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N°3-2021



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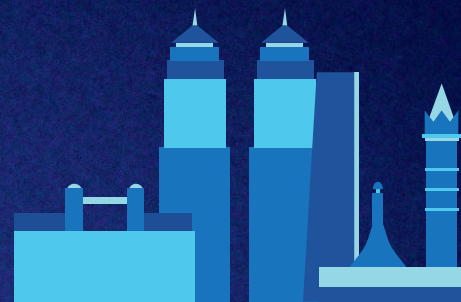
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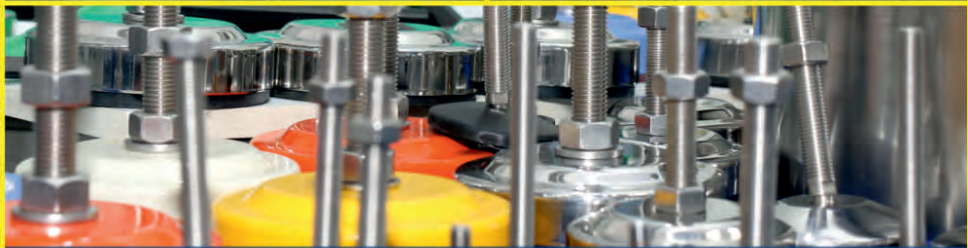
BEVERAGE



NON-FOOD



FOOD



INDUSTRIAL GOODS

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**PALLET DA FUSTELLATO
PALLET FROM DIE CUT SHEETS**



BOX PALLET



**MANICA DI CONTENIMENTO
CONTAINMENT SLEEVE "TIP"**



**SCATOLE AMERICANE
AMERICAN BOXES**



**MANICA "W"
CONTAINMENT SLEEVE EDGE "W"**



**ANGOLARI GROSSI SPESSORI
ANGULAR LARGE THICKNESSES**



**PLATEUAX CANNE SALDATE
PLATEAUX WELDED FLAUTE**



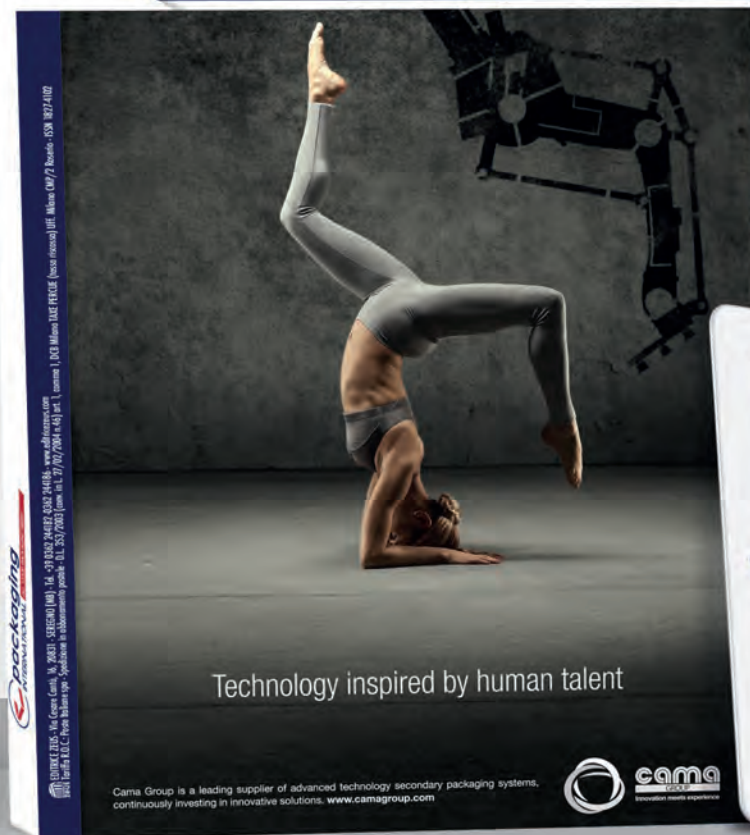
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IN
GENERATION 4.0

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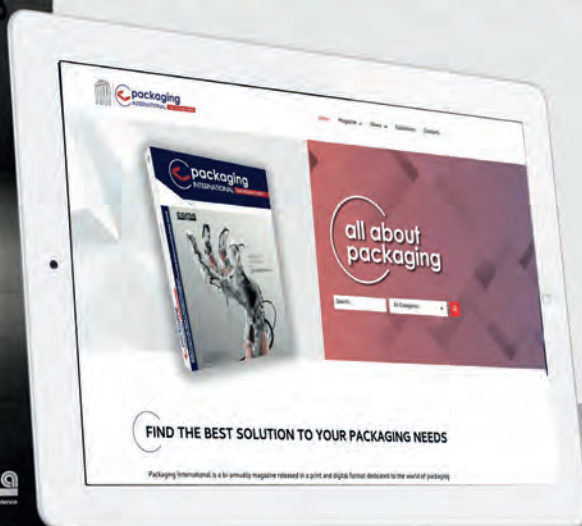


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**MAGAZINES
and WEB PORTALS
focused on
PACKAGING technology
for FOOD and
NON-FOOD industry**



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INSIGHTS



18/33

SMART PACKAGING HUB

The exclusive virtual space for technological innovation and digitalization in food & beverage

FOOD



Make The Most

52/55

IMA SPA - IMA ACTIVE DIVISION

Make the most in the choco & confectionery market

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PACKAGING



80/83

PE LABELLERS SPA

New MODULAR CM:
a star is born

INSIGHTS



84/86

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Partnering for
sustainable
packaging solutions

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HIGH-VELOCITY PACKAGING KEEPS PACE WITH GROWING DEMAND

Many convenience foods are short-term fads, but there are some that have stood the test of time – for decades indeed – including the humble instant noodle. They are just so easy to make! The latest pandemic has also proven how important tasty, easy-to-make comfort food has been for populations everywhere, with some figures pointing to a doubling of consumption.

“There is a massive array of noodle market maturities,” explains Alessandro Rocca, Sales Engineering Director at Cama Group. “Some markets are well established; some are seeing rising demand & major growth is anticipated others. But all of these markets have something in common – the need to introduce further economies by exploiting packaging automation.

In a recent project, Cama was tasked with developing a new secondary packaging solution for one of the worlds largest food and confectionary suppliers, at a brand-new greenfield site in India. The customer, seeing a 30% increase in noodle demand even before the pandemic, was eager to start exploiting the capabilities and flexibilities that automation would deliver.

Cama’s solution comprised two of its Break-through Generation (BTG) IN Series case packers, each of which is fed by three high speed in-feed lines. In operation, each infeed supplies products at the rate of 330 per feed.

The product packages are turned on their edge and enter a racetrack, which creates the first batch configuration. These then feed into a stacking device, which assembles the product stacks. Once the packaging configuration completed all products are transferred into mono-axis conveyor, which takes production from each in feed (with a slot for each) and, once full, advances them to the case packer, where a pusher pushes the noodle collations into the pre-assembled American case. These are then sealed using glue, tape or both before being checked for integrity and passed to the outfeed.



SECTORS



FOOD



NON-FOOD



PERSONAL, HOME
& HEALTH CARE





The key to truly flexible noodle packaging is the ability to package both single and multipacks (up to six) in the same case, with very little intervention. Cama's IN Series solution can actually handle anything from 40 to 100 packs in same case style. We have also developed a way to very quickly adjust the loaders, keeping a complete changeover down to just 32 minutes!

