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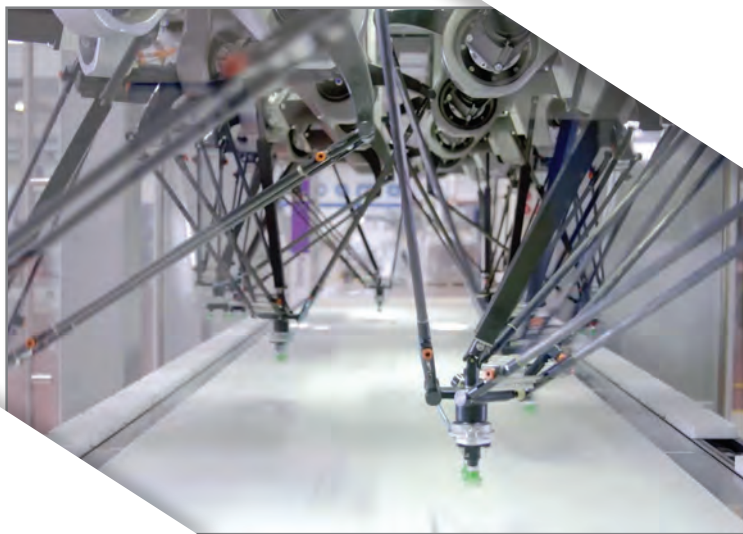


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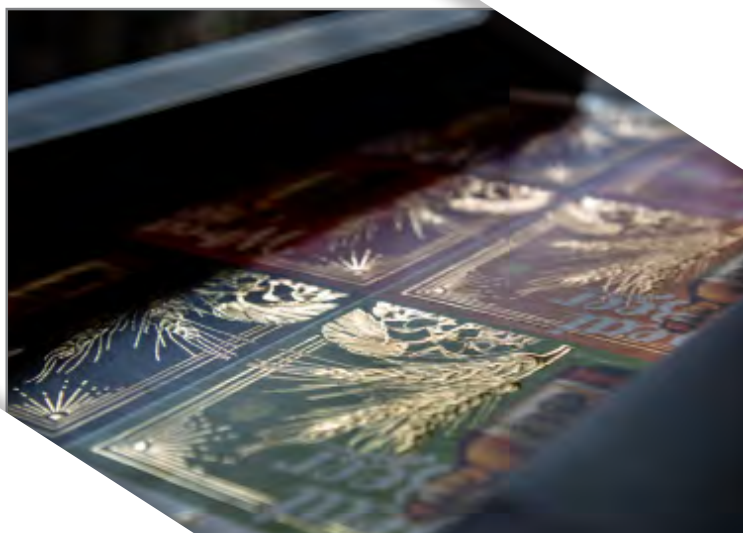


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CAMA GROUP

Cama to display 12 robot pick & place line with built in Augmented Reality functionality at All4pack 2022.

LABELLING



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FEDRIZZI ETICHETTE GROUP SRL

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SONIA V. MAFFIZZONI
Editorial Manager

Resilience, innovative capacity, and a strong drive for sustainability. With this focus, the packaging sector weathered the storm and came out a winner on the other side. Not only was it unaffected by the crisis, but it looked at consumers with awareness and was able to respond to their needs, even those that were unexpressed.

Plastic only where needed, many alternative materials, policies geared towards a true circular economy, and a huge push towards technological innovation. The sector surprised us, as we'll show you in these pages, offering the best and always looking ahead.

Italian creativity is limitless. And when it meets technology, true Made in Italy excellence is born, that for which we're known around the world.

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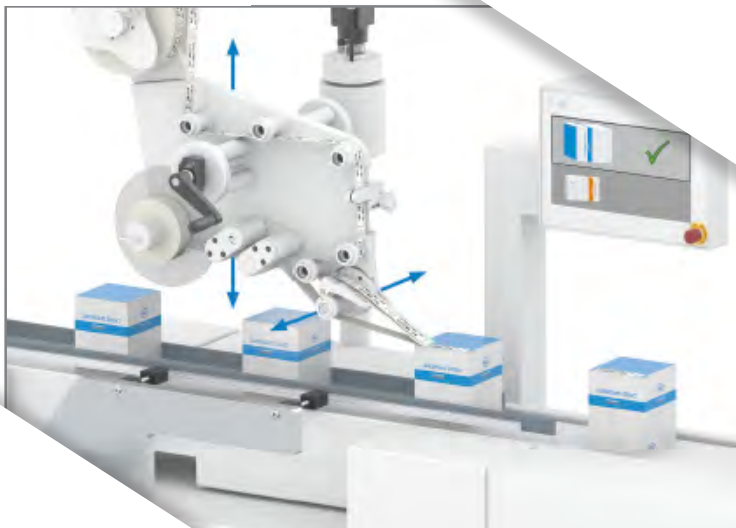


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a high quality product.

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87/91

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NON-STOP TECHNICAL EVOLUTION THAT BENEFITS OUR USERS

Our users renew their trust in us daily as we continue on our path of research and development, also, but not only, in order to satisfy their increasingly specific demands and rise to challenges in which the bar is constantly being raised.

Our systems, always tailor made, can now rely not only on thirty years of proven technology, but also on innovative solutions that we've identified as essential to taking action on increasingly relevant issues such as the *sustainability, ecology, and versatility* of the machinable formats produced by every single one of them.

Some major global companies have encouraged us to reflect upon the possibility of developing an ultrasonic welding system for our flow pack and pillow pack packaging machines.

Today we can confirm, after much study and application, that the performance which can be achieved is incredibly attractive from various points of view, including speed, regularity, airtightness of the weld, variety of machinable films (including ecological ones), and consequent versatility, none of which can be obtained through classic thermal welding systems.





Tecno Pack

PACKAGING MACHINES



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✓ FILM

✓ ULTRASONIC





Ultrasonic technology paired with our well-established long-welding systems (box motion, long dwell) also allow us to offer our users automatic and less physically cumbersome solutions due to a reduced need for accumulation areas, resulting in smaller, yet equally high performance, systems.

When it comes to secondary packaging, we've also been busy developing wrap around technology, an area in which we have many active references with prominent national and international clients.

Our wrap around packaging machines offer the pinnacle of performance in terms of versatility, longevity, and total automation, making them essential to projects in which a box contains multiple and delicate primary packages which are difficult to overlap.

This is all made possible thanks to our clients, who continuously present us with more difficult and ambitious projects which they then promote with renewed confidence.

This relationship is the primary engine of our ongoing technological evolution, allowing us to position ourselves not only as a mere supplier of machinery, but also as a serious, reliable, and competent partner to whom a company can entrust the packaging of its products.

www.tecnopackspa.it



ANOTHER CHALLENGE FOR THE TECNO PACK GROUP

Which enriches its range of solutions for industrial packaging with a new acquisition

Tecno Pack Group is glad to announce the acquisition of Euroimpianti SpA - Skilled Group, a company based in Schio (VI).

The company is specialized since 50 years in the design and manufacture of palletizing systems and pallet handling, as well as the Automatic Guidance Vehicles and (AGV) and Laser Guidance Vehicles (LGV).

Such a strategic acquisition enforces the position of Tecno Pack Group as a manufacturer of packaging machines and most of all turnkey packaging solutions in the food (and non-food as well) sector, starting from naked product management up to truck load.

The whole Group can now count on the skills and professionalism of roughly 400 people, ready to answer all market needs.

The acquisition of Euroimpianti SpA allows important industrial synergies, and boosts the international networking capacity of the whole Group, also thanks to the presence of Skilled Group North America Inc.



OUR STAINLESS STEEL JEWELLERY

IP 65

stainless steel packaging line

FP 021

stainless steel horizontal wrapper

FV 025

multi axis vertical wrapper

FP 027

wrapping machine for cheese

FP 025 PBA

stainless steel version

FP 025BB

stainless steel version

FP 095 AISI

stainless steel wash down long dwell

Tecno Pack

PACKAGING MACHINES

LABELPACK®, PACKAGING OF BAKED SWEETS

Flow-pack packaging machines offer the most high performance solutions for packaging sweet baked goods (for example brioches, rolls, snack cakes, cookies, and breadsticks), creating a very protective package while maintaining the visibility of the product inside thanks to the use of special neutral or printed plastic films.

Some sweet products are packaged loose in plastic bags with the classic vertical packaging machines, which are capable of creating pillow bags or square-bottom bags.

The use of neutral or partially printed plastic film makes it possible to manage the packaging of small production lots by customising the package during the packaging phase through the application of a self-adhesive label which displays all of the product information.

The LABELX® labelling machines can be perfectly integrated into flow-pack packaging lines with a high or low bobbin, for label application that keeps up with the constant flow, electronically synchronised with the movement speed of the packaging film and on vertical packaging machines with application systems that can be integrated in the film unwinding area or in the forming tube area.

Two different LABELX® labelling machines are available: 140mm wide and 250 mm wide. The advanced management electronics guarantee precision of the application at any speed. All of the operating parameters can be managed from a simple and functional touch-screen operating panel.

Thanks to the integration of a printing and thermal transfer unit, LABELX® labelling machines can transform into high performance print & application systems that are capable of solving online-print issues with variable data like: product name, ingredients, bar code, and other customised information. The print data



SECTORS

 **PACKAGING**





is managed by the BarTender® advanced label creation and printing software.

The LABELX® JR is suitable for low and medium productivity applications and, like all of the labelling machines produced by LABELPACK®, can be equipped with printing and thermal transfer modules for the printing of variable data and bar codes.

It can be configured to all application systems available on the market and with numerous accessories that allow for easy integration on the various kinds of packaging machines.

LABELX® labelling machines are the heart of the MODULAR and COMPACT labelling systems. These systems are specifically designed for automatic labelling downstream of the packaging machine for primary packaging in which integration on the packaging machine itself is not possible.

The system has a modular structure with a stainless steel tubular frame that houses the labelling units and the conveyor belt which transports the products and other accessories necessary for the proper application of labels on the package.



The direct and indirect collaboration with numerous manufacturers of flow-pack and vertical packaging machines has allowed LABELPACK® to develop solutions which are always up-to-date, adapted to the ongoing technological evolutions in the sector, and able to respond to the need for flexibility and reliability requested by users.

www.labelpack.it



Label your world, label your life.

LABELX®

A perfect choice for food industry.

Labelling solutions for cans, jars, bottles, trays, boxes and bags.

Print & Apply solutions for boxes and pallets.



CAMA TO DISPLAY 12 ROBOT PICK & PLACE LINE WITH BUILT IN AUGMENTED REALITY FUNCTIONALITY AT ALL4PACK 2022

At All4Pack we offer visitors the opportunity to touch our machine, but not only; through videos related to new applications, we will introduce CAMA plants and lines, for an even richer presentation.

At our booth visitors can see a robotic line with a cell of 12 Triaflex robots designed to pick up product and put it in trays, a solution well suited to confectionery, bakery and a variety of other sectors. Of note, the machine has an Industry 4.0 package, encompassing a Digital Twin, Augmented Reality .

The machine we are going to exhibit is a fully integrated robotic solution, with a very small footprint and a cell of Cama's own 12 Triaflex delta robots working in co-flow, therefore capable of packaging about 1000 products per minute.

These robots feature an anti-collision system, which allows them to work in a very small space without interfering with each other's functions. The cell configuration allows for two product loading lines, one on the right and one on the left, with various pick & place patterns able to be handled.

The lines have an advanced vision system, which allows them to recognize product shapes and do quality checks. They are also equipped with an integrated digital-twin simulation system, the flagship of the first phase of Industry 4.0.

Even before the machine was produced, in fact, we focused on preventive design, dedicated engineering that allowed us to simulate the behaviour of the products and their interaction with grippers and packaging.

All of this is visualized with a large HMI touch screen, mounted directly on the machine and allowing users to see virtual twin operating in sync with the live machine. Digital twin technology and the ability to simulate solutions during the design phase of machine realisation is a





game changing technology to allow Cama as a machine builder to get machine built right first time to deliver successful projects for our customers.

This design strategy is very useful in sectors such as frozen food, where there is no guarantee of being able to test product which is 100% representative before machine installation, due to the need to maintain sufficient quantity of products in the cold chain, which in that sector are often tons processed per hour on very fast





Cama France Team



lines. The digital twin therefore helps to simulate a real production cycle and helps to prevent problems that, if discovered during assembly and testing, can be a very serious problem.

Cama's Industry 4.0 capability also includes an augmented reality package where through the use of a tablet, overlays for user information relating to maintenance, changeover and spare parts are brought to life for the user as an augmented reality view on the tablet's screen. This information, which was previously accessible with the paper manual, is displayed on screen via QR code. This is a user-friendly solution that almost completely replaces the traditional manual, and makes accessing the right information easier and more effective, an ideal tool for supporting staff training.

For 2022, and looking forward, Cama is rolling out its technology into new segments, including Personal, Home & Healthcare, a sector in which we have already

increased our turnover since last year, with a range of innovative machines that have taken us out of our traditional market, allowing us to face new challenges that we have successfully learnt from and solved with new solutions.

In fact, we have adapted our technology, which were developed for the specialized food industry, to meet the needs of the non-food sectors, exploring new opportunities such as assembly, where packaging and product handling combine, creating opportunities and challenges with the likes of components, adhesive tape, cosmetics, but also returning to food, where the likes of meal kits or ready meals are assembled from a variety of food components.

About Cama Group:

Since 1981, CAMA has been a leader in engineering and manufacturing complete high-tech secondary packaging systems for the food and non-food sectors. The Packaging and Robotics divisions make up CAMA's offering for complete lines, from primary packaging handling to finished packaging ready for palletization.

The added value of Cama machines is the total customization of the solutions provided; our applications include specifications tailored by the customer, in order to provide them with an absolutely customized product.

About Cama France:

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

This team with technical and commercial skills contributes in the study of the best technical and maintenance solution of each customer's machine project.

Involved since the very beginning of the project our local services team participate to all kick-off meetings, assembly phase, FAT – SAT, training, etc...

www.camagroup.com

www.smartpackaginghub.com

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CARLUCCI SRL CHOOSES A CARTES GT365VSHSR MACHINE



Da sinistra a destra: Dir. Produzione F. Pezzano - CEO F. Staino Giocondi - Op. Produzione A. Giardina - Resp. Amministrazione Finanza e Controllo M. Chiacchierini - Op. Produzione Alessandro Pagliarini

Carlucchi srl is a well-established company that operates in the high-quality cartographic industry, with particular reference to the production of self-adhesive labels and packaging solutions. A highly qualified labour combined to technologically advanced printing systems, rank the company among the leaders in the Italian and European markets.

Efficient, dynamic and flexible regarding planning and delivery, Carlucchi SRL offers a complete and highly qualified service, with more and more competitive products that are able to adapt to any customer requirement.

Our choice falls to Cartes because of their passion, innovation and attention to customers' needs.

These values match our "modus operandi", and after noticing our same perseverance in pursuing certain goals, we immediately felt that we made the right choice. When we think about Cartes we think about advanced technologies, professionalism and a common language. We are a family-run business, and with Cartes we found

the best combination of right procedures and human contact.

Fernando Staino Giocondi

www.carluccietichette.it

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✓ BIOMEDICAL

✓ HARDWARE



GSP 50 S
electronic horizontal
pillow pack
wrapping machine

BE THE EVOLUTION



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PACKAGING LINE**



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general system pack

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GSP - PACKAGING MACHINES AND AUTOMATIC PACKAGING SYSTEMS

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

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

GSP 50 EVO



GSP 65 BB



**GSP 75 EVO**

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

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

Visit: www.gsp.it

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

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

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

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NEW INVESTMENT IN BOPE LINE AT JINDAL FILMS BRINDISI- PROJECT “HORIZON”

A MAJOR STEP INTO THE FUTURE OF SUSTAINABLE PACKAGING

Jindal Films Europe is proud to announce a further expansion in its Brindisi plant that will create minimum 20 highly qualified jobs and add a capacity of further 50.000 MT on top of the current production volume of the site.

This additionally produced volume will be mainly dedicated to Jindal's new innovative BOPE specialty film grades, including matt, sealable, coated, metallized and Alox films.

The new film developments will be focusing on fully sustainable and recyclable packaging solutions and strongly support the circular economy. In addition to that, this high efficiency program will also include the use of solar power and an expansion of the current trigeneration energy systems.

This will also clearly further improve the CO2 footprint of our Brindisi Operations.

On top of that, all these initiatives will utmost benefit from the close cooperation with Apulia Region Universities and the Italian Research Center based in Brin-

disi. This investment project is designed to further strengthening Jindal Films Europe's leading role in the BOPE- and BOPP film markets. With a new total capacity of 130.000 MT Brindisi will become the biggest plant in Europe for BOPE- and BOPP films manufacturing.

This project is named “Horizon” because Jindal Films Europe is preparing itself for the future looking ahead what is beyond “Horizon”.

The Jindal Films Europe Team is looking forward to meeting all big challenges and making use of new innovative business opportunities ahead.

We at Jindal are fully committed to support all our Customers in meeting their sustainability and recyclability objectives for packaging materials.

This investment initiative is the result of a close cooperation with Regione Puglia on the basis of the Contratto di Programma, which we appreciate very much.

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DIAMOND 650 2 NASTRI
continuous servo side sealer

DIAMOND 850
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ifp
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IFP PACKAGING, PACKAGING, SHRINK WRAP PACKAGING TECHNOLOGY



IFP Packaging has, for more than 25 years, provided a strong reference point for shrink wrap packaging technology. Since it joined the Tecno Pack S.p.A. group in 2011, it has embarked on a new path of technological, commercial, and industrial development.

The company produces continuous electronic packaging machines that are built on entirely cantilevered structures and guarantee high performance, operational reli-

ability, sanitation, and project customisation.

Automatic loading systems, shrink wrappers of every size, and complete end-of-line equipment are entirely customised by the technical office in order to adapt every product to the specific needs of the client.

Meanwhile, the company has sturdy and versatile packaging machines on the market, built in series, with an excellent quality-price ratio. With IFP Packaging, every format finds its perfect packaging, with solutions ranging from



controlled atmosphere to high speed, all the way to the most advanced automation, while always guaranteeing the best possible result.

IFP Packaging machines are able to package, preserve, and protect all food products, wrap technical articles (even large formats like mattresses and radiators), create and contain groups of bottles or jars, give boxes a shiny and invisible skin, and guarantee the correct number, weight, and quantity within every package.

DIAMOND 650 2 Belts

Diamond 650 2 Belts is IFP PACKAGING's new model of horizontal electronic packaging machine for single layer film, **characterised by the latest generation of technology and electronics, a cantilevered structure, and outstanding performance.**

Diamond 650 2 Belts is the product of cutting edge design which has made it possible for a high performance, professional, and durable machine to meet the requested target price, lending itself, with the utmost versatility, to becoming a product that is suitable for small enterprises as well as big industry, capable of packaging single products with or without a tray and using shrink-wrap depending on the requirements.

Its cantilevered structure and the accessibility of its parts simplify all maintenance and cleaning operations, and the plastic roll that is loaded in front of the operator facilitates its operability. The model is available in painted or stainless steel versions.

The range of sizes and the continuously rotating heat-sealing system make it possible to package both short and long pieces, like, for example, piping or unstable objects.

Equipped with a standard motorised conveyor belt, it offers the possibility of packaging multiple packs to-

gether, in a line or side-by-side. Its production capacity is 60 ppm, with the additional option of automatic loading.

The version with an integrated shrink-wrapping tunnel is particularly interesting and ready to be inserted in automatic processes such as line packaging machines.

The option of having the machine configured from right to left and from left to right allows a single operator to control two machines at the same time. The touch screen makes it possible to save up to 200 different programs, with the possibility of applying motorised changes in format between different packaging needs.

Finally, the time that elapses between installation and starting the process is kept to an absolute minimum thanks to the series of practical and easy-to-understand tests provided by the company.

Visit:

www.ifppackaging.it

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THE PACKAGING REVOLUTION IN A WORD: EDIBLE

Edible packaging is a different way of solving the recycling problem. Some companies are already at work, whilst some solutions are now on the market. A new era is beginning, for consumers to discover ... and savour.



by **Elisa Crotti**

What is the most sustainable packaging we can imagine? The one that disappears without leaving - or almost without leaving a trace. Though this idea seems to belong to the realm of fantasy, it actually does exist here and now. The concept is edibility: the packaging is part of the product and is consumed with it. Possible? Absolutely: using some special technologies and the results of the most innovative scientific research. Experimentation has already begun. So, if it is true that today 65% of food waste can be attributed to packaging, and if it is true that recycling the container is a "job" delegated to the consumer and that we are witnessing the overflow of layers of wrappings that protect ready-made or pre-packaged food for individual use, it goes without saying that edible packaging has all the potential for a market "breakthrough", that just could find global consensus - among businesses and consumers. We are faced with a new way of looking at sustainability, where the solution of the problem is shifting upstream.

Food packaging

Packaging for the food sector must meet several imperative requirements, which makes it especially sensitive. First, the packaging must guarantee the integrity and perfect preservation of the product, extending its life for as long as possible; here the benchmark is safety. Furthermore, the packaging must not interact chemically with the product, whose nutritional characteristics and quality must be maintained. From the point of view of its footprint, functionality, ease, and conveni-



Image: Freepik.com



ence are the key words. Then, packaging also has the key task of bearing all the necessary and useful information for consumers - in addition to whatever the company wants to make known or available that will differentiate its products from its competitors'. Finally, the packaging must respond to the post-consumer phase sustainably. In light of these considerations, it is surprising how peo-

ple become aware of the existence of an environmental issue only when it comes time to dispose of the waste, without thinking about everything that came before. Some virtuous businesses have begun to move in this direction by undertaking some interesting experimentation with the manufacture of alternative materials suitable for making packaging which is not only biodegradable, but



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 PACKAGING

latest news





even edible. We are talking about a phenomenally challenging innovation with enormous commercial potential.

Edible packaging? Why, yes, thank you

There are several examples of companies that have moved towards packaging that is fit to eat. Analysing identified solutions can be a motivating force to find new paths toward a clearer picture of a phenomenon which is practically in its embryonic stage.

Attention is focused on materials.

The first is a comestible bioplastic obtained by processing algae, whose overproduction would otherwise be wasted. A bioplastic, which can be processed with food-grade inks and dyes, and which is easy to mould into shapes such as heat-sealable bags, plates or cups that can be easily manufactured from this product.

Due to its characteristics and nature and the hygienic conditions of exposure of this bioplastic to dust and microbes, it is more suited for use with fresh food to be readily consumed rather than providing a stable shelf life.

Apart from being odourless and tasteless, it is high in fibre, and contains vitamins and minerals. For those who might not wish to eat it, this bioplastic can simply be dissolved in warm water for it to biodegrade completely or for use as a natural fertiliser.

Then, there is another new material made from sodium alginate and calcium chloride from which a thick gelatinous membrane capable of holding 250 ml of liquid can be made. Colours and aromas (e.g., mint or ginger) can be added to this completely edible membrane. Alternatively, it can simply be discarded like fruit rind, since it has been designed to biodegrade in just 4-6 weeks.

