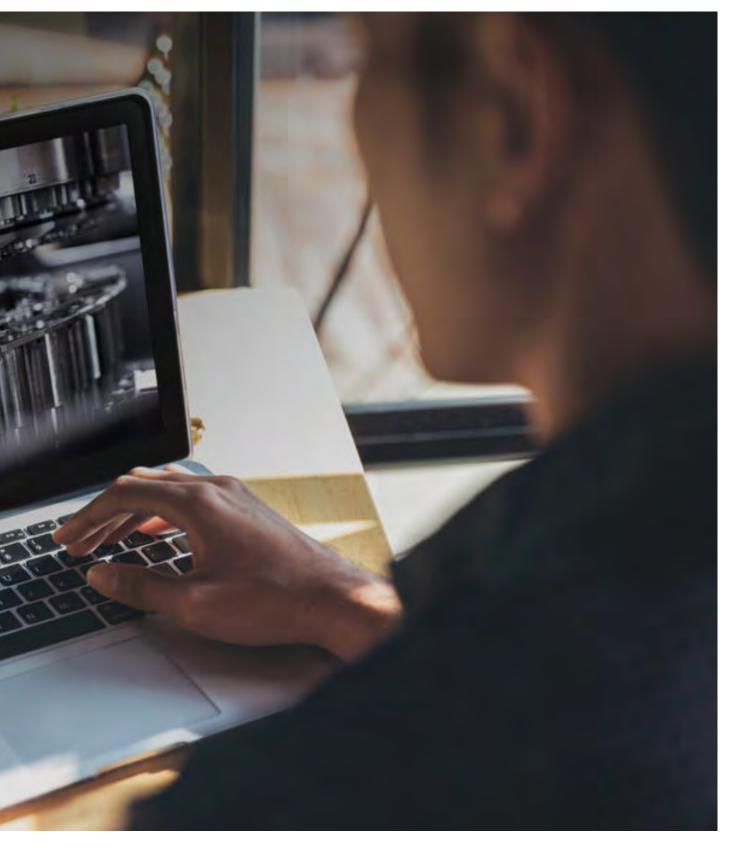
Much like consumers who have experienced easy and pleasant purchase-and-support experiences from high street stores or online retailers, industrial end users are looking for suppliers who can act as full-solution providers, as opposed to just hardware vendors.

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

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

One such company is Parma, Italy-based Zacmi, a designer, fabricator and installer of tailor-made filling, seaming and processing lines for the international food and beverage industry. The company supplies high-









end equipment to leading multi-national companies in many countries and, as such, has grown a rapid-reaction support network to make sure it can operate as quickly as possible and as locally as possible to its installed machine base

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

Zacmi offers support in nine other core markets too, comprising either technician access or remote interactions; and the global team is backed by Zacmi's own support team in Parma, which comprises five engineers and 10 technicians who can travel to where local on-site support is not available or additional support is required. In addition to technical assistance, the support team can also help with installation, training spares and upgrades.

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

The programme also offers Augmented Reality (AR) capabilities – using an app – for connection via smartphone, tablet and even smart glasses. Using this service, end users can interact virtually with Zacmi's support team in

real time or via photo and video messages. Live training sessions can also be undertaken to help increase Overall Equipment Effectiveness (OEE).

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

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









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USA



AIR MOTORS: integration within capping machines in the food industry

Iso in the Food Industry, Air Motors are excellent solutions, exploiting the use of compressed air, that can be used as integrable components on machinery or to hand tools, and can be therefore effective in numerous applications.

Their use in the Food Sector is, in fact, really heterogeneous, being incorporated into machinery to stir substances or liquids, to mix, to drive clipping machines in meat processing or to cap recipients.

The Case Study described by Mr. Nicola Pellizzari, Fiam Group's



Product Manager for Air Motors, and related to a company in the Food Industry producing synthetic casings, refers to this specific function.

In fact, the above-mentioned synthetic casings, used to cover cured meats, have to be kept in appropriate jars, immersed in a 25 % saltwater solution for their perfect/proper preservation.

vation. The customer was looking for an effective technology that could eliminate the manual work of closing the lids of plastic jars in the production line, thus optimizing production operations even at this stage.

For this purpose, Fiam has designed and produced a customized air motor to be combined with a capping





Air motors

for industrial applications on the food sector.





Compact and lightweight



Safe



Heat resistant



Suitables for sterilizing



Easy to control



Low maintenance



Rugged



Start and stop without overheating



Water resistant

- Meat shaver
- Meat trimmer
- Meat slicer
- Fish deboning
- Plucking machine
- Dehiding machine

- Dairy equipment
- Bottling, capping and filling
- Coating and wrapping
- Clipping
- Sausage processing
- And more...









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head, with the function of rotating it to tighten the plastic lid of casing iars.

The capping is done by taking advantage of the stall torque of the air motor.

Considering the highly humid and corrosive environment, the customer discarded from the beginning the idea of installing an electric motor, to avoid short circuits that would be created due to the presence of a high percentage of humidity, and secondly, to avoid corrosive phenomena resulting from the presence of water and salt in the solution contained inside the jars containers.

The application involved an air motor made with an outer casing of plastic material of the type of POM C Ertacetal, a material that gives high







mechanical strength as well as excellent dimensional stability. In addition, stainless steel AISI316 has been used for the output shaft in order to definitively avert the risk of corrosive phenomena.

From this Case Study we can see the main advantages of an Air Motor for Food machinery, an industry characterized by high humidity and with strict cleaning and sterilization requirements, for which Motors have all the necessary features:

- IP67 degree of protection that prevents water/steam/dust from entering the motor and damaging it
- Safe and reliable operation even at high temperatures
- High corrosion resistance due to galvanic treatments that make them highly resistant to aggressive agents

- Fabrication with high-quality stainless steel according to ISO standards
- Gears lubricated with food-grade lubricant
- Cavity-free outer surfaces that prevent dust and dirt accumulation and ensure ease of cleaning and sterilization

Not only Fiam offers a wide catalog range of models in the stainless steel version with IP67 Protection and with ATEX Certification, perfect for application in the Food industry, but there are also numerous "unique" customized solutions, often designed together with the customer in co-engineering mode. A truly important aspect of distinction of Fiam and our R&D.

www.fiamgroup.com





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Go green, go second-hand: the excellence of used bottling machinery

Machines already available. In its showroom of 10.000 sq m, BBM offers a great selection of used machinery, including blow molding machines, fillers, labellers, shrinkwrappers, palletizers, and stretchwrappers

BBM is the solution to revamp your plant with reduced investment at a quality equal or superior to the new

BBM is the only company that takes care of the bottling line's entire life-cycle: from market analysis, to layout study and instal-lation. **Much more:** BBM follows the decommissioning of the old line, the disposal of equipment and takes over your used machinery!

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

BBM is a leading player in the maintenance, dismantling, installation, start-up, and conservative relocation of bottling lines for the main food & beverage companies

Our portfolio includes innovative upgrades to make the most of the machine's potential and save up to 35% in energy consumption.

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 10-20% lower than market average; BBM's team of foreign agents facilitates spare parts supply in EU and EXTRA-EU territories

Each project - being it a line installation, revamping, or format is curated in the changeover smallest details. Find us out:

info@bbmpackaging.com

ASSISTANCE & TECH SERVICE











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New Success for AKOMAG

n recent years there has been a strong growth in the market of gallon water bottles, both in Italy and worldwide.

Dispensers showed a positive trend, apart from the temporary setback caused by the Covid-19, mainly involving offices, factories, warehouses and various communities.

The success of gallon bottles, in particular those of reusable PET or PC bottles, obviously involves the need to guarantee the safety of water, and consequently the cleaning of containers and dispensers. Which must be accurately and periodically sanitized. The water used to fill the gallon bottles, which can be natural spring water or water from other sources, must comply with the quality parameters defined in Community legislation on water intended for human consumption.

Used empty gallon bottles, if still intact, can be reused. But before being inserted in a new filling cycle, they must be inspected for integrity, absence of discoloration and possible odours.

After that, they must be washed with water and specific detergents and rinsed thoroughly with special machines.

Like those built by Akomag, for example, an Italian company specialized in the design and production of machines and plants for the bottling industry.

Washing, rinsing, filling, capping The Monobloc washer for gallon bottles Sira has been designed by Akomag for washing and sterilizing PET or PC gallon bottles or other bottles of various sizes, to be filled with still water.

The washing cycle adapts to the various production needs of the end customer and is very effective. For this machine Akomag has designed and produced a special spraying and brushing device for gallon bottles that ensures total cleanliness.

Through the use of special mobile nozzles furniture (penetrating and rotating), the machine washes the bottle internally at high pressure (5 bar). While the outside is brushed by means of nylon brushes.

The machine can be quickly adapted to the different bottle formats by simply setting the type of container to be handled on the control keyboard.

The stainless steel control board installed next to the monobloc is easily accessible for the operator.

The panel is equipped with a touch-







screen for the complete management of all line functions, and the display of operating parameters and alarms.

SIRA

The Monobloc features an automatic de-capper in stainless steel: a pneu-

matic system grips the bottle neck while ejecting the cap.

AOMAG

The system is safe, but it can be equipped with a system for the selection and ejection of gallon bottles that have not been properly de-cap-ped.

The bottles are then filled by means of special inverter-controlled pumps.

A valve designed by Akomag guarantees a laminar flow and no contact between the valve and the bottle.

The filling is carried out by means of a special metering device that ensures extreme filling accuracy.

The capper consists of soundproof vibrating hopper, a descent channel, and a tear-off pick-up head.

The closure of the bottle is guaranteed by an inclined pressure belt characterized with adjustable pressure.

All adjustments are automatic and managed from the control panel.

www.akomag.com



SPECIAL

OMAS TECNOSISTEMI: manufacturing of filling systems



he enquiries of packaging machineries for syrups, liquid integrators and powders for the Food & Nutraceutical sectors increased a lot in the last year.

In addition to the Single Pitch Indexing Monobloc and continuous motion Monobloc and to the Filling & Capping Line for single-doses, bottles, jars and instable containers, the company received orders for installation for preparing and mixing, such as dissolvers and turbo-emulsifier in different sizes and versions.

The new design and the high quality finishing are the most appreciated aspects and they make easier the maintenance and the cleaning operations; touch screen panels to handle the receipts and also all the operations

to handle the machine, the possibility to be ready for the 4.0 industry and personalization to improve the performances and the users' needs.

Flexicap is the OMAS solution for both aluminum and plastic capsules for liquids, soluble and coffee products, which aroused a lot of interest and appreciation among the Italian and International users.

It is available in different models from a minimum of two lanes up to 120 capsules, to a maximum of eight lanes up to 450 capsules per minute according to the format and to the product to fill.

The flexibility of all the system makes extremely simple and fast all the changeover operations and/or product to handle.

All the components are completely inspectionable from all the sides.

Thanks to the long experience in designing and construction of the machines, we can customize and satisfy every single request to improve all the customers' needs.

Omas Tecnosistemi Spa is on the national and international market through a wide network of distribu-

We will be showing the last solutions at INTERPACK 2023, Düsseldorf.

HALL 16 BOOTH C71





OMAS TECNOSISTEMI SPA

Via Edison, 39 • 20023 Cerro Maggiore ITALY Tel. +39 0331422767 • Fax. +39 0331 421896 info@omastecnosistemi.it



















tors and agents and in continuous collaboration with the central sales office of the company.

The company also focuses on the internal training of the technical staff but also of the Sales & Service according to the Normative & the Market requests.

The company, in order to achieve the targets established is also increasing the working Staff and new machineries are introduced such as the machine for lapping and three new automatic vertical warehouses interfaced with the ERP.

New works are in progress for the realization of the new production site that will be completed in 2024.