Cama's Breakthrough Generation (BTG) concept is setting the standard in secondary packaging. Machines deliver modular, scalable frameworks that offer easy entry and access, coupled to a hygienic machine design. Within this framework, contemporary automation solutions, including advanced rotary and linear servo technology, is tightly coupled to in-house-developed robotics, to deliver the all-important flexibility and adaptability required by modern packaging operations.

"Industry 4.0 capabilities were another important facet to this project," explains Massimo Monguzzi, R&D Manager at Cama. "Our customer is a front runner in the deployment of connected manufacturing solutions and, it could be argued, its size and global reach means it also dictates

the direction that many other companies follow.

"Augmented Reality very quickly made it onto the customer's wish list," he explains. "The COVID-19 situation led to a halt in location-based training and as this was a brand new system for the customer, it asked us to look at how we could help them get to know how to use the machine quickly. AR is also being exploited for day-to-day operations, to guide operators through changeovers and maintenance.

"Our deployment of contemporary automation solutions means that these Industry 4.0 capabilities are in easier reach for all customers," Monguzzi and Rocca conclude, "even those with older machines, as the AR capabilities feed off the original 3D CAD data. And we have seen incredibly positive real-life results recently, where they

have proved vital for FATs, training, maintenance and operation, all delivered and performed virtually!"

www.camagroup.com

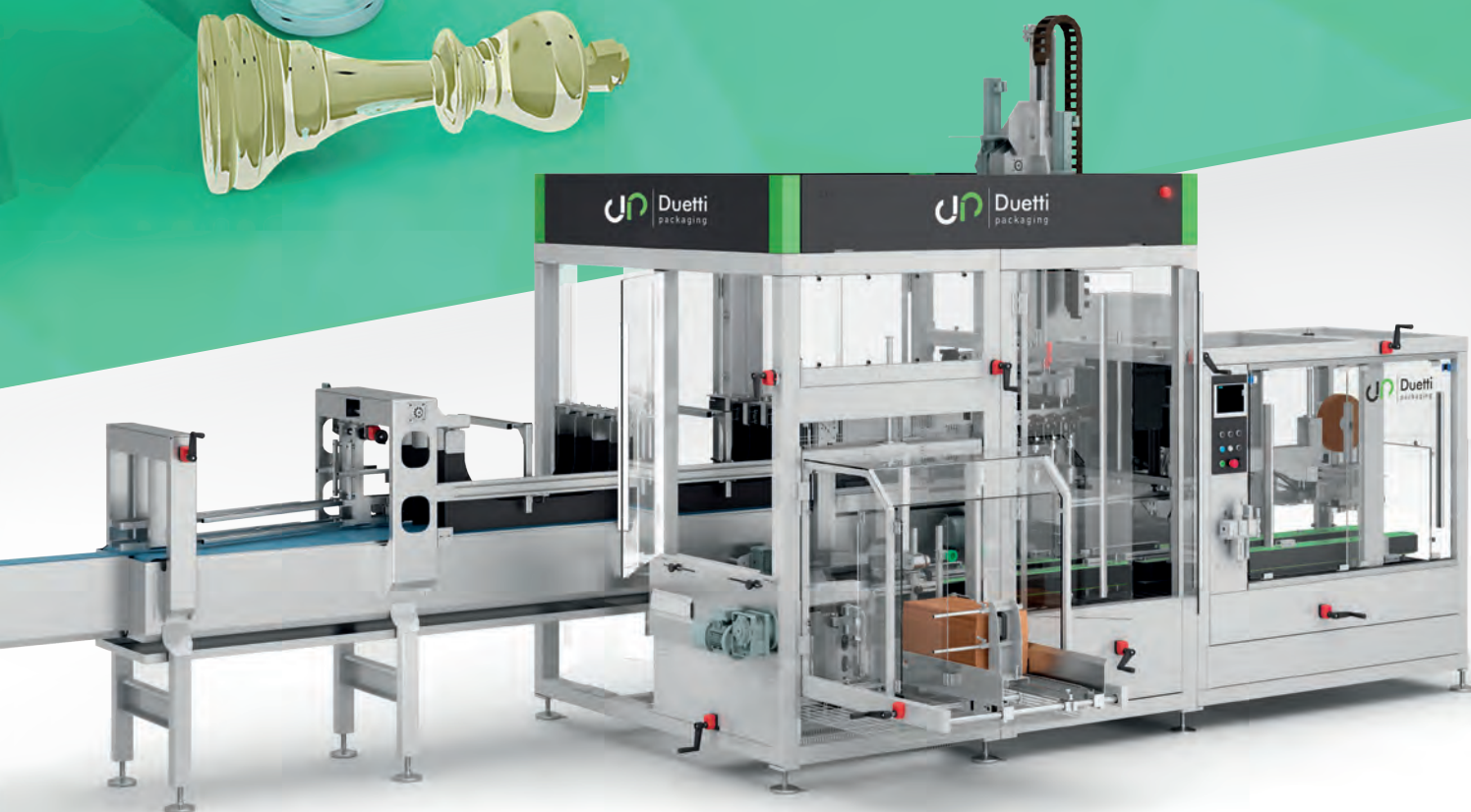




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DUETTI PACKAGING: INNOVATIVE DESIGN HIGHEST TECHNICAL APPLICATIONS

Duetti Packaging with decades of experience, designs and manufactures complete lines for the automation of secondary packaging.

The high level of personalization in the solutions, ensures that the individual requirements of each and every customer can be met.

The expertise of the technical and commercial staff allows us to identify and develop the most effective decision to streamline packaging operations for end-of-line and logistics. The production of Duetti Packaging includes the complete range of machines involved in packaging, with connections and data interfaces with other parts of the line, both upstream and downstream. The range of equipment starts with depalletizers, to take empty containers and feed them to the filler and then further down the line Duetti Packaging, with its cartoning machines takes back control of the containers which can be bottles, (both glass and plastic), canisters or jars and inserts them in preformed cases that can be later closed by adhesive tape or hot melt glue.

Duetti packaging next can palletize boxes, cartons, shrink-packs, trays, crates with a wide selection of machines available from the production range with all modes of automatic palletizing possible, i.e.: Cartesian, gantry, sweep (high & low level) as well as industrial robots. From the palletizer we go to automatic pallet wrapping with rotary table, rotary arm, ring stretch-wrappers or hooding machines all available.

The wrapped pallet is not necessarily the end, as options exist to transport pallets with Duetti Packaging shuttle car systems and range of AGV/LGV models automatically to the warehouse without the need for forklifts or operators, the same systems can be used for feeding stacks of empty pallets to palletizers or placing the pallets on the ground.

Duetti packaging management software can ensure traceability and warehouse operations with integration with a company management system.

In the end when the product needs to be stored in the warehouse Duetti Packaging, in partnership, can provide automatic warehousing as well as picking/depicking solutions for multiple pallets.

www.duettipackaging.com





Duetti
packaging



SECTORS

✓ **PACKAGING**

✓ **FOOD**



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?

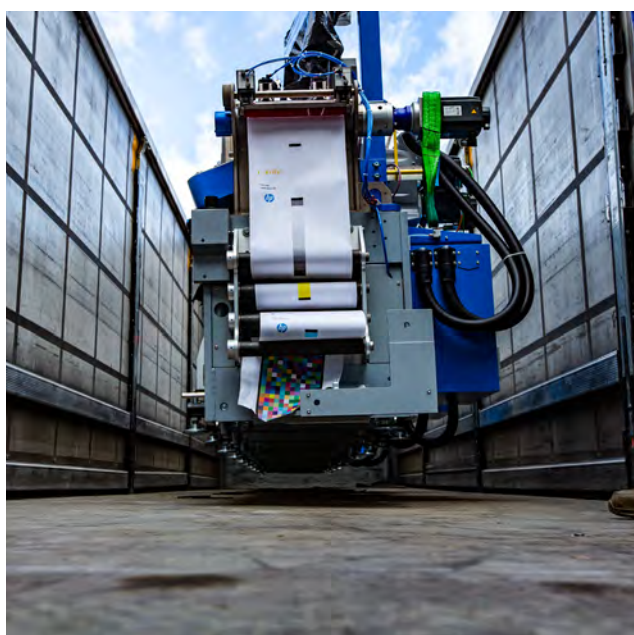


Find exactly what you are looking for!