Though this material can only be stored for a few days making it suitable for immediate consumption, which cannot be deferred over time, it has some very interesting advantages that make it attractive to the market. First, it costs less to manufacture than plastic. Furthermore, its manufacture produces one fifth of the CO₂ and requires one ninth of the energy needed to produce PET. Manufacturers have indicated that it would be perfect for contexts such as sporting or large event venues where on-site consumption and waste production is very high.

And then there is the biomedical engineer who has just patented a membrane made of biodegradable cells and polymers that can be used to wrap food, preferably with a flavour added that is similar to its contents: for example, cocoa to accompany hot chocolate. This wrapping works just like the natural barriers that protect fruit and vegetables, preventing their insides from being exposed to oxidative damage caused by air. Similar to the solutions mentioned above, its limitations concern the hazards of possible bacterial contamination when products are marketed and displayed on shelves. Nevertheless, the mem-



brane can be washed and sanitised just like ordinary fruit.

Thanks to a very simple low-tech process involving the addition of sugar and other organic substances to kombucha, the Chinese fermented tea beverage, within two weeks bacteria, yeasts and agricultural waste get together to create a cellulose-like membrane. This thin film, which acts as a barrier against oxygen, will prevent food from decomposing. Being made from plants, after use, it can be either consumed as a probiotic drink or composted into natural fertiliser.

This packaging is ideal for products such as nuts, seeds, dried fruit or precooked products. Unlike the other products mentioned before, because it is produced by fermentation, it has the advantage of a rather long shelf-life.

Towards the future: the weight of innovation and research

Among the many issues to be addressed to present edible, safe and effective packaging on store shelves, the foremost is shelf life. It goes without saying, however, that though the challenge is great these products could mark an epoch-making change. Some solutions are already on the market, whilst others require further research and investment.

The road is truly interesting and hints at new horizons, capable of changing the rules of the game.





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THE PACKAGING OF TOMORROW? IT IS ALREADY HERE TODAY – HAVING ARISEN FROM A NEW VISION OF SUSTAINABILITY

The six companies in the Smart Packaging Hub are talking about the future of packaging: plastic minimised, greater use of paper, and aluminium the rediscovered protagonist. Though the market and paradigms change, the ability to innovate whilst maintaining top quality remain constants for success.



What is the future of packaging and how is it shaping up? To sum up the situation there was the meeting organised by the Smart Packaging Hub platform at Cibus Tec Forum, entitled “The packaging industry: what’s new and what’s on the horizon? From the point of view of manufacturers”. On this occasion, the six leading companies of the Smart Packaging Hub illustrated the main innovations in the sector, starting from the awareness that long-term planning has become an increasingly complex matter.

What is certain, however, is that we will no longer be caught unprepared. “A few days before the lockdown,” Giuseppe Reggiani, President and CEO of Clevertex Group recounted, “the traditional acceptance testing of a new plant, which took place remotely with six smartphones, saw us take an altogether new direction. As has often been the case, the crisis turned out to be an opportunity. We learnt to sell and test in a different way, even venturing into e-commerce. We found ourselves rethinking and reorganising our work, with dedicated Operational Units, for a new approach to sales, production and service. At this point, we need to create correct cooperation with consumers, who actually, in terms of packaging, dictate its rules”.

Without doubt, one among these prevails over the others: sustainability. This concept, which companies try to frame

in its many nuances, keeps reverberating like a mantra. “Sustainability, when speaking about packaging, has several profiles:” pointed out **Cristian Sala, Sales Executive Manager at Cama**, “though it is often expressed in terms of the lifespan of materials, respect for the environment, the ability to communicate brand values, whilst traceability and transmission of content and information cannot be ignored. Then, there is the entire demand trend for new packaging, hopefully replacing plastic. It is a fascinating challenge. Moving towards sustainable packaging does not simply mean abandoning plastic and switching to cardboard: machines and technologies still need to be adapted to different levels of performance. Because we are pushing ourselves in this direction, we have created new in-house units that are ready to respond to our customers’ requests”.

And if paper is experiencing its heyday, with three centuries of history, aluminium cans are also making a comeback thanks to their incredible ability to fit into the logic of the circular economy, as **Sales Director at Zacmi, Giovanni Motta**, expounded: “Today, aluminium seems to be one of the materials with the best price-performance ratio in terms of recycling. Suffice it to say that for every kilogram of aluminium recycled, 6 kg of bauxite and 4 of chemicals are saved, along with 14 kWh. Seventy per cent of all the aluminium ever produced is now still in use. If 2020 saw



the manufacture of 350 billion cans, by 2025 we will reach 406 billion, for a turnover in excess of 30 billion dollars. This boom is linked to consumers' preference for recyclable containers: aluminium cans offer an interesting response in this sense".

Nevertheless, sustainability is not just about materials. There are also ideologies that define how business is done. This was the heart of the speech given by **Ombretta Binacchi, General Manager of Opem Spa**, "I believe that a consideration must be made about what is sustainable today and what is not. From my point of view, i.e., being that of a medium-sized company, big-company purchasing contracts are certainly not sustainable. Then again, neither is transferring part of our production know-how to countries we do not know. Today's customers demand that products on the shelves of large-scale retail trade have increasingly longer lives and that they are also packaged as sustainably as possible according to today's technologies.

All this requires continuous experimentation by those who produce packaging materials and those who manufacture the equipment that processes products and packaging. To give a real-world example, a major Swiss company has put on sale compressed coffee balls protected by a transparent film, thus eliminating

the pod container by placing the coffee balls in a compostable case. From the point of view of packaging, this study has developed a highly sustainable product. This is a great innovation, which has made us realise that sustainability is very much present in the packaging process engineering sector". No less important, aside from the demand for longer product life, there is the need for protection and safety, especially on the e-commerce side. "Here", as **Baumer's Sales Manager Massimo Pavani** explicated, "PET cannot be replaced so very easily, even though there are alternative plastics available and recycled PET is also currently being used. Companies are asking us to use bioplastics derived from corn, while for secondary packaging we are moving towards pressed cardboard. Our idea is to create a closed cycle where plastic is recyclable and to produce thinner and thinner films, minimising energy consumption and ensuring maximum sustainability of the secondary packaging as well."

One final aspect concerns tertiary packaging, which is aimed at securing loads. With a focus on food & beverage, **Fabio Tosa, General Manager of the Tosa Group**, outlined the company's view of sustainability: "On the subject of stretch film with renewable components, we need to distinguish between two different schools of thought. The first is in favour of thicker film (my) with a higher percentage of recycled plastic components, whilst the second is in favour of a thinner, more technical film with a higher percentage of virgin fibres. The market is also moving back towards paper wrapping. In this regard, we have developed a paper that is "deformable" up to 40% and we have designed a machine to wrap with it. Finally, important changes in sales, production and logistics", added the CEO, "have led the company to fully embrace the paradigm shift from an end-of-line philosophy to one of integrated logistics".

What is clear is that companies are moving with increasing conviction towards sustainability and a new way of understanding packaging. Now it is up to consumers to make their own choices, since they too will help determine the packaging profiles of the future.

www.smartpackaginghub.com

SECTORS

 **PACKAGING**

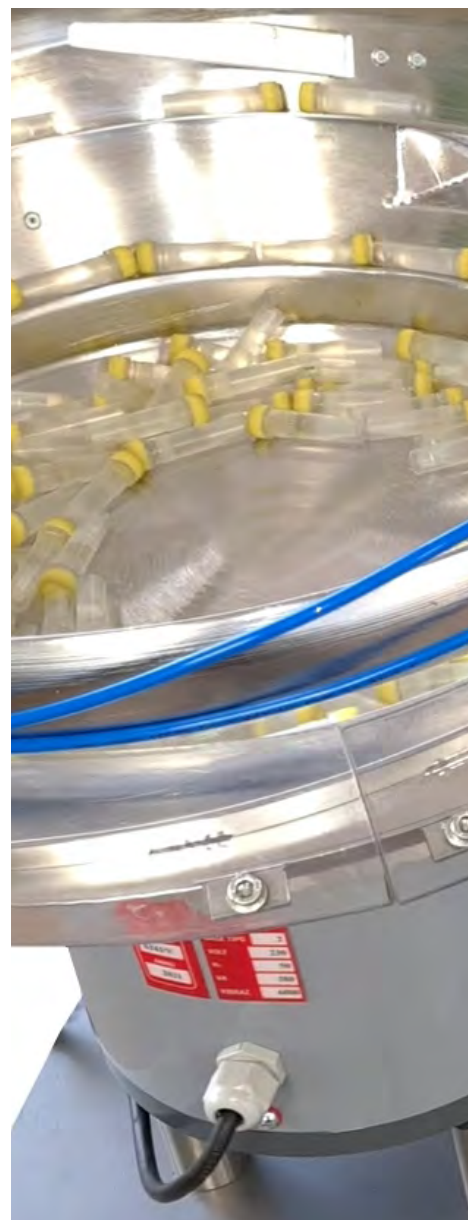

PACKIN DESIGN AND PRODUCE MACHINES FOR APPLYING SELF-ADHESIVE LABELS

Based in northern Italy, in Desio, in the province of Monza and Brianza is a manufacturer of automatic and semi-automatic solutions, with some patents, for application on various types of products.

One of the focal points that unites Packin equipment is operational simplicity. Always at the center is the operator who, according to the internal design philosophy, must have ergonomic working positions, operational simplicity, easy loading of label rolls, rapid format changes, automatisms, and synchronization of the moving parts with the use of solid innovative technology making everything simple and intuitive to use.

High quality components, abundant use of stainless steel even for all screws, the constructive modularity, lead Packin products to be reliable over time with an excellent quality / price ratio.

Packin has also brought some innovations in the semi-automatic machines sector: the Pk-52 model, a compact and industrial label applicator for round products with diameters between 10 and 100 mm and 160 mm wide. It can apply a wrap-around label or two double-sided labels. Can be connected in-line to the inkjet color printers





Packin

of the major manufacturers, thus allowing many advantages including complete autonomy in graphics creation with savings on the purchase of stock of customized labels. The label graphics, complete with all the necessary variable data, are managed in real time from printing to application on the cylindrical product in a single step, producing about 1200 pieces/hour. The Pk-62 model allows labeling of small objects with fall down the product after labeling is finished. It allows runs of about 2500 pieces/hour. The product size limit for this model is 35mm in diameter and 100mm in height.



SECTOR

✓ FOOD

✓ COSMETIC

✓ PHARMACEUTICAL







Another patent (from 2012) covered by Packin technology is the semi-automatic printing & applying system for round objects integrated with the thermal printer mod. Pk-50M.

A motorized rotator integrated with some thermal printer models allows to apply labels with variable data overprinting on round products with diameters from 10 to 110mm. and with label passage up to 104mm. Depending on printer type are available at 200, 300, 600 dpi. Productivity is about 1000 /hour.

Packin's automatic in-line labelers, Pk-LINE-Easy, offers compactness, performance, modularity, use of high-quality materials such as brushless motors.

Are dedicated to round products to apply wrap-around, front/back labels, labels in phase with the seal, etc. Possibility to install accessories such as inkjet markers,

photocells for transparent labels, etc. Some different configurations to applying up to 6000 pieces/hour.

Pk-80: automatic applicator for small round objects with a diameter from 10 to 35mm.

The machine is equipped with a product alignment system through a video camera that works in combination with a vibrator.

The products are then loaded onto a ribbon and carried between the rubberized rollers where they are labeled and then ejected downwards where a container collects them.

Productivity of about 2500 pieces/hour in a fully automatic cycle. Possibility of connections to thermal printers, TIJ2.5 inkjet marker.

Visit:
www.packin.it

Packin | **www.packin.it**

COLOR PRINTER

📍 Via G. Rossini 102, Desio, IT
☎ +39 0362 197 3542
✉ mario.colzani
✉ info@packin.it



BIOGEST SRL: ANALYSIS OF FOOD CONTAINERS AND PACKAGING

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

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

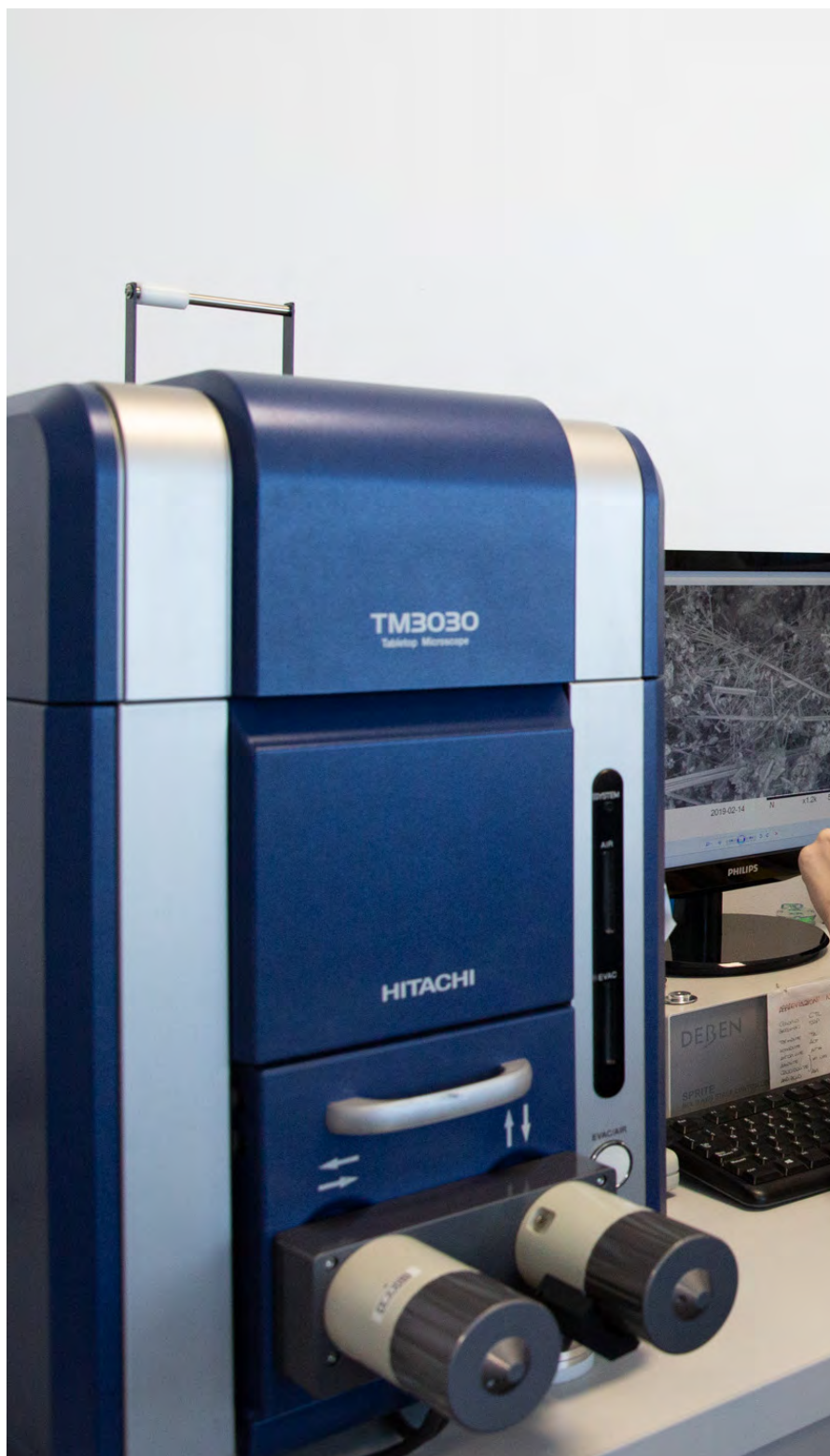
All materials that come into contact with food, from manufacturers' packaging to crockery, cutlery, glass, ceramics and food storage containers, must be tested to ensure their safety. In fact, they must not transfer unacceptable quantities of their components to food. The analysis of materials intended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

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

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

Biogest Srl is able to carry out tests on:

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





SECTOR

✓ PHARMACEUTICAL

✓ COSMETIC

✓ FOOD





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

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

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

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

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

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

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

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

www.csagroup.it



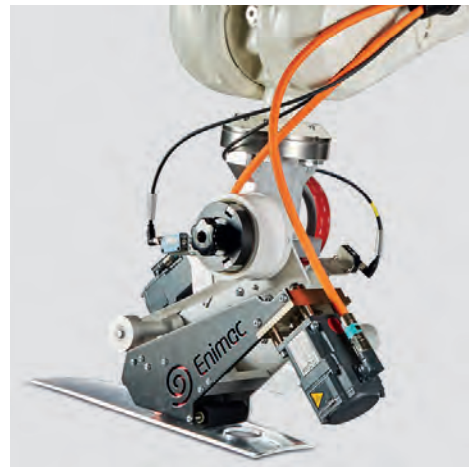


Tape Application Solutions For Your Industry

Packaging:

Enimac introduces the X-treme PRO e-commerce

apply typical close-open and close-open-reclose tape configurations in 1 pass with 1 applicator.



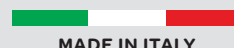
contact us

✉ sales@enimac.it

☎ +39 02 3287425



Tape Application Made Easy



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

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

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

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

Key characteristics of their applicators include:

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

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



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

www.enimac.it/en





It has tape in its DNA



Enimac

Tape Application Made Easy



SECTORS



FOOD



COSMETIC



PHARMACEUTICAL



FE GROUP – YOUR BEST PARTNER IN LABELLING

The Fedrizzi family has been on the labelling scene since 1985. The company was born from the initiative of Fabio Fedrizzi and his wife

Erna Hoerwarter, who pay particular attention to the quality of printed products rather than the quantity. We are describing a 'work-of-art approach' by a craftsman, rather than an industrial process.

Today the helm of the company is still in the hands of the Fedrizzi family, after the children Cristina and Luca, together with their spouses Vittorio Bighetti and Elisa Girardi, acquired the family business from their father. The strong values and family-led business model are precisely what have determined the uniqueness of the FE Group which, to date, boasts 36 years of experience.

Digital pioneers

FE Group has always believed in innovation and works with an unique approach to technology: being at the forefront to develop and make a printing technique their own. Digital printing is an example of this, an area in which the group has created a great reputation for themselves, being the first to install a digital printing machine for industrial production back in 2004.

The company always looks forward to the future and believes in the power of ideas: it is the only label maker that is completely digital.

What's new?

Fine printed labels have always been one of the company's core activities, naturally deriving from the orientation towards quality.

Precisely for this reason, the best technicians of the group have embarked on the road of engineering developments with Cartes in 2019. The company, in the first half of the year, installed a machine created specifically for hybrid embellishment with very high precision and definition, something never seen before. The first finishing with digital screen printing.

What to fine print?

The answer tends to be: everything. Beyond this simple answer, the technological upgrades of embellishment find absolute consensus in the worlds of wine and cosmetics, where we know that labels are





SECTORS

✓ PACKAGING

✓ LABELLING





the best spotlight for a product and fine printing plays a major role.

The artisanal breweries have also understood this and, as a target, they speak to an audience that is more and more oriented towards the refinement and uniqueness of their products.

It goes without saying that there is a happy marriage between embellishments and the brewers!

In addition to wine and beer, this blends perfectly with the cosmetics sector too, giving life to true expressions of elegance and refinement. The gastronomic world also emerges, where more and more products aspire to refined labels, with olive and olive oil producers always at the forefront.

FE GREEN

The expansion of machinery improves many aspects including speed and, at the same time, precision. In addition, energy efficiency is improved, contributing to the protection of our planet and its environment, as well as optimising waste management. Digital printing allows, of course, operations with minimal waste.

Together with technological improvements, the materials, from paint to paper, are chosen carefully, too. They are oriented to have a low environmental impact and branded as eco-sustainable. For example: have you ever tried hemp or corn paper for your labels?



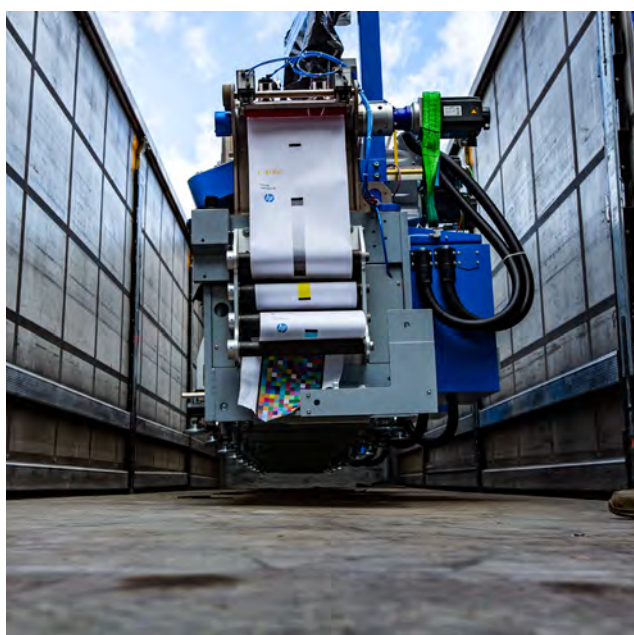
Find exactly what you are looking for!

Whatever the needs of our customers, the technical department will develop the best solution in terms of choice of materials, defining the most suitable ones based on the application and conditions of use: no need of our partners is ever neglected!

Personalise, personalise, personalise.

Today's trend is unique packaging. Yes, but unique for each customer, not just for the manufacturer.

This increasing demand in the label market has led the FE Group to focus heavily on variable data. Today, it is



able to create an unlimited number of labels without ever printing one identical to another. No matter what the variable is: a code, a number, or above all a colour or the graphic design itself!

More space for information

Multi-page labels are a solution where the need to integrate information on the label is of utmost importance but the design or packaging itself impose space limitations. Whether they are small or medium-sized runs, instructions, information and even additional communications can be integrated.

Authenticity of the product

The phenomenon of product counterfeits is on the rise and brands find prevention precisely in the digital printing of labels. The solution is in traceability, variable data and invisible ink. Furthermore, the experience of the FE Group on anti-counterfeiting guides its partners in the harmonious integration of these elements in the product design!

FE Group provides its customers with many years of experience in every field of label printing.

It has staff capable of supporting companies from various sectors in order to find tailor-made solutions to dress the products in the best possible way for every occasion.

www.fegroup.it

RESEARCH INTO SUSTAINABLE PACKAGING: THOUSANDS OF WAYS TO REPLACE PLASTIC

Sustainability – as a corporate value, driven by consumer awareness and the need to preserve planetary resources – has become a topical trend for companies in all areas of business, engaged in researching innovative solutions. The food and beverage industry is no exception and has come up with a number of possible solutions aimed at reducing the use of plastic.



a cura di
Elisa Crotti

Sustainability as a business philosophy also embraces the world of packaging, where the great challenge lies in replacing plastics, whose characteristics and properties are difficult to match in other materials. The research laboratories of leading international companies are therefore presenting and perfecting innovative, if not ground-breaking solutions, which have been presented at Anuga FoodTec 2022 in Cologne.