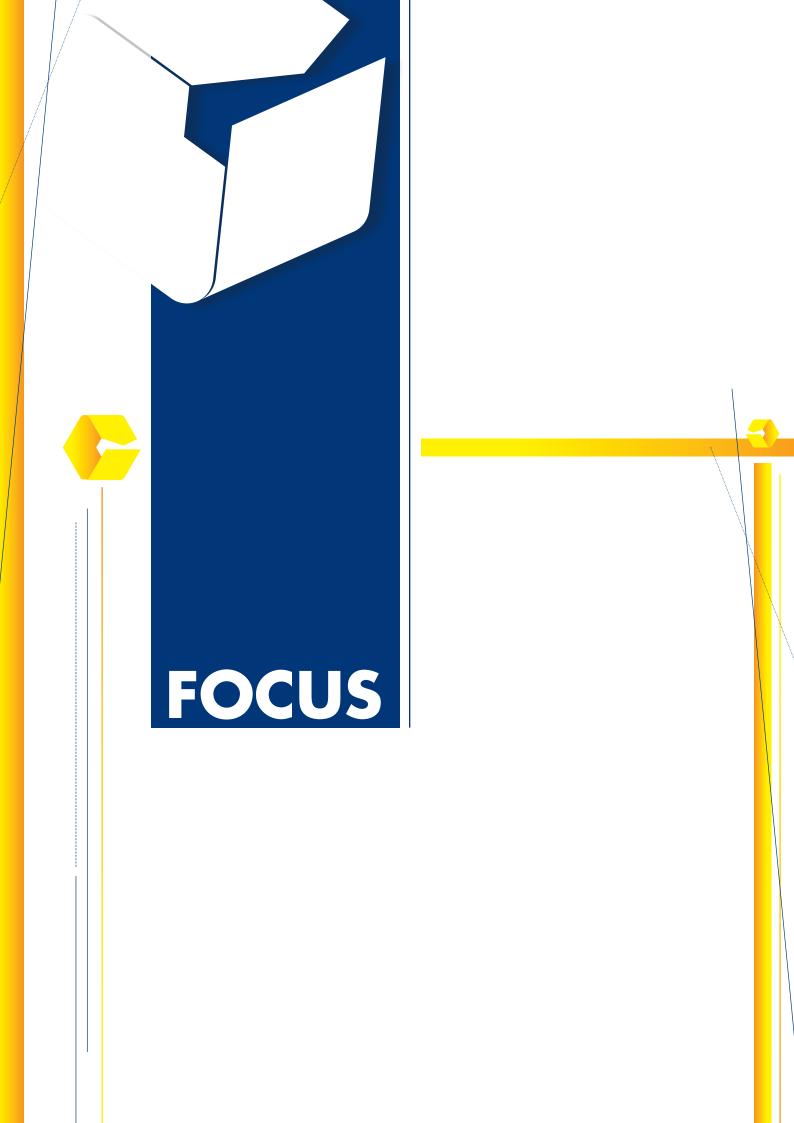
A warehouse unit storage, a mechanical machining and a carpentry are also in working progress.

An environment with high technology 4.0 efficiency and environmental sustainability, the environmental and the working spaces will be better handled in order to dedicate the actual site exclusively to the mounting of the machineries.











DIZIOINOXA: production lines, equipment and tanks for industry

IZIOINOXA Srl established more than 30 years ago is today an excellence in the engineering, manufacturing and installation worldwide of high technological plant for the Food & Beverage industry:

- Complete processing rooms in stainless steel, for the storage, blending, and transferring under asepectic conditions for the fruit juice processing. Aseptic conditions with steam (SIP) or chemical (CIP) method, tank capacity from 5m³ to 5.000 m³.
- **Syrup rooms.** Fully automated electronic control of the receipt, ingredients intake, blending, transferring and bottling. Complete traceability of ingredients, processing and final products.
- Atmospheric stainless steel storage tanks, with jacket and insulation, mixers and the complete accessories. Storage, cooling, blending, and preparation to the final transfer. Features on request: double jacket, internal cooling plates, full or partial thermal insulation, classic mixers with mechanical seals or magnetic transmission mixers.
- CIP (cleaning-in-place) mobile unit. Automated, semi-automated, mobile (on chariot) or fixed (on skid). Electronic control and full traceability of the cleaning process and, if requested, of the subsequent sterilization or nitrogen blanketing. The mobile unit if fully automated, the operator is required only for the hose connection.
- SIP (sterilization-in-place) mobile unit. Fully automated SIP process with continuous steam and subsequent nitrogen blanketing (up to















tank cap. 1.500m³. Equipped with: anti-implosion safety feature and cycle log book.

 Degasifier, heat exchanger for heating or cooling. Shell and tube, tube-in-tube or simple tube.

DIZIOINOXA, strong of its 50 years of manufacturing experience,

has gained a prestigious place as preferred partner of worldwide clients.

Our signature: the total quality management ranging from the design stage to the material selection, till the commission and start-up side by side with our clients.

We are present in Italy and the whole Europe, as well as Israel, Tunisie, South Africa and the Far East. And today, for the US market we can supply 3-A Sanitary Standards Inc. certified storage tanks.

DIZIOINOXA operates in an organized and controlled manner in accordance with the company's certified international standards (ISO 9001, ISO 14001, OHSAS 18001, EN 1090 and EN 3834) and guarantees that all stages of communication with the Customer, from order acceptance to delivery, comply with the procedures of this system. The entire company structure is therefore voted to be the partner of excellence for its customers.

Words from our CEO Renzo Coletti "the whole company is devoted to deliver value added solutions able to increment the competitiveness of all our clients".

www.dizioinoxa.net





ASEPTIC SYRUP ROOMS

BLENDING • STORAGE • TRANSFERRING • CIP









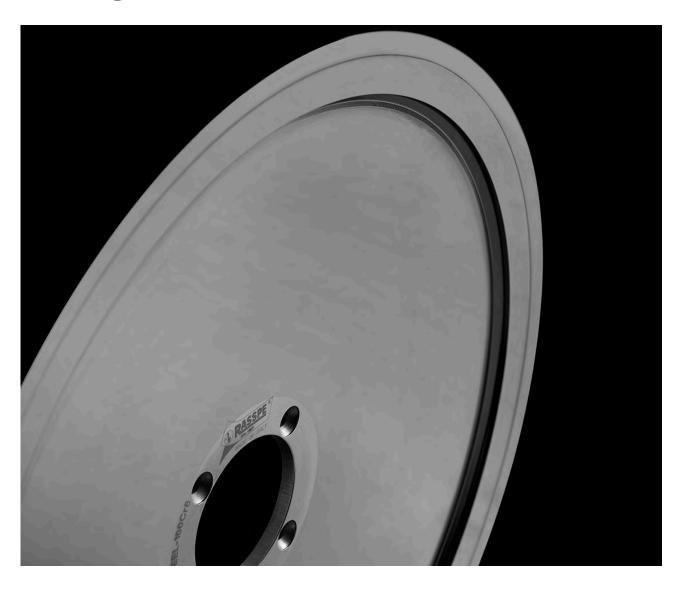
3-A Sanitary Standards





RASSPE BY CHIARAVALLI GROUP: tradition meets innovation

RASSPE Blades the most ancient brand of blades for slicing machines was established in 1827



ASSPE Blades is a unique symbol of history and innovation: the most ancient brand of blades for slicing machines was established in 1827 and shines nowadays within the innovative environment of CHIARAVALLI Group.

Today, in fact, RASSPE Blades are a 100% Made in Italy excellence prod-

uct that joins 30 years of craftsmanship know-how with the productive strength of a multisectoral Group.

Starting from the design of each model, passing through the study of the numerous phases of production, up to their development and application, everything is based on the passion for a unique product. Each step is the outcome of years of experience and constant innovation dedicated to refining each detail that pours into unmatched quality blades for slicing machines.

What makes RASSPE a leading player in its sector is not just quality: thanks to the latest productive machines, more than 30 000 blades are monthly pro-







duced in the group plants to grant the supply of a vast warehouse to support all customers in such a complex macro-economic context.

Serving worldwide customers, RASSPE Blades perfectly embodies the idea of a group with an Italian heart that deals on the global stage.

Such expertise within the food industries represents for the group a fun-

damental asset: RASSPE team will be leading the Food Division of the Group, founded to expand the range of products offered to the alimentary sector.

From tensioners and open transmission components to electric motors CHIARAVALLI Group manages various products that are at the foundation of the food industry machines and that thanks to RASSPE expertise

represent a tangible opportunity for growth for all the group.

Founded on past success, fueled by the actual challenges, and projected towards the future, CHIARAVAL-LI Group has in RASSPE one of the gems that shines and will shine even more, just like one of its stunning blades.

www.chiaravalli.com







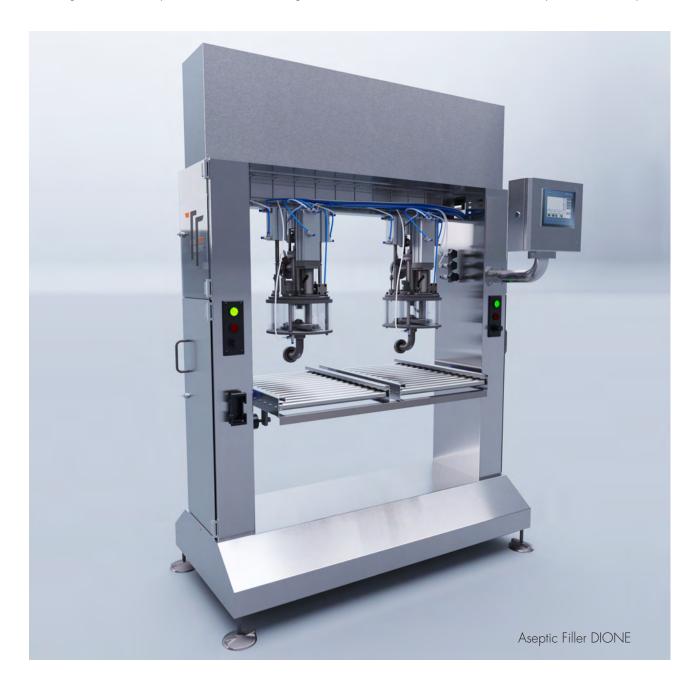
Tropical Food Machinery Cutting-edge technology, research and professional ethics serving the clients' needs

ropical Food Machinery is an international company with two headquarters in Italy and Brazil, leading in the global field of fruit processing machinery.

Founded in the late 1970s by a pioneering Italian entrepreneur, the

company currently boasts an operating branch in the Brazilian state of Minas Gerais, two-fruit processing plants in the country's north, as well as liaison offices in India, Costa Rica, and across the Asia-Pacific and West Africa regions.

Thanks to its decades-long knowhow, Tropical Food Machinery offers complete production plants for the industrial process of tropical, deciduous fruit or tomato, producing finished products like natural juices, concentrated juices, nectars, purée,



TECHNOLOGY -

fruit in syrup, chopped tomato pulps, sauces, and jams.

Every production plant is designed and built in-house, the designs satisfy a wide range of multipurpose technological solutions, starting from very low-capacity systems such as mobile small-size plants up to large-scale plants.

The projects include the use of aseptic filling, a technology that guarantees a shelf-stable product at room temperature (without the need for a cold chain) and is confirmed as an economical and tested solution for several types

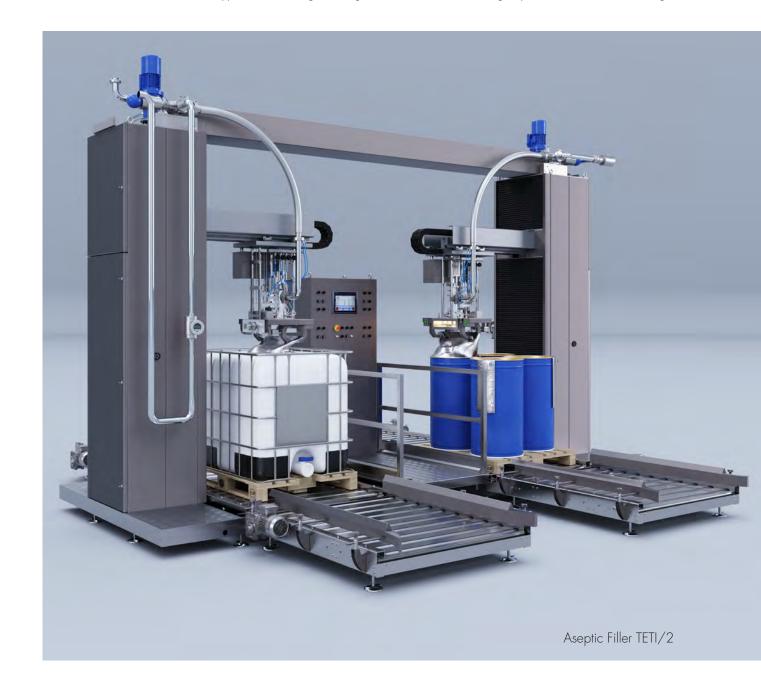
TROPICALFOOD

of products. These highly specialized systems enable the product processing cycle to be traced, guaranteeing compliance with the highest quality and safety parameters.

Tropical Food Machinery offers a range of complete aseptic filling units that vary depending on the customer's marketing and logistics needs.

The Dione filling machine has been developed for filling bags with capacities ranging from 3 to 20L, making it ideal for small plants with limited production capacity seeking high-tech and qualitative processing.

The other filling units support higher production capacities and are designed for filling drums with 220L bags up to bins with 1000L bags.







The Calipso aseptic filler is developed for filling drums for medium-large sized plants and can be supplied with a single or double filling head.

The Teti/2 double-head aseptic filler guarantees a filling capacity of up to 12,000 l/h and is ideal for the aseptic filling of concentrated juice, whole pulp, tomato puree in drums or curing bins ranging from 5 to 1,000L.