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



PVC-free is the future

Three pioneers talk about what they have experienced in recent years in the area of metal vacuum twist-off seals featuring the PVC-free PROVALIN® sealing materials: Actega DS, developer of the PROVALIN® sealing materials, Pano, producer of the first PVC-free seals and Feinkost Dittmann, the first company to place glass jars with PROVALIN® on the market.

Mr. Lassek (MD, Actega DS), looking back on recent years, how would you describe them? “They were very demanding years for us all. Back then, we offered what the market demanded, i.e. PVC-free alternatives. There was no question about the fact that PVC-free materials are better than materials containing PVC. The changeover involved investments on the part of the manufacturers of seals which were not only focused on health (plasticizers) and environmental (PVC) aspects – they were also obliged to guarantee the function of such seals. We have invested a lot in research and development and are continuing to do so. Developments on the market, particularly over the past three to five years, have shown that we have succeeded in gaining our customers’ confidence. Growth last year was >30%. This is also reflected in the processing plants available on the market which are capable of covering a capacity of almost 5 billion seals until the end of 2021.”

Ms. Ochalek (Product Manager, PROVALIN®), what do you think are the reasons for changing over to PVC-free materials? “Consumer demands have changed a lot. People are living more healthily and more consciously. When the changeover to PROVALIN® began, the main focal point was the topic of migration. There was a general consensus that the plasticizers contained in PVC can migrate into fatty or greasy foods and be harmful to health.

That alone was reason enough for the changeover. This was also compounded by the aspects of sustainability and environmental friendliness which are even more topical today than migration. People are now more responsible when it comes to health and the environment. When better alternatives are available, they like to avail of them.”

Pano Verschluss GmbH already changed its production of Twist-Off® seals (TO) to become entirely PVC-free as early as 2018. Mr. Eberhardt (owner of Pano), what motivated you to take this brave step? “Full conversion to PVC-free with PROVALIN® enabled us to decommission all gas-powered kilns required for drying the liquid PVC compounds with a very high expenditure of energy. The sustainability performance speaks for itself: 70% energy savings mean 40% less CO2 during the manufacture of seals.”

Was that not 100%? “In our case, we can save 100% CO2 by using green electricity during the manufacture of our seals. But the basis is sustainable savings of 70% energy.”

Your trademark is a blue ring. “Yes, that’s true. We can say that a blue ring always marks sustainability and the lid is free of harmful plasticizers. The blue PROVALIN® BLUESEAL® enables consumers to swiftly, unambiguously, and easily detect products which are PVC-free.”

The market for PVC-free seals has developed rapidly in recent years. Mr. Stock (MD, Pano), how do you regard further market developments? “More than 35% of TO seals in Germany are already PVC-free today. For the future, we envisage a market share of 60-70% for PVC-free seals. In any case, seal manufacturers have already developed the requisite capacities for this.”

Mr. Reichold (MD, Feinkost Dittmann), where the original focus was on oily contents, PVC-free seals can meanwhile be found in practically all areas of food. Do you think there are any restrictions to using PVC-free seals?

“No, there are none at all. We have processed millions of PVC-free seals in recent years. It goes without saying that new beginnings are marked by gaining experience but we cannot report of any restrictions.”

Would you have thought that the percentage of PVC-free seals would grow so strongly and would already account for the lion’s share in your company today?

“We were convinced right from the start that the topic of migration could be comprehensively solved by PROVALIN®. What’s more, the issue of sustainability was already on the agenda at Feinkost Dittmann back then and it was simply a good fit for us. Meanwhile, it is the requirements on sustainability by the food retail trade that are driving the trend to become PVC-free. As a sustainable company, we can only welcome this trend.”

The PVC-free sealing compound is not only available for Twist-Off® seals but also for so-called P/T seals (Press-on Twist-Off®). Ms. Ochalek, why were they developed and how long have they been on the market for?

“Infants and small children require special protection and this also applies when it comes to food. Parents are extremely sensitive in this regard and take care to ensure that their little ones only receive the best. Therefore, it is practically a no-brainer to offer PVC-free alternatives in this area. Which we have been doing since 2016. The corresponding compound going by the name of ACTGreen® PROVALIN® has been available since 2020 and this compound is green to make it easier to identify.” Sustainability has become a key issue, including when it comes to packaging. Actega DS, Pano, and Feinkost Dittmann engaged with this topic at an early stage.





Passion for labels since 1985

Make it a work of art.

SMART PACKAGING HUB

The exclusive virtual space for technological innovation and digitalization in food & beverage

Smart Packaging Hub is, essentially, a benchmark for all packaging players in the food and beverage industry. It is a meeting place where the end-users of automated packaging machines or lines can interact with manufacturers to find responses to their most complex questions, concerning manufacturing efficiency, configuration flexibility, product safety and quality, traceability, ROI calculation, eco-sustainability and energy saving. The Hub is, actually, a virtual space, where discovering concrete solutions to face digitalization challenges and fully embrace an extreme technological innovation, without giving up flexibility and competitiveness currently imposed by the market.

Smart Packaging Hub is an overview of the "Smart Packaging" world: here converges the whole packaging chain for food & beverage - from primary to tertiary industry - which today is addressing the new horizons of Industry 4.0 and of Industrial Internet of Things, establishing that plants must consist of smarter and smarter machines, that is to say hyperconnected and fully responsive systems. Finally, the Hub is a virtual meeting corner, where talking about specific innovative food & beverage projects with skilled experts, and where joining an exclusive calendar of technological events. Smart Packaging Hub - as affirm the companies that created it - might be compared to a new "search engine of the food & beverage packaging".

How the Smart Packaging Hub initiative was conceived

The Smart Packaging Hub initiative stemmed from the idea of seven companies that, after examining the current market situation and emerging difficulties, have drawn new boost and new business opportunities from that.

The seven companies of the Hub transformed the impossibility of meeting physically at sector exhibitions and the criticalities of travelling on the national and international territory into a new opportunity of meeting and interaction, joining up in the new virtual space of Smart Packaging Hub. Therefore, the idea of Smart Packaging Hub was devised to send a strong message of support and collaboration to market players and to put all available technological competences at the service of end-users in the food & beverage industry.

"Since at present we cannot always meet physically, then we create a digital platform where to transfer our specific technological skills and to go on communicating with sector end-users. We support them concretely while they are facing the challenges issued by the market and we undertake with them new successful digitalization courses", so state the seven companies of Smart Packaging Hub.

Smart Packaging Hub in figures

Currently, seven companies are present in the Hub: Baumer, Opem, Cama, Zacmi, Makro Labelling, Clevertex and Tosa. This digital meeting platform expresses a force, an excellence of automated and digital technologies for food packaging, not only by market volumes, export values and labour force employed, but also in terms of investments in research, development and training activities.