Driven by growing market pressure and consumer awareness, the food and beverage industry is orienting its packaging choices towards renewable raw materials and recyclable materials, leading them to replace





traditional packaging with more contemporary solutions. Many producers are attentively evaluating the possibility to replace plastic, in favour of renewable fibres or alternative materials. It goes without saying that across-the-board solutions do not exist; quite the contrary, each proposal needs to be adapted according to the philosophy “a container for every content”. In this case, more than ever before, personalization is the keyword.

Wherever possible, composite films or plastic trays are being replaced by mono film or cardboard. This requires new generation modular machines, based on intelligent robotics and automation, to process both traditional and new sustainable packaging.

Some solutions are already available on the market and there are companies which, showing a high degree of flexibility, have been able to offer avant-garde solutions, for instance in the ambit of sparkling beverages.



SECTORS

 PACKAGING





ages and beer, where films and plastic rings have been replaced by cardboard alternatives, and these are processed without causing delays in productivity or poorer performances. Then there are the flowpackers which process both conventional composite films, with hot-cold sealing, and recyclable or paper-based films. Here the key challenges consist in maintaining the efficiency levels of the machines, since it is certainly more complex to work with paper-based film: paper is more susceptible to tearing and wrinkling; it is stiffer and requires special attention during processing to prevent stoppages. Furthermore, it is abrasive and may therefore damage the mechanical parts of the machine in the long term. For these reasons, the latest generation flowpackers must be designed to handle such criticalities, perhaps by contemplating more resistant or protected surfaces.

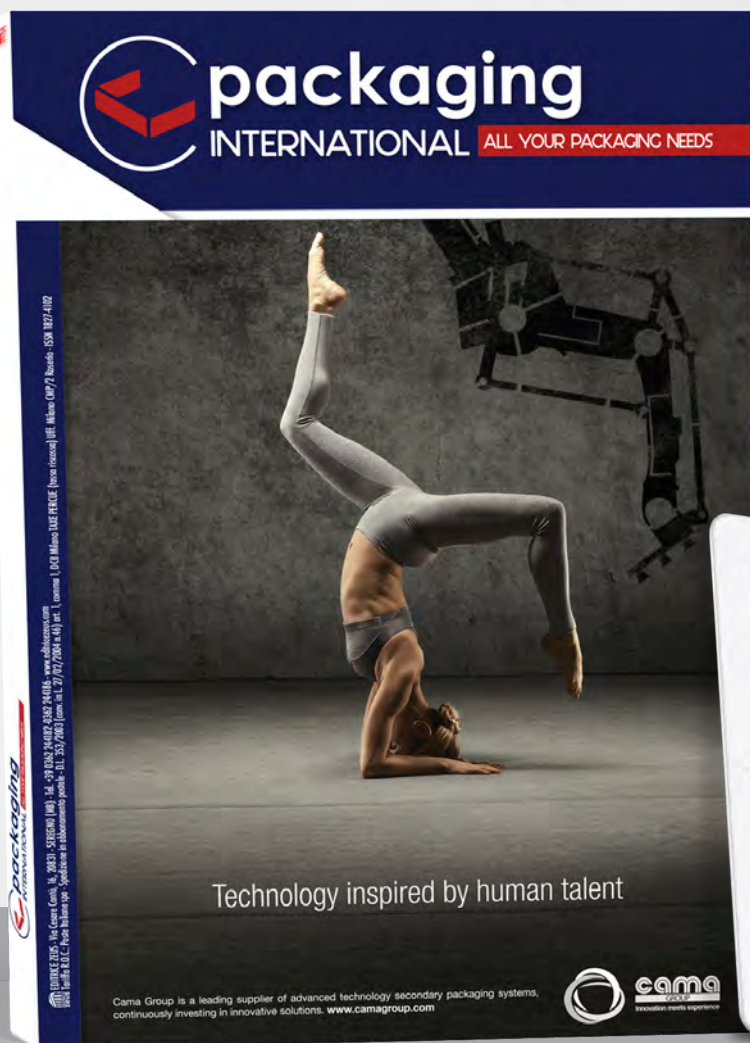
Another aspect of great significance regards the contact with foodstuffs: the more complex and perishable the food, the more difficult it is to find valid alternatives to plastic, which must be researched in the ambit of bioactive materials. In this case, one strategy consists in covering the paper utilized with safe waxes and natural proteins, and with organic-based additives. Some interesting results have emerged: on one hand, the proteins act as a barrier against oxygen, and the waxes against vapour, which prevents such foods as fruit from losing too much moisture. On the other hand, organic-based additives perform an antioxidant and antimicrobial action, which improves the preservation and shelf life of the food product. None of which prevents the paper from being collected and recycled after use.

Since sustainability is based on the 3Rs, Reduce, Reutilize and Recycle, another critical aspect is that of reducing consumption. The various solutions are aimed at reducing the quantity of plastic, whenever it is not possible to identify a substitute. Also in this respect, much has been accomplished: thanks to structural innovation, we have succeeded in using from 15 to 40% less plastic for the packaging of tomatoes, berry fruits and stone fruits. After use, these containers may be collected for recycling, destined to become raw materials for further utilizations.

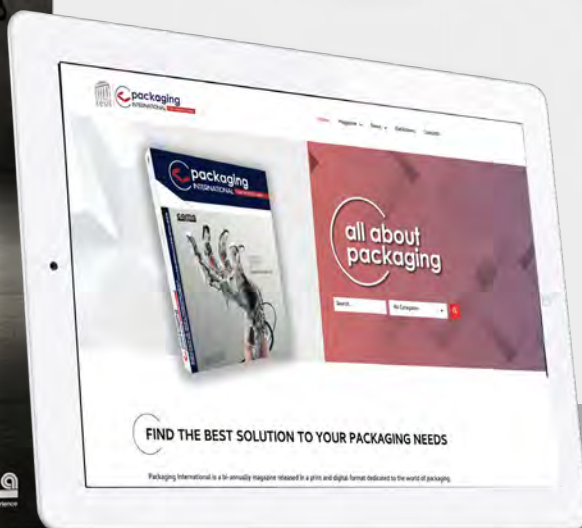
The principle governing this rising trend is that of the circular economy: the circular economy is a generic term used to define an economy that is designed to be regenerative. It is an economic system planned in such a way as to reutilize materials in subsequent production cycles, to minimize waste. To all effects and purposes, this is one of the keys to sustainability.



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and WEB PORTALS
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PACKAGING technology
for FOOD and
NON-FOOD industry**



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TUBITEX SOLUTIONS FOR FOOD FILM PRODUCERS

Tubitex is an Italian company specializing in the design and sale of industrial cardboard tubes. Established in 1976, Tubitex is among the leading European manufacturers of tubes, coils and cores in spiral and rectified cardboard for the producers of plastic food film, the paper and graphic industry, the textile sector and packaging. Its products are appreciated in Italy and throughout the world for their quality and the guarantee of high performances in the heavy and high speed windings of paper, plastic film or synthetic yarns.

Products for the food packaging sector

Tubitex addresses the food packaging sector with a wide range of plastic film tubes for fresh food packaging. The products are made of 100% recyclable cardboard and can be reused one or more times, depending on the type of use. The cardboard core material consists of 90-95% recycled fibers and 5-10% natural vegetable and inert substances, to allow their disposal together with the paper, in compliance with the optimization logic of industrial food packaging and the regulations in force concerning packaging. Tubitex cardboard cores for polypropylene, PVC, polythene and polyester films, coupled films and printed films are characterized by high wrapping speed and high mechanical resistance. These qualities make them suitable also for extreme processing. Tubitex cores are designed respecting the specific needs of the food and non-food industry, in full compliance with the sector's technical standards and the national and European health and hygiene standards.

The commitment to environmental sustainability

Over the years, Tubitex' constant commitment to technological innovation and attention to environmental sustainability have allowed it to achieve important goals in terms of energy efficiency. In 2016, the Tubitex production plant in Barbarano Vicentino (Vicenza) was equipped with a photovoltaic system capable of producing up to 785,000 kWh/year, equivalent to 68% of the company's energy needs. The use of the photovoltaic system prevents emitting





 **TUBITEX**



SECTORS

 **PACKAGING**

 **TEXTILE**

 **FOOD**





256,933 Kg of CO₂ into the atmosphere every year, and represents a fundamental step in the environmental sustainability journey undertaken by the company.

Furthermore, Tubitex is now in the final stages of a journey that has taken it, over the last decade, to evolve its own production and management processes towards more ethical and environmentally friendly standards, which will be checked and certified in the coming months according to ISO 14001:2015, with a view to embracing an increasingly eco-sustainable and informative philosophy. In addition to that, a Life Cycle Assessment process was launched, with the aim of quantifying the environmental impact of products throughout their entire lifecycle, from their use as raw material to their disposal. During this anal-






ysis, through the operational models defined by the International Organization for Standardization (ISO), the consumption of the entire life cycle of the product in terms of raw material, water and energy and of the waste generated in the environment in the form of emissions into the air, water and soil will be calculated. Based on the information collected, Tubitex will take all the necessary measures to reduce the environmental impact generated by business processes.

A customer-focused approach

From a qualitative survey conducted in 2017 by the Cerved research institute on behalf of Tubitex, it emerged that 95% of our client companies are fully satisfied with the product and service received and 72% of them would recommend our company to other people.

Among the most appreciated aspects are the high performance of the products, the flexibility in managing order changes, compliance with technical specifications and speed of delivery times.

Versatile products for different production sectors

Tubitex cardboard tubes are suitable for many uses, from the wrapping of various types of paper for the paper industry to the spools for the spinning of chemical fibers for the textile sector, from the production of labels and adhesive tapes to that of cardboard containers for the packaging industry, the graphic and paper industry. In addition to the normal spiral tubes, Tubitex produces ground cores with a smooth surface, without the undulations resulting from the matching of the finishing papers. This type of product is suitable for films with limited thickness, or in all the applications that make it necessary to rewind quickly both plastic and special films. 

www.tubitex.com



UNIFILL: A POCKET-SIZED MULTINATIONAL COMPANY

Founded in 1979, today UNIFILL is a leading company in the design and production of high-tech automated machines for primary packaging, for filling liquid and semi-dense products in single-dose packages for the food and non-food industry.

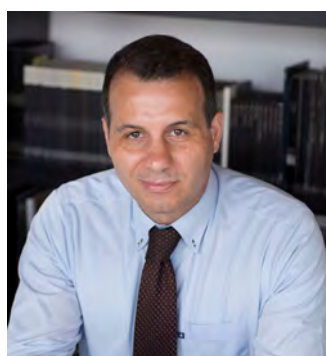
In over 40 years, we have installed almost 500 machines and developed a commercial network covering more than 52 countries. UNIFILL has its headquarters in the province of Modena, in the heart of the Packaging Valley, and has sales offices in the USA, Germany and China. That is why they like to be called a “pocket-sized multinational”.

Technology, assistance and network for an innovative and winning business model.

The Italian and European packaging industry should adopt a “collaborative” business approach to face foreign markets.

The challenge with China and the USA, leaders in manufacturing and high-tech, pushes us to raise the level of competitiveness to meet market demands in terms of product quality and reliability. UNIFILL, as an Italian company, can boast an important tradition.

The “myth” of Made in Italy is still alive, but it must be fed by constant research as it risks becoming a legend for posterity. We shouldn’t underestimate our foreign competitors. Since we are not the only ones making quality products, we must optimise our business models as much as possible and constantly invest in research to make reliable, quality, high-performance and competitive



Davide Sartini
Vice President Sales & Marketing

products, also by learning to “team-up”. We believe that the best business model is one where SMEs are urged to work together by optimising costs and enhancing sales and production networks.



I believe we are at a turning point in history.

Today it is not possible to think of a future without innovation.

Digital transformations and ecological commitments are a reality, flexible ways that can represent the ultimate solution in every field, including packaging. I’m thinking of UNIFILL Suite, a digital services platform designed for our clients and business partners, which allows users to take advantage of eight digital-related services: real-time customer support (using augmented reality), live or catch-up conferences, chat boxes, digital inquiry forms and so on.

UNIFILL Suite is QAP (Qualification Agent Program) certified and uses



UNIFILL
LEADING THERMOFORMING TECHNOLOGY



blockchain technology. 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 in history. It is no longer a question of whether or not to adhere to particular innovation processes. The point is whether we want to be spectators or protagonists.

www.unifill.it

SECTOR

✓ PHARMACEUTICAL

✓ COSMETIC

✓ FOOD



SKANTRAE DOUBLES THE CAPACITY WITH A NEW PACKAGING LINE

With a stock of 120.000 doors and an annual sale of more than 600.000 doors, Skantrae is one of the main distributors of doors in in the Netherlands. Skantrae is a Dutch distributor who recent years has had a growth in sales while it also has taken over some operations from a sister company. Annual growth in further processing of custom doors on 30-40% led to a capacity problem on the heat shrink packaging line. That was why operations manager Ruud Willemsen and production manager Peter Klomp, who are responsible for the packaging line, started up a project to find a way of optimizing the packaging. Peter Klomp tells: "At that time we could only pack 400 to 500 doors each day using the heat shrink tunnel, and that was not sufficient.

We needed to pack about 800-900 doors each day, so capacity was the main reason why we were searching for a new packaging solution".

Ruud Willemsen continues: "Actually, we were looking for a new heat shrink oven.

Then we came across the RoRo StretchPack® packaging solution from Tentoma, which we immediately could see was suitable for door packaging. We liked the idea of stretching the film to fit the door instead of applying too much film which we afterwards need to put through a heat shrink tunnel".

During the project, Skantrae had the chance to do other improvements in connection with the packaging line. Pe-

After the installation of a new RoRo StretchPack® door packaging line from Tentoma to replace a heat shrink oven, Skantrae has doubled its packaging capacity. Overtime has been eliminated, while both the working environment and packaging quality have been improved.





ter Klomp tells: “Previously each door was lifted by hand before packaging when mounting cardboard corner protection on the door. That was about 800 lifts each day. On the new packaging line from Tentoma we have a lifting table integrated into the infeed conveyor. When the door is placed on the conveyor, we just push a button to lift the door for mounting corner protection. The cardboard for corner protection was redesigned to fit the new packaging line. But actually, that meant that we could reduce the number of different cardboard sizes from 12 to just 1 size.” “It was pleasant to work together with the technical staff at Tentoma”, Ruud Willemsen says. “In principle, we were just specifying an ordinary infeed conveyor,

when somebody suggested that we should add lifting functionality into the conveyor to lift the doors.

For us, it was clear that Tentoma is an engineering-driven company that is open to finding the right solution, which fits our needs. When I think on Tentoma it is with a positive feeling.”

Bas Bosch, who deals with daily operations on the packaging line, confirms that he also has good experiences with technical support from Tentoma after the installation. “It is easy to contact the technical staff directly. If I send them a message with a technical question they usually reply within an hour. Initially, there were some commissioning problems, but Tentoma did some modifications which solved the problems. Every problem is taken seriously, and we have always found a solution. “



SECTORS

 PACKAGING




30% film savings and improved working environment

Seven months after installation, Skantrae is ready to draw some conclusions from the investment in the new RoRo StretchPack door packaging line.

Ruud Willemsen says, "I would estimate that the packaging output has increased with at least 50 to 60 % even with less labour. The old line did 60 doors per hour, and the new line packs for now 90 doors per hour, and we are still increasing that number.

Now we do not have to work overtime in the evening and at the weekend anymore when we need to pack more than five hundred doors per day. "Peter Klomp continues:" To be honest we didn't see the packaging quality as an issue on the old packaging line, but now when we compared with packaging from the new line, we are proud of the result. I would estimate that we have achieved film savings of 30% compared to our heat shrink solution." Besides cost saving, this also reduces the carbon footprint of Skantrae, just like removing heat shrink from the packaging line does.

Bas Bosch and his colleagues in the packaging department state that the new RoRo StretchPack® door packaging line has improved the working environment significantly. In particular, the lifting functionally has been well received, because the work is not so physically hard anymore. Also working next to a heat shrink oven on 160-170 degrees was not a pleasure especially not in the summer-time, but that is, fortunately, history now.



www.tentoma.com

WALKI'S NEW REEL WRAPPING PAPER, WALKI® REEL WOOD, IS ENTIRELY WOOD-BASED

With a wood-based reel wrapping paper entirely made of wood, Walki is helping the publishing industry to minimise its carbon footprint

When graphical paper for magazines is transported to the printer, the paper reels need to be protected. Walki has developed a 100% wood-based reel wrapping paper, where the protective polymer barrier is made with tall oil.

“Walki® Reel Wood is made of 100% renewable raw materials: plant-based tall oil and paper. In addition, we can potentially reduce the amount of the polymer component by more than 20%. Considering the scale of the board and paper industry, this kind of change does make a difference”, says **Carlo van Houtum**, Vice President, Sales & Marketing at Walki.

As tall oil is a side product from pulp production, no additional forest needs to be harvested to acquire it.

The Walki® Reel Wood was developed in collaboration with a customer.

Other customers have also shown a great interest in the fossil-free wrapping paper as it helps them and their customers, such as publishing houses, to reduce carbon footprint.

Walki uses the wrapping paper also for its own use in the Valkeakoski and Pietarsaari plants in Finland and in Steinfurt in Germany, in an effort to cut down on the company's own carbon footprint.

There are also plans to start using Walki® Reel Wood in Walki's UK plant in Garstang.

www.walki.com



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

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

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

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





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

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

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

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

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

SECTORS

✓ COSMETIC

✓ PRODUCTION





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

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

www.stellamariscosmetica.com



SUCCESSFUL VIRTUAL PRESENTATION OF EB SOLUTIONS FOR SUSTAINABLE AND RECYCLABLE FLEXIBLE PACKAGING

The Green Packaging Showroom, organized by leading companies of the flexible packaging industry, presented the benefits using EB printing technologies.

Approximately 1,000 people attended the Green Packaging Showroom, an event organized by Comexi and leading companies of the flexible packaging industry. The event presented the technological advantages of printing with offset or flexo Electron Beam curable inks, and its use in a wide range of flexible packaging applications.

“In partnership with SP Group, Elif, Chemosvit, Amcor, Vishal Containers, ESI, Sun Chemical, INX International, Dow, ExxonMobil, and Toray, we have shown brand owners the benefits that can be obtained by using EB printing technologies,” explains Felip Ferrer, the Offset Brand Manager of Comexi’s Printing Business Unit. “Inviting brand owners to explore the way in which sustainable

packaging can be sustainably created while adding value to their products was the objective of the Green Packaging Showroom,” highlights Jordi Puig, the Flexo Brand Manager of Comexi’s Printing Business Unit.

During the event, various partners showcased their innovative solutions and presented, with real examples of flexible packaging, sustainable trends and solutions. The benefits of EB Flexo and EB Offset printing technologies were also disclosed at the event, and issues related to print quality and energy reduction of the printing process were addressed.

These issues included EB inks, EB curing, packaging recyclability through the use of thinner films, monomaterials and reduction of layers, as well as a global scale reduction of the carbon footprint.

www.comexi.com



ALTECH - ADVANCED LABELLING TECHNOLOGIES

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

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

Its range encompasses the following products:

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

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

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

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

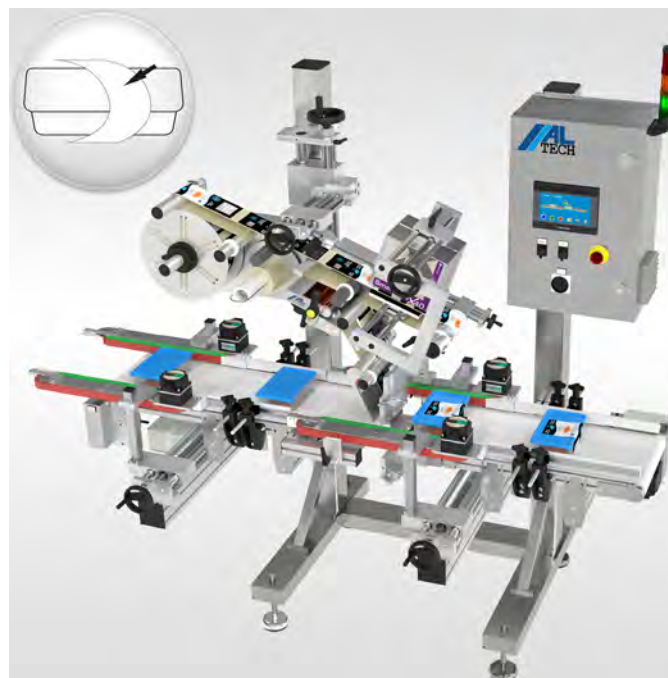
ALbelt - simplified linear system which is open, compact, and particularly economical. It can be configured for wrap-around, c-wrap, top, bottom, top and bottom, top and side labeling of various products, cylindrical or flat. It's ideal for labeling cases, boxes, trays, jars and cans.

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

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

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

www.altech.it



**AL
TECH**
Advanced Labelling Technologies

SECTORS

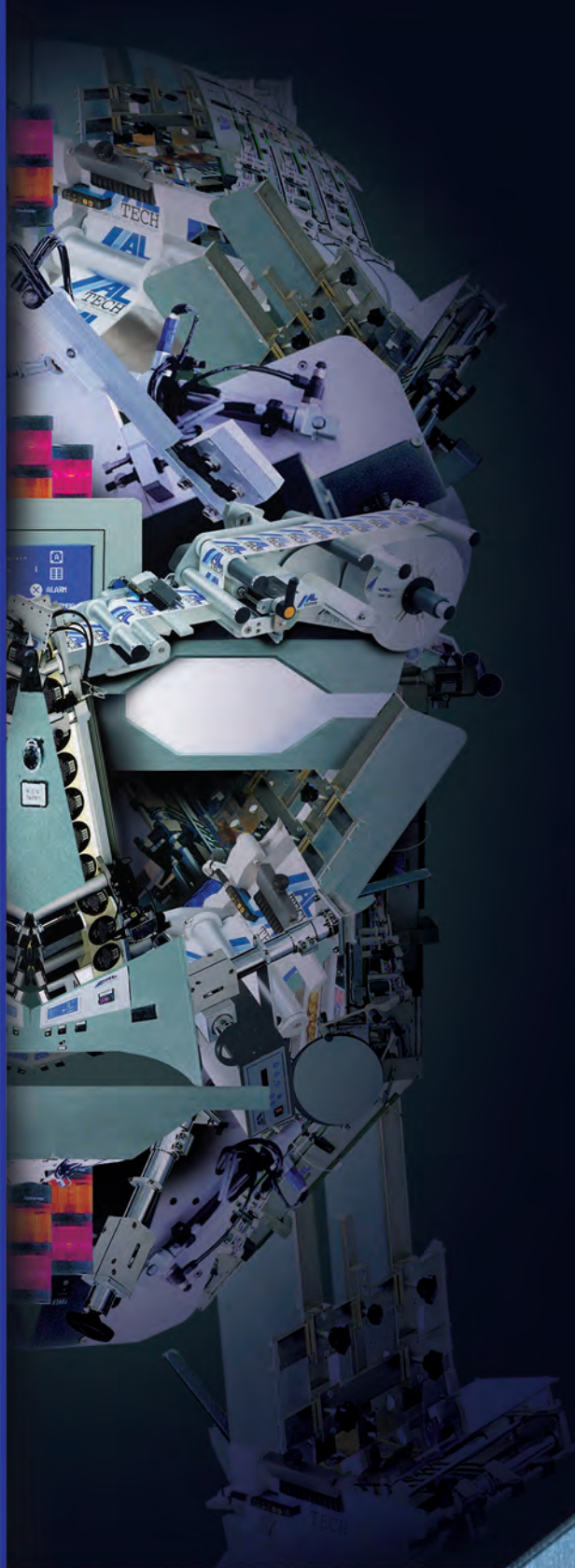
LABELLING



INDUSTRIAL LABELLING MACHINERY MADE IN ITALY



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info@altech.it
www.altech.it



POLYRETWIN, THE PACKAGING REVOLUTION IN THE PHARMACEUTICAL AND FOOD INDUSTRY

Andolfi & C. meets the needs of the pharmaceutical and food market thanks to the benefits of the ecological, recyclable and resistant Polyretwin laminated film, to be used on automated packaging machines.