All Tropical Food Machinery filling machines are fully equipped with cutting-edge instruments for the automatic management of aseptic filling cycles and product quality control.



www.tropicalfood.net









STERILIZE YOUR PRODUCT... INCREASE THE SHELF LIFE

bag in drums or bins ranging from 5 to 1.000 l.

Ideal for the filling treatment of whole pulp, concentrated juice





ICF & WELKO: colours and fragrances for everyday life



or thousands of years, man has been dedicating himself to the preparation of food, not only to satisfy the taste and the sense of smell, but also to provide a certain aesthetic pleasure to those who receive it.

All food has always been combined with spices and other organic substances to change its taste, smell and appearance.

But not only that, colours and flavours are also used to create perfumes for the body or to make the use of otherwise anonymous substances or products more pleasant.

Colours and flavours in powder form have always been necessary in both the private and industrial circle for the preparation of foods, fragrances



Guarantee a production process without contamination that could compromise the quality of flavors or smells.



and other chemical and non-chemical products that present themselves to our sensory organs. It is therefore essential for companies to be able to produce these substances in full compliance with the natural features that are intrinsic in the ingredients used, with the aim of giving pleasure to end users.

It is also essential, especially in this sector, to be able to guarantee a production process where there is no contamination that could compromise the quality of flavours or smells.

In the market of Flavours and Colours for the food and chemical industry, I.C.F. & Welko S.p.A. has reached a high level of proven experience over the years and for this reason has been chosen as a partner also by important international companies with production sites in various parts of the world.

Our technological knowledge of the sector enables us to offer our customers both small plants for the production of powders of various flavours or colours in small batches, and large plants for the production of large pro-

duction batches. All this is done in full compliance with international environmental and safety standards, and fully meeting the expectations of each individual customer.

In this industrial circle, too, customer's satisfaction and trust are always our first target.

www.icf-welko.it









CIRCULAR ECONOMY: industry and environment in co-existence

"Pastazzo" promotion for an eco-friendly business

rom the very first steps in ORI-ON Engineering company, we decided that one of the most important points to be focused on in our projects would have been the eco-sustainability of the processes in which our plants are involved. Today, as then, we pursue this philosophy to pass on to future generations a world that places man at the centre of an ethical and eco-sustainable business.

The first achievements, obtained from these analyses, highlighted the opportunity to undertake a path to further enhance a by-product linked to the citrus fruit chain: the "pastazzo"!

The study we have been carrying out for some time is allowing us to re-engineer its enhancement. The combination of technologies and ancient traditions permit to reuse these production wastes as new raw material. The analysis opens new business opportunities for the protagonists of the supply chain, focusing on reducing industrial production costs and at the same time allowing the surrounding environment to be preserved.

The citrus fruit pulp, as known, is a by-product of the food processing industry consisting of lemons and oranges waste subjected to the extraction of juice and essential oils. From a chemical-physical point of view, the "pastazzo" is made up of residues of peels ($60 \div 75\%$), pulp ($30 \div 35\%$) and seeds (on average $0 \div 9\%$ depending on the quality of oranges and lemons undergoing transformation).

Depending on the type of citrus fruit and processing, the production of fresh "pastazzo" varies from 49% to 69% by weight of the fruit subject to the transformation process. Sometimes the "pastazzo" also contains process water absorbed during the production phases.

As a pure indication, we can highlight the different processing products and by-products from the transformation of 10 tons of citrus fruits from which to obtain:

4.930 [kg] of products derived from the 1° transformation

- 4.200 [kg] First pressing juice;
- 700 [kg] Second pressing juice;
- 30 [kg] essential oil;

5000 [kg] of fresh zest "Pastazzo"

- 265 [kg] Peels for the extraction of Pectin;
- o 315 [kg] Peel for zootechnical use;





From the very first steps in ORION Engineering company, we decided that one of the most important point to be focused on in our projects would have been the eco-sustainability of the processes in which our plants are involved.

Today, as then, we pursue this philosophy to pass on to future generations a world that places man at the center of an ethical and eco-sustainable business.







www.orion-eng.ii info@orion-eng.if

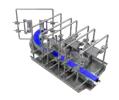
























FOOD MACHINERY | TECHNICAL ADVISE |

RECYCLING SYSTEMS

for agri-food chain

ORION ENGINEERING S.R.L.

Via La Bionda, 6 (Quartiere Industriale La Bionda) 43036 Fidenza (PR) Italy | Phone: +39 370 371 1521



By integrating sustainability and compliance with EHEDG standards into each solution.

SPECIAL



• 9330 [l] di Liquid residues

- 125 [kg] of Bio-Alcohol;
- 9205 [I] of residues with C.O.D. equal to 18.500 mg/l for Biogas production;

The citrus fruit pulp can be used in different ways, some of the best known concerning the organic fertilization of the land, the use in animal husbandry and the extraction of pectin: a thickening polysaccharide naturally present in fruit and widely used in the production of jams.

Our mission as ORION Engineering company is to make the reuse of this resource usable, through our technology under development, to give the opportunity not only to large industrial processing plants but to many others.

The synergy of our growers and all the players involved in this supply chain is one of the keys of success of the process. Our country, with the notification to the European Commission of 13 February 2019, highlights the need for and importance of the use of this resource, asking for the regulation for production, marketing and use of "pastazzo" as a by-product of citrus processing for its agricultural and zootechnical use.

The various scientific research which are studying and proposing the use of "pastazzo" as an alternative for human nutrition provide further value to our recovery project. The idea is to partially replace food fats such as palm oil (used in various baked goods' preparation) with a dried fiber extracted from all the residues of citrus fruits.

From the grinding and drying of the fiber, some flour is obtained that has the characteristics of dietary fiber and great water absorption power, for a "sponge effect" that would allow this

flour to at least partially replace the dietary fats present in snacks and other bakery products.

Do not hesitate to contact us to receive further information on the technology under investigation and for its application in plants of medium production capacity.

www.orion-eng.it









Mixed Flavours

GLOBAL PARTNER FOR FOOD INDUSTRY

The most delicious flavours come from an appropriate processing of raw materials. ICF & Welko is a worldwide supplier providing complete, turnkey and tailor-made plants for the food industry. Thanks to our specific know how on every process, we provide best performance automation solutions for the processing of food products such as milk, dairy products, coffee, tea, flavours and vegetable extracts.







Colussi Ermes Advanced Washing Systems the washing, sanitizing, and drying machines that make the difference in your everyday life

ompact machine design, energy consumption reduction, minimal consumption in water and detergent use, automatic cycles, loading/offloading automation, and parameter monitoring are just a few of Colussi Ermes sustainability benefits.

Global leader in the design and production of advanced washing systems for the food industry, Colussi Ermes has become specialized not only in the bakery, confectionery, fruit & vegetables, meat, dairy, poultry, and fishery sectors but also in more complex fields such as the pharmaceutical, hospital, logistics and automotive sectors.

A modern and dynamic brand, showing an exceptional capability of addressing a constantly changing market. Values such as innovation and organization guarantee competitiveness, flexibility, and quality for absolute environmental protection complying with the most recent rules in terms of hygiene and safety.

Analytical and monitoring tools, a highly skilled and trained labor force, innovative engineers and an outstanding service team allow to satisfy all customers' needs.

Colussi Ermes is a company that exports all over the world and from July 2022 it has became a division of The Middleby Food Processing, which is providing a portfolio of global brands with complementary, industry-leading technologies for food production so











DREAM-LIKE INNOVATION, REAL END-TO-END SOLUTIONS.

PAN WASHERS HIGHLIGHTS

- **Washing capacity** up to 900-1000 pans/hour.
- Possibility of washing pans of different shapes and types, of different heights and dimensions.
- Maximum hygiene and impeccable microbiological results, preserving the integrity of the pans.
- Perfect washing for immediate re-use in the production process.

At INTERPACK 2023 Colussi Ermes will propose the best pan washing solutions – stand-alone or inline, with variable capacities up to over 30 items/minute – as well as washers for chocolate moulds and units to wash and dry foldable or rigid crates. These washing systems ensure maximum hygiene, protecting consumers according to the new strict standards.

HERE'S OUR RECIPE FOR SUCCESS



MAXIMIZE SANITATION SAFER DESIGN, EASIER CLEANING



INCREASE YIELDS
RAISE PROFITABILITY



ACCELERATE PROCESSING IMPROVE THROUGHPUT



MAINTAIN CONSISTENCY HIGHER QUALITY



REDUCE COSTS
OPERATING AND CAPITAL



PRACTICE SUSTAINABILITY
OPTIMIZE ENERGY
CONSUMPTION



EXPAND CAPACITY MORE PRODUCTION











to supply the highest quality full-line solutions to the customers.

Here following you can find a brief description of some types of plants.

Chocolate Mould Washers

Colussi Ermes will propose several solutions for manual and inline Chocolate Mould Washers with variable capacities up to over 900 items/hour, various shapes and types of chocolate moulds, and different heights and sizes, without needing to change the format.

They ensure effective and accurate washing and perfect drying, for immediate re-use in the production process, preserving the integrity of the mould even after frequent cycles. The chocolate mould washing sys-

tems are completely tailor-made,

based on specific customer requirements and provide the best results in terms of hygiene, certified by constant compliance monitoring.

Spin Drying Systems

High capacities — up to 4200 crates/hour with the double-rotor spin-dryer and up to 2100 crates/hour with the single-rotor spin-dryer — speed and perfect drying result are the key features that set apart this new generation of Colussi Ermes spin-dryers along with the possibility to dry different type of crates, foldable or rigid. this machine can dry a high number of crates with a minimum footprint.

In just a few seconds the Colussi Ermes spin-dryer can achieve excellent drying with low electrical energy consumption, making this both an efficient and cost-effective solution.

Automatic centrifugal machine to wash trays and equipment placed on racks

The rack washing systems have been carefully engineered to wash racks carrying different kinds of equipment.

By means of specific frames or special trolleys, it is possible to wash pans, crates, pallets, bins, meattrucks, containers or isotainers fully respecting the highest washing and sanitizing hygiene standards.

The washing capacity is very flexible: from a minimum of 20 to a maximum of 120 racks/hour.

www.colussiermes.com











C&G DEPURAZIONE INDUSTRIALE SRL



C&G, PLANTS for the treatment of industrial wastewater

&G Depurazione Industriale Srl in 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 the 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.









Refreshing taste of technology

- WATER PURIFICATION
- SUGAR DISSOLVING
- CONCENTRATES PREPARATION
- SYRUP ROOMS
- PASTEURISING
- DOSING AND BLENDING
- PRODUCT CARBONATING
- WATER MINERALISING
- MINERAL WATER OZONISING
- CLEANING AND RINSING
- **■** PIPING & RACKING
- TURNKEY SOLUTIONS



As a skilled specialist in process equipment for **beverages production**, WS can provide a wide and complete range of **advanced processing technologies** which can be readily combined for a **complete turnkey solution**: from the water spring to the product **ready for bottling**.

watersystems.it







WATER SYSTEMS: our commitment reflects our passions



espite the name, WATER SYSTEMS is not only involved in water purification systems but is specialised in the production of complete solutions and plant designs for medium-large CSDs and juices projects as well.

All the steps involved in the production of mineral water, soft drinks and juices – from water purification, right through to syrup preparation, blending, carbonating, mixing and pasteurising and eventually including utilities supply as well for a real turnkey solution – are available from a single supplier at WATER SYSTEMS: this is clearly an important advantage allowing the bottler to save time during processing equipment design, project execution and equipment maintenance.

WATER SYSTEMS recently installed and commissioned a new turnkey solution on a greenfield project in Nigeria with one of its historical partners in the beverage business: aimed to maximize sustainability thus minimizing energy consumption and water wastage, the entire scope of supply has been oriented to fulfil these goals; by the way the syrup room – probably the most automated unit present in an African beverages factory up to now, featuring more than 120 mixproof valves and conceived to maximise the efficiency of equipment regardless of the number or level of specialisation of operators – is the most representative part of this plant.

The market of beverages is very wide due to the growing diversification in terms of quality and variety of drinks (both alcoholic and non) required by Consumers. Therefore, the producers, to answer quickly, need to process a wide range of ingredients (powder as well as liquid). In some cases, such ingredients might require a special treatment according to their features (texture, reaction, viscosity, solubility, temperature-sensitivity, flammability and so on).

The innovative design of the WATER SYSTEMS' syrup room ensures automatic ingredients and CIP fluids loading as well as the automatic outlet through clusters of mixproof, single seat and butterfly valves dedicated to syrup tanks and ingredients preparators and sources.

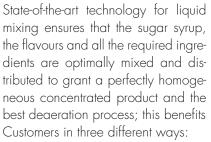
Syrup rooms provided by WATER SYSTEMS' are designed on stand-





ard modules which are customised for each specific project according to specific needs. Furthermore, the equipment always features a noncompromising technology for what concerns cleanability and hygienic aspects: CIP fluid paths are covering any part of the plant – including process water distribution lines – and the entire piping is tooled to avoid dead legs and minimize the number of weldings. In-house preassembled

modules configuration allows plug and play quick installation granting Customers an immediately available system.