- **400 million Euros of yearly turnover**
- **1.200 machines delivered per year**
- **2.000 collaborators**
- **90% yearly export**
- **5,4% of yearly turnover invested in R&D activities**
- **2,1% of yearly turnover invested in training activities**

The highlights of Smart Packaging Hub

In Smart Packaging Hub visitors can focus on ideas and solutions that exceed the logic of "a turnkey plant from a single supplier".

Here, on the contrary, they find innovative technologies made available by seven different companies that, in the Hub, share the force and the specific competences of their core business in some of the most important applicative niches of the food & beverage packaging chain.



Who enters Smart Packaging Hub:

- gains access to a single highly flexible technological innovation space, without however having to come to the compromise of the “single supplier” or of the “standard line”;
- finds the best of seven companies’ competences for the development of specific automated solutions, to satisfy all requirements in the food and beverage packaging chain, achieving the best in engineering flexibility and in machine configuration;
- benefits from a platform where it is possible to interact with some of the best experts in the engineering and construction of automated machines, sharing their specific expertise and competences.

Smart Packaging Hub is the place par excellence where end-users can also benefit from that entire **“Made in Italy”** technological connotation. This connotation means first of all the utmost flexibility in the customization of automated packaging plants. In the Hub, actually, visitors discover how to adapt their machines at best to each future requirement, in terms of components on machine board, as well as machine programming, diagnostics and operations.

End-users find in Smart Packaging Hub the highest empathy of seven specialized companies that are able to read and understand their key business needs.

Smart Packaging Hub: a support for technological innovation and digitalization

Triple is thus the support offered in the virtual platform of Smart Packaging Hub. The platform can concretely help end-users of the food & beverage industry, backing them in technological innovation initiatives, digitalization journeys, adoption of Industry 4.0 guidelines and in the global localization of their proposals. Smart Packaging Hub put at disposal a fertile environment for **technological innovation**, also thanks to the yearly investments in R&D activities of the seven companies in the hub: outstanding innovation is developed at highest level and it is adapted to the requirements of each manufacturer, for single task or line machining, with utmost time and cost optimization.

In Smart Packaging Hub, you get in touch with an approach fully oriented **to digitalization and Industry 4.0**. In the packaging field as well, in fact, Industry 4.0 and digital trends are no longer negligible aspects for the users or the manufacturers of automated food&beverage packaging systems. In the Hub you can find the best support for the process virtualization, also through the use of virtual models (Digital twin) of machines. You can find advanced robotics solutions, hyperconnectivity and hyper-sensor strategies of machines or entire lines, as utmost expression of IIoT (Industrial Internet of Things). Finally, you can discover how to apply eventual AI (Artificial Intelligence) algorithms



or Analytics software to collect, to process and to manage at best the huge volume of data generated by machines, optimizing energy and manufacturing performances of processes or releasing new service typologies, and then new business models, on the market.

Finally, joining Smart Packaging Hub end-users find the best service offer for **a global after sale service**, delivered by skilful and multilanguage teams in each geographical area on earth.

www.smartpackaginghub.com

THE SEVEN COMPANIES FOR THE HUB



PRODUCTION OF SECONDARY PACKAGING MACHINE

For over 40 years, Baumer has been synonymous with flexibility, customization and high quality in the production of secondary packaging machine with shrink-wrap film and wrap-around carton.

Baumer was founded in 1974 in the center of the packaging valley in Modena, and immediately enjoyed a great international success. This allowed us to open our second office in Mexico in the early 2000s, designed to better support all customers in the American continent.

To date, more than 1500 systems have been installed in all 5 continents of the world. The product sectors covered are many, from: Dairy, Personal Care, Chemicals to Food & Beverage, which currently represents over 45% of turnover.

The great demand from the market and a business in constant growth has allowed us to expand our line with new machines designed to meet the latest demands of the sector. Baumer currently produces: Film-only, Pad and Film and Tray and Film shrinkwrappers, Wrap-Around packers, Combined packers, which include all the functions of the two previous machines in a single one, Traypacker 1000 designed to process large formats such as ½ pallets and ¼ pallets, multi-function machines that can include all the functions of the other machines and, finally, the new Baumer RT cartoners that process cartons and bags at high production speeds.

The fil rouge of each of our lines revolves around two key points: production flexibility and savings. For this reason, we



have designed several special features and applications to achieve these crucial objectives for our customers.

Baumer's Shrinkwrappers and Combined can now be equipped with the new GreenTech TM Tunnel, patented to guarantee optimal shrinking with ultra-thin film and a reduction in consump-





tion of over 40% compared to the old generation tunnels. Another important patent is the automatic reel change, which allows to reduce the film thickness by 7% and to work without stopping the machine.

The Wrap-Around case packers can work with cartons that are less thick than those of the competition and guarantee considerable production savings.

Each line can be equipped with automatic format changes

that allow you to switch from one format to another automatically by selecting it from the operator panel.

Other applications, that we have developed in recent years, are the 90° and U-Shape infeeds. Two special configurations that allow to reduce the machine overall dimensions up to 50% and to process in continuous motion different products: bricks, square and circular bottles, cans and many others at high production speeds.

Baumer has great expectations towards the future and that is why every year it reinvests more than 6% of its turnover in R&D, in order not only to keep up with the latest market demands, but also to dictate the guidelines of the sector with new technological innovations. Hence our pay off: "implementing innovation". Currently our efforts are focused on the new Rouge project, which will see the light in the coming months. Rouge is the green solution that allows not only to reduce environmental pollution by completely eliminating plastic, but also to lower production costs compared to common case packers. Contrary to the solutions that have been seen on the market, Rouge allows great portability and an attractive look, perfect for any marketing campaign.

Central to Baumer's philosophy is also the after-sales service, we know the challenges that our customers face every day and we are at their side. For this reason, we have developed ad hoc solutions to support them in the best possible way over time. For Example, the last arrive is Baumer Prime, the E-commerce platform that allows you to interact with the 3D of your machine and directly order the necessary spare parts in an easy and fast way.

www.baumer.it



SECTOR

 **SECONDARY
PACKAGING**



RESEARCH AGAINST PLASTIC

Opem Spa, a leading company in the packaging for granular and dry products sector with almost half a century of experience, has for some time been competing for customers with larger competitors thanks to its avant-garde machinery and technologies. Opem Spa designs and builds packaging machinery for food and beverages (with a particular focus on coffee, the company's core business), and for some time it has been trying to reduce the use of plastics preferring alternative materials. Just like in other sectors, the coffee sector is promoting the use of less plastic.

For this reason, the internal Opem Spa R&D department has been making considerable investments to research alternative materials, especially biodegradable, recyclable or completely compostable materials. In view of this, Opem Spa developed a project which was submitted to the European Commission for validation.

The goal of the project was to create a capsule machine and production line that not only use less energy but can also handle recyclable (such as aluminum) and compostable materials.

OPEM SPA has almost half a century of experience in product packaging for the food&beverage sector

The company submitted a project to the EU for a machine that subsequently received an award.

INNOVATION

The project submitted to the European Commission (and for which Opem Spa also received an award), shows how much the company cares about putting forward technologies that provide high production levels with the lowest possible use of materials and energy. The machines designed and manufactured by Opem Spa employ highly energy efficient electric and electronic components as well as Artificial Intelligence control systems combined with top performing mechanical components with minimum weights and clearances. This means each packaged product can be manufactured at an extremely advantageous cost. However, Opem Spa is not just about economic savings, it is also very interested in using more sustainable





materials. In fact, the company makes large use of electronics to make sure its entire machine fleet functions perfectly and without using excess energy. Mechanics also play an important role in company procedures. Opem Spa production lines are not confined to just production; the company ensures they are maintained in top condition to drive down costs and waste (as concerns materials and energy) and, whenever a line reaches the end of its life, it is dismantled in a way that reduces its impact on the environment. Therefore, energy efficiency plays a fundamental role in terms of economic performance for Opem Spa systems. However, all this should not be seen as a mere utilitarian calculation but a virtuous tool for developing a business that conjugates profit with sustainability.