In this complicated moment, the pharmaceutical and food sectors are paying increasing attention to the population's safety, hygiene and health. For this reason, they are looking for safer packaging with no risk of bacterial contamination and that can guarantee the perfect integrity of the product. The packaging has to be extremely resistant to contact and perforation and, above all, it has to have a little environmental impact.



Andolfi & C. was founded in 1961 and was one of the first companies in the Marche region to begin the transformation of polyethylene with particular attention to environmental sustainability.

This care has laid the foundations of the position it currently occupies in the flexible packaging sector. Production flexibility and specialised workforce allow the company to meet the different needs of their customers globally.





Andolfi has the answer to the demands of the pharmaceutical and food industries with 100% recyclable packaging films (as well as compostable and biodegradable films from renewable sources) offering cutting-edge technological solutions. Polyretwin is an eco-friendly recyclable laminated film that is much more resistant than polypaint with PP and PET, used on automatic packaging machines.

Polyretwin ensures better production performance in terms of sealability and packaging speed as well as a significant cost reduction of the film per linear metre. Moreover, the film can be completely neutral or customised with the company's graphics.

Andolfi's production line is equipped with modern co-extrusion systems with automatic control allowing the use of all materials in the converting sector with excellent results.

Polyretwin is the revolution in the pharmaceutical and food industry that can finally meet the demands of today's market thanks to its many advantages.

www.andolfi.it



SECTORS

✓ FOOD

✓ PHARMACEUTICAL

✓ COSMETIC



ARCA ETICHETTE: YOUR SUSTAINABLE LABEL PARTNER

For decades now, ARCA ETICHETTE has equipped its operations and dedicated itself to the cosmetics sector, as a solution provider specializing in the production of labels and self-adhesive solutions, sleeves and labeling, tracing and marking technology.

Our broad and complete range of self-adhesive solutions is produced in compliance with NBF standards, the ISO9001 certified quality system and other certifications (Ecovadis, BRCGS, UL, FSC). Roughly 40% of Arca's turnover is achieved through the cosmetics and personal care sector.

At Arca, excellence is a primary motivating factor, which is perhaps why our labels always have something extra. From the selection of materials, to testing standards, the best printing machines, automated control systems that verify 100% of the product, check lists that monitor and record checks during all stages of production and, lastly, the issuing of batches, all performed by experts attentive to every detail.

Arca makes use of the very latest generation, recently acquired, transformation technologies, including analogue (flexography, screen printing, offset and mixed techniques) and digital (offset and inkjet, as well as mixed digital-analogue techniques).

Arca has now turned its attention to sustainability and environmental issues, with all investments in the past five years aimed at improving our energy balance ecosystems. These range from structural interventions on buildings, fitted with thermal cladding, to indoor interventions that include the complete replacement of all LED lighting sources to ensure better lighting and energy savings. We have opted to source our energy 100% from sustainable sources, entirely eliminating solvents at our company site and replacing them on all printing machines with UV-LED drying systems that are more advanced, safer and provide cost savings, thus contributing enormously to energy savings and reducing CO2 impact. In particular, significant investments have also been made on digital printing technologies that bear a highly effective Green imprint (minimized waste, with ink being optimized to minimum requirements, and no plastic or metal printing systems to be disposed of at the end of production, more than halving energy consumption per unit of product). Regarding materials,





SECTORS

✓ COSMETIC

✓ PHARMACEUTICAL



Arca Etichette makes available the skill and expertise of our Technical Department to identify the materials best suited for every application and user condition. Our expertise has been developed through decades of collaboration with major material manufacturers and our trusted customers, who see in the staff at Arca Etichette a reliable partner for identifying the most suitable solutions for the labeling of cosmetic product packaging. The Systems Division at Arca Etichette can also provide the cosmetics sector with a wide-ranging portfolio of packaging and labeling systems and equipment, including traceability, marking and laser technology. Our “end-of-line” and print-apply systems are capable of meeting the world’s top production standards. Designed with all the detail and precautions that make them suitable for the cosmetic sector, the portfolio of self-adhesive label solutions

allows for any container used in the personal care market to be ‘dressed’ with innovative solutions.

A complete range of self-adhesive labels and sleeves, designed with all the precautions and detail that make them suitable for the cosmetics and personal care sector:

- for decorating all types of glass and plastic bottles, jars, airless containers and tubes
- a ‘no label look’ for maximum transparency and product enhancement
- multipage, multilayer information leaflets, for additional user instructions and communication
- multilayer solutions in a small format, allowing for labels to be “built” with pages of varying length and adapting to small diameter containers, for 3, 5, 7, 9 and 11 page formats
- promotional multipage and coupon solutions for conveying contests and promotions of various kinds
- our Anti-Counterfeit, Securlabel® range (serialized labels, using special high security inks that are detectable via inspections)
- the Anti-Violation, Securlabel® range (patented Wipe-Out® seal solutions and combinations of special materials)
- tactile warning labels incorporating an embossed effect for the visually impaired (Braille)
- neutral labels for logistics and T.T. and ribbon printers allowing customers to customize labels with variable data.



Arca Etichette also makes available to customers the extensive knowledge of its highly skilled staff, lending their expertise in evaluating customized solutions for eco-sustainable materials that are compatible with recycling and the environment, in an ongoing search for sustainable materials. Our product line includes extremely innovative materials that are FSC certified, of Bio origin and compostable, with covers produced using renewable sources such as corn starch, wheat fats and oils, including certified Bonsucro resins.

www.arcaetichette.it



DOMINIONI: PRODUCTS FOR ANY REQUIREMENT

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



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

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

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

- metallic
- fluorescent

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

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

www.dominionisrl.it



SECTORS

✓ COSMETIC

✓ DIFFERENT ITEMS

BEUMER DELIVERS TEN HIGH-CAPACITY PACKAGING SYSTEMS TO SPANISH OIL COMPANY

Spanish oil company relies on ten high-capacity packaging systems of the BEUMER stretch hood A series for petrochemical pellets

For decades, a Spanish oil company relied on the shrinking method to wrap in film the palletised PE bags filled with petrochemical pellets, but some of the systems were now up to 30 years old. They no longer met the currently required safety standards with regard to both operation and maintenance. Therefore, the company entrusted BEUMER Group with the installation of ten high-capacity packaging systems from the BEUMER stretch hood A series. Within six months, the system provider supplied them to each of the company's plant sites and integrated them into the already existing palletising and packaging lines. The machines meet the high safety requirements and are also energy efficient.

One of the major European players in the petrochemical business is situated in Spain and produces more than six million tons of chemicals per year. Two of its manufacturing facilities are located in Spain, one in Portugal. After production, the petrochemical pellets are filled in big bags, octabins or 25 kilogram PE bags and then delivered to customers.

These bags are palletised and wrapped in film to protect them against environmental impacts and dust. For this purpose, the plants have been using the shrinking method since the 1980s.

"The machines worked reliably, but had already been in operation for 20 to 30 years," describes the purchasing manager. "In the meantime, various problems arose that had nothing to do with the machines, but with the technology", because the heat required for the shrinking method is generated by these machines using gas or electric power. The open flame repeatedly caused small burns on the film. Thus the pellets often melted with the film. The continuous fire hazard implied higher insurance rates and



the aging systems had to be maintained frequently. This was expensive and, due to the gas pipes, dangerous for our service technicians. In addition, the energy consumption of the systems in operation was high, and it became more and more difficult to get spare parts on the market.

"We were searching for an economic and above all safe packaging system that could be maintained easily and efficiently", says the project manager of one of the Spanish plants. The shrink systems that had been in use until then had been supplied decades ago by BEUMER Group, among others.

Therefore this time, the responsible persons also turned to the single-source provider for packaging lines from Beckum. "Our customer was looking for a manufacturer with high quality standard, many years of experience, high reliability and world-wide references", says Plácido Valle Santafosta, sales engineer at BEUMER Group in Barcelona. In the tender process, the system provider was awarded the contract to supply systems for one of the Spanish plants, and in August 2019 to supply further machines for the other plant - a total of ten packaging systems. Both companies quickly agreed on the scope and schedule and the project was ready to begin.

Stretch film - the economical alternative

Stretch hooding should now be used instead of the shrinking method. "This packaging solution does not require the use of heat; this prevents the film from sticking to the product during the process", explains the project manager.



SECTORS



PACKAGING



AUTOMATION



FOOD

The easy, intuitive and reliable operation of the new BEUMER stretch hood A is especially appealing to customers



er. In order to guarantee protection during transport and load stability, the stretch film adapts to any product that is stacked on the pallet. The film is very stretchable and its contracting forces keep the goods tight together. The development in film production is advancing steadily. Thus, more and more stable stretch films are available on the market, and since these films can also be produced in increasingly thinner layers, this in turn saves material. In the future, stretch films will be increasingly used for this purpose. For reasons of sustainability, these stretch films contain increasing amounts of recycled material and increasingly consist of bioplastics.

Stretch hooding has the ability to package the pallet for high-bay storage systems, with understretch or with different base reinforcements. Thanks to the high transparency of the stretch film, the packed goods are clearly visible. And the barcodes on the bags can be scanned quickly and consistently. Logos and text can also be printed on the film to be used as an advertising medium. A flat film placed on the pallet offers additional protection against external influences on all six sides of the stacked pellets. This ensures that the bags filled with pellets are protected reliably against environmental influences such as sunlight, dirt, and humidity during transshipment and outside storage. "This was very important to the responsible persons since they have to transport the goods safely and in perfect condition to the customers", says Valle Santafosta, sales engineer at

BEUMER. In addition, the stretch film keeps the bags tightly on the pallet, preventing them from slipping.

BEUMER stretch hood: the right machine

The BEUMER stretch hood A is very energy efficient: A film transport system, which is particularly gentle on the material, introduces the previously cut and sealed film hood into the system. On its way to the crimping and stretching unit, the sealing seam on the film hood cools down so that it can be crimped without losing time. This allows for the elimination of energy-consuming cooling and efficiency-reducing cooling times. This way the pallets can be packaged at a high bag sequencing.

In order to facilitate the work for the maintenance personnel and to ensure high system availability, the new packaging system was designed without a platform. Maintenance work, such as changing the blades or the sealing bars, is handled at the floor level. Additional benefits include the compact design and the resulting low height and small footprint. "We have equipped this line with the BEUMER Human Machine Interface, which makes it easy and simple to operate", says Valle Santafosta. "The operators are provided with an easily understandable and intuitive interaction concept, enabling them to define the same efficient working sequences for all machines." Displays help visualise how and where to make the necessary settings. The user can for example call up video sequences that show the changing of the film roll and the film knife. For other set-up work, the operator panel includes graphics and step-by-step instructions.

Rapid project phases

"In winter, we supplied the first two BEUMER stretch hood packaging systems to the Spanish plant, a few weeks later two additional ones", reports Valle Santafosta. Installation took place in autumn. BEUMER Group also delivered two packaging systems to the other Spanish plant in winter and two further ones in August. Some of the systems are equipped with roller conveyors for the pallet transport system.

When being asked what the largest challenge of this project was, Valle Santafosta reflects for a moment. "For one, the short delivery period of only six months. In addition, the period for commissioning is fixed and cannot be extended, otherwise operation would be stopped for too long." Furthermore, the machines have to be integrated in the existing packaging lines. This involves combining the latest safety standards of the BEUMER stretch hood with the safety levels of the existing systems. But we have a lot of experience in this," emphasizes Valle Santafosta. "We solve this with separate safety circuits."

www.beumer.com



Plácido José Valle Santafosta, BEUMER Group: "Our customer was searching for a manufacturer with high quality standard, many years of experience, high reliability and world-wide references."



LANTECH INTRODUCES THE 1ST SMART SEMI-AUTOMATIC STRETCH WRAPPER

As the inventor of the stretch wrapper with over 45 years of knowledge and experience in the further development of pallet wrapping technology, Lantech has expanded its semi-automatic stretch wrapper program with the smart and intuitive QL400 stretch wrapper.

As easy as operating your smartphone, you can adjust this machine once only to various common loads.

Using Lantech's patented 'Load Guardian' control system, the QL400 delivers ship-safe loads time after time, with minimal operator intervention. The smart set-up assistant intuitively guides the operator in creating load profiles via recognizable icons, which calculate the correct wrap force.

The one-off set-up via these wrap apps means that the operator never has to adjust the machine for common loading applications again, thanks to the pre-set but adjustable wrapping profile settings.

The smart screen on the machine provides simple instructions via video and text for troubleshooting pallet wrapping: film tears, crushed products, twisted loads, etc.

Also available are production reports, advanced diagnostic data, Productivity Tables and fault overview.

Invest less than 10 minutes of your precious time and watch the QL400 web class, to discover how the QL400 series can help you save labour costs and prevent damage to your valuable products, or find more information on our website.

www.lantech.com



ANICO'S PACKAGING PRODUCTION

Edoardo Donati, Anico's General Manager for more than twenty years, explains here below the process and stages of packaging production.

What do your clients ask you for?
"Sustainability and green", every business deal starts from these words.

Those who do not take care of this will never be our customers and will continue to pack in film. But "no problem. There is room for everyone".

We have been making paper packaging for 33 years and in the past we were even demonized "do you remember the wars against the use of paper and the problem of deforestation?"

Nowadays instead, everyone has realized that everything which is made of paper is beautiful because it is recyclable and sustainable: we have been saying this for ages and finally the facts support us.

How do you produce the packaging and for which types of products?

For us at Anico, the starting points are the customer's request and need.

It is important to create a synergy between food producer and packaging manufacturer.

"We create packaging for famous brands of coffee, pasta, biscuits, bakery, pet food, caster and icing sugar, yeast, spices and pizza bases. We also make packaging for frozen food. Therefore, it is obvious that each type of product must have the most suitable packaging for perfect preservation over time and storage".

Is packaging production a teamwork?

The origin of a new packaging can start with:

- a first contact with our sales managers
- strong sales relationships
- long-standing and established practices with customers.



In particular, Edoardo continues:

"The new customer, after setting out his specific requirements, sends the chosen artwork to our technical department, which verifies the characteristics, optimization and feasibility.

We can propose the most suitable and customized solutions for the realization of the artwork, for the choice of packaging shape (reels, square-bottom bags or doypacks) and ecological and recyclable materials, because we are specialists in flexo printing on 100% Eco paper".

"We have developed the company with major investments in Industry 4.0," says Edoardo, but he continues, "in the packaging production phase, our highly qualified personnel is the primary resource.

What are the production steps?

The most complicated part "occurs when we have to set the parameters for a new project but, thanks to our technical department and the know-how of our sales team, we are now



able to really make any type of paper packaging: please note that we have been dealing with paper for 33 years, so for us paper packaging is not the temporary novelty to be followed in an ecological point of view, but it stands like a must and we know everything about it!"

"Once it has been defined how the packaging should be designed, its shape and the materials to be used, the packaging production steps are actually quite simple".

Production of special packaging

According to us, it is essential the relationship with the customer and the evaluation with him of the best way to package his product and "dress" the packaging with the most effective and attractive artwork.

If he has to supply his private label product to the large-scale retail trade (GDO), we will be able to respond with our packaging to the characteristics required by the GDO chains.

"In our continuous research for product innovation and in order to meet the many customer demands, we have also created 100% paper bags, perfectly sealed.

The novelty of this second half of the year is the packaging for frozen food. Our studies and researches have also enabled us to replace aluminum with paper for the lids of cups containing

yoghurt or similar liquid foods.

Ours is not a job, ours is a mission, a small contribution to save the planet".

The sensitivity for green items is increasing at all levels, even in pet food, where we are already offering the right solutions, and our little friends thank us!"

www.anico.it

SECTORS

 **PACKAGING**

 **FLEXOGRAPHIC
PRINTING**





SECTORS

- ✓ COSMETIC
- ✓ PHARMACEUTICAL
- ✓ FOOD





thermal-inkjet, markem-imaje and Keyence, thermal transfer printers for CAB and NOVEXX labels, label editors such as Codesoft and NiceLabel, and customisable solutions.

Recently, the world of cosmetics, like many other sectors, has turned to green to reduce pollutants. In collaboration with some partners, the company has developed the Flowpack product range, suitable for the use of cellulose packaging, which provides our customers with Home&Industry compostable BioPlastic films in compliance with the EN13432 standard.

In 2021 the company will attend COSMOPROF from 18th to 22nd March, exhibiting the latest DLM labelling solutions for cosmetics, including the Flowpack BioPlastic Ready and the "Home&Industry" compostable BioPlastic films.

deltaservicesrl.com





THE **PUMA** MANIFESTO

working together to the end of packaging as
an environmental issue worldwide





THE PUMA MANIFESTO

WHAT IS PUMA?

PUMA is the collective effort of the packaging business community to end packaging as an environmental issue worldwide.

WHAT IS PACKAGING?

Packaging is the activity of temporarily integrating an external function and a product to enable the use of the product.



Waste essentially is an unwanted by-product of a (manufacturing) process



WHAT IS NVC?

NVC Netherlands Packaging Centre was established in 1953 to stimulate the knowledge and expertise in packaging. Since then, we have grown into an association with over 500 member companies in the Netherlands and abroad. The packing-filling (FMCG) industry, packaging manufacturers, retailers, manufacturers of packaging machines, wholesalers, recyclers, designers, even a number of financial institutions: they all are members of the large and vital NVC business family. The NVC membership, innovation projects (like PUMA), information services and education programme stimulate the continuous improvement of packaging worldwide.

WHEN IS PACKAGING AN ENVIRONMENTAL ISSUE?

Environmental issues are harmful effects of human activity on the biophysical environment. Waste essentially is an unwanted by-product of a (manufacturing) process. The activity of packaging creates environmental issues when the resources involved, either wanted or unwanted ('waste'), constitute an environmental issue.



Environmental (planetary) problems caused by us, People, can – and will – also be solved by us, People



WHY DO WE HAVE TO ACT NOW?

Packaging has been with mankind already since ancient times in some moderate form, but the 20th century has brought a dramatic acceleration. The world 'does it' now at least 320,000 times per second and this is causing substantial environmental concerns. Packaging will only keep it's societal licence to operate if these concerns are properly addressed.

ABOUT THE MANIFESTO

This Manifesto outlines the way forward to end packaging as an environmental issue worldwide. It consists of the PUMA Model to describe the essentials of the packaging activity and its relation with the resources involved. A conceptual roadmap is presented to be applied by every individual actor and the world packaging community as a whole in a self-organising manner. Key elements are open-minded sharing of reliable information, continuous knowledge development and truly holistic innovation. Environmental planetary problems caused by us, People can – and will - also be solved by us, People.



Packaging will only keep it's societal licence to operate if the environmental concerns are properly addressed



THE PUMA MODEL

THE VOCABULARY

First, PUMA defines the activity of packaging: temporarily integrating an external function and a product to enable the use of the product. There is no Law prescribing that we must do it (packaging). For instance in recorded music, streaming services like Spotify show that we can live without. If we decide to engage in the activity of packaging, the pack-use-empty (verb) spiral P-U-E is a consequence. This results in emptied packs later in time and at a different location. Waste is defined as an un-wanted effect of a (human) activity. Consequently a collect-control step must be built-in, followed by a postulated backend (BE) process step. Mirror-wise, a frontend (FE) step is required to obtain the necessary packaging materials. Philosophically and thermodynamically and in terms of information science, the situation at the backend is fundamentally different from that at the frontend. Both processes may be described in terms of converting, though.



Holistic innovation is needed as we are all interconnected in packaging



ADDRESSING THE ENVIRONMENTAL ISSUES

Environmental issues may come and go, depending on the many different interactions between our human activity and planet earth. Whereas the PUMA model remains unchanged, its application to environmental issues may vary in the course of time. In this first edition of the PUMA Manifesto we focus on litter, CO₂, and (inadequate) pack optimisation. These three issues are deemed to be the most important in the current environmental packaging debate. The resulting table serves as the basis for addressing (future) environmental issues adequately.



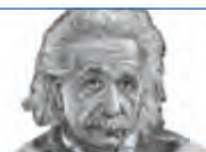
	FE	P-U-E	C-C	BE
Litter			✓	
CO ₂	✓			✓
Inadequate pack optimisation Product Packaging material + Total environmental impact				
Future issues	✓	✓	✓	✓



SUPPORTING PUMA



Success comes from deeper understanding and supplementing earlier insights



I SUPPORT THE PUMA MANIFESTO AND HEREBY PLEDGE TO:

- ✓ Reference the PUMA Model as an insightful source to address the activity of packaging worldwide
- ✓ Apply the vocabulary as used in the PUMA Model and positively contribute to possible improvements
- ✓ Contribute to the PUMA annual plenary meetings to the best of my capabilities
- ✓ Make my decisions and base my opinions on the state-of-the-art in packaging (i.e. on reliable, verifiable and up-to-date information) and using all information and knowledge that is brought to my attention
- ✓ Stimulate continuous education and training of those with a responsibility within the activity of packaging
- ✓ Contribute to helping facilitate all phases of PUMA (FE, P-U-E, C-C, BE)



*Everything flows and so does the activity of packaging;
we can put a clock back, but not the time*



MY DETAILS:

Company name

Initials and surname

Date of birth

Address

Phone

E-mail

For an overview of recent references and background information worldwide please visit www.nvc.nl/puma





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FORMAT CHANGEOVERS FOR INSPECTION UNITS IN BOTTLING PLANTS

Into state-of-the-art bottling plants hygiene and efficiency are key words. The example of bottle inspection machines makes this particularly clear. The Linatronic 735 made by the bottling specialist Krones AG, monitors washed reusable bottles for dirt and damage optimizing speed and set-up time.

Reusing bottles should not mean compromising on the hygiene and proper condition of the bottles! At the same time, this requires a high level of flexibility as the bottle inspector must be capable of monitoring a wide range of bottle formats. For the operating manager, a hygienic design that can be adjusted automatically at the touch of a button to different bottle types equates to reproducibility and efficiency!