- shorter mixing and deaerating time corresponding to quicker production cycles;
- optimal low-shear mixing of low and high-viscosity fluids to prevent oxygen pickup and fruit's cells damaging in case of pulpy ingredients;
- lower energy costs through unique energy-saving impellers' design.

WATER SYSTEMS' syrup rooms can be flexibly extended thanks to modularly arranged skids: the design always take into consideration future Customer's expansion plans and the maximum allowed number of bottling lines that can











be fed is four; the syrup output flow rate can be individually adjusted to suit each bottling line need.

All instruments and regulation systems dedicated to the control of individual syrup and product components are characterised by the highest precision in the processing in order to grant an accurate ingredients blending and to minimize product wasting during circuits emptying.

Using the new pulse and burst technology for valves cleaning, trials have revealed that up to 90% of CIP liquid can be saved – significantly lowering the operating costs compared to the traditional (PLC) timer-controlled seat lift; further information are available at: https://food.alfalaval.com/thinktop-rethought-burst-seat-clean

WATER SYSTEMS' syrup rooms are conceived to ensure and safeguard the perfect ingredients blending and always aim to meet the needs of all the Customers who are looking for high quality product.

For more information and to discover the range of products visit the site. $\widehat{\mathbf{m}}$

www.watersystems.it









Satinox. Knowledge, technical expertise and quality: product identity



atinox has been manufacturing perfectly welded stainless steel bowls for more than 30 years.

They are made by hands to fit the machines used to knead and mix dough for the **bakery** and **pastry** sector as well as for the **chemical** and **pharmaceutical** sector.

The company was founded in 1982 and since then it has been a strong believer in the value of manual metalwork fabrication.

All bowls are made by **expert and specialized** workers, able to manufacture **robust**, **versatile** and **long-lasting tailor-made** products.

Satinox can count on a team that works together with passion and professional expertise, uses high-quality materials and is continuously fine-tuning its metal fabrication and welding techniques.

In fact technical expertise and knowledge go hand in hand with the **quality of the materials** and the ability to turn traditional artisan metalwork fabrication into expert joining technique.

From project development to product manufacturing careful examination of any special production needs is definitely essential to find the ideal solution to optimize bowl performance, and consequently machine performance.

Strict compliance with the drawings, the painstaking attention to tolerances along with machining precision guarantee tailor-made products of any shape and size.

www.satinox.com















A choice of sustainable packaging



Bernucci is an historic company operating in the food packaging since 1946.

In accordance with the law and in compliance with quality requirements, GB Bernucci, with its business partners, provides a wide range of packaging solutions and is constantly dedicated to the research and development of innovative products made of ecofriendly materials that comply with its Mission: Food Safety, Respect for the Environment & Search for innovative packaging.

One of the most extraordinary products that GB Bernucci offers is **Slimfresh**: it is an innovative and environmentally friendly packaging solution, made of a laminated cardboard base with a food liner and coated with a top as a second invisible skin around the product. This coating offers the possibility of extending food shelf-life, ensuring freshness and time lasting.

Recycling and sustainability are the guidelines of this new eco-friendly packaging: with a simple gesture you can remove the paper from the film ensuring an efficient recycling. **Slimfresh** is indeed recyclable with paper.

The versatility of the product and its immediate display are the strengths of his new packaging.

In addition, thanks to a completely customizable paper based with four color printing, it offers a new advertising solution and it also gives the opportunity to pack irregular shapes for better merchandising.

Paperseal® is an innovative, ecofriendly and sustainable tray that offers brands and retailers the opportunity to replace Modified Atmosphere Packaging (MAP) plastic trays and Vacuum Skin Packaging (VSP) trays with a barrier-lined paperboard alternative.

Compared to traditional trays, this new packaging allows a plastic

reduction of about 90% as the thin inner layer can be easily removed and disposed separately, ensuring an efficient recycling.

The exclusive sealing process leads to a perfectly sealed surface. The hermetically-sealed tray ensures the product remains fresh, with up to 28 days of shelf life, depending on the application.

It is possible to customize the whole surface of the tray with an offset print up to 5 colors, both internally and externally, ensuring a 360° communication that perfectly meets the requirements of each customer.

Our innovative **PaperSeal Slice®** is recommended for sliced meats and cheeses requiring modified atmosphere. Constructed from a single piece of paperboard, the tray requires no folding or gluing and does not require an additional label.

We understand that the transition to fiber-based packaging is a priority





PAPER DIVISION



Security and flexibility

- The patent of the exclusive continuous flange guarantees a perfect weld integrity.
- It does not need a mold change if compared to a traditional plastic trays.

Sustainability

- Up to 80% less plastic than traditional trays.
- It can be recycled in paper thanks to the Aticelca B certification (according to the Italian Law).
- Easy separation of the film from the tray

Full customization

Inside and outside of the tray, with a print up to 5+5 colors



Innovation

 Our paper-based packaging solutions meet functionality and performance of plastic trays.

Applications

 Refrigerated and frozen meals, with re-heating in the microwave or in a traditional oven.

Customization

• Externally customizable with offset printing up to 5+5 colors.









ECO-SUSTAINABILITY

MULTIFUNCTIONAL









for many of our customers, and it's clear that sustainable paperboard packaging solutions must meet the functionality and performance of existing tray designs.

PaperSeal® Cook is a brand new tray technology for oven and microwave-ready chilled and frozen food applications. It has been created to match the functionality and performance of existing trays.

PaperSeal Shape® is a patented paperboard food tray designed for round, deep and multi-compartment applications, PaperSeal Shape® represents the latest step in the

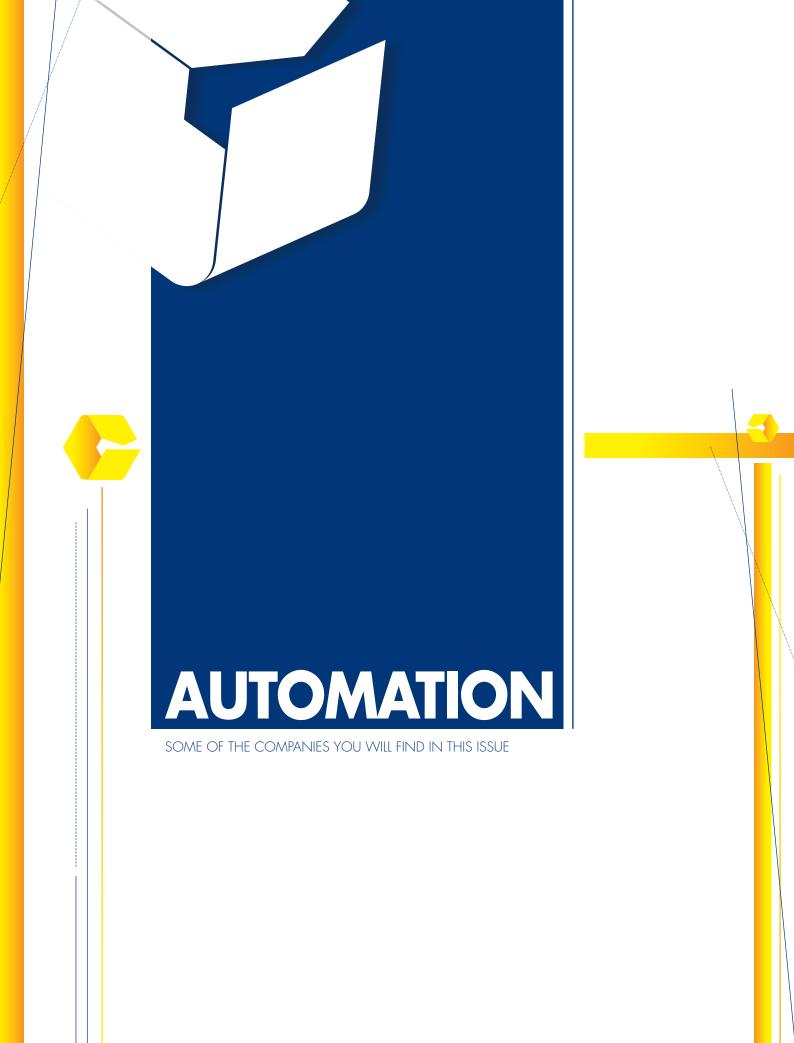
company's mission to improve access to high quality fiber-based alternatives to single-use plastic packaging.

Upon request, all our paper solutions can be produced from renewable fiber sourced from sustainably managed forests.

www.gbbernucci.com











Metal's: Made in Italy stainless steel processing for Food and Packaging Machinery



eing a single point of contact for any kind of project, even the most complex ones. This is what Metal's wants to promise its customers. Metal's is an Italian company specializing in stainless steel processing for the production of complex assemblies, semi-finished products, machine parts and components destined for various markets including catering, packaging and food processing. From mincers to meat processing machines up to homogenizers, solid separators and much more: Metal's offers an all-round service for advanced stage assemblies where components of different nature including plastic, glass and wiring can be integrated.

Inside its 22,000 sqm factory in Borgoricco, in the province of Padua (Italy), Metal's has been manufacturing complex products and assemblies for large and medium-sized international companies since 1987, providing a structured service able to cover the entire logistical process, and which includes the following: technical consultancy, design, engineering, raw material procurement, supplier coordination, lean manufacturing, assembly and final testing.

A rigorous and flexible process, suitably designed with the aim of optimizing time and maximizing production, in which all parties involved are per-

fectly coordinated in order to ensure on-time deliveries, while eliminating any waste and delays. This is the proper approach that allows Metal's to meet the needs of numerous companies operating in different sectors, also thanks to its modern and technologically advanced machinery. In addition to several automated stainless steel processing plants, Metal's also features a dedicated area for milling, welding, robotic and non-robotic surface treatment, as well as a spacious assembly area.

Metal's machines are carefully selected for their energy efficiency and extremely high performance, a choice





BEYOND STAINLESS STEEL PROCESSING

WE ARE YOUR SINGLE POINT OF CONTACT FOR THE MOST COMPLEX PROJECTS

OUR SERVICE INCLUDES **CONSULTING, DESIGN, ENGINEERING, MANUFACTURING AND LOGISTICS FLOW GOVERNANCE**. WE START FROM YOUR PROJECT TO MAKE COMPLEX ASSEMBLIES, SEMI-FINISHED PRODUCTS, MACHINE PARTS AND COMPONENTS OF THE HIGHEST QUALITY.







that fits perfectly into the company policy which is increasingly attentive both to the environment and to the safety of its workers: Metal's is ISO 9001:2015, ISO 45001:2018 and ISO 14001:2015 certified. Metal's welders are certified according to UNI EN ISO 9606-1:2017 and meet the requirements dictated by the latest standards. Welding quality is EN ISO 3834-2:2021 certified. The company's personnel are MTR-qualified according to UL508A standard.

"Here in Metal's we want to be practical by developing the potential we can offer in the sectors where stainless steel is used and bringing it to the highest level.

Our mission is looking into the future while being aware that the technolo-

gies at our disposal and our organized structure can enable us to overcome even the most complex challenges." - Enrico Scapolo, CEO Metal's SpA.

www.metals.it



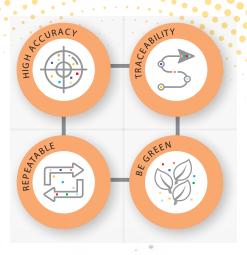




Certification ISO 9001

AUTOMATIC DOSING SYSTEM

FOR POWDERS AND LIQUIDS



100% MADE IN ITALY

We are the FIRST company to dose automatically your products







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.

ith 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.

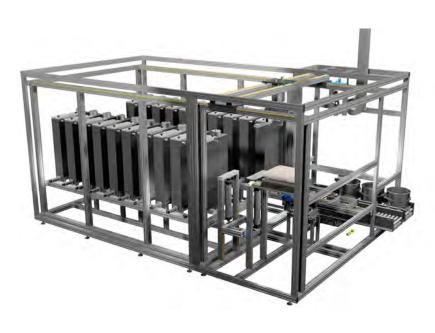
Why dosing is so important in food processing?

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 Sevice 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.colorservice.eu











www.proxaut.com

www.middprocessing.com







PROXAUT, tailor-made AGVs for unique solutions

roxaut is specialized in the design and development of automatically guided vehicles for a wide range of sectors. Since 1996, we have designed unique AGVs following the same pioneering spirit that has always characterized our work.

Headquartered in Italy between the Motor Valley and Packaging Valley, two districts renowned worldwide for their recognized for its passion for engines, mechanical expertise, Proxaut represents a reliable partner with an additional value.