The “smart” version of packaging

Artificial Intelligence has now permeated many companies improving performance and making machines more efficient. Opem Spa has certainly not lagged behind in this area. In fact, by adopting key words such as packaging integration, productivity and flexibility, the company has played a prominent role in the development of its technological innovation projects. Some Opem Spa machines are already equipped with Artificial Intelligence to make sure the company reaches its goals to reduce its environmental impact and manufacture impeccable products.

COMPANY VALUES

Attentive to its customers

One of the characteristics that defines Opem Spa is its ability to always be attentive to its customers' requirements, as well as offering a team of experts who are

great at solving customers' problems. The company is not particularly interested in manufacturing mass produced products, but prefers to offer a customized solution. Therefore, Opem Spa treats its customers to a warm and attentive embrace, offering the opportunity to create a highly developed customized product. Not an easy project when employing high quality technology on an industrial level. Customization and attention to detail do not always match well with mass production (in terms of pods or capsules, Opem Spa can also produce thousands per minute).

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OPEM
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solutions to package your quality

SECTOR

 **FOOD&BEVERAGE**



ULTIMATE FLEXIBILITY FROM INDUSTRY PROVEN TOP-LOADING SECONDARY PACKAGING MACHINES

Following enhancements to their existing highly digital infrastructure – including improvements to class-leading digital twin and virtualisation solutions – Cama Group's top-loading secondary packaging technology is now even more capable of addressing the high-flexibility packaging requirements of a wider selection of industries.

These advances in digitalisation, coupled to Cama's in-house-developed robotic pick-and-place technology and advanced vision systems, mean that end users can maximise the total cost of ownership. The top-loading range – with its wide-ranging flexibility and adaptability – is capable of fulfilling packaging routines and processes that would, in the past, have required multiple separate installations.

"The machines have been designed from the ground up with agility and flexibility in mind," explains Alessandro Rocca, Sales Engineering Director at Cama Group. "Long ago we recognised that market demands and consumer-driven product variation were going to place immense strain on our customers, as they race to adapt to the latest market forces. "Our Breakthrough Generation underpins our answer to these needs," Rocca continues, "with its modular, hygienic and highly customisable design. As technology has evolved, so have our machines' designs, as we leverage contemporary automation technology and advanced mechanical designs. This early decision to go as "digital as possible" has certainly paid off for both us and our customers as we both realise the benefits of a fully interconnected and easily reprogrammable automation infrastructure. "Clearer data pathways and data exchange have also bolstered our in-house

Fully digital control and packaging-industry-specific robotic technology define best practice in secondary packaging

developed robotic solution, which is a unique offering on the market." Rocca adds. "This technology has been developed over a number of years by our in-house packaging technology experts specifically for the packaging industry. This is not an adaptation of typical off-the-shelf technology; this has been developed bespoke to the unique needs of this sector." In operation, the robot-equipped top-loading packaging lines can accept a wide array of in-feed formats, while delivering multiple out-feed options, either in parallel, concurrently or batch-specific. The modular design of the BTG solutions means that additional modules can be added easily, to increase the robot count, to boost throughput. This flexibility is compounded by changeover routines that often taken a fraction of the time compared to industry norms. "By using HMI re-programmable servo systems, digital twins/virtualisation and RFID technology, we have significantly reduced changeovers in terms of both time and effort. Users get it right first time, every time in no time at all!" Rocca explains. Vision systems also play a critical role in the efficiency and flexibility of the packaging cycle. Cameras and vision solutions can be deployed in numerous roles including robot guidance, in-feed and out-feed quality control and traceability. The level of deployment and integration is balanced in relation to customer demands and the level of sophistication,



capability and data capture required. According to Massimo Monguzzi, R&D Manager, at Cama: "Our in-house robotic solution has been fine tuned over the years to work in perfect harmony with vision systems; and this tight integration is illustrated by the pick speeds and accuracies we can achieve. In addition to robotic guidance, quality control is another major beneficiary of the contemporary vision solutions we deploy.

"Product appearance is everything," he exclaims, "either in its naked state or when presented in shelf-ready packaging, which is why we offer solutions on both the infeed and outfeed of our machines. On the infeed we can identify non-conforming products, while on the outfeed we can spot package damage and incomplete closures and – in applications where weighing solutions are not feasible – incorrect product counts too."

Alessandro Rocca explains why quality should never be considered as a fixed off-the-shelf concept: "Quality control is a per-application ethos that we develop with the customer. It's not a fixed concept, it has to be designed and fine-tuned to the product and the application. The definition on each machine and the level to which it is measured is determined by what the customer wants. We always develop our on-machine QC solutions in co-operation with our customers. They know their products better than we do; it is essential that we really listen and take their needs on board. With one customer we spent in excess of six weeks just discussing and developing the QC system.... It really was that important to them!"

Tightly integrated vision systems are also an essential facet of any traceability system, such as those deployed in the pharmaceutical sector. "Traceability practices demand the reading of codes, text strings and other OCR routines," Monguzzi explains. "In addition to accurately identifying and reading the individual product codes you need a means to apply code to secondary packaging either using a printer + label or a print direct to package. Then, once applied, the efficacy of the print needs to be confirmed (legibility and orientation) before passing the data to robust storage and dissemination systems capable of liaising with MIS and enterprise systems. Unlike other machine builders that rely heavily on third parties, this is all managed by us internally. We have partners, but we also have the knowledge and competence in house to design, manage and install these systems, giving our customers a single point of contact. "We can offer this technology across all categories and markets," explains Rocca. "The technology is not tied to a specific sector. One area that is really evolving in term of vision deployment is naked products i.e., unwrapped individual confectionary, frozen or baked goods. These must be examined on the in-feed to ensure accurate pass/fail criteria are met, so that the customer is not disappointed with the product when they open our carefully applied secondary packaging." "We can also scale vision system solutions, from simple cameras up to

complex multi-faceted PC-based approach," Monguzzi adds. "We have used 3D scanner systems in the past and the further deployment of this technology is a major element of our future roadmap and will add a new dimension to our customer's QC capabilities, especially for uneven, non-uniform naked products."

"Our experience of vision technology is very wide in terms of sectors and it is a vital part of our contemporary-technology offering," Rocca adds, "which also includes easy & toolless changeovers, RFID coded components and immersive digital capabilities all underpinned by an Industry 4.0 framework. This digital approach also fosters far greater modularity. You can have one, two, three or even 20 robots... it all depends on the speed you need based on your infeeds or the throughput you require for your outfeeds. 100 to 2,000 products per minute... it really is up to you. And you don't have to decide now! Our modular approach means our machines can be upgraded, extended and enhanced much later in their life to match your market's demands." From initial design, through simulation and testing and onto optimum in-field operation, Cama Group's top-loading machines and all of their associated technology will deliver better, faster, more focussed packaging solutions that enable end users to increase throughput, boost quality, shorten times to market, slash downtime and quickly and easily undertake format changes. End users should never settle for second best or opt for solutions that just 'nearly do' what they want! Cama Group has created packaging solutions that can precisely match a customer's brief and deliver all the requested features, using technology- and knowhow-transfer from the other markets Cama so successfully serves.

www.camagroup.com



SECTOR

✓ SECONDARY PACKAGING



ZACMI, MACHINES, COMPLETE LINES AND PROCESSING PLANTS FOR THE FOOD INDUSTRY

Established in 1954 in Parma, Zanichelli Meccanica SpA manufactures machinery, complete lines and processing plants for the food industry, under the ZACMI trademark.