At the headquarters of Krones AG in Neu-Traubling, Germany, Mr Rudolf Fiegler, Head of Product Management for Inspection Technology, explains what flexibility means in practice to machinery and plant designers. The key is to be able to guide a wide variety of bottle formats safely through the inspection line at high speed (up to 72,000 bottles per hour). Glass bottles have tolerances of up to 7 mm so the bottles are guided by belts on both sides.

When the bottle format is changed, e.g. from a rotund to a thin bottle, the position of the belts must be changed using a positioning system. In order to prevent tilting, this must be performed simultaneously and synchronized for both belts by two positioning units.

Changing the belt position, however, is just the beginning: The bottle inspector contains a number of different inspection systems, which must be adjusted to the new bottle format. In Linatronic's plants several sensors and cameras are used to detect rust, residual liquids, thread damages. Krones AG uses PSE positioning systems from halstrup-walcher to make these positional adjustments as well.





SECTOR

✓ BOTTLING

✓ PLANTS

✓ FOOD



PSE positioning systems offer a very wide range of solution integrating into a compact design gear, motor, absolute encoder, drive. They are very easy to mount in place of an handwheel or other manual adjustments.

Thorsten Gut, Product Manager at Krones AG explains that between other features Krones AG, for this application choses halstrup-walcher PSE positioning systems because of the advantages of its absolute encoder (which the positioning system uses to measure its actual position) that ensures precision and safety even in the event of a power failure. An important role is played also from the strong “breakaway torque“, which is significantly higher than the nominal torque allowing the system to start up again after longer interruptions and be repositioned. Moreover without changing mechanical design is possible to select between 10 different buses and solutions with different hygienic standard. This flexibility helps to satisfy different applications and markets

Manual position adjustment is no longer convenient to automatic format adjustment with PSE. Thorsten Gut, Product Manager: “This prevents the machine operator making individual adjustments to the positions. It also reduces training costs and the workload for operating personnel as the new format is set ‘at the touch of a button’ rather than by a manual intervention, that requires instruction. This is critical as these plants are in operation around the world in countries with widely differing levels of training and education.”



The plant construction specialist Krones AG is well known for its turnkey plants and systems covering every aspect of bottling. And for its comprehensive world-wide service. Rudolf Fiegler, Head of Product Management for Inspection Technology at Krones: “Today, it is more important than ever that plants are highly available and standstills can be prevented in advance – both through on-site and remote maintenance. The PSE positioning systems we use constantly monitor themselves – in other words, they offer condition monitoring. This enables us to perform maintenance before problems arise (e.g. if a spindle becomes dirty) and significantly improves the availability of the plant.”

www.halstrup-walcher.com

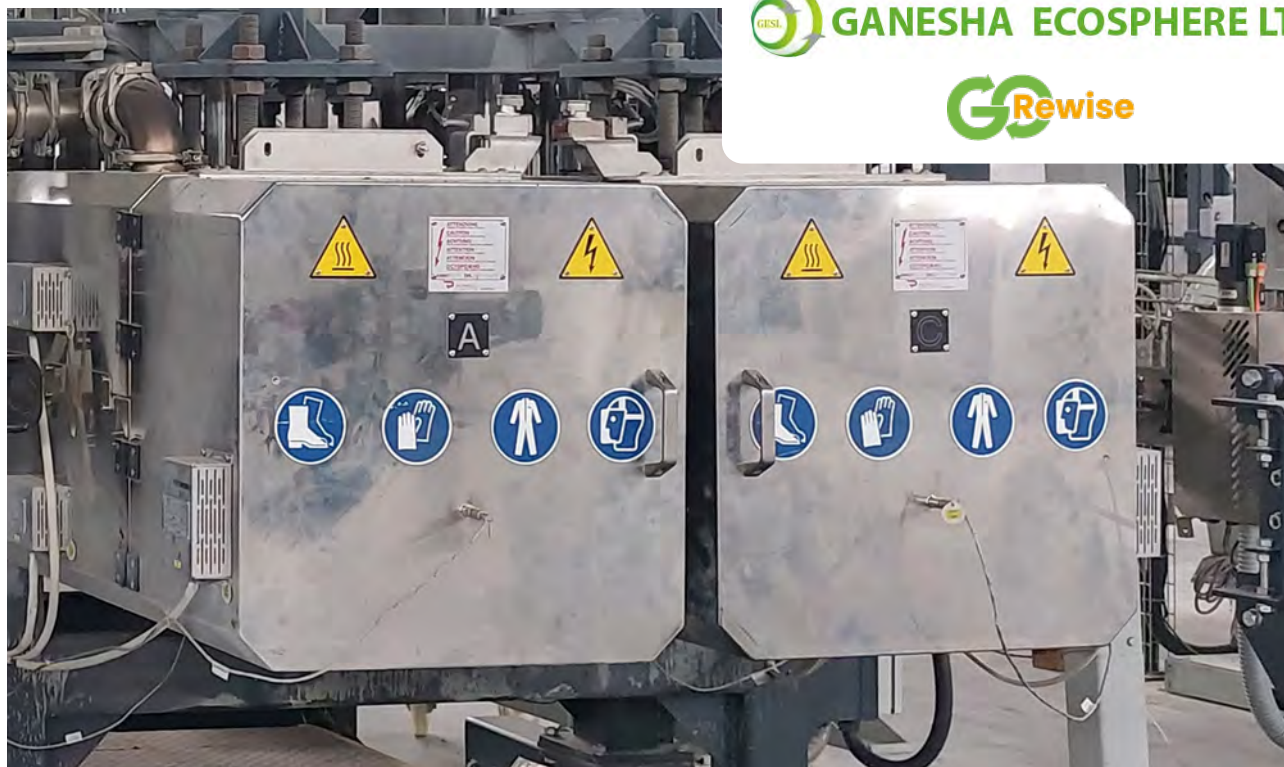


BOTTLE-TO-FIBRE AND BOTTLE-TO-BOTTLE:

Two Starlinger PET recycling lines for Indian recycling brand Go Rewise

 **GANESHA ECOSPHERE LTD.**

 **Go Rewise**



The RSC filter is a candle filter which Starlinger has developed especially for fibre and yarn applications. It ensures finest melt filtration down to 15 µm which is crucial in order to meet the quality requirements for polyester fibre production.
©Starlinger

Ganisha Ecopet Private Limited, a subsidiary of Indian PET recycling pioneer Ganisha Ecosphere Ltd., has recently opened its new Warangal facility under the brand name Go Rewise where it produces rPET for filament yarns and fibres, as well as for food-grade packaging. The company has installed two Starlinger PET recycling lines in its facility in Warangal, Telangana state. Ganisha Ecopet plans to supply the produced rPET granulates under its newly introduced brand enterprise Go Rewise. Launched under the umbrella of one of India's rPET industry leaders, Go Rewise is committed to supplying highest quality rPET products that are produced in a resource-efficient process.

rPET for fibre applications

The first Starlinger recycling line, a recoSTAR PET 165 H-VAC,

SECTORS

 **RECYCLING**

 **BOTTLE-TO-FIBRE**

 **BOTTLE-TO-BOTTLE**

processes washed PET bottle flakes for the Go Rewrite polyester filament yarn applications and reaches an output of approx. 14,000 tons per year. When using recycled PET for filament yarn production, it must meet highest quality standards. Thus, all foreign particles and polymers have to be removed before the extrusion process. To achieve optimum melt purity for extrusion, Starlinger has developed a special candle filter for fibre applications, called Rapid Sleeve Changer (RSC). It ensures finest melt filtration down to 15 µm and achieves a throughput of up to 2000 kg per hour. The filter elements can be changed without interrupting production, which significantly reduces melt loss and machine downtime.

Going food-grade

With the second Starlinger recycling line, Ganesha is producing food-grade rPET resins. “Through venturing into bottle-to-bottle recycling we want to close the loop and move from secondary recycling into primary recycling”, said Prashant Khandelwal, Senior Vice President of Go Rewrite. “Bottle-to-bottle recycling reduces the need for virgin plastic and thus substantially decreases the plastic burden on the planet. It also uses approximately 80 % less resources – water, energy, et cetera – for producing a new bottle than it is the case with virgin resin. Earlier, brand owners used to be apprehensive about including rPET in their packaging product, but with the emergence of new technologies and strict regulations by governments the demand for rPET is increasing very fast.” The Starlinger recoSTAR PET 165 HC IV+ bottle-to-bottle recycling system installed at Ganesha’s Go Rewrite facility features an SSP (solid state polycondensation) reactor for food-grade decontamination of the produced rPET pellets. A positive EFSA opinion for the process has been issued end of June 2022. The line has taken up production in July 2022 and has an output of up to 1,800 kg of recycled PET pellets per hour. The food-safe rPET is supplied to environment-conscious and quality-focused brands which use it in their brand packaging. Khandelwal describes the special challenges the company is facing with regard to food-grade applications: “Raw material quality is highly variable, especially in India. The scrap has all kinds of impurities and every batch that enters the factory is different. It has taken us 30 years to understand and master the art of handling such waste. With the world’s best technologies, we can now achieve the quality needed for food-grade applications.”

With the new PET bottle-to-bottle recycling plant, Go Rewrite ranks among the first recycled PET brands in India to provide food-grade rPET for the local and international packaging market. According to Khandelwal, the high acceptability by brand owners was one of the reasons Ganesha opted for Starlinger technology. “Starlinger’s PET recycling technology has received several Letters of Non-Objection from the US FDA as well as positive opinions of Europe’s EFSA for food-grade applications and is already well known among brand owners. The proven Starlinger quality, equipment reliability



Go Rewrite supplies the food-grade rPET to environment-conscious and quality-focused brands. ©Starlinger

and technology standard, as well as efficient resource consumption while delivering best quality output were additional points”, he stated. With both new Starlinger lines operational, the rPET production capacity of Ganesha’s Go Rewrite facility currently reaches 40,000 tons per year. Ganesha Ecosphere has a remarkable history in PET recycling”, said Paul Niede, Commercial Head of Starlinger recycling technology. “The company’s founder Shyam Sunder Sharmma recognised the big potential that used PET bottles provide as a secondary resource at a remarkably early stage, making the company a trailblazer for bottle-to-fibre and now bottle-to-bottle applications. We feel proud to support Ganesha Ecosphere in reducing plastic waste and establishing a closed loop for PET bottle waste in India, a country with great potential in this sector.”

A PET recycling pioneer

Ganesha Ecosphere looks back on 30 years of experience in the PET recycling business and can be considered a role model regarding sustainable business activities.

Founded in 1987, the company started out as a yarn processing facility. It was among the first companies in India to start reprocessing PET waste to manufacture recycled polyester staple fibre (RPSF) and recycled polyester spun yarns (RPSY) in 1994. By today, the group has established a large network of over 300 scrap vendors located across the country and operates four factories in India – two in Uttar Pradesh, one in Uttarakhand, and the recently opened one in Telangana. It also recently operationalised its first factory outside India in Nepal. With over 500 customers and exports to more than 18 countries, the company ranks among the largest rPET producers in India with 130,000 tonnes per year and currently recycles around 16 – 18 % of India’s total PET waste.

www.ganeshaeosphere.com - www.gorewise.com



Pharma 4.0 with intelligent size changeover

SIKO presents solutions for optimized size changes

“Size changeover” is not necessarily a term that immediately makes people stop and pay attention in the pharmaceutical industry. However, considering the challenges in pharmaceutical manufacturing, which are characterized by cost and competitive pressure as well as strict regulations, intelligent size changeover means competitive advantages in terms of efficiency, product quality and process reliability. With automated, networked solutions, pharmaceutical companies can take a decisive step towards Pharma 4.0.

In the pharmaceutical industry, the concept of centerlining is relevant, which means that the optimum machine

settings must always be selected in order to prevent unnecessary deviations in the process and thus a reduction in product quality. The aim is to network manufacturing, technology, maintenance and electronic data acquisition in the best possible way in order to make optimum use of plant efficiency. In addition, the growing variety of products and ever smaller batch sizes in pharmaceutical manufacturing demand a high degree of flexibility from the systems. This is where size changeover comes into play, which can be a decisive factor when it comes to system availability. With optimized size changeover, reconfiguration times for product changes can be significantly reduced and process reliability increased. SIKO GmbH, manufacturer of sensors and positioning systems, has introduced various options for size changeover, from purely mechanical position indicators to fully automated positioning drives.

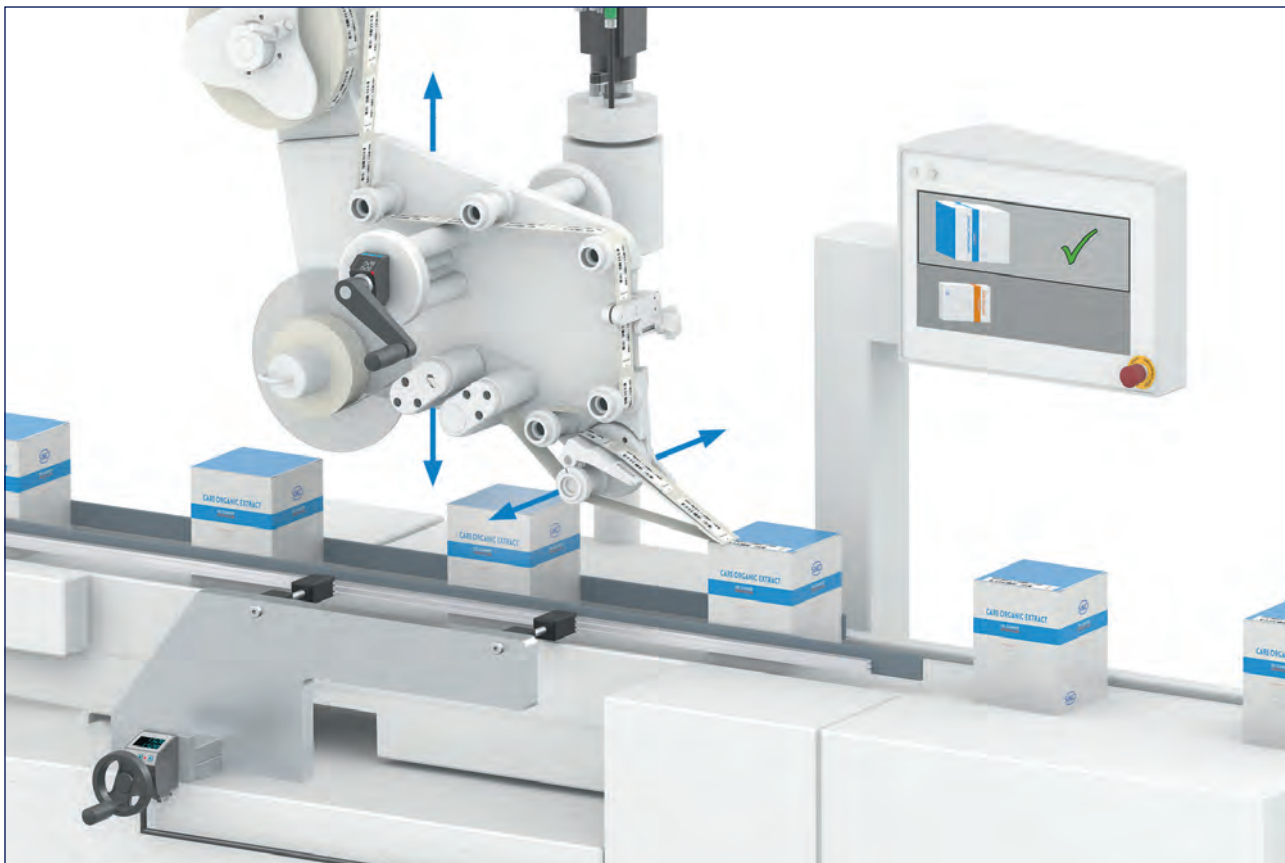


Figure 1: Size changeover using a labeling machine in pharmaceutical manufacturing





Benefits of optimized size changeover

In pharmaceutical manufacturing, size changeover takes place everywhere, especially in packaging processes, labeling and product inspections. Whenever the dimensions on the machine have to be changed for a new product, this involves size changeovers – whether manually via a crank or automatically via an actuator.

Always exercise caution when changing the machine settings, as errors can creep in and have a negative effect on the product result. Monitored or even automated size changeover minimizes the risk of incorrect settings and can make processes more flexible. The advantages of optimized size changeover are as follows:

- high repeatability, meaning that drugs are always manu-

factured using the same form and quality

- faster reconfiguration times and thus an increase in process speed
- an increase in efficiency and a reduction in costs
- an increase in process reliability, which is a decisive criterion in pharmaceutical manufacturing

A distinction is made between manual, monitored and automated size changeovers. Which type of format change is most suitable depends on the requirements: the more sizes need to be changed over and the more demanding manufacturing is from a quality perspective – which is usually the case in the pharmaceutical sector – the more sensible it is to use monitored or automated positioning systems.

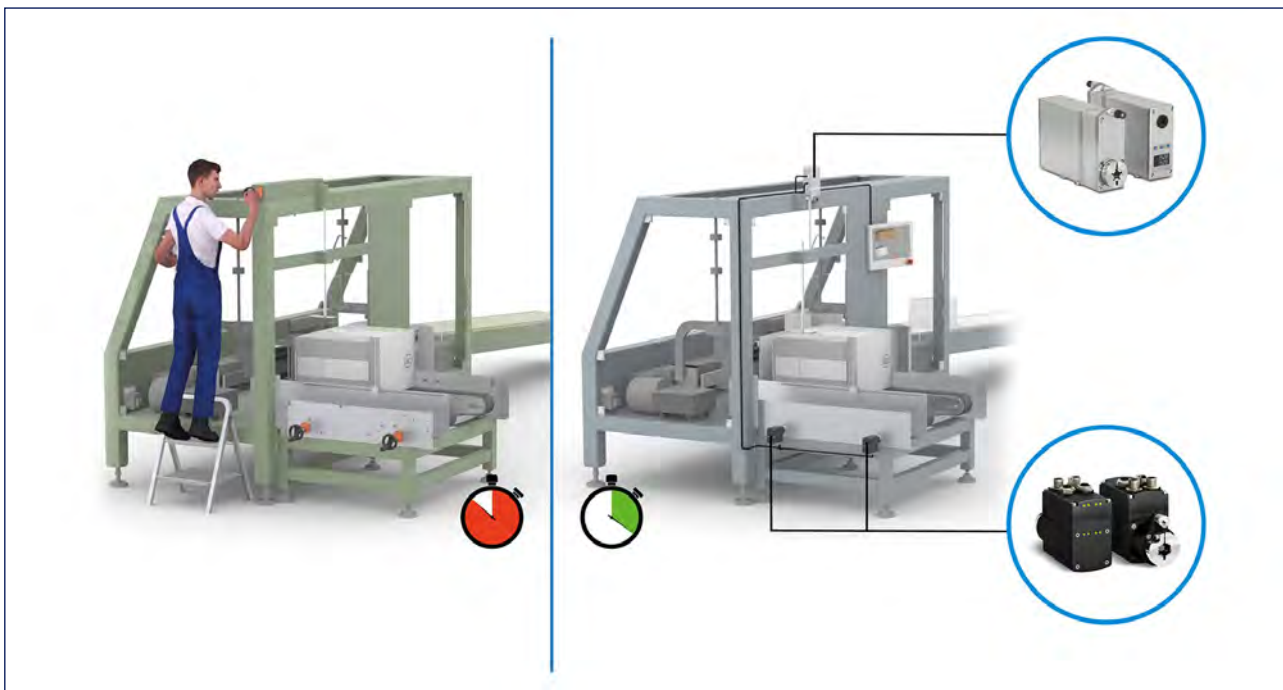


Figure 2: Time saving comparison, manual versus fully automated size changeover on a carton erector

Manual size changeover

For manual size changeover, both mechanical and electronic position indicators are used, which indicate the actual value of the current position. They are suitable for basic machines with rather infrequent adjustments. The common mechanical-digital SIKO position indicators are very precise, easy to read and are configured specifically for each application.

Electronic position indicators have an advantage over mechanical ones in that they are freely programmable and can therefore be used with greater flexibility. Parameters such as spindle pitch, decimal places, direction of rotation, mounting position or use in angle mode can be conveniently configured. Practical: Mechanical and electronic vari-

ants are compatible for installation, so that reconfiguration or expansion is not problematic.

Monitored size changeover

Monitored size changeover is made possible by bus-compatible electronic position indicators with setpoint value specifications, which are integrated into the machine control system. Actual and target values are exchanged and compared between the individual position indicators and the higher-level control unit with the aid of a formula management system in which all product variants are stored with their setpoint values as formulas. This enables increased process reliability, as the system is only restarted when all setpoint and actual values on the indicators





match. Rejects or damage to system parts are thus avoided. The changeover of the axes is still carried out manually with this variant, whereas the monitoring of the correct settings is carried out electronically. The special feature of the electronic position indicators are the LED lights which

clearly display the position status to the operator: Green lights for "position correct", red lights signal "position not correct". In addition, the display includes an integrated arrow direction indicator, which indicates in which direction the changeover has to be made.