Responding to the specific needs of customers offering targeted expertise which leads to tailor-made solutions is the mission of Proxaut. Caring about the aesthetics and design of the machine and the workplace and employ-

ee safety, is always a priority. Proxaut provides sales and service globally. With hundreds of installations, we support our customers with the right equipment, solutions and software systems to increase their level of automation. Further production support is available through the Middleby worldwide network of brands and representatives after its acquisition in June 2022 by the Middleby Corporation (NASDAQ: MIDD) www.middleby.com

Our AGVs offer concrete solutions to serve more than 30 different sectors (food & beverage, automotive, metal industry, paper & tissue, textile & nonwovens, glass, biomedical & pharmaceutical, packaging, aerospace, pet food, etc...).

With more than 600 AGVs designed, manufactured and delivered for indoor and outdoor

use (no ATEX), with temperatures even below 0°C., our vehicles are fully equipped with the **highest safety standards** and **EU-certified** (UL/CSA on request) and they can move easily on many different types of floors.

We meet the requirements of different markets and sectors with our laser-guided or combined driving AGV vehiches. Typically used to lift pallets, our AGVs are the ideal solution to meet customers' handling and storage needs. We make standard models with front, bilateral and trilateral forks, which can be used in even the tightest spaces (VNA). We make special models, including side-up models, with bucket or forks, AGVs with single rod, double rod, clamp, or a variety of custom designed features.

We increase productivity by automating our customers' plants











with indoor and outdoor AGV Shuttles. These vehicles are the ideal solution to replace traditional fixed transport systems, gaining in flexibility and configuration of the entire production cycle. Equipped with an adaptable and customizable loading platform and different types of covers, they connect seamlessly to production lines, robotic islands or packaging lines, allowing different types of products to be handled.



www.proxaut.com









RAYTEC VISION is leading expert in optical sorting technology for fruit and vegetables

aytec Vision is a company that specializes in the production of sorting machines for food quality. Raytec Vision sorting machines are designed to meet this challenge by providing a highly accurate and reliable sorting system. These machines use advanced imaging technology to inspect each individual product and remove any defective or contaminated items. The machines can detect defects such as foreign bod-ies, discoloration, and misshapen products, and remove them from the production line.

The food industry is highly competitive, and the demand for high-quality products is increasing. Food process-

ing companies are under immense pressure to deliver products that are of the highest quality. One of the biggest challenges faced by food processing companies is ensuring that the food products meet the required standards.

It was just following this rule that in 2019 at Cibus Tec show, Raytec Vision presented Curiosity, the very first optical sorter based on the multispectral analysis of fresh-cut products, built in full compliance with the EHEDG guidelines and following the rigid dictates of "totally hygienic design". The great advantage of Curiosity is that it can be quickly sanitized.

Each component of the machine is designed to be disassembled and cleaned by the sanitation team, without the use of tools. The most important example is about the inspection belt that carries the raw material that must be cleaned frequently and quickly to avoid generating too long stops on the production process.

The Curiosity main belt can be disassembled, cleaned and reassembled in a very short time with a considerable saving of water and without the use of chemical detergents.

To all these important features we must also add the ability to sort a wide range of food products thanks











HALL 5, BOOTH B023 DÜSSELDORF, DE



HIGHLY INNOVATIVE SOLUTIONS for food quality



ARTIFICIAL INTELLIGENCE





HYGIENIC DESIGN





FOOD INSPECTION **TECHNOLOGY**







to the Decaray, the 10-frequency multispectral technology developed by Raytec for many of its latest sorting machines.

The first company taking profit of these advantages and innovations was Dole who wanted the Model 1800 for their plant based in Soledad in the United States, to be the first salad plant to comply with the EHEDG guidelines. Regarding this collaboration, Mark Martin Director of Engineering and Maintenance at Dole said: "Having developed this type of machine was a challenge, but we have found in Raytec a partner able to understand and create a product that fully meets our needs".

Another important news by Raytec Vision is Opportunity, the brand-new optical food sorter which is going to change the rules of food sorting. The first innovative aspect of this machine is artificial intelligence (Deep Learning) based on self-learning which

ensures a 100% product quality control. Opportunity is able to perform a real-time "identikit" each product, on each side. This enables to identify even the slightest defect and presence of necrotic in any part of the food's shape.

The great advantage of artificial intelligence is that the machine is "trained" with the acquisition of many images and easily adapts to the growing needs of quality control. Thanks to the roller belt (spin belt) that makes

products rotate, and matrix cameras that capture the entire frame of the rolling product, the machine enables increased product quality, completely replacing manual sorting. Opportunity can be adapted to the selection of different types of products. With its compact design and ability to communicate with other machines, Opportunity can be easily placed within processing lines to contribute to complete production automation.

www.raytecvision.com



AN **III ATS** COMPANY









B2A: solutions, products and services to help and speed up the work

of customers

2A is a company specialising in providing solutions, products and services to optimise the productivity of companies. B2A's goals are to improve production efficiency and in-crease earnings.

B2A implements advanced Manufacturing Execution System (MES) and Warehouse Management System (WMS) technologies, suitable for all types of industries. B2A's teams of experts are always on the lookout for new technological solutions to im-prove companies' efficiency and productivity: offering a top-quality service that includes customer support at every stage of the process, from design to after-sales service.

"B-Trace" The management system that plans industrial production

B-Trace is a software for managing production, product labelling, machine configuration, productivity analysis, warehouse management and goods traceability.

B-Trace integrates all plant equipment into a single system with unlimited scalability. It's web-oriented right from the start: it allows operators in the plant to access the data of interest from any PC, Smartphone or Tablet.

The use of Microsoft software, such as WindowsServerTM and Sql-ServerTM, increases the robustness of the system and facilitates data exchange with other software, via standard protocols such as shared tables, Web Services or Json interfaces. B-Trace allows the customer to manage production processes while maximising profits and eliminating waste.



new RTLS system for warehouse supervision.

BinOculus is a warehouse supervision system that leverages RFID technology and artificial intelligence to optimize the handling and management of goods. The use of RFID techno-logy allows for the real-time identification of the goods location within the warehouse, re-ducing the time spent on control and searching by operators. The system is capable of sending missions to forklift operators and coordinating the entire team to optimize wor-kload and travel distances. Additionally, BinOculus utilizes LIDAR technology to detect the positions of forklifts and materials, providing a 3D augmented reality (AR) interface.

Robotics, mechanics and products.

B2A is the System Integration of Omron and Zebra: from us you can find all their list at fa-vourable prices. B2A develops and designs mechanical products, such as shuttles, robotic islands and catenaries. B2A develops and designs collaborative robots, anthropomorphic robots, industrial ro-

bots and self-driving robots (you can also choose Omron robots). B2A acts as a reseller for whatever you need! B2A offers a wide range of innovative solutions to improve the operational efficiency and productivity of companies, accompanying its customers at every stage of the process and guaranteeing the higher quality of service.

www.b2a.it









SPECIAL -

ROBOX - Motion Control since 1975 Innovation with global reliability

OBOX, for over 45 years, has been developing and producing axis controls, programming languages and development environments ideal for robotics and for "motion control" in general. The multiplicity of programming languages (structured text, ladder, object blocks) and the richness of the libraries make learning Robox systems easy for any willing student with the right basics of electronics and information technology provided by Italian higher education.

Robox controllers can handle any application, thanks to the variety of fieldbuses they communicate on, including Ethercat, CANopen, Profinet and Modbus. The current flagship product is the RP2: the Robox branded electronic brain with ARM technology and compatible with Phoenix Contact's Axioline I/Os.

Just like its predecessors (including the RBXM, uRMC3 and RP1), the RP2 is rapidly gaining a significant place in robotics and industrial automation, with everincreasing adoptions in various machines,



such as flowpackers, fillers, cappers and case packers. The software tools made available by RDE (the Robox development environment) allow you to manage the configuration, write the program, simulate the machine on the bench and also have a view of the system, thanks to the 3D graphic panels.

This tool allows you to model and simulate the most critical parts of the machine, take a look at their movements and debug the system.

The integration between control systems and drives has also increased significantly. In terms of hardware developments,

we mention the RID20-E drive which replaced the RID20 drive. We recall that RID20 is a drive designed (2008) to be installed directly on the motor, sharing its thermal world. RID20, 14 years after its birth, is far from obsolete. We also proceeded with a redesign - the RID20-E - to take advantage of the developments of the technique during these years.

RID20-E is therefore characterized by better yields, higher operating frequencies of the regulation loops, enriched I/Os, more powerful investigation tools, etc.

RID20-E is available in a version suitable for direct installation on the motor (shuttle configuration) and in a version suitable for being placed in the immediate vicinity of the motor (nearby configuration). Thanks to the integration with the motor, RID20-E is suitable for use in all multi-axis applications that require drastic reductions in size and wiring, such as for example applications in the "beverage", food and "packaging" sectors.

www.robox.it











Robox S.p.A., since 1975, designs and manufactures electronic controllers, programming languages and development environments for robotics and motion control systems.

Robox controls allow to deal with any application, through architectures which can be "modular", "stand alone" or even integrated within the most well-known brushless drives.

The variety of programming languages (structured text, ladder, object blocks in C++), the power of the RDE development environment and the abundance of the motion/robotics libraries make "Robox" suitable for any movement control problem.

Application fields:

- ROBOT (welding, assembly, pick & place, laser cutting, palletizing, painting, etc.)
- Machines for packaging, beverage, paper, marble, glass and wood
- AGV
- Etc.











SCANNY3D: geometric deformation control on glass bottles



canny3D has designed and developed a double laser spot rotating 3D scanner. It is a patented device, 100% "Made in Italy" that performs a 360 ° scan without contact, at high speed, at very high resolution and in a completely automatic way.

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

The device returns a high fidelity 3D model and the supplied software offers numerous functions designed spe-

cifically for the beverage, packaging and bottling sector, among which the possibility of exporting the 3D model as a "solid", thus ensuring maximum compatibility with the main CAD-CAM software.

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

One of these functions, for example, allows you to obtain and analyze all

the sections of the bottle, easily carry out all measurements, evaluate the centroids of the sections, align the 3D model based on the center of gravity or the symmetry of a section and more.

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

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

With this function, the software automatically calculates and displays the





3D laser scanning systems



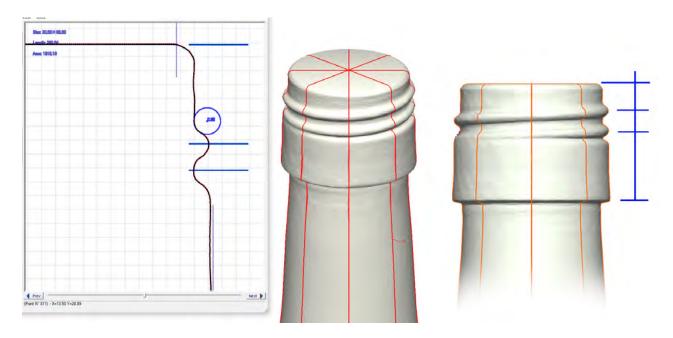
3D SCANNER

for bottling industry









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

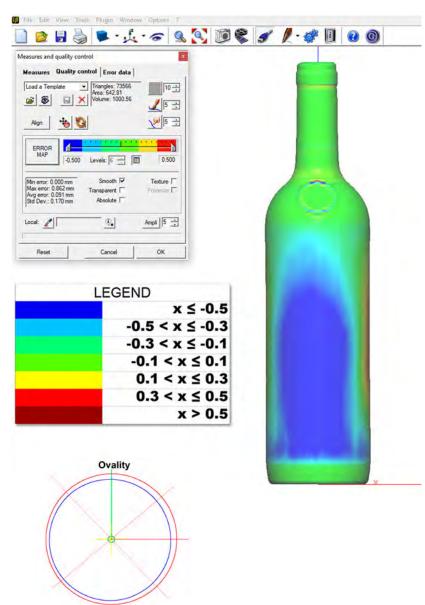
The automatic screw control of the bottleneck, among other things, is very important to ensure a perfect closure of the cap.

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

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

www.scanny3d.com









Vision inspection systems to automate quality control, support process improvement with data analytics and optimize pick & place

- Biscuits, cookies, crackers, rusks, etc.
- Bread products (pancakes, waffles, baguettes, buns, muffins, bagels, etc.)
- Pastries (donuts, croissants, pretzels, etc.)
- Cakes and pies
- Pizza, focaccia, tortillas, etc.
- Snack and confectionery products (snack bars, chocolates, candies, chewing gum, ice cream, etc.)
- Other food products (meat and poultry, cheese, seafood, etc.)















VISION INSPECTION SYSTEMS

to automate quality control, support process improvement with data analytics, and optimize pick & place

ENSURE, a company based in Italy, has been designing and developing, since 2007, complete vision inspection systems equipped with the innovative SENSURE SYNAPSE software suite.