Represented by over 2,500 installed machines and more than 1,000 customers worldwide, the company relies on a turnover of 30 million Euros, 98% by export and employs more than 110 workers.

Its mission is being a reliable technological partner for the food and beverage industry on a world scale, through long, experience, consolidated know-how and unceasing commitment to innovation, supported by research and development activities. 8% of the annual turnover is invested in the in-house Research and Development Department, that engages five dedicated engineers with five pilot plants to define the best solution for customers' products, and over 2,500 tested products.

ZACMI competences range from filling to seaming, from processing to packaging.

Filling, seaming and packaging

The food and beverage fillers are suitable for solid, liquid and viscous products, in rigid containers, such as glass and plastic bottles and jars, aluminium and tinplate cans. The telescopic filler is designed to fill solid products, whereas the vacuum and piston fillers, are more suitable for liquid and solid product filling and finally, the flowmeter filler is ideal for liquid foods.

The automatic oil-lubricated clean design seamer with 3, 4, 6, 8, 10 and 12 heads, made entirely of stainless steel, is suitable for closing any rigid round can. The vacuum seamer, available with 6 and 8 heads, handles tinplate and aluminium cans for vegetable and granular products and it is provided with very high vacuum level in the chamber (0.9 bars relative pressure). The Double Seam Monitoring (DSM) is a device that monitors seaming in real time, detects any seaming anomalies and/or can and lid defects.

The complete filling and packaging lines designed by ZACMI include: container infeed section, the filling-closing section, pasteurisation-sterilisation section and, in collaboration with other partners, the labelling and packaging section.

ZACMI also offers spiral pasteuriser-coolers, suitable for rigid

and flexible containers, and pouches, as well as tunnel pasteuriser-coolers for food products in rigid containers.

The Customer Care portal, contains information, technical sheets and updated manuals related to purchased machines, where spare parts can be ordered.

The after-sales service provides technical support and training on installation, commissioning, maintenance services and consulting to improve machine performance. The Remote Access Service (RAS) programme connects the company with customers' machines to monitor and support problem-solving and to update the Software online. The Augmented Reality, available through app, enables customers' connection with smartphone, tablet and smart glass and the planning of a live training session to increase the Overall Equipment Effectiveness (OEE).

Filling and closing: ZACMI takes care of it

ZACMI's mission is to study a suitable solution for all customers' requests « ZACMI proposes solutions in the scope of filling and closing: for these two processing phases, we have





developed an increasingly advanced technology, to meet customers' requirements», the Sales Area Manager, Fabio Belicchi highlights. It is worth underlining several aspects of the offer. «Speaking of utmost quality, we immediately think of our D.S.M. system that, mounted on seaming machines, allows the can seaming precision in real time, in combination with the machine setup concept», Mr. Belicchi explains. «Moreover, our filling machines can reconfigure filling parameters according to the various environmental and production conditions». A function that satisfies customers' search for technology able to perfectly match their reality and to suit changing circumstances.

Product quality and integrity, through remote monitoring

«Still speaking of highest quality and integrity», Mr. Belicchi adds, «it is worth underlining that ZACMI filling and closing machines can be equipped with a remote monitoring system: connecting with the user, it is possible to check the machine production parameters instantaneously, enabling the remote machine setup».

ZACMI is highly acquainted with the target of making processing and line configuration phases more flexible and leaner. «ZACMI has hugely invested in maximising its product lines' flexibility, for both single machines and complete lines», Mr. Belicchi confirms. «The Flexible Line concept is linked with the capability of integration and total control for multi-filling lines, where the operator can automatically configure the line through recipe-product». That is not all, Mr. Belicchi adds: «Together with the line configuration management, also single machines of the system can be autonomously configured by the recipe-product to optimize specific filling parameters. Moreover, our filling lines can be

connected with customers' production plans to create a fully integrated production environment (Digital connection to customer production management) ».

Focus on process safety

Another theme on which ZACMI is highly focused is the process safety. «ZACMI machines comply with all national and international legislations and the highest standards of coded safety», Mr. Belicchi outlines. «We have developed some existing systems to further increase the machine safety. Concerning the factory IT security, all operator-interfaces (of single machines and of complete ZACMI lines) are configured with specific access for operators, setting up a matrix for authorization levels that control machine access».

www.zacmi.com

ZACMI[®]
FOOD & BEVERAGE PLANTS

SECTOR

 **FOOD INDUSTRY**



THE M.A.I.A. AND A.L.I.C.E. MACHINE VISION SYSTEMS

Makro Labelling, one of the leading industrial labeler manufacturers, always committed to taking account of, or anticipating, the market's requests, developing products, systems and patents able to guarantee performance, lower costs, less production waste and top-quality packaging. The choice for advanced technological skills, production process rationalization and the ability to anticipate the evolution of the market, brought the R&D department of Makro Labelling to the development of two brand new vision systems for labelling machines.

"The machine vision system is the natural follow-through to the labelling process, as the procedure does not end when the label has been applied. It is necessary to check that the right label has been attached, positioned correctly and smoothed without defects. We at Makro Labelling therefore decided to create an in-house Vision Department and to invest heavily in developing two new vision systems: A.L.I.C.E. and M.A.I.A. We have recently launched them onto the market, and they will guarantee perfect and complete integration with the machine automation and a flexible, intuitive, practical response to companies who know they need automatic systems",

The evolution of the design capabilities of the Goito-based company includes two new machine vision systems guaranteeing performance, less production waste and top-quality finished products

says **Simone Marcantoni, head of the Automation Department.**

Fruit of **about 10,000 hours of software development**, the two systems integrate with the labelling machines and are also simple to manage for the line operator who can thus exploit the system to the full.

In-house development and production of the two systems allows our customers to interface with a single producer, able to guarantee rapid and direct technical assistance and above all to satisfy the market's diverse





packaging needs, once again confirming the concept of flexibility which has been a hallmark of Makro Labelling since the beginning.

A.L.I.C.E. - Advanced Label Inspection and Control Environment

A.L.I.C.E. is a quality control system able to assess the horizontal and vertical position and angle of the label, together with its alignment with respect to a reference point, whether the logo on the glass, a capsule or another label.

The system also checks the label is correct and the overlap of a wrap-around label and can read barcodes, a data matrix or characters, or simply check for the label's presence.

M.A.I.A. - Makro Advanced In-line Analysis

M.A.I.A. on the other hand is Makro Labelling's bottle orientation system. It is based on use of Line Scan Camera technology employing line scan cameras (also mounted on Makro Labelling's patented Follower system) able to take thousands of linear photographs (1x2048 pixels) which, pasted one after the other, produce a single image representing the full length of the bottle. When subsequently analysed, this indicates the position of the reference point to be used by the plate control system to position the bottle correctly and receive the first label in the right position.