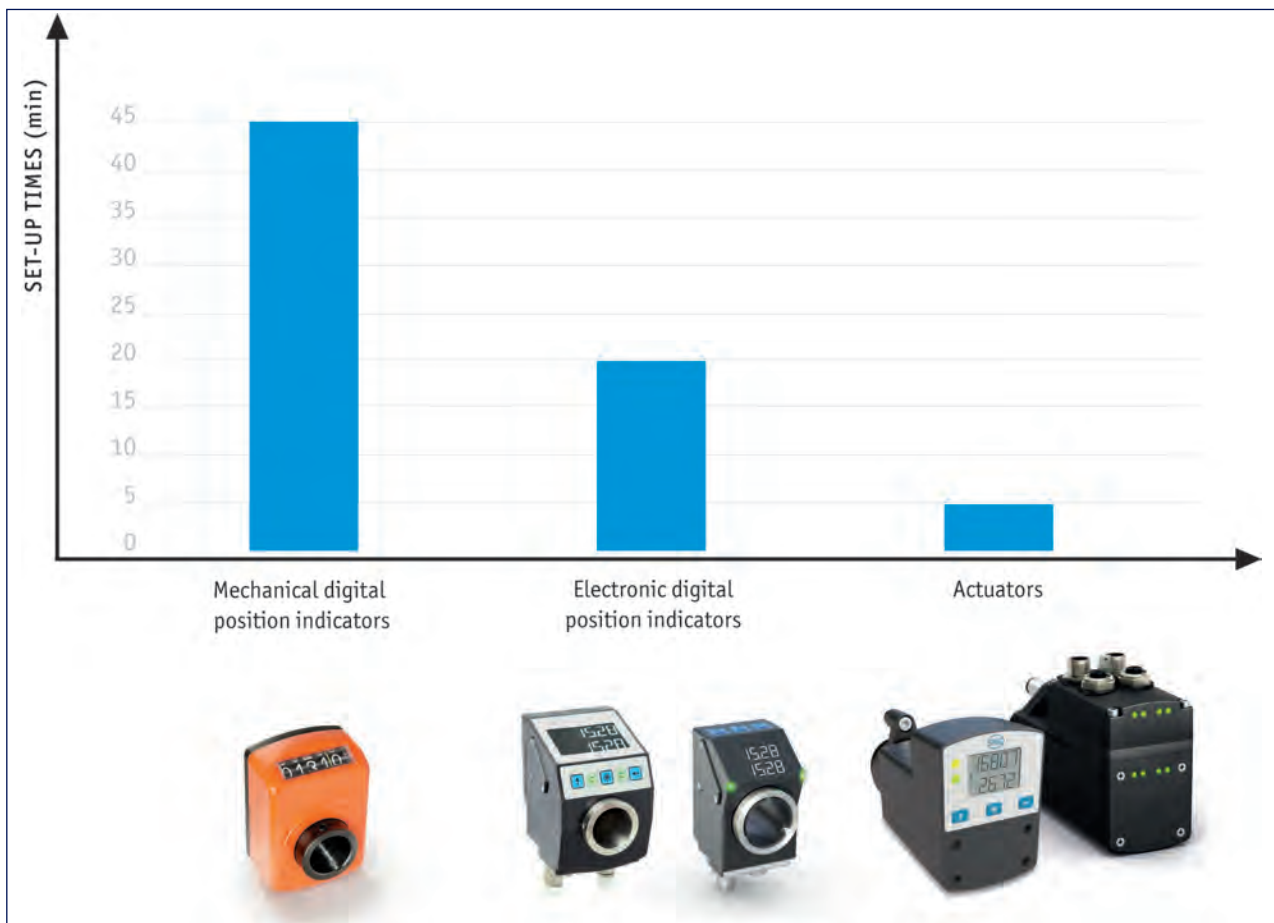


Figure 3: Comparison of optimization potential through intelligent positioning solutions

Manual size changeover

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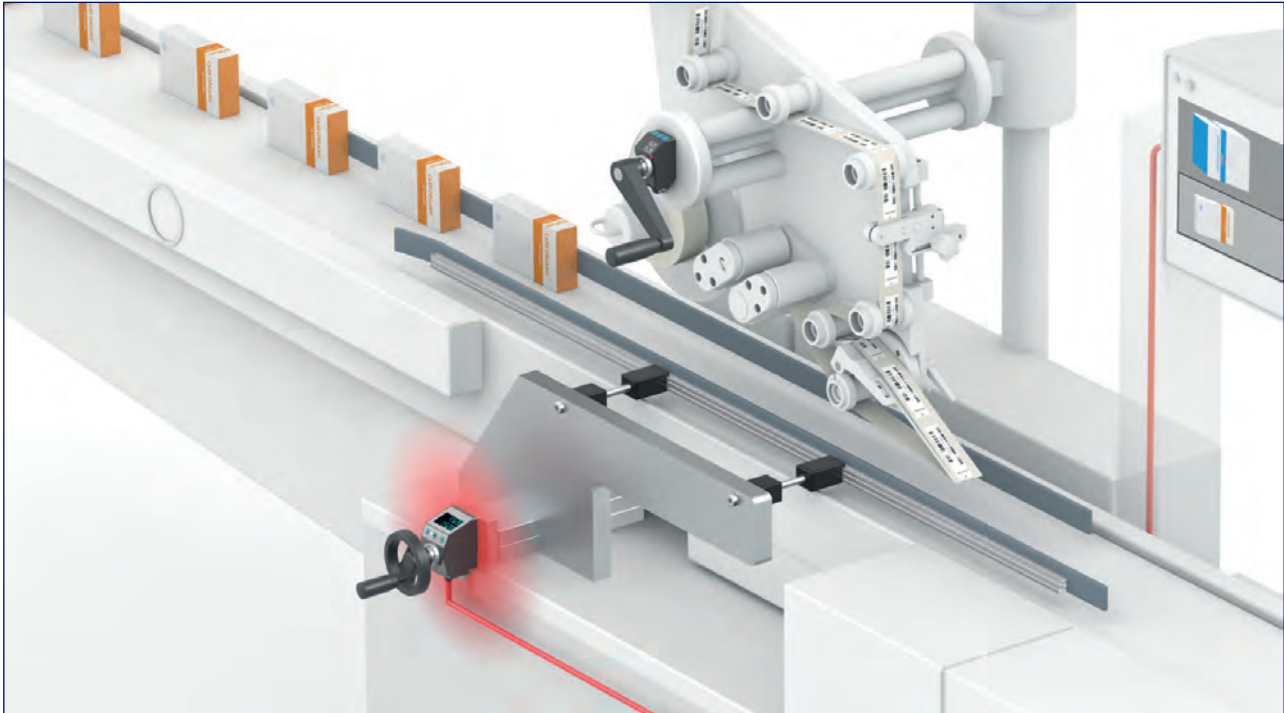


Figure 4: Size changeover using electronic position indicators in pharmaceutical manufacturing

Applications for monitored size changeover

Monitored size changeover can be helpful in pharmaceutical manufacturing, for example, in the case of systems for cartoning machines requiring frequent adjustment or in the case of product labeling. A relatively new development is “Track & Trace” systems, which requires prescription drugs to be provided with a clear, traceable label. This involves a wide variety of processes such as printing, reading, labeling and weighing, and thus numerous adjustments. The process reliability of these systems is significantly increased with monitored size changeover.

Automatic size changeover

If axes are changed over without any manual intervention, this is referred to as automatic size changeover via compact positioning drives. The actuator, which is networked with the machine control system, moves directly to the required position. With automation, a further significant reduction in reconfiguration times is achieved. In addition, automation is worthwhile if system parts that are difficult to access have to be adjusted frequently.

An actuator is characterized by its highly integrated design, which combines all components in one device: the brushless DC motor (which is wear-free), a low-backlash and powerful gearbox as well as position encoder and power and control electronics. The integration of the actuator into the machine controls as well as the communication with the controls is easily achievable, not least thanks to a large number of common standard interfaces. These include Siemens-compliant Profibus or Profinet interfaces, cost-effective serial interfaces such as RS485 and CAN, IO-Link and modern Industrial Ethernet interfaces.

Depending on the requirements of the application, different power classes of actuators are required: from small actuators with low power requirements for fine adjustment in a folding box magazine to feeding systems for large cardboard boxes where entire machine aggregates have to be moved with actuators with relatively high torques.

With this variant of size changeover, too, the controls only initiate a system restart when the process data exchange between the drive and the control has resulted in a match between the actual and setpoint values.



Figure 5: Size changeover using SIKO position indicators on a Track & Trace system in pharmaceutical manufacturing



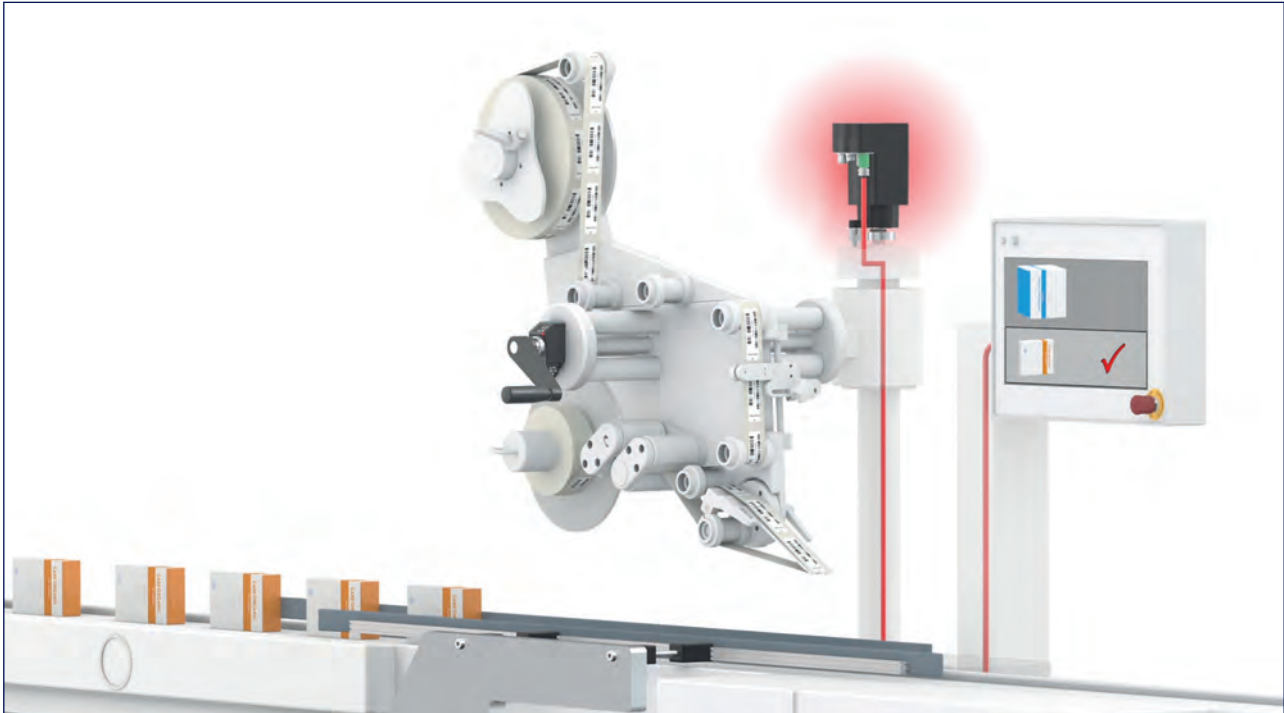


Figure 6: Automated product changeover using a SIKO actuator on a labeling machine for drug boxes

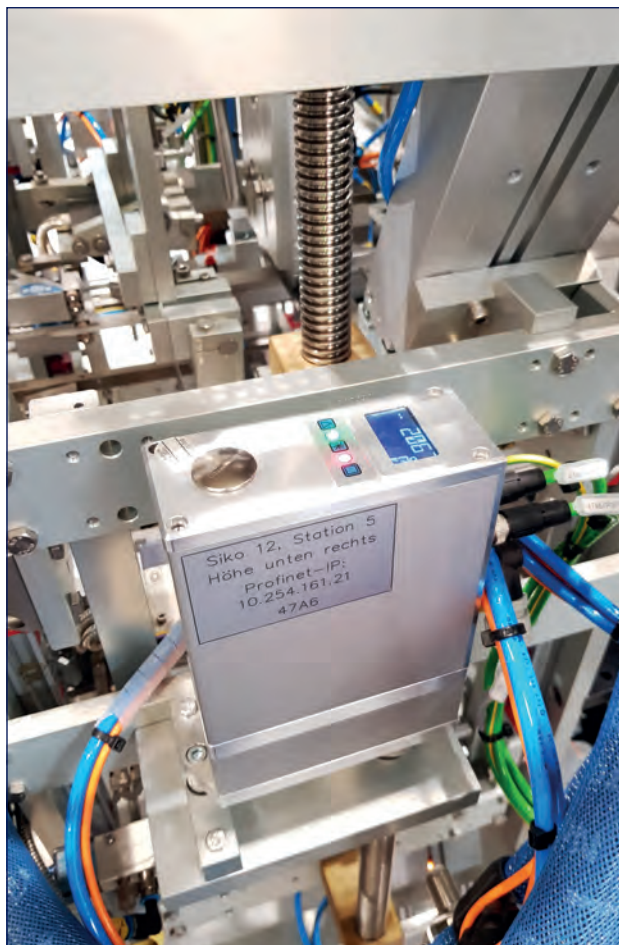


Figure 7: Automated machine reconfiguration with SIKO actuator

Predictive Maintenance

Another functionality of the compact actuator makes it possible to draw conclusions about the operating status of both the actuator itself and the system itself: the diagnostic capability. By collecting and monitoring various parameters of the drive, such as current consumption in the motor, temperature or voltage values at the control and load circuit, irregularities and thus the need for maintenance can be detected at an early stage. If specified values are exceeded, measures can be taken immediately.

Conclusion: More automation, more data

In pharmaceutical manufacturing, smart size changeover involves several dimensions: there are the directly measurable effects such as reduction of set-up times, increased plant availability, increased efficiency and increased process reliability. In addition, intelligent solutions help to carry out such secondary processes within manufacturing as unobtrusively as possible. If possible, you should not have to worry about size changeover; if it works well and reliably, you can turn your attention to key demanding activities such as line clearance or extensive documentation. Peripheral components such as position indicators and servomotors are becoming increasingly important as a result of increasing automation and digitalization. This is demonstrated by recent developments such as "Track & Trace" systems. Additional benefits such as data collection, self-diagnosis and service life monitoring of the components make smart size changeover a crucial element of Pharma 4.0.



PET TO PET SIGNIFICANTLY INCREASES CAPACITIES FOR FOOD-GRADE RPET WITH NEW STARLINGER LINE

The Austrian recycling company installed another Starlinger bottle-to-bottle recycling system including SSP (solid state polycondensation) reactor at their production site in Müllendorf, Austria.

“It is also thanks to the new Starlinger pelletizing line that PET to PET is one of the most modern facilities in PET recycling worldwide. Since the foundation of the company we ensure that PET bottles in Austria are continuously recycled in a resource-saving way, contributing significantly to the circular economy in the country” comments PET to PET General Manager Christian Strasser on the capacity increase.

PET to PET Recycling Österreich GmbH recycled around 1.13 billion PET bottles (equals more than 28,200 tons of PET material) in 2020, also due to the newly installed capacities. The company was able to increase throughput by 7.3 % despite the COVID-19 pandemic with subsequent lockdowns and the price decline for virgin PET resin.

The recoSTAR PET 165 HC iV+ bottle-to-bottle recycling system is the second line from Starlinger in operation at PET to PET. It has a throughput of 1,800 kg/h and achieves excellent decontamination results.

The produced regranulate can replace virgin PET at a rate of 100 %. “The high quality of the recyclate is especially important to us. The Austrian beverage industry is continually increasing the share of recycled content in new PET packaging. Some of the producers even use bottles made of 100 % secondary raw material”, Christian Strasser explains.

Food-grade without compromise

The solid state polycondensation in the viscoSTAR 180 SSP reactor at the end of the recycling process is decisive for decontamination. It restores the mechanical characteristics of the recycled PET and increases the intrinsic viscosity to the level of virgin material. The PET recyclate is now food-safe and can be used for food packaging such as beverage bottles. More than 50 positive EFSA opinions, the US FDA as well as numerous brand owners in the

food industry confirm the extraordinary decontamination results of the Starlinger iV+ process.

The installation of the 14 meters high Starlinger SSP reactor in an enclosure attached to the production hall at PET to PET's recycling facility was captured on film: The spectacular scenes – partly shot from bird's eye view with drones – can be watched in a video by clicking the following link: <https://vimeo.com/502640873>





PET-Recycling know-how from scratch

“Our customers all over the world appreciate the fact that we have been building up our know-how on PET and bottle-to-bottle recycling in-house for more than 25 years and continue expanding it based on our experiences”, says Paul Niedl, Head of Sales at Starlinger recycling technology. “From extrusion to decontamination to refinement –

and here I mean food safety – of recycled PET we can provide substantial support to our customers in all areas. Especially concerning food-grade regranulate there is no compromise: the safe and hazard-free packaging of our foods has highest priority.

The Starlinger decontamination process – which we also call super-cleaning process – creates a closed packaging loop where used PET bottles provide a valuable resource for safe and hygienic packaging.”

About PET to PET Recycling Österreich GmbH

With the PET recycling facility in Müllendorf the Austrian beverage industry meets the requirements of the Sustainability Agenda which was signed by the Austrian Federal Ministry of Agriculture, Forestry, Environment and Water Management, the Chamber of Economy, as well as representatives of the trade and waste industries. It aims, among other things, to establish targeted and ecological recycling of PET bottles in Austria.

The recycling facility is operated by PET to PET Recycling Österreich GmbH, in which Coca-Cola HBC Austria GmbH, Egger Getränke GmbH & Co. OG, Rauch Fruchtsäfte GmbH & Co. OG, S. Spitz GmbH and Vöslauer Mineralwasser GmbH hold shares.

At the PET to PET facility, the delivered PET bottles are screened and sorted by hand, and subsequently shredded and washed.

Then, the currently most modern processing methods are applied: On two separate processing lines PET flakes and PET regranulate are produced, all in highest food-grade quality. Both types of recyclate are used in the production of new PET beverage bottles, depending on specific production requirements and aiming to achieve the highest possible share of recycled content.

www.pet2pet.at



HAMAMATSU – NEW HIGH PERFORMANCES UV-LED LAMPS FOR INDUSTRIAL PRINTING

Hamamatsu Photonics developed several new UV-LED lamps for industrial printing. These light sources are specially designed for curing and UV-coating drying in digital, analog and 3D printing.

The series “LIGHTNINGCURE® LC-L5G” has been on market since few years, it offers many solutions for several printing applications; GP (pinning) and GJ (curing) series are designed for digital printing, while GL series is designed mainly for analog printing.

Recently the new L15346 series is in release: this source is optimized for pinning and it achieves high irradiance

(24 W/cm²) with air cooling. The high power of the lamp allows to perform the final curing processes with a compact design; the high power enables also to achieve incredibly high maximum speed in curing processes for flexo, offset and digital printing.

The GC-113 series is optimized for pinning and it achieves optimal irradiance for this application (10 W/cm²) with air cooling. This series features a very high accuracy of the emitted irradiance.

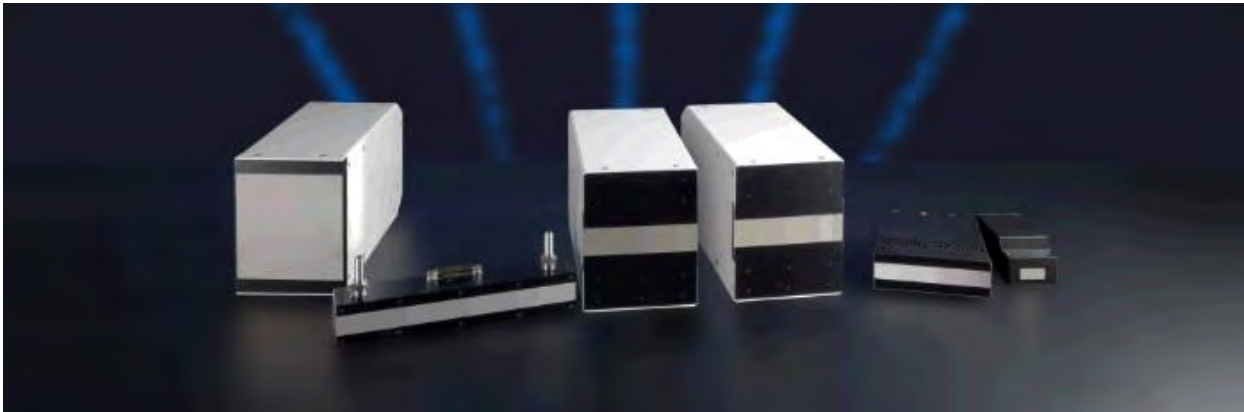
The compact design, the analog and the digital version of the lamp allows integration into different printing ma-





HAMAMATSU

PHOTON IS OUR BUSINESS



chines design, several wavelengths are available (365, 385 and 395 nm).

The new “side-on” type GC-77S series is capable of irradiating light in the direction perpendicular to its installation surface, this allows easy integration even in very tight locations. For this series 365, 385, 395 and 405 nm wavelengths are available.

Thanks to the special design of the emitting area, all Hamamatsu UV-LED lamps can be connected in order to fit any printing width. In order to fulfill market needs Hamamatsu is committed to continuous technological innovation, several new light sources are under development and will be released during the next months to achieve many advantages for printing applications.

- Mixed wavelength series: high irradiance UV-LED lamps which irradiate different wavelengths at the same time (365/385/395nm). This characteristic allows more flexibility in the ink choice and this can lead to price reduction and improvement in printing quality.
- High irradiance water cooling series: very compact design and extremely high emitted intensity, designed for high performances offset and flexo printing. We will also develop a new high stability type for high precision printing processes.
- “Forced-air” cooling UV-LED lamps: since the air flows through a duct, the lamp doesn’t need any fans and very compact design and high irradiance

are possible. The lamp does not generate neither dust nor air flows, moreover “forced-air” cooling prevents overheating because the air used for cooling is not taken from the environment surrounding the lamp, making it possible to integrate the lamp in tight places.

- Collimated UV-LED lamp: irradiance level is stable over a long range of working distances, this lamp is suitable in particular to treat not-uniform surfaces or with embossed texture and for those applications where the substrate is not stable and a long working distance is necessary.

For any further information please contact us at info@hamamatsu.it - www.hamamatsu.com

SECTORS



FOOD



COSMETIC



PHARMACEUTICAL



GREINER PACKAGING DEVELOPS SUSTAINABLE CARDBOARD-PLASTIC PACKAGING

FOR NEW SOMAT EXCELLENCE 4IN1 DISHWASHER CAPS FROM HENKEL



As a manufacturer of sustainable plastic packaging, Greiner Packaging is constantly in the business of responding to new product types and requirements. One recent example is the new Somat Excellence 4in1 dishwasher caps from Henkel. These use a unique technology that combines powder and three solid gel chambers, which consumers will only have seen from laundry detergent products to date. The caps are securely packaged in cardboard-plastic combinations and an innovative lid solution from Greiner Packaging.

Brand owner Henkel is now using the sustainable cardboard-plastic tubs from Greiner Packaging, which contain 50 percent postconsumer recycled PP from end consumer households, in a new, innovative product for the Somat brand. The tubs previously received the World Star Award 2021 in recognition of the packaging for Persil 4in1

Discs, another Henkel product. This is a great example of how Greiner Packaging and Henkel continue to develop together based on a close, ongoing relationship – including making their packaging solutions more sustainable. “Our longstanding customer Henkel was looking for an innovative, end-to-end packaging solution for the new

SECTORS

 **PACKAGING**

Somat Excellence 4in1 caps, which are dishwasher detergent capsules containing both powder and three solid gel chambers. An effective seal to prevent moisture from getting into the packaging was especially important, and Greiner Packaging delivered an ideal solution by providing both the tub and lid,” says Andreas Auinger, global senior customer projects manager at Greiner Packaging. “The main challenge in developing this packaging was the product inside, as the 4in1 caps are extremely sensitive to moisture. So the key requirement for the packaging was to ensure a perfect seal during both transport and storage,” Auinger adds.

Tub made from recyclable material for positive environmental impact

Thanks to its innovative, patented tear-off system, the cardboard wrap and the plastic tub can be easily separated and recycled. Because the two components can be separately added to their respective recycling loops, the consumer benefits from a highly recyclable packaging solution. The wrap is made of cardboard consisting of nearly 100 percent recycled material. Greiner Packaging uses a two-stage process for the plastic tub itself: The inside of the plastic tub is made from white virgin material, which guarantees an optimal color contrast with the colorful 4in1 caps. The packaging’s outer coating, meanwhile, contains 50 percent r-PP obtained from end consumer households. This layer’s gray color has no impact on the packaging’s look, because it comes wrapped in an attractively printed cardboard sleeve.

Innovative lid for impenetrable seal

Greiner Packaging also supplies the lids for Henkel’s new packaging for Somat Excellence 4in1 caps. The team developed a special concept for Henkel, featuring a sealing film that is built into the lid to provide an outstanding seal. Plus, the opening of the tub is calibrated ahead of time so that it fits with absolute precision – and the lid and tub fit together perfectly.