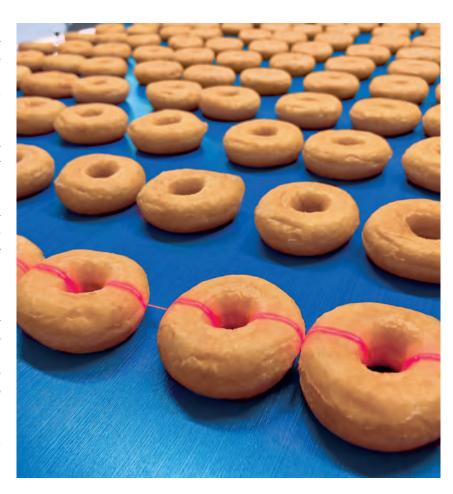
With SENSURE SYNAPSE, it is possible to measure numerous product features (a wide set is included in the system), such as shape, size, and colour, using 2D technology (industrial camera) and perform a full 3D product profile using 3D technology (laser profilometer).

Thanks to the use of thermal imaging and infrared cameras, it is also possible to identify features in addition to the visible ones. SENSURE SYNAPSE can also be configured to analyse features thought to be impossible to manage, such as pattern variations, topping conformity, average colour, slope, and much more, even on the bottom parts of the products.

With SYNAPSE, all the measurements are reliable, repeatable, and accurate, even at high line speed.

With the use of innovative artificial intelligence algorithms and a self-learning mode, SENSURE SYNAPSE identifies the features to be controlled in the products and optimizes the tolerances of the controlled measurements, eliminating the complicated part of setup typical of traditional systems.

Thanks to the ability to work in self-learning, SYNAPSE presents a quick and easy installation and setup phase.





SENSURE SYNAPSE software suite also offers a complete set of data analytics modules that can provide real-time display and monitoring of measured values, customized reports and statistical analysis, supporting

continuous improvement activities, and improving the quality of the finished products.

Thanks to the SENSURE SYNAPSE software suite with the modular and





7

customized hardware of SENSURE STARGATE, it is possible to configure a complete vision inspection system that fulfils any operational requirements, even on already existing lines.

The SENSURE STARGATE can be tailored to suit the specific application and production line with a compact and solid mechanical frame, an electrical cabinet with a state-of-the-art operator interface, dedicated hardware for vision inspection, and customized single or multiple rejection mechanisms (air nozzles, traps, retractable belts, pushers, etc.).

The STARGATE solutions are designed to be quickly installed into any new or existing production line, can be fully food grade, and ready for a harsh wash-down environment.

The system also has the possibility of exchanging signals and information with conveyors and/or other machines/systems in the line.

Additional conveyors before or after the STARGATE systems can be designed and installed by SENSURE to make the overall solution a perfect fit.

SENSURE STARGATE solutions are easy to install, calibrate, and operate.

The SENSURE technology is used on highly variable products, such as biscuits, crackers, rusks, bread, croissants, cakes, pizzas, bars, chocolate, sweets, chewing gum, ice cream, and other food products (meat and chicken, cheese, fish, etc.).

Visit: www.sensure.it/en

and contact us at: sales@sensure.it







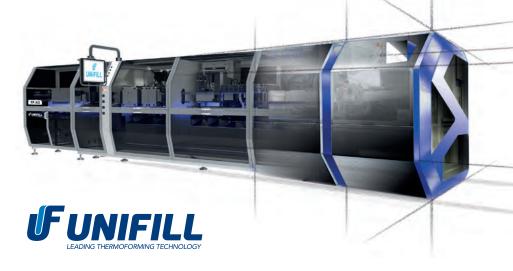


UNIFILL: our Innovation Model

ounded in 1979, today UNIFILL is a leading Company in the design and production of high-tech automated machines for primary packaging, for filling liguid and semi-dense products in singledose packages for food and non-food industry. We have installed more than 400 machines and developed a commercial network covering more than 52 countries. UNIFILL has its headquarters in the province of Modena-Italy, In the heart of the Packaging Valley, and has sales offices in the USA, Germany and China. Innovation has always been an asset of UNIFILL. Our culture, ours history, our business model and living in a rich industrial ecosystem of technological contaminations, stimulates a process of continuous improvement. During these years we have been able to reach remarkable achievements thanks to our innovative technology and we also recently made notable investments to introduce updated solutions and new advanced lines as our generation "X".

The design that shapes the future

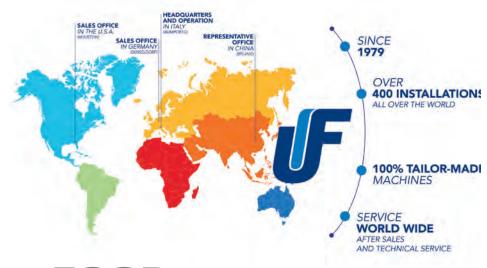
The new "X" series is the expression and the essence of over 40 years of UNFILL history condensed into a new technology with an innovative design, revolutionary that combines the history and experience of an Italian territory where the Packaging, combined with the experience of automotive design have come together, giving thus forming to a new generation of machines. Ergonomic design for an innovative man-machine Interaction. The project was born with the aim of placing at the center the operator's comfort in the use and maintenance of technology. The new generation "X" is also equipped with IOT technologies and intelligent Sensors, that guide and help the operator by providing a unique and innovative work experience.



We are at a turning point in history

Today is not possible to think of a future without innovation. Digital transformation and ecological commitments are a reality, flexible ways that can represent the ultimate solution in every field, including packaging. Let's think about our UNFILL suite, a digital services platform designed for our clients and business partners, which allows users to take advantage of several digitalservice: real-time customers support, chat boxes, digital form and so on, including a QAP (qualification agent program), a digital service based on blockchain technology to become UNIFILL certified partner. In terms of sustainability, it is essential to expand and strengthen our partnerships with leading suppliers in the design and production of sustainable materials. The process of studying and researching new materials cannot be carried out individually. Companies and suppliers must work together to achieve this goal. We are at a turning point of history. It is no longer a question of whether or not to adhere to particular innovation process. The point is whether we want to be spectators or protagonists. For UNIFILL, sustainability and attention to the environment have therefore become a constant focus of its business and is ready to play a leading role not only in paper solutions, but also using recyclable materials with single polymer (e.g. mono PE, mono PET and PP). 🏛

www.unifill.it





A NEW GENERATION OF MACHINES

THE **DESIGN**THAT SHAPES THE **FUTURE**



FROM THE **IDEA DEVELOPMENT**TO THE **MACHINES DESIGN**

UNIFILL designs and manufactures from 1979 unique systems that allow the **thermoforming**, the **filling**, the **sealing** and the **shape-cutting of unique portion-packs** starting from a single reel of plastic material.

Thanks to our technology, we can produce light and flexible portion-packs that, compared to traditional containers, give the customer advantages in terms of cost saving and food waste. UNIFILL serves both the **Food and the Non-Food industry** guaranteeing **flexibility**, **quality**, **reliability** and **100% tailor-made solutions**.

The new generation of machine has been designed with high technical and hygiene standards to reach high performances and productions for all applications: squeezable, peelable, stand-up, contour shaped

and/or connected monodoses/portion packs.



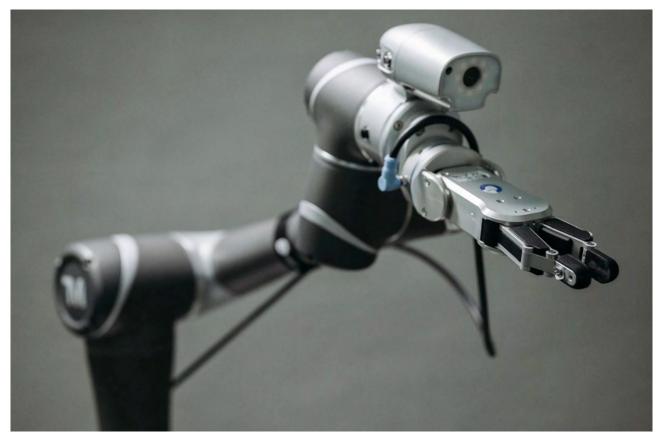
UNIFILL S.r.l. tel: +39 059 909928 e-mail: sales.dept@unifill.it

www.unifill.it



THE WORLD OF PACKAGING BETWEEN ROBOTICS AND ARTIFICIAL INTELLIGENCE 99

The use of robotics and artificial intelligence in packaging is increasing, providing benefits in efficiency, quality, and sustainability. However, companies must consider costs and invest in training for effective use

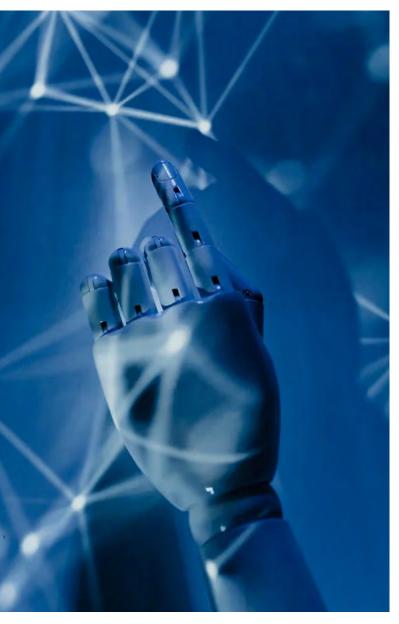


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he world of packaging is undergoing a rapid evolution thanks to the introduction of robotics and artificial intelligence. In recent years, advanced technologies have radically changed the way companies produce and package their products, offering advantages in terms of efficiency, precision, and sustainability.

One of the main benefits of using robots in packaging is the increase in speed and efficiency. Robots can work 24/7 without interruptions or slowdowns, improving productivity and reducing delivery times. Additionally, robots can be programmed to work precisely





and repetitively, reducing human errors and improving product quality.

Artificial intelligence is another technology that is revolutionizing the world of packaging. Thanks to Al, machines can continuously learn from their environment, improving their performance and adapting to new situations. For example, machines can use artificial vision algorithms to detect defects or anomalies in products, reducing the risk of errors and improving product quality.

Another advantage of using robotics and artificial intelligence in packaging is the reduction of waste and environmental impact.

Machines can work with greater precision and use only the amount of material necessary to package products, reducing waste and energy consumption. Additionally, machines can be programmed to recycle or reuse packaging materials, reducing environmental impact.

However, the introduction of robotics and artificial intelligence in the world of packaging is not without challenges. For example, companies must invest in expensive technologies and train personnel to use them effectively. Additionally, machines can be subject to malfunctions or breakdowns, causing interruptions in production and additional costs for maintenance.

In conclusion, the world of packaging is becoming increasingly robotic and intelligent, offering numerous advantages for companies that decide to invest in these technologies. However, it is important to carefully evaluate the costs and benefits before making a decision and ensure that personnel are adequately trained to use the machines effectively.







TEK in PAK s.r.l.

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TECNOLOGIA - ESPERIENZA AL SERVIZIO DELL'IMBALLAGGIO

MACCHINE E LINEA PER REALIZZARE I VOSTRI PRODOTTI MACHINES AND LINE TO REALIZE YOUR PRODUCTS



INTERFALDE BORDATE INTERLAYER WELDED



PALLET DA FUSTELLATO PALLET FROM DIE CUT SHEETS



BOX PALLET



MANICA DI CONTENIMENTO CONTAINMENT SLEEVE "TIP"



SCATOLE AMERICANE **AMERICAN BOXES**



MANICA "W **CONTAINMENT SLEEVE EDGE "W"**



ANGOLARI GROSSI SPESSORI ANGULAR LARGE THICKNESSES PLATEAUX WELDED FLAUTE



PLATEUAX CANNE SALDATE



TEK in PAK: machine building experience for packaging ideas and designs

EK in PAK srl is a smallsized company that carries forward a machine building experience for packaging ideas and designs, both for agriculture, with the creation of the first machines for corrugated cardboard trays, and for various industrial sectors, for example, the confectionery industry with large containers (8 panettone pandori), as well as the liquid detergent and soft drink sectors with the creation of the Visual Box and related wrap-around lines.

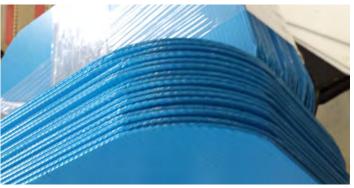
significant reduction in card-

TEKINPAK S.r.L.

board while allowing for excellent and immediate product visibility, avoiding the need to cut packages for display and sale. Furthermore, many other packages for different sectors are always used, using paper or corrugated cardboard, which is an ecological and economic material.

This packaging combines a As happens with most small companies, to keep up with

the times and manage themselves effectively, they must continuously study prototypes, seek appropriate personnel, explore international market demand, and make new choices. They stop to study another product with great characteristics, evaluating respect for ecology, the ability to contain and protect the product, and the relevant machines for production.











four chats with...

Once they find this new product, whether it is material, packaging, or machinery and has no competition, TEK in PAK starts to produce it.

The material they have adopted is PP in its various forms, including CARTON-PLAST, BUBBLE GUARD, and other forms.