"A vision system must not be complex, otherwise the operator will not be able to use it easily, in practice limiting its use. We have seen production lines where the system has been turned off or bypassed because the operator

*is not able to manage it and so decides to do without its assistance. Or the intervention of highly trained but costly engineers is required in order to produce and obtain reliable checks. One of the reasons behind the success of Makro Labelling's machines and systems is precisely our ability to offer functional solutions which, although complex, are available to operators simply and intuitively, giving them hitherto unthinkable possibilities and flexibility. A.L.I.C.E. and M.A.I.A. have once again been designed and oriented towards simplicity and user-friendliness, so the operator can master them completely, quickly and simply," says **Simone Marcantoni**.*

makrolabelling.it



SECTOR

 **VISION SYSTEMS**

 **LABELLING MACHINES**



MULTIBRAND PALLETISER: A CLEVERTECH SOLUTION FOR FOOD & BEVERAGE MARKET



Today, we would like to take an opportunity to talk about the project completed by Cleverttech which involves a system that takes advantage of the multibrand palletiser technology.

The customer is a leading company in the Beverage market with registered office and several production plants in the United States.

The proposed solution is able to **palletise different-size boxes**, from 100x150 mm up to 300x450 mm, reaching the speed of 60 boxes per minute.

The customer's request for a compact and flexible solution that could handle the future needs of the plant was satisfied with a **scalable modular system**.

In fact, with the addition of a second handling robot, the system can reach a speed of 90 boxes per minute.

Multibrand Palletiser: up to four SKUs handled simultaneously

The project involves a Multibrand Palletiser that can handle up to four SKUs simultaneously.

The products, which arrive from four different production lines, are mixed and conveyed across the production facility until they reach the palletisation area.

A separation system that uses **Intralox Darb technology** was installed here, making it possible to divide the four SKUs across four independent accumulation lines. In addition, a Rejection Unit was added in this area for products that don't scan correctly.

The products are then conveyed from the separation system to the Multibrand Palletiser, which lays the products, layer by layer, over **four pallets simultaneously**.

The system uses Hybrid technology with positive pattern forming. Because of its **anthropomorphic robot**, the



system is perfect for handling particularly unstable products, such as **trays and bundles**, even without film, in their “ready to display” version.

Simple maintenance and easily accessible

In terms of maintenance, the solution eliminated all moving parts; this means that the layer formation area is more easily accessible to operators.

It uses **modular belts** to simplify maintenance of the system.

The system has **two pallet** magazines that can handle two different pallet sizes at the same time, as well as a slip sheet, tie sheet, and a top sheet magazines.

Automation, integration and traceability

Once palletised, the product is sent to the PF80 wrapping platform, a **rotary ring stretch wrapper** featuring automatic reel change system. PF80 is equipped with an automatic vertical frame application system.

The frames brace pallet corners to protect fragile products.

The system meets the criteria for **perfect integration** from a mechanical, electrical and software point of view

and makes it possible to **perfectly trace** the product from any point of the line.

Thanks to the flexibility of the system, the palletisation and stretch wrapping processes can be **customised** to the different products being handled.

www.clevertex-group.com/it/

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SECTOR

 **FOOD & BEVERAGE**



TOSA GROUP, COMPLETE RANGE OF WRAPPING MACHINES, STRAPPING MACHINES, SHRINKING MACHINES

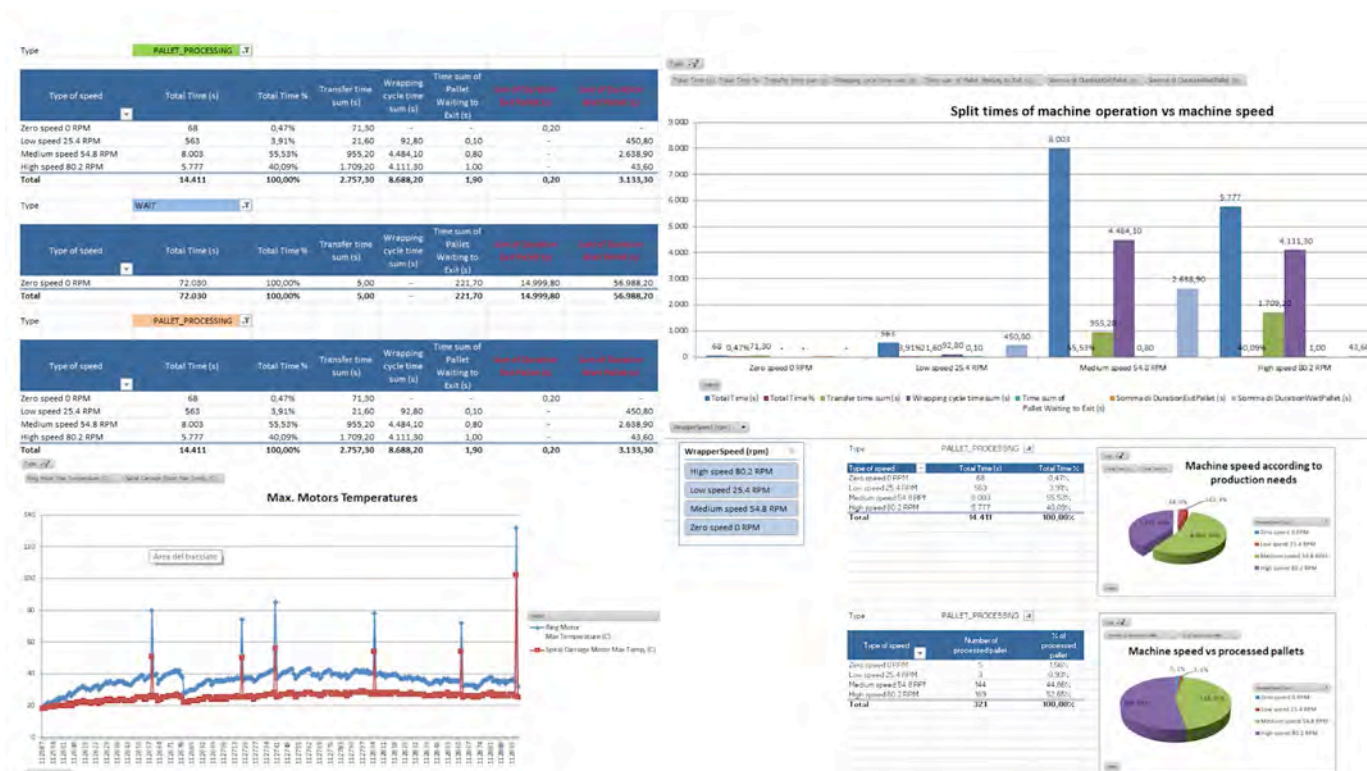
Tosa Group, known worldwide as a leading manufacturing company in the end of line sector, is able to meet every need of stabilization and safety of loads, whether palletized or not, with a complete range of wrapping machines, strapping machines, shrinking machines.

Tosa Group recently worked on a brand new software based on a cloud computing source for data monitoring: T-HYPOTHALAMUS. T-HYPOTHALAMUS was conceived from a partnership between skilled Tosa technical personnel and a local company specialized in the field of information technology. Its main goal is to provide Tosa Group's customers with a product able to support the continuous demand for data analysis.

As a matter of fact, T-HYPOTHALAMUS combines innovation and connection, allowing the user to access, analyze and manage data and other sorts of events extrapolated by machines manufactured and supplied by Tosa Group, from a mobile device as well as a PC. Its aim is to supply

an update system for data monitoring that keeps in mind that the data gathering operation will be useless without a vision and a structured analysis. Moreover, the system was designed in such a way that the complete privacy of the information is guaranteed.

The use of the platform allows access in real time to several indicators, collected with a precise vision and analysis path. First of all, a global view of production data and machine performance is visible, with production speed, product and pallet dimensions, wrapping cycle timings included. Secondly, the calculation of the key performance indicators used in non-manufacturing utility industries, that is OEE (Overall Equipment Effectiveness), MTTR (Mean Time To Repair) and MTTF (Mean Time To Failure), is tracked. Thirdly, we have all data related to machine conditions (functioning time, downtime, alarms, waiting time between two cycles, overall cycle counters, consumable breakages and replacements), together with the preventive maintenance timeline and preventive maintenance notifications. At last, T-HYPO-





THALAMUS offers a comprehensive view of carbon footprint data, including stretch film, power and compressed air consumptions.