These two special characteristics of the lid guarantee the best protection for the caps along with a top-class seal to prevent moisture from getting in.

“The new packaging for the Somat Excellence 4in1 dishwasher caps stands out not only thanks to its sustainable properties and premium shelf appeal but also because of its high degree of technical functionality. Based on our experiences with other similarly designed packaging solutions, we already know that this type of smart, sustainable packaging from our partner Greiner Packaging is a big hit with consumers. Besides the new innovative Somat Excellence 4in1 caps, we also use the same packaging principle for the Somat Gold dishwasher tablets,” notes Carsten Bertram, senior manager for international dishwashing packaging development at Henkel.

Logistical excellence with K3®

Cardboard-plastic combinations also impress when it comes to logistics in the form of K3®-F packaging solutions. These lids, plastic tubs, and folded cardboard wraps are delivered separately to Henkel. Greiner Packaging’s longstanding joint venture partner, Cardbox Packaging, supplies the wraps, which are then folded and slipped over the tub directly before filling at the company. This ensures a high degree of flexibility in production and keeps stocks to a minimum.

www.greiner-gpi.com

About Greiner Packaging

Greiner Packaging is a leading European manufacturer of plastic packaging in the food and nonfood sectors. The company has enjoyed a reputation for outstanding solutions expertise in the fields of development, design, production, and decoration for more than 60 years. Greiner Packaging responds to the challenges of the market with two business units: Packaging and Assistec. While the Packaging unit focuses on innovative packaging solutions, the Assistec unit is dedicated to producing custom-made technical parts. Greiner Packaging employs a workforce of around 4,900 at more than 30 locations in 19 countries around the world. In 2020, the company generated annual sales revenues of EUR 692 million (including joint ventures), which represents more than 35% of Greiner’s total sales. For more information please visit: www.greiner-gpi.com/en

About Henkel

Henkel operates globally with a well-balanced and diversified portfolio. The company holds leading positions with its three business units in both industrial and consumer businesses thanks to strong brands, innovations and technologies. Henkel Adhesive Technologies is the global leader in the adhesives market – across all industry segments worldwide. In its Laundry & Home Care and Beauty Care businesses, Henkel holds leading positions in many markets and categories around the world. Founded in 1876, Henkel looks back on more than 140 years of success. In 2020, Henkel reported sales of around 19 billion euros and adjusted operating profit of around 2.6 billion euros. Henkel employs around 53,000 people globally – a passionate and highly diverse team, united by a strong company culture, a common purpose to create sustainable value, and shared values. As a recognized leader in sustainability, Henkel holds top positions in many international indices and rankings. Henkel’s preferred shares are listed in the German stock index DAX. For more information, please visit www.henkel.com



COMPOSTABLE BAGS SOLUTION ENDS SEARCH FOR FRESH PRODUCE GROWERS

Smart Packaging Hub is, essentially, a bench. Strawberry Fields Organic Farm grows an extensive range of “inspirational vegetables and herbs”. But, after 46 years of organic growing, they had struggled to find a supplier of compostable bags at an affordable price.

That was until they discovered the C BAG from flexible packaging and lidding films supplier KM Packaging and their partner Treetop Biopak.

It was with great enthusiasm that Pam Bowers of Strawberry Fields recently Tweeted: “After years in the researching, they’re here! So exciting! All Strawberry Fields lettuce as from tomorrow will go out in these bags.”

The C BAG is from KM Packaging’s C-Range of compostable bio-plastic packaging with similar properties and look and feel as conventional plastic.

It has proven to be perfect for packing the products grown by Strawberry Fields at their farm in the Lincolnshire Fens, 10 miles north of Boston at the foot of the Wolds.

Pam Bowers said: “As well as not being able to source compostable bags at an affordable price, no one seemed to be able to supply on a wicket which is essential for our way of working. The C BAG was the ideal solution.

“Also, what we like about the bags is they immediately look different to their plastic counterparts so the customer is able to tell at a glance they are compostable.”

Watts Farm, Kent-based growers, packers, and distributors of fresh produce, is another satisfied KM customer who had been searching for some time for a cost-efficient compostable packaging solution.

They chose the C BAG due to its lower cost and compostable qualities.

VERIFIED AS COMPLIANT NON-GMO

Both Watts Farm and Strawberry Fields were keen to replace existing packaging with a compostable alternative.

And Strawberry Fields were particularly concerned about GMO in some compostable packaging during their search





for a supplier. They were also aware that the UK Soil Association requires organic-certified growers to use compostable packaging with no GMO.

So Strawberry Fields were delighted to discover that the C BAG from KM Packaging had been verified as compliant with the Soil Association Food & Drink standards. It is now being used to pack Strawberry Fields' Rainbow Chard, Red Oakleaf, Green Oakleaf, Romaine, Red Batavia, and Green Batavia lettuce.

THE KEY FEATURES OF THE C BAG INCLUDE:

- Home compostable.
- Guarantee non-GMO raw materials.
- Meets the Soil Association Standard for packaging materials.
- Excellent mechanical properties.
- Very good impact and puncture resistance.
- Excellent water resistance.
- Suitable for manual and automatic bagging lines.
- Good material perforation, keeping fruit and vegetable fresh.
- Printable.

The bio-plastic C-Range products from KM Packaging have been developed in partnership with Treetop Biopak, specialising in providing innovative compostable packaging solutions.

Treetop owner Amir Gross said: "As growers of fresh produce, Strawberry Fields and Watts Farm are very conscious about the environment.

They, therefore, sought a suitable compostable packaging solution.

The C BAG is ideal for them; from plant to pack and then back to compost."

Customers can compost the bag at home, including any vegetable leftovers, which will accelerate the bio-degradation process. Alternatively, if the local council offers kerbside collection of organic food waste, the bags can be used as caddy liners.

The C-Range of bio-plastic packaging materials includes shrink wrap, stretch wrap, adhesive tape, and bags. It enhances KM's portfolio of sustainable flexible packaging solutions and offers customers a wider range of choice.



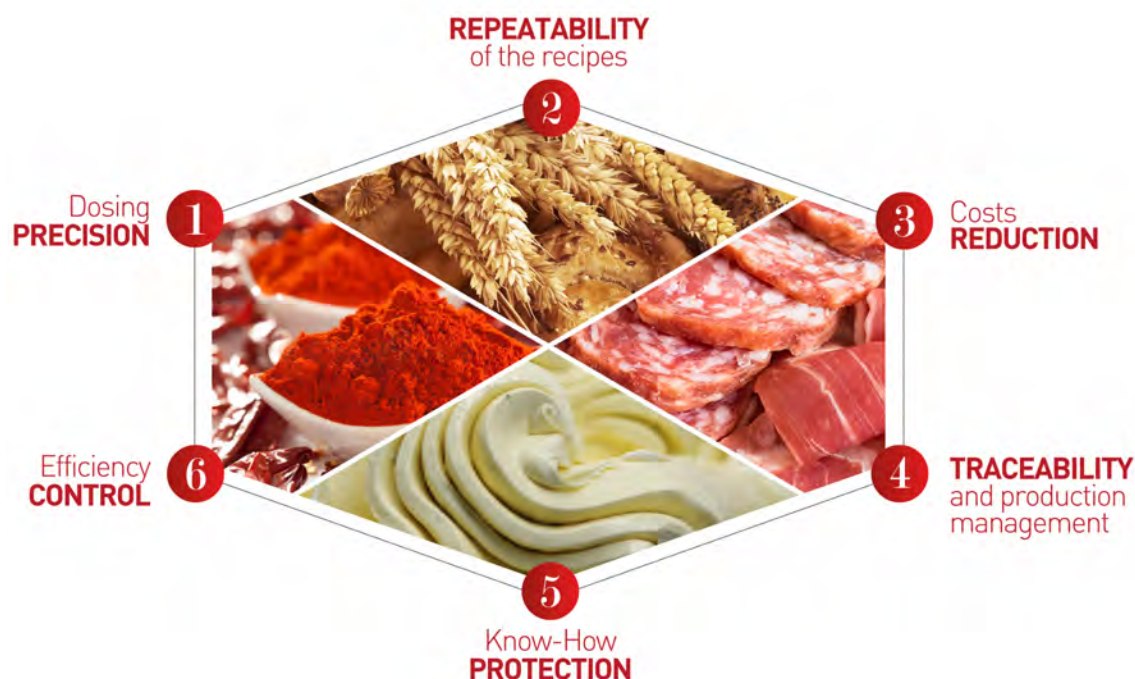
EXPERTS IN CREATIVITY, INNOVATION & SUSTAINABILITY

A quality designed to last. This is Lawer's mission statement, a Biella based company, internationally recognized for the excellence of powders and liquids dispensing systems. This excellence begins with a preliminary analysis phase, to the equipment commissioning, to ensure safe and automated systems, operated by a high-class software which is able to adapt itself to the manufacturing companies' changing needs. Quality is also the ability to provide the most efficient service and maintenance, being always on time and close to its customers thanks to a world-wide presence.

Since the beginning Lawer has always implemented the strategic decision to invest on people, research and new technologies. Thanks to the analysis and development of the technical department the company shows its strong projecting capabilities. The task of finding the most innovative technical solutions for the systems continuous improvement is essentially provided by a qualified and professional team, which is constantly updated and trained with new technologies.

For this reason, Lawer continues leading in an increasingly competitive market. Lawer's dosing systems automatically weigh all the powder and liquid





ingredients present in the recipes and batches, where the micro dosage of ingredients is required.

All Lawer's systems are the result of Lawer's 50-year experience and know-how in the design and manufacturing of dosing systems for many different applications in different types of industrial productions.

With the automatic powder dosing systems, it is possible to grant:

- **The highest quality of the finished product**
- **The highest weighing precision**
- **Replicability of the recipes**
- **Right balance of raw materials**
- **Production management, efficiency and cost reduction**
- **Complete confidentiality of know-how**
- **Optimisation of production, less production time**

More time/less costs, the automatic dosage system reduces the production time with consequently recovering of efficiency and marginality.

Confidentiality, it is possible to keep secret the composition of the recipe and protect your creativity and your know-how.

Control, it is possible to monitor and verify the daily production, monthly production, the consumption of each single raw material or each single recipe accessing to a protected area.

Replicability, in a fully automatic way, the system repeats countless times the error free weighing of the micro-ingredients of the recipes, guaranteeing constant quality at all times.

Less errors, less cost, higher quality of the finished product.

Traceability, all the weighing operations are saved and made available for a perfect traceability.

Saving, the systems contribute to reducing errors and time in the recipe preparation, thus reducing costs of production and personnel.

Lawer can supply different models of Automatic Dosing Systems, with single, double and multi scale technology (**mod. UNICA TWIN, UNICA HD & SD** and **mod. SUPERSINCRO**), with different levels of accuracy (**1gr – 0.1 gr or 0.01 gr**) and different capacity of powders' storage (from **50 lt** up to **300 lt** capacity of each hopper). Lawer is the ideal partner for the automation of the powder micro-ingredients dosing.

www.lawer.com

 **LAWER**[®]
dosing & dispensing systems

SECTORS

 **DISPENSING
SYSTEMS**



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

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



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

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

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

technical details have also become standard for this machine line.

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

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

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

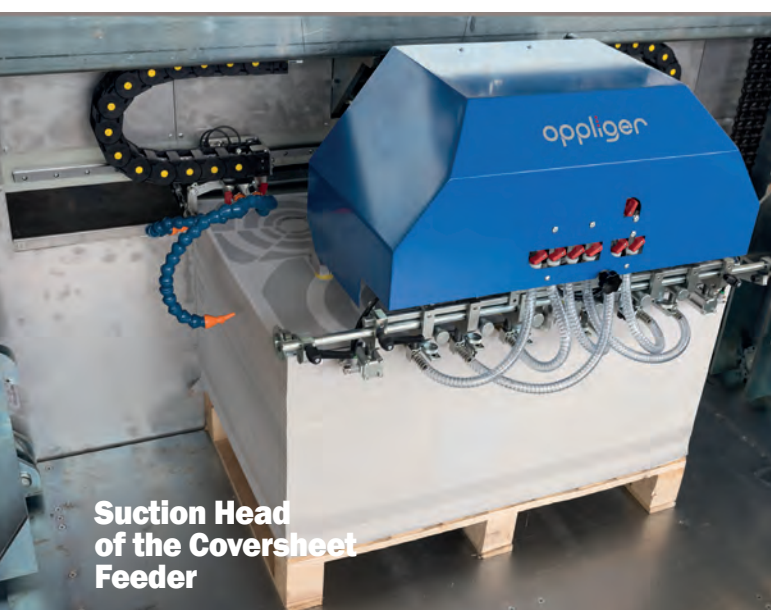
other auxiliary machine is the innovative Un-Flip-Flop Pile Equaliser TWIST 160 that normalises pallets with laminated sheets and is stacked in such a way as to avoid the warping effect.

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

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

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

www.oppliger.eu



oppliger

SECTORS

✓ PACKAGING

✓ PAPER CONVERTING

✓ LITHO-LAMINATING

NEWS: JUST IN TIME SERVICE

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

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

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

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

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

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

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

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

www.piccoliplast.com





SECTORS

✓ FARMACEUTICO

✓ COSMETIC



AUTOMATED PRINT AND APPLY, A MATTER OF CHOICE

Selecting an automated print and apply system can be a daunting task, especially when it's a company's first foray into automated labelling. As the name implies, the print engine is the key component of the whole system and its choice should not be taken lightly.

The usual selection process revolves around specific aspects: already owned models, printing speed, Direct Thermal Vs Thermal Transfer, resolution etc... But that's limiting, not to say that is a mistake; there are other factors, often overlooked, that should be seriously considered during the evaluation process.

Serviceability

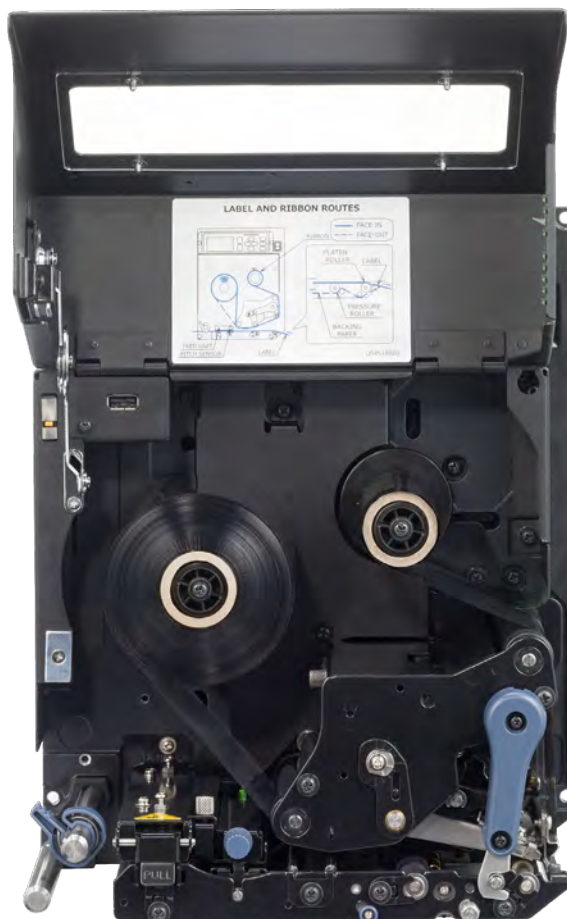
Just like a vehicle engine, there are many elements of the print engine that require scheduled cleaning, maintenance and, sometimes, replacement; components such as the thermal print head or the platen roller. If these items are difficult to replace, or if areas of the printer are not readily accessible for cleaning, the result can be defective printing, frustrated users and production line downtime.

Sometimes a more in-depth service work is required, being this the case it's fundamental the print engine can be easily removed and put back in place as fast as possible. This removable print engines, often referred to as an "OEM print engine", provide two important benefits: ease of access, ease of replace.

To ensure service can be done in a timely manner, it's important for key internal components to be simply accessible and that most of them can be reached without the need to disassemble other areas of the printer. Ask your technical personnel for their experience with different print engine models. We did so. That's why SATO specialised itself in OEM engines and our modules are the best in class when it comes to changing a print head without tools or accessing the PCB for maintenance.

Adaptability

Print engines are vastly different "animals"



when compared to traditional desktop label printers. The latter generally see either relatively low volume label production or bursts followed by long periods of idle time. Also, minor detail, they are generally in an office or other protected environment. Print and apply engines, on the other hand, see long periods of continuous production - up to 24 hours a day, seven days a week - directly in the production environment.

With this level of rigorous use, it's critically important for the selected print engine to have a fully committed design, development and support team in place as well as a long standing history of success and reliability in the market. SATO not only can offer that, 80 years in the business speak for themselves, but it's also capable of offering printers with both the smarts





and the capabilities of a desktop model and the resistance of a print engine. A partner of us was working with Arcelor Mittal and they needed a print engine capable of working in an environment with a temperature varying between 0°C and -40°C. Although we had better performances than competitors, we were still facing one technical challenge: the printer had to be capable of supporting a Zebra emulation inside a SAP system. Long story short: after some testing, turned out that the CL4NX series was perfectly capable of supporting the ZPL emulation and adapting to itself to the harsh environment. All thanks to the AEP suite, an AI platform residing inside SATO printers.

Conclusion

Technical specifications are just the first step of the selection process; just looking at the datasheet, or even worse making a choice based on the matching between your current desktop fleet and the new print engines can be detrimental for the whole production plant.

Adding the above criteria to the selection process is guaranteed to help companies choose a print engine that meets not only the technical requirements of the application but also the operational needs of the organization and the capabilities of its personnel.

Are you looking for help in the selection process? Do you want to have more insights on the SATO world and its expertise? Are you facing insurmountable problems with your production line? Make the right choice, contact us and we'll find a solution together, on site.

www.satoeurope.com



SECTORS

✓ PHARMACEUTICAL

✓ COSMETIC

✓ FOOD



PMR DESIGNS LABELLERS, FILLING AND CAPPING MACHINES WITH INDUSTRY 4.0 TECHNOLOGIES

PMR attends Ipack Ima with several innovative machines: the **Roller Capper**, a machine with a capacity with a hourly production of 6000 pcs/h, adaptable to various types of caps, controlled by brushless motors, equipped with digital panel with tele-assistance and interface to external systems in **Industry 4.0** logic. For this project we also worked on HMI (Human-Machine Interface), developing an ad hoc software capa-

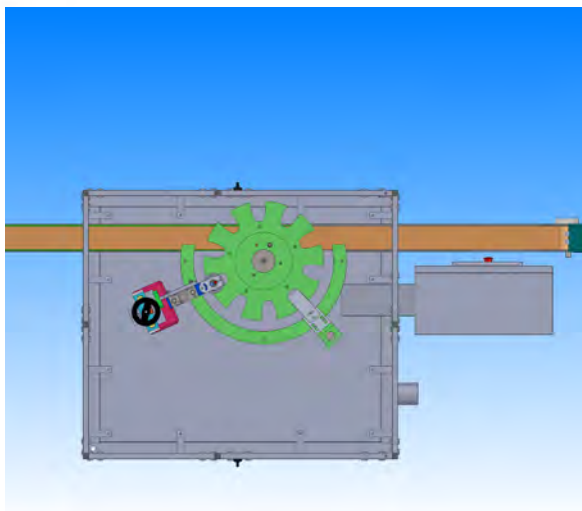
ble of managing the format change, easy and fast, that integrates with business and management systems in smart manufacturing.

In the exhibition there will also be the new Monobloc **PMR MFC 22**, a machine for filling jars with liquid/dense products and capping with twist-off capsules. The dosing unit consists of an AISI 316 stainless steel pump and a two-

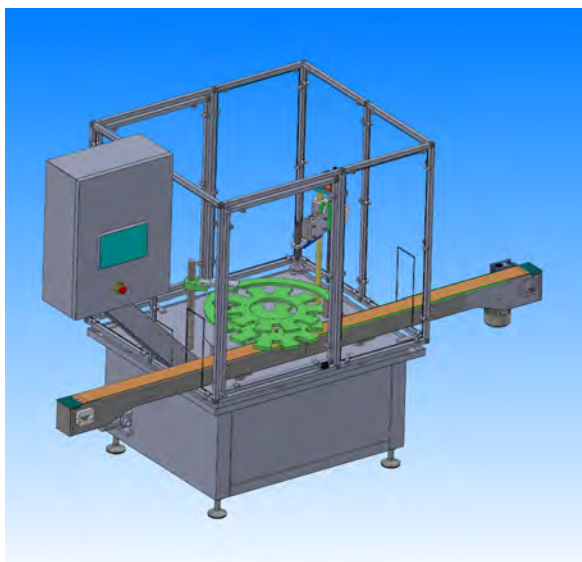
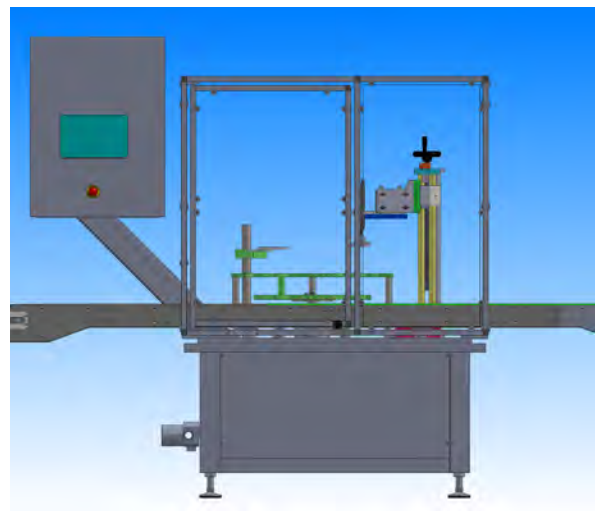




FILLING & CAPPING LINE



PMR MFC 22 MONOBLOCK



SECTORS

✓ FILLING

✓ CAPPING

✓ LABELLING



way pilot valve, synchronized to the dosage. The capper has a head with pneumatic motor, with torque adjustment. The system has a capsule feeder, with adjustable descent channel for different formats and capsule presence control device. This machine, with independent operation, can be adapted to the needs of the customer, depending on the product and the container to be packaged.

PMR has been manufacturing packaging machinery for over 50 years and the labellers it offers are distributed all over the world. Among the historical models, now renewed and enhanced, there are: the **M3010 FB** labeller for the simultaneous application of 2 labels, the **M3005 T** for the application of labels on cylindrical, the Robottino for the marking of flat boxes, the **CLASSIC NEW3** and **PRINT & APPLY LM** heads and all table top, semi-automatic packaging systems. The **M3005 V** labelling line for C-shaped label application on trays produces up to 3,000 pcs./h and is a system much appreciated by cheese and fresh pasta producers.

PMR labellers can be used both offline and connected to other packaging machines (e.g. filling machines, thermoforming machines, cappers). In the labelling lines, to allow connectivity to the company network, a hardware expansion, a PLC and a program are installed. This allows communication with the equipment and have various available information; it is also possible to create an integration with the company management.