This product has various characteristics such as being food-grade, reusable, regenerative, moisture-resistant, neutral and unaffected by adhesives or other agents.

TEK in PAK has studied its own fastening system, which has led to the construction of various models of packaging without the use of current fastening systems such as adhesives or staples.

They have produced trays for fish, trays for vegeta-

four chats with...

bles, fruits, and vegetables that can be watered, American boxes (RSA), or sleeves for pallet boxes. In production, they also make lines for pallets of large and small sizes (BOX PALLET), which are easily produced since only adjustments are required, avoiding costs for molds and warehouse storage, unlike those on the market so far with fixed sizes.

Additionally, they have a line for interlocking edges, a fully automatic line with corner trimmers and cutters with different radii, and semi-automatic machines.

TEK in PAK's production includes tray-forming machines, tray-forming machines, box bottom welders, and two-head welding machines for large boxes or pallet sleeves.

Visit: www.tekinpak.com



INTERLAYE WELDED



BOX PALLET



CONTAINMENT SLEEVE "TIP"



CONTAINMENT SLEEVE EDGE "W"



ANGULAR LARGE THICKNESSES



AMERICAN BOXES



PLATEAUX WELDED FLAUTE







OF PACKAGING 99

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

he label serves as the first "physical" point of contact between companies and consumers, satisfying the latter's need for thorough, accurate, and transparent information. As such, the label plays a crucial role in guiding consumer choices. With regard to sustainability, labels now provide more information than ever before about the product as a whole: from its raw materials to its possible uses, all the way to the environmental sustainability and recyclability of its package. Essentially, the packaging also talks about itself, assuming a new and influential role in consumers' decision making processes. To put it simply, when consumers perceive an environmentally conscious approach, sustainability, recyclability, and overall green practices, they are more inclined to make a purchase. This significant aspect is something that companies are increasingly aware of.

The Key Words of Sustainable Labelling

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



by Elisa Crotti





SUSTAINABLE Let's start with the general results: the "sustainability" claim has spread to a significant portion of the market (+15.3%), arriving at 4,024 products, and has exceeded €3 billion in sell-out, with an annual growth of 5.5%. For the food sector, the categories most involved in this trend are those of traditional biscuits, supermarket ice cream, and packaged pastries. Meanwhile, in the non-food sector, the Cleanright brand of dish and laundry detergents went into free fall, with sales dropping by 1.7%. The same trend could be seen for products with a sustainable cleaning certification, which experienced a 33.2% drop in sales over the 12-month period (laundry detergents, fabric softeners, and dish soaps). As for CO2 emissions, labels that claim a reduction have experienced an 11.9% increase in sales, a sign of the market's appreciation.

PLASTIC-FREE or LESS PLASTIC Plastic remains a hot issue for the market, thanks to European regulations that want to limit its use and the concern of consumers who are highly aware of both the issue and the need to stop its widespread use. Thus, the turnover of the 1,625 products sold in packaging that claims "less plastic" has grown by 9%, surpassing €1.2 billion and driven by a 19.4% increase in the selection of products and by a rise in cured meats, seed oils, and shelled nuts. This trend is also confirmed by the increased sale of products with compostable packaging. Here, however, the positive trend can be seen not only in sales, with a twodigit growth of 10.7%, but also in the increase in products, which has soared by 25.2%, thanks to the switch from plastic to compostable single-use tableware. A significant increase in turnover was also experienced by

products that advertise the use of Master-Bi resins, with more than €62 million in sell-out (+12.9%) and with single-use tableware still playing a pivotal role.

Recyclability as True Value

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

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

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

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

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





iatecx is a historical company from Trentino-Alto Adige (Italy) specialized in the creation of paper media and in the production, of DIAMELT branded industrial adhesives used in different production processes, from end-of-line food packaging, labeling and bookbinding.

In our INDUSTRIAL ADHESIVES division, we are specialized in the formulation, manufacture and sales of glues and adhesives for a wide variety of industrial applications, and the sectors served by our products are mainly packaging, labeling, converting and bookbinding. The formulations of our HOT MELT and WATER BASED glues are the result of a continuous process of technological innovation. That's why they guarantee high performance and can deal with any specific gluing technique, in any industrial process, even among the most complicated ones.

At Diatecx, we never stop innovating, and currently a new production line



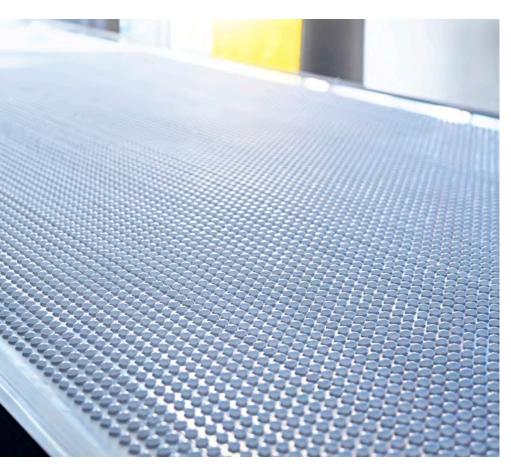








MATERIALS PACKAGING



proud to say that, the electricity generated by our photovoltaic and trigeneration plants is superior to that used by our production plants.

We can also proudly boast of having obtained ISO 9001 and 22000 (including HACCP standards) and FSC certifications, accompanied by the process of analyzing all our processes to reduce our carbon footprint.

Thanks to the Diatec Group's knowhow and decades of experience, we are dynamically present in numerous markets internationally.

We firmly believe in innovation and research-that's why we are able to respond effectively and promptly to the technical needs of every industry.

www.diatecgroup.com

is being installed in addition to the upgrading of two other existing lines, for a total annual production capacity of 16 thousand tons for HOT MELT and 4 thousand tons for WATER BASED, but above all, a new Research & Development laboratory of over 400 square meters, equipped with the most modern technologies, is being completed, to always guarantee maximum innovation therefore the satisfaction of our customers.

Over the years, the Diatec Group, headed by Diatecx, has supported significant investments with the aim of achieving sustainable industrial production made of clean energy.

Diatecx in 2023 will also proceed with the installation of a new photovoltaic plant of about 400 Kwp.

The company has been awarded the "100% Green Energy" label, a guarantee that 100% of the energy used comes from renewable sources. In addition, to date we are









La Cartomeccanica Imballaggi: sustainable production of cardboard tubes and personalised cans for the industrial sector and luxury business

t La Cartomeccanica Imballaggi, we have been producing a variety of cardboard tubes and cans for over 40 years, for various uses, from the industrial sector as paper mill cores or tape cores to the luxury business as personalised packaging or bottles holder. Our company stands out for the use of selected raw materials, derived from 100% recyclable and recycled materials, making it completely biodegradable and respectful of the environment and current regulations

To maintain a constant alignment with the technological evolution, we have constantly adapted the plant, machineries and production methodologies, ensuring high quality and durable products over time.









MATERIALS PACKAGING

SPECIAL





Our company also stands out for its commitment to reducing CO2 emissions, thanks to the installation of solar panels on the roof of the facility, which allows for self-production of 70% of the energy requirement by exploiting solar energy.

La Cartomeccanica Imballaggi is a young and flexible reality, where seriousness and efficiency go hand in hand with enthusiasm and high flexibility. The cardboard tubes can be used as functional and elegant packaging, practical cans, custom-made packaging and containers for all kind of products.

Furthermore, thanks to customised and tailor-made production, La Cartomeccanica Imballaggi is able to accommodate and satisfy the technical and dimensional requirements of every user. The company offer includes industrial cores, laser-cut tubes, labelled tubes with printed lithographic, tubes for counter display units, cylindrical floor displays, tel-



escopic tubes, tubes for food, wine and cosmetics packaging usage. Additionally, we also offer multiple products related to the packaging world, such as personalised cardboard boxes, cardboard corners and protective films.

Our customers appreciate the company's reliability and ability to meet

all their needs, offering tailor-made solutions and providing high-quality products. If you are looking for a creative packaging solution, La Cartomeccanica Imballaggi is the right partner for you.

Check our web-site out to find more information on

www.lacartomeccanica.com





SPECIAL

PPWR: mandatory re-use solutions threaten targets of a low carbon circular economy

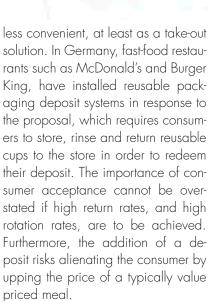
n November 30th, the European Commission presented the proposal to amend the Packaging and Packaging Waste Regulation (PPWR). Although its objectives were well-meaning, the decision to focus on the implementation of reusable packaging has drawn questions among many sectors of the value chain.

Reusable packaging can be an important driver towards a packaging circular economy and has gained significant interest in recent times. This largely stems from its ability to reduce the number of packages on the market with raising the number of use cycles. But the bigger picture is more complex.

Higher CO2 emissions with re-use packaging

Interestingly, a new report by McKinsey titled 'The potential impact of reusable packaging', has found that imposing strict reusable packaging targets by 2030 will severely impact the EU's environmental footprint and the competitiveness and resilience of the European economy. Assessing the switch to reusable packaging for takeaway food service in Belgium by 2030, the study revealed that it could produce 140-160%+ additional CO2 emissions, owing to transportation and water consumption necessitated by the widespread installation of dishwashers to clean the packaging after use.

The report also acknowledged some of the considerable societal implications the switch to the reusable model would incur. Some consumers have expressed alarm at the changes to their post-consumption habits and have suggested reuse systems are



Heerlijk en gezonde trattatie

Cartons are future ready. Today.

Finally, when it comes to recycling rates, single-use reigns supreme. The recycling rate for plastic was just 38% in the European Union in 2020. On the other hand, the recycling rate for paper and cardboard packaging lies at 82%, the highest of all the packaging materials, suggesting consumers are aware of its recyclability credentials and trust in its collection system. What's more, there is no need for mandatory recycled



contents for materials which already have high recycling rates.

Pro Carton published the latest results of the Carbon Footprint Report for Cartons in March 2023. The industry managed to reduce cradle-to-grave carbon emissions by 24% between 2018 and 2021, a significant improvement pointing towards taking a lead on the road to carbon neutrality. Enforcing a mandatory re-use system comes with higher emissions and significant costs to build up a reliable infrastructure. The risk for food hygiene, a non-negotiable, remains unknown. Lifecycle analysis (LCA) studies can educate business owners on the best solution on a case-by-case basis. There is no "one size fits all". Both solutions can complement each other to unlock the low carbon packaging circular economy in line with the ambitious targets of the EU Green Deal.

www.procarton.com







SPECIAL

Fiorini International: a strategic partner in the Drive to Paper process and in the design of sustainable packaging solutions

International founded in 1996, from background experience as a business in the production of paper packaging matured during the previous 50 years. The continuous analysis of trends and consumer habits, and the ongoing research into technological solutions and innovative materials have aided an organic and rapid growth in the packaging industry, leading the company to successfully diversify production, while firmly maintaining the eco-friendly commitment to the exclusive use of paper, FSC certified in compliance with the forest chain of custody and ecosys-

Today, Fiorini International group is synonymous worldwide with excellence, reliability and quality.

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

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

A constant consolidation of the market share and the new challenging opportunities in the packaging in-











dustry have been the main drivers for Fiorini International to become a strategic partner in the Drive to Paper process and in the design of sustainable packaging solutions, fully and easily recyclable, compliant with existing filling technologies, according to the European directives.

Achieving excellence by focusing on the continuous improvement of quality of products, services and processes and designing a sustainable production model to ensure environmental and human respect are the main values that drive the definition of the strategies and everyday actions. In order to measure and evaluate sustainability and performance and design the path for a sustainable development, Fiorini International has started its sustainability performance assessment with a series of activities focused on minimising environmental impact and to creating awareness of sustainability culture, offering solutions and answers to the community and engaging the entire company network.

www.fiorinint.com







SPECIAL

Logistics and efficient and smart handling an indispensable imperative for today's industries

ogistics and handling are fundamental parts of any industry's activities.

Effective management of both can contribute to reducing production costs, improving product quality, as well as efficiency and productivity, enabling businesses to remain competitive in the market. MH Material Handling is an Italian company specialized in handling and logistics for any industrial sector, whether it is food or non-food, for over thirty years.

They design transportation solutions tailored to the client's needs, starting from primary packaging up to palletizers. In recent years, they have expanded their range of products to include conveyors suitable for naked food products, with specific hygienic design solutions for the fresh sector.

four chats with...

The editorial staff of FOOD PRO-CESSING, therefore, wanted to delve into the topic by interviewing the company directly, one of the leaders in the sector for over thirty years.

What are your main material handling solutions?