The features of Tosa Group brand new software allow users not only to manage and optimize machine performance together with increasing cost savings by monitoring machine consumption, but also to better understand production flow and the most frequent faults. Thanks to all these indicators, clients can make a plan of preventive maintenance using a simple but significant tool: the system can automatically notify the operation to be performed via email to a pre-set list.

T-HYPOTHALAMUS really renews the way users look at their machine performance. One of its most appreciated functions is indeed the advanced troubleshooting: the software is able to show a graphic interface that scores the faults occurring during the overall machine lifetime. This is certainly a big benefit with respect to a simple PLC (Programmable Logic Controller), considering that it can store the information only for a limited period of time. Besides, the opportunity to match the activity the machine is carrying out when the fault is occurring, allows an advanced analysis to investigate the faults, thus leading to performance improvement.

Furthermore, another great and innovative function is preventive maintenance self-calculation. T-HYPOTHALAMUS revolutionizes maintenance concept by helping you on

several fronts. In fact, thanks to its structure, the system can predict preventive maintenance events based on the actual use of the machine and it notifies the operations needed to be performed to the maintenance chief. In conclusion, T-HYPOTHALAMUS is the innovative way to see instead of simply looking at your data. This all-new cloud-based software, with real time access to production and performance data, KPI, carbon footprint data, operations conditions and maintenance status, allows Tosa group and end users to link their know-how in order to optimize machine performance to the top level.

www.tosagroup.com



SECTOR

END OF LINE



LABELX®: THE TOP OF THE RANGE FOR AUTOMATIC LABELING MACHINES PRODUCED BY LABELPACK®

The automatic labeling machines by the LABELX® collection are a reliable and high-performance solution for:

- integration of flow-pack packaging lines.
- vertical bagging machines.
- cartoning machines.
- vacume packaging/ clear film machines.
- product packaging lines.
- ... and more.

LABELX® ES is the principal model of the collection, is available in three different widths starting at 140 mm, then 250 mm and 350 mm, and offers a wide range of accessories that facilitate integration into any automatic packaging line. The advanced electronic management available for each model, ensures high speed and an optimal level of application precision.

All operating parameters are easily managed via a colored touch screen operator panel.



Integrated with a thermal transfer printing unit, LABELX® becomes a sophisticated printing and applying system capable of applying labels to single packs or bundles with exceptional productivity and many optional features, including:

- unhindered performance on the production line.
- control of proper application of each label.
- ability to check legibility of each label.
- barcode compliance.

The LABELX® collection also has the following models:

LABELX® RM, with double motorization: this model is equipped with a reel holder that has a diameter of



SECTORS

 **PACKAGING**

 **LABELLING**



400 mm., useful for managing normal autonomy operations and capable of reaching application speeds of 80 m / min.

LABELX® JR, a model that is suitable for medium and low productivity applications and can be equipped with thermal transfer printing modules for variable data and barcode printing.

LABELX® and LABELX® JR two key labeling systems, specifically designed by LABELPACK® for the food sector:

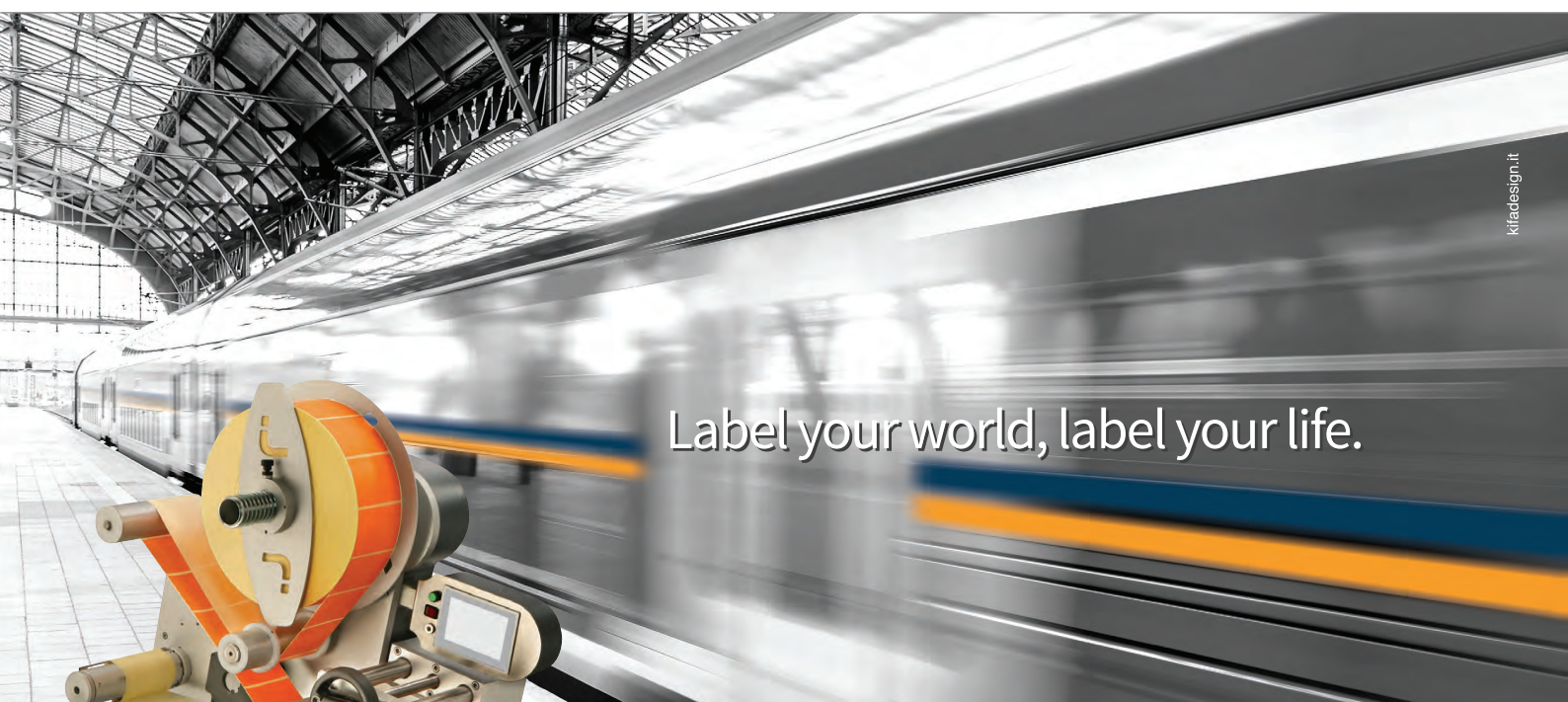
COMPACT, the entry level series of automatic labeling system: available in 8 standard models, this system offers countless customizable solutions while the LABELX® JR series labeler is capable of applying labels with heights up to 140/250 mm.

MODULAR, the top-level series of automatic labeling systems: suitable for meeting high production requirements, it is equipped with all the features required to satisfy integration into processes relating to industry 4.0.



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Visit: **www.labelpack.it**



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Print & Apply solutions for boxes and pallets.



OPEM SPA HAS ALMOST HALF A CENTURY OF EXPERIENCE IN PRODUCT PACKAGING FOR THE FOOD&BEVERAGE SECTOR