From a survey conducted by IISole24 ore and Statista, **PMR was among the 200 companies champions of Export 2022**, this thanks to the ability to follow the customer throughout the supply chain, up to the installation which is carried out directly through highly specialized distributors. PMR has adapted to the market with excellent prospects, continued its research and development process, investing in high-performance materials and application software for Industry 4.0.

PMR SYSTEM GROUP attends Ipack-Ima
Pav. 2P – Booth A114
www.pmr.it



FILLING · CAPPING · LABELLING



LESSEBO KASKAD NOW AVAILABLE IN SOUTH KOREA VIA DOOSUNG PAPER

Lessebo Paper announces today the launch of Lessebo Kaskad at Doosung Paper, which makes one of the most environmentally friendly, high quality coloured paper ranges available to customers in South Korea. Lessebo Paper has been producing paper since 1693, making it one of the oldest paper manufacturers in Sweden. The company focuses on sustainable and innovative graphic paper in the premium segment.

Lessebo Kaskad is an environmentally friendly paper manufactured in Sweden from chlorine free pulp (TCF).

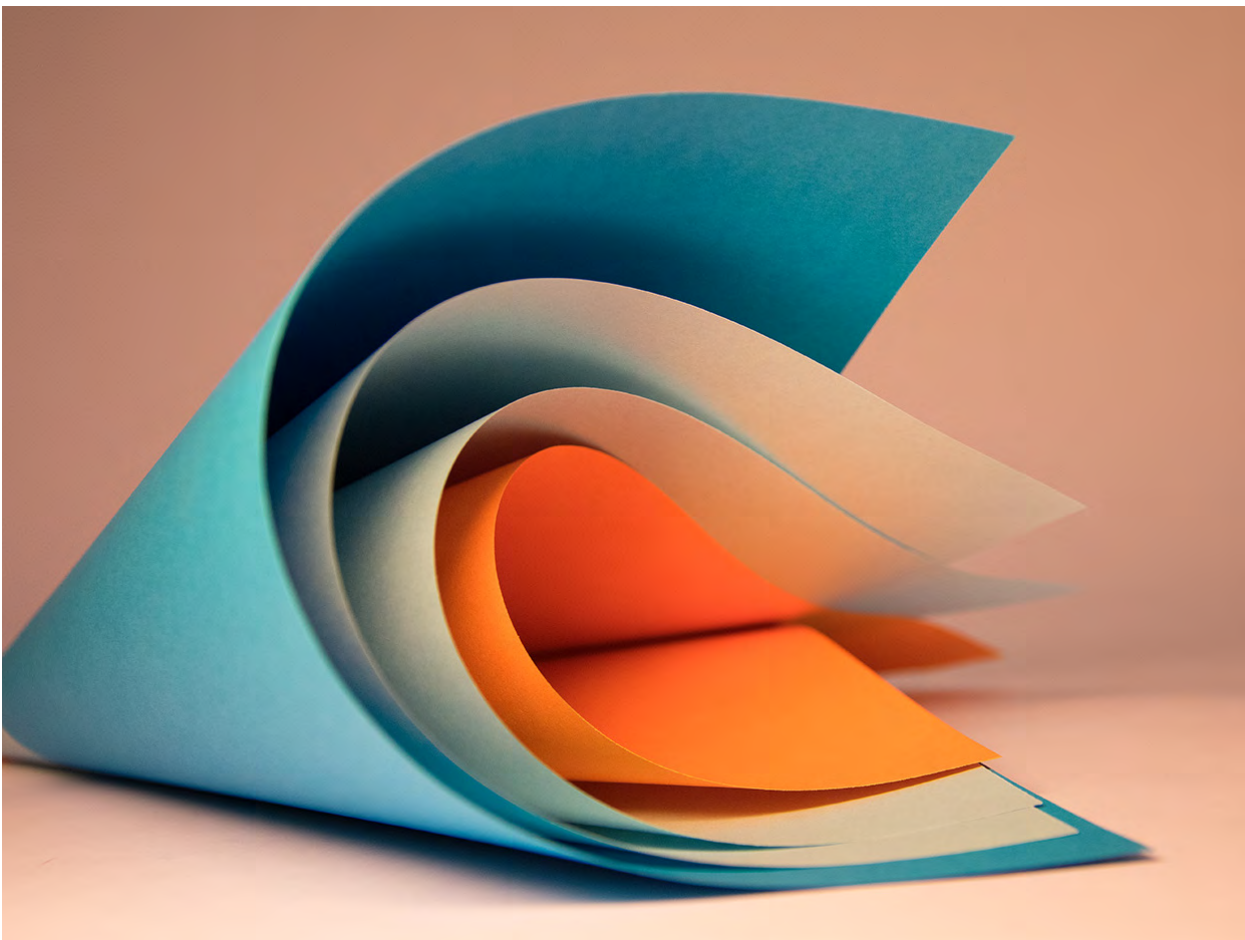
The quality is acid free, has a matt, non-reflective surface and is resistant to ageing in accordance with ISO 9706. Lessebo Kaskad is already available in a large number of countries and is a very popular quality to use for luxury packaging applications – such as liner

for boxes and quality paper bags – but also for books and other creative printing matter.

Doosung Paper is a South Korean paper merchant established in 1982 that today is represented at 6 locations across the country. The company has several paper stores across South Korea and their Doosung Paper Gallery and design education center are cultural spaces for designers and artists, which perfectly complements their offer to the market.

“We are proud to be working together with Doosung Paper, serving the South Korean market with Lessebo Kaskad and our other high quality, environmentally friendly papers of Lessebo Paper,” states John Tucker, Sales Manager at Lessebo Paper in North and South America, Asia and South Africa.

lessebopaper.com



PROSYSTEM - SINCE 1991 TAILOR-MADE PACKAGING TECHNOLOGIES

High technology meets the attention to detail of Made in Italy

Since 1991, ProSystem has been one of the market leaders in the production of single machines and complete lines for packaging, palletizing, wrapping and depalletizing.

Quality, efficiency, functionality, respect for human resources and the environment: these are the values that guide our company today and for the future.

But the heart of ProSystem's experience is in technology: each machine is designed and built according to the specific needs of the customer, to offer efficiency and maximum economy at a delicate stage of the product's life. Emblematic is the COMPAL series, the monoblock of packaging and palletizing that have also conquered Australia.

It is a tailor-made approach that has made the company famous all over the world, bringing the excellence of Made in Italy in the automation sector.

The company is operating in various fields of application, from the food sector, home care, personal care, chemical, to petrochemical, paints and solvents.

Each project is faced as a challenge, in which the difference is the skills and the team's harmony.

The stages of a service of excellence

The company's know-how is made possible by a method that accompanies the customer at every stage, from feasibility analysis to design, from implementation to after-sales assistance. It is a turnkey service, increasingly appreciated by customers who are looking for a unique contact person to rely on.



casing machine

After-sales and technical assistance is just one of many things we take pride in, with a service of spare parts in just 24/48 hours, able to ensure the fast recovery even in case of breakdowns, with a team ready to leave for every corner of the world - the location of the office next to the airport Catullo in Verona is strategic.

The redesign also plays a key role: the dedicated design team is able to revisit the lines to meet every need - including new formats, production speeds and extensions

A family history

Founded by Renzo Brizzi, ProSystem is the story of a family business, where skills and passion are handed down from generation to generation. Today Renzo's daughter, Jessica





company plant

Brizzi, supports her father in the management of the company, with the role of Sales and Marketing Manager of Prosystem.

The company today

With the new frontiers of packaging - increasingly sustainable and based on lot - the company is making numerous investments to make the machines increasingly efficient in consumption and open to innovation.

ProSystem can be your partner! 

www.prosystem-packaging.com



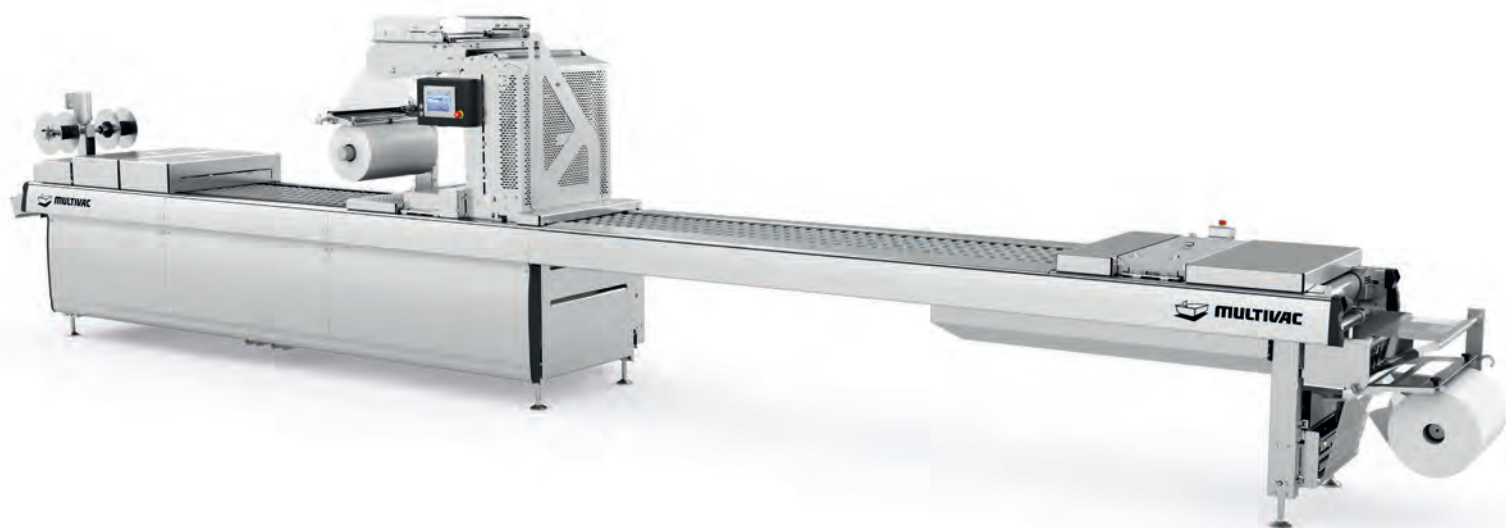
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SECTORS

-  FOOD
-  COSMETIC
-  PHARMACEUTICAL
-  CHEMICAL
-  PAINTS AND SOLVENTS



APPETIZINGLY PACKAGED SNACKS



With its F 286 thermoforming packaging machine, MULTIVAC is launching a new model, which is particularly suitable for producing vacuum and MAP packs for snack products. The main features of the new machine are its high level of flexibility, efficiency and pack quality, as well as its excellent price-performance ratio, and the machine is available for ordering with immediate effect.

The new F 286 thermoforming packaging machine has been developed by MULTIVAC in response to the current demand in the market for snack packs, such as those for dried or roasted duck portions, beef jerky, small sausages or tofu, and these packs enjoy great popularity particularly in Asia.

Packs made from plastic films or aluminium can be produced.

Aluminium packs are generally preferred in Asia for these snack products, since they offer a long shelf life due to their protection against UV light.

“Due to the worldwide demand for healthy snacks, we are also expecting great interest in this model from other regions. The F 286 is aimed particularly at smaller and medium-sized businesses, which want to get into thermoforming packaging for the first time, or al-



ternatively to pack smaller batch sizes more flexibly,” explains Dominik Eberhard, Team Leader for Product Management (Thermoforming packaging machines) at MULTIVAC. “The machine is also designed for processors, who package their products today in film pouches on rotating filling and sealing machines. By moving to thermoformed packs, they can avoid high pouch costs, as well as increasing their personnel efficiency.”

SECTORS

 **FOOD**

LEAD THE REVOLUTION

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PACKAGING PROCESSING PRINTING LOGISTICS



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The F 286 was designed to produce thermoformed packs with a forming depth of up to 20 mm. With the optional upper web forming of 10 mm, it is possible to replace existing, symmetrically produced pouch packs.

Thanks to its loading area of up to 3,000 mm, which can be extended flexibly, it is possible to achieve high pack outputs, even though the machine can also be accommodated in confined working environments.

The unloading area can be extended to fit printing solutions or other equipment components, so that even an inkjet printer or additional cutting unit can be integrated into the machine.

The F 286 achieves a high output with up to 240 packs per minute. Very high and uniform sealing forces, combined with a high-performance forming station, ensure that excellent pack results are achieved even with aluminium packs.

The machine is constructed in the MULTIVAC Hygienic Design, and it offers easy access for cleaning and maintenance. Various equipment options enable the machine to be designed to the customer's individual requirements as regards output capability and the required printing or labelling process.



“All in all, we see the F 286 as a very efficient extension to our product range. It is an ideal solution for smaller and medium-sized businesses, particularly in those areas where pouches and small aluminium packs are being used today,” says Dominik Eberhard in summary. “Aluminium is also an outstanding material when it comes to shelf life, enabling food waste through spoilage to be reduced significantly.”

www.multivac.com

About MULTIVAC

MULTIVAC is one of the leading providers worldwide of packaging solutions for food products of all types, life science, and healthcare products, as well as industrial items. The MULTIVAC portfolio covers virtually all requirements of processors and producers in terms of pack design, output, and resource efficiency. It comprises a wide range of packaging technologies, as well as automation solutions, labellers, and quality control systems. The product range is rounded off with solutions upstream of the packaging process in the areas of portioning and processing, as well as bakery technology. Thanks to our extensive expertise in packaging lines, all modules can be integrated into complete solutions. This means that MULTIVAC solutions guarantee a high level of operational and process reliability, as well as efficiency. The MULTIVAC Group has approximately 6,700 employees worldwide, with some 2,300 based at its headquarters in Wolfertschwenden. With over 85 subsidiaries, the Group is represented on all continents. More than 1,000 sales advisors and service technicians throughout the world use their know-how and experience to the benefit of customers, and they ensure all installed MULTIVAC machines are utilised to their maximum. Further information can be found at: www.multivac.com

EXHIBITIONS 2022-2023

PROSWEETS

31/01-02/02/2022 
COLOGNE

Fair for the sweets
and snacks industry.

mcTER

24/02/2022 

Exhibition on energy efficiency.

INTERSICOP

19-22/02/2022 
MADRID

Fair for bakery, pastry, ice cream, coffee.

SIGEP

12-16/03/2022 
RIMINI

Fair for bakery, pastry, ice cream, coffee.

BEER&FOOD ATTRACTION

27-30/03/2022 
RIMINI

Fair for beers, drinks, food and trends.

mcT ALIMENTARE

31/03/2022 
VERONA

Fair on technology for the food&bev industry.

FRUIT LOGISTICA

05-07/04/2022 
BERLIN

Fair for fruit and vegetables.

VINITALY

10-13/04/2022 
VERONA

International wine & spirits exhibition.

ANUGA FOODTEC

26-29/04/2022 
COLOGNE

Fair on food and beverage technology.

PROWEIN

15-17/05/2022 
DUSSELDORF

International wine & spirits exhibition.

COSMOPROF

28/04-02/05/2022 
BOLOGNA

Fair for the cosmetic production chain.

CIBUS

03-06/05/2022 
PARMA

Fair of food product.

IPACK-IMA

03-06/05/2022 
MILAN

Exhibition for the packaging industry.

MACFRUT

04-06/05/2022 
RIMINI

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

MIDDLE EAST 2022/23

GULFOOD

13-17/02/2022 
DUBAI


Fair for food and hospitality.

GASTROPAN

03-05/04/2022 
ARAD


Fair for the bakery and confectionery.

HOSPITALITY QATAR

21-23/06//2022 
DOHA

Fair of Hospitality and HORECA.

DJAZAGRO

30/05-02/06/2022 
ALGERS

Fair for companies
of the agro-food sector.

IRAN FOOD BEV TEC

07-10/06/2022 
TEHRAN

Fair for food,
beverage&packaging technology.

PROPAK ASIA

15-18/06/2022 
BANGKOK

Fair for packaging, bakery, pastry.

ANUTEC

14-16/09/2022 
MUMBAI

Fair for the food&beverage industry.

PACPROCESS FOOD PEX

23-25/11/2022 
MUMBAI

Fair for product from packaging.

WOP DUBAI

22-24/11/2022 
DUBAI


Fair for fruits and vegetables.

PROPAK VIETNAM

09-11/11/2022 
SAIGON

Fair for packaging, bakery, pastry.

GULFOOD MANUFACTURING

08-10/11/2022 
DUBAI

Fair for packaging and plants.

GULFHOST

08-10/11/2022 
DUBAI

Fair of hospitality.

GULFOOD

20-24/02/2023 
DUBAI

Fair for food and hospitality.

EXHIBITIONS 2022-2023

SPS/IPC DRIVES/ITALIA

24-26/05/2022 

PARMA

Fair for industrial automation sector.

HISPACK

24-27/05/2022 

BARCELONA

Technology fair for packaging.

MECSPE

09-11/06/2022 

BOLOGNA

Fair for the manufacturing industry.

LATINPACK

29-30/06/2022 

SANTIAGO CHILE

International packaging trade fair.

FISPAL

21-24/06/2022 

SÃO PAULO

Fair for product from packaging.

DRINKTEC

12-16/09/2022 

MONACO

Fair for the beverage, liquid food industry.

FACHPACK

27-29/09/2022 

NUREMBERG

International packaging trade fair.

POWTECH

27-29/09/2022 

NUREMBERG

The trade fair for powder processing.

SAVE

26-27/10/2022 

VERONA

Fair for automation, instrumentation, sensors.

mcTER COGENERAZIONE

23/06- 26/10/2022 

MILAN

Exhibition for cogeneration.

SIAL

15-19/10/2022 

PARIS

Fair on food products.

SUDBACK

22-25/10/2022

STUTTART

Fair for bakery and confectionery.

CIBUS TEC FORUM

25-26/10/2022 

PARMA

Exhibition & Conference on Food & Beverage Technologies Trends.

SIMEI

15-18/11/2022 

MILAN

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

ALL4PACK

21-24/11/2022 

PARIS

Exhibition about packaging technology.

INTERPACK

04-10/05/2023 

DÜSSELDORF

Technology focused on packaging, bakery, pastry technology.

TUTTOFOOD

08-11/05/2023 

MILAN

Fair B2B show to food & beverage.

HOST

13-17/10/2023 

MILAN

Fair for bakery production and for the hospitality.

IBA

22-26/10/2023 

MONACO

Fair for the bakery and confectionery industry.

CIBUS TEC

24-27/10/2023 

PARMA

Exhibition & Conference on Food & Beverage Technologies Trends.

BRAU BEVIALE

14-16/11/2023 

NUREMBERG

Fair of production of beer and soft drinks.

EAST MARKETS 2022/23

BEVIALE MOSCOW

29-31/03/2022 

MOSCOW

International trade fair for the beverage industry.

UPAKOVKA

24-27/01/2023 

MOSCOW

International packaging machinery exhibition.

INPRODMASH

13-15/09/2022 

KIEV

International packaging machinery exhibition.

BEVIALE MOSCOW

14-16/11/2023 

MOSCOW

International trade fair for the beverage industry.

AGROPRODASH

10-14/10/2022 

MOSCOW

Fair of machinery and equipment for agroindustrial industry.

MODERN BAKERY

2023 

MOSCOW

Fair for bakery equipment and food ingredients.



WE'VE TALKED ABOUT...

ALTECH SRL

61

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

ANDOLFI E C. SNC

62-63

Via Vecchia Porto, 1599
63019 Sant'Elpidio a Mare - FM
Italy

ANICO SRL

72-73

Via C.A. Dalla Chiesa, 1094
51036 Castelmartini (Larciano) - PT
Italy

ARCA ETICHETTE SPA

64/66

Via Edison, 119
20010 Marcallo - MI
Italy

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25/27

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41013 Castelfranco Emilia - MO
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BEUMER MASCHINENFABRIK GMBH & CO. KG

68/70

Oelder Strasse 40
59269 Beckum
Germany

BIOGEST SRL

32/34

Corso crimea, 35
15121 Alessandria - AL
Italy

BOLOGNAFIERE COSMOPROF SPA

1

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20122 Milano
Italy

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CARLUCCI SPA 14

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00040 Pomezia - RM - Italy

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Via Brodolini, 18/A
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20069 Vaprio D Adda - MI
Italy

DOMINIONI SRL

67

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

ENIMAC SRL

35/37

Via Monzoro, 58
20010 Cornaredo - MI
Italy

FAIRTRADE MESSE GMBH & CO.KG

III COV

Kurfuersten-Anlage 36 D-69115
Heidelberg - Germany

FEDRIZZI ETICHETTE GROUP SRL

38/41

Via Gianni Brida/Gianni-Brida-Strasse, 43
39100 Bolzano - BZ
Italy

GENERAL SYSTEM PACK SRL - GSP

15/17

Via Lago di Albano, 76
36015 Schio - VI
Italy

HALSTRUP-WALCHER SRL

82/84

Viale Colleoni, 15
(Palazzo Orione, 2)
20864 Agrate Brianza - MB
Italy

IFP PACKAGING SRL

19/21

Via Lago di Albano, 70
36015 Schio - VI - Italy

LABELPACK TRADE SRL

8-9

Via Monte Cervino, 51/F
2086 Brugherio - MB - Italy



WE'VE TALKED ABOUT...

LANTECH PACKAGING

71

11000 Bluegrass Parkway
40299-2399 Louisville
USA

LAWER SPA

100-101

Via Amendola, 12/14
13836 Cossato - BI - Italy

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II COV

Rotebuehlstraße 83 - 85
70178 Stuttgart
Germany

NVC - NEDERLANDS PACKAGING CENTRE

77/80

Stationsplein 9k
PO BOX 164
2801 AK
Gouda
The Netherland

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Via della Cooperazione, 2/A
(Area Ind. Spip)
43122 Parma - Italy

OPPLIGER SRL

102-103

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Italy

PICCOLI PLAST SRL

104-105

Via Roma, 19
26842 Caselle Landi - LO
Italy

PMR SYSTEM GROUP SRL

108/110

Via Bertacciola, 41
20813 Bovisio Masciago - MB
Italy

PROSYSTEM SRL

112-113

Via Staffali, 19
37069 Dossobuono - VR
Italy

SALONI INTERNAZIONALI FRANCESI SRL

115

Via Caradosso, 10
20123 Milano
Italy

SATO

106-107

Leuvensesteenweg 369
1932 Sint-Stevens-Woluwe
Belgium

SES VIETNAM EXHIBITION SERVICES CO., LTD

81

17-17A - 19 Ton That Tung
HCMC Pham Ngu Lao Ward, Dist.1
Vietnam

STELLA MARIS

DI VANESSA GAROFALO

56/58

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

TECNO PACK SPA

4/7

Via Lago Di Albano, 76
36015 Schio - VI
Italy

TOSA SPA

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25/27

C.so IV Novembre, 109/111
12058 S. Stefano Belbo - CN
Italy

TUBITEX SPA

46/49

Viale del Lavoro, 31
36021 Barbarano Vicentino - VI
Italy

UNIFILL SPA

50-51

Via Aldo Moro 68-74-80
41030 Sorbara di Bomporto - MO - Italy

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