If we talk about pure transport, we produce any type of conveyor belt, roller conveyor, chain-driven roller conveyor, modular chain, or roller. Usually, we start from primary packaging and reach the palletizer, but in recent years we have also expanded the proposal to conveyors suitable for naked food products, including hygienic design solutions for the fresh sector. However, our proposal does not stop at transportation; in fact, I would say that our strength lies in the



accessories that serve to transform the transportation line into an automatic machine that contributes to the line's efficiency: product handling systems, unification sorting, and, above all, buffering and accumulation systems.

How do your products integrate with existing production lines?

All our projects have a modular design from the outset; therefore, we only need to create interface modules to perform mechanical integration. At the control level, we have specialized in Siemens and Rockwell, but





our network of partners allows us to integrate other standards if necessary.

What are the needs of the customers you have faced, and how have you solved their handling problems?

The challenge is always to find the best compromise between high productivity, available space in the plant, line ergonomics, efficiency, and, of course, adequate investments. We always try to work alongside clients from the line design phase, seeking the best possible optimization. Of course, our buffering systems are the key to achieving high efficiencies and optimizing the layout.

How have you addressed the challenge of digitalization and automation in production?

For us, it has been a gradual process that started many years ago with the introduction of a dedicated management system. We have adopted CAD systems since the first solutions, and the transition to 3D began almost twenty years ago. Since we make

custom installations, it is difficult to insert automation into our processes. Instead, we are working on enabling technologies that allow us to reduce design and implementation times. Recently, we have invested heavily in additive manufacturing, introducing three 3D printers with FDM technology, which have allowed a reduction in lead time for many plastic components and considerable cost savings.

What criteria do you use to ensure the quality and safety of your products?

Attention to detail and constant dialogue with customers. As mentioned, we make special machines, so we cannot standardize all solutions. Therefore, we pursue results with operational methods that lead us to continuous improvement.

How do you support customers during the installation and maintenance of your products?

We have made a costly choice, but it guarantees us great flexibility and the ability to respond to requests. All our machine assembly technicians are trained to follow the product in all its phases, up to commissioning, maintenance, and any future modifications. In this sense, we have no distinction between internal and transfer technicians; everyone is trained to go to customers. A significant commitment, but one that leads to great professionalization

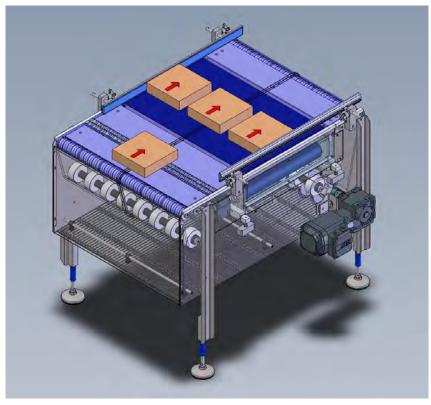
What are your main target markets, and how do you plan to expand your presence nationally and internationally?

We work with both end customers, who are usually large multinational companies in the food industry, and with OEMs. This has led us over the years to install lines in any part of the world. Although Italy still plays a major role, the vast majority of our plants are installed outside national borders. In recent years, we have launched a program to renew our foreign sales network.

Needless to say, Covid has had a certain impact on our goals; before 2020, we were confident that we could directly serve all European markets, but the pandemic and the resulting travel restrictions have convinced us of the need for a more extensive network. We have just signed an important agreement for all of Eastern Europe, and now we are focusing on German-speaking markets with the support of a TEM. We say goodbye to MH Material Handling, whom we thank for the interview, with the awareness that customization, flexibility, and innovation are always the right ingredients to face the most competitive markets and challenges.

mhmaterialhandling.com







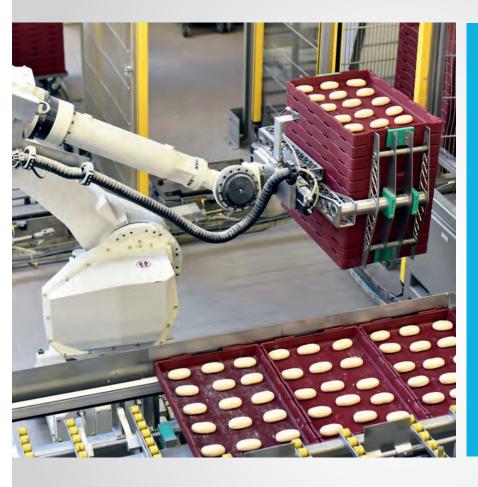
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Trade fair preparations get underway for FACHPACK 2024



he European packaging sector will once again gather in Nuremberg at the trade fair for packaging, technology and processes. Around 1,300 exhibitors and 35,000 trade visitors are expected. The main theme at FACHPACK will be "Transition in Packaging", which reflects the current changes associated with sustainability, digitalisation and altered consumer behaviours in the industry.

This key topic will be addressed at the exhibitor stands and through the forums, special shows and awards ceremonies that are an integral part of the trade fair. As of now, interested companies can register for FACH-PACK 2024. All relevant information is provided on the new website

www.fachpack.de/en

FACHPACK is a compact, three-day exhibition that is an important compass for the European packaging in-



dustry and its customers. It presents a comprehensive range of solutions across the entire packaging process chain for industrial and consumer goods. As well as highlighting cutting-edge trends and providing direction, it presents innovative solutions and delivers answers to the burning issues affecting the packaging sector.

The participating exhibitors offer products, machines or solutions from the following segments: packaging materials, packaging and accessories, packaging and bottling machinery, labelling, marking and identification technology, machines and equipment in the packaging periphery, packaging printing and finishing equipment, palletising technology, intra-logistics and services for the packaging industry. FACHPACK enables them to reach their most important target groups.









85% of trade fair visitors are in executive roles

Whether they are purchasing officers, packaging developers, project managers, marketing specialists, production managers, managing directors or business owners – FACHPACK attracts high-calibre visitors from Germany, Austria, Switzerland, Italy, France, Benelux, the UK, Scandinavia, the Czech Republic, Slovenia and Hungary. One in three visitors travels to Nuremberg from abroad.

FACHPACK enjoys widespread approval: According to the results of a visitor survey conducted by an independent institute, 95 percent of the professional audience at the last FACHPACK in 2022 were (highly) satisfied with the range on display in the exhibition halls.

No less than 84 percent of trade visitors stated that they were involved in their company's purchasing and procurement decisions.

And more than half of the visitors were in leadership roles. Trade visitors came primarily from the follow-



ing segments: food, luxury food and beverages, pharmaceuticals and medicine, cosmetics, chemicals, electronics, automotive, commerce, packaging and logistics.

Subscribe now to the brandnew news portal

Anyone wishing to keep up to date with the latest news and information on packaging before and after the show itself should take a closer look at the brand-new news portal FACHPACK360°, which provides a

panoramic perspective on the issues affecting the European packaging industry.

In the form of interviews, articles and video presentations, FACH-PACK360° supplies the answers to the packaging questions of our times and helps its readers transition to altering consumer and industrial goods environments. It's available online 365 days a year!

www.fachpack360.com www.fachpack.de/en







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POWTECH 2023: the hub for processing and bulk solids technology



n autumn 2023, POWTECH will be setting a new course: The organisers are extending the product range at the leading trade fair for processing and bulk solids technology to specifically include the processing and handling of fluids and liquids.

At POWTECH 2023 from 26–28 September, experienced companies and innovative start-ups will therefore showcase a broad range of technological solutions for the production and processing of powder, granules, bulk solids, fluids and liquids. Around 700 exhibitors and 14,000 visitors are expected. For more information about the trade fair, go to:

www.powtech.de/en

By implementing this change, NürnbergMesse is reflecting the fact that in many of POWTECH's target sectors, powder and bulk solids processing is being combined with fluid and liquid technologies to create one integrated process. Marianny Eisenhofer, Director POWTECH, explains: "The key to increasingly efficient and sustainable processes is to take an integrated approach and optimise them accordingly.

Many of the exhibitors traditionally represented at POWTECH have been making considerable progress towards this goal for some time now." Heike Slotta, Executive Director Exhibitions at NürnbergMesse, had this to add: "This repositioning

opens up POWTECH, as the leading fair for the sector, to other European solution providers for the manufacture and processing of powders, granules, bulk solids and liquids."

Gateway to the European market

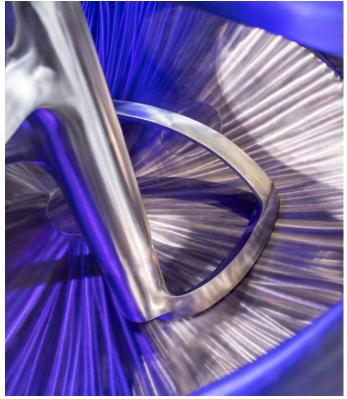
POWTECH is the gateway to the European market and provides compact yet comprehensive insights into the latest developments and industry-specific trends in conveying and processing technology, as well as cutting-edge solutions for size reduction, screening, mixing, conveying, dosing and granulating.

For exhibitors and visitors from a range of sectors, including, chemi-









cals, pharmaceuticals, food, non-metallic minerals, ceramics, glass, machine and equipment manufacturing, recycling, environment, cosmetics and batteries, POWTECH offers the ideal platform to discuss dosing, process and screening technology.

It's where developers, production managers, decision-makers and purchasing officers from various sectors find expert advice for their innovation decisions and practical solutions for their individual problems.

International congress puts the spotlight on particle technology

PARTEC, the concurrent three-day international scientific congress for particle technology, which is sponsored by the VDI Association of Process and Chemical Engineering (GVC), represents another valuable addition to the exhibition. In the past, it has regularly proven to be a crowd-puller for scientists, young researchers and engineers from all around the world.

www.partec.info

POWTECH 2023



PROWEIN

19-21/03/2023 **DUSSELDORF**

International wine & spirits exhibition.

MECSPE

29-31/03/2023 **BOLOGNA**

Fair for the manufacturing industry.

VINITALY

02-05/04/2023

VERONA

International wine & spirits exhibition.

PROSWEETS

23-25/04/2023 **COLOGNE**

Fair for the sweets and snacks industry.

MACFRUT

03-05/05/2023

RIMINI

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

CIBUS

03-06/05/2023

PARMA

Fair of food product.

INTERPACK

04-10/05/2023

DUSSELDORF

Technology focused on packaging, bakery, pastry technology.

HISPACK

07-10/05/2023

BARCELLONA

Technology fair for packaging.

TUTTOFOOD

08-11/05/2023

MILAN

Fair B2B show to food & beverage.

SPS/IPC/

23-25/05/2023 **PARMA**

Fair for industrial automation sector.

BEER&FOOD ATTRACTION

19-22/06/2023

RIMINI

Fair for beers, drinks, food and trends.

FISPAL

27-30/06/2023 **SÃO PAULO**

Fair for product from packaging.

MCTER

29/06/23

ROMA

Exhibition on energy efficiency.

POWTECH

26/29/10/2023

NUREMBERG

The trade fair for powder processing.

MIDDLE EAST 2022/23

GULFHOST

2023

DUBAI

Fair of hospitality.

GULFOOD

20-24/02/2023 **DUBAI**



Fair for food and hospitality.

GASTROPAN

17-19/03/2023 **ARAD**

Fair for the bakery and confectionery.

DJAZAGRO

05-08/06/2023

ALGERI Fair for companies of the agro-food sector.

IRAN FOOD+BEV TEC

10-20/06/2023

TEHRAN

Fair for food, beverage&packaging technology.

PROPACK ASIA

14-17/06/2023

BANGKOK

Fair for packaging, bakery, pastry.

PACPROCESS FOOD PEX

07-09/09/2023

MUMBAI

Fair for product from packaging.

ANUTEC

07-09/09/2023

NEW DELHI

Fair for the food&beverage industry.

HOSPITALITY QATAR

06-08/11/2023

DOHA

Fair of Hospitality and HORECA.

GULFOOD MANUFACTURING

07-09/11/2023

DUBAI

Fair for packaging and plants.

EXHIBITIONS 2022-2023

HOST 13-17/10/2023 m MILAN

Fair for bakery production and for the hospitality.

SIAL 19-23/10/2023 PARIS

Fair on food products.

IBA 22-26/10/2023 m MONACO

Fair for the bakery and confectionery industry.

CIBUS TEC 24-27/10/2023 III PARMA

Fair for food & beverage technologies trends.

SUDBACK 26-29/10/2023 **STUTTGART**

Fair for bakery and confectionery.

BRAU BEVIALE 28-30/11/2023 m NUREMBERG

Fair of production of beer and soft drinks.

SIMEI 2024 MILAN

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

ANUGA FOODTEC 19-22/03/2024 COLOGNE

Fair on food and beverage technology.

LATINPACK 16-17/04/2024 MESANTIAGO CHILE

International packaging trade fair.

FACHPACK 24-26/09/2024 INUREMBERG

International packaging trade fair.

ALL4PACK

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Exhibition about packaging technology.

DRINKTEC 2025

MONACO Fair for the beverage, liquid food industry.

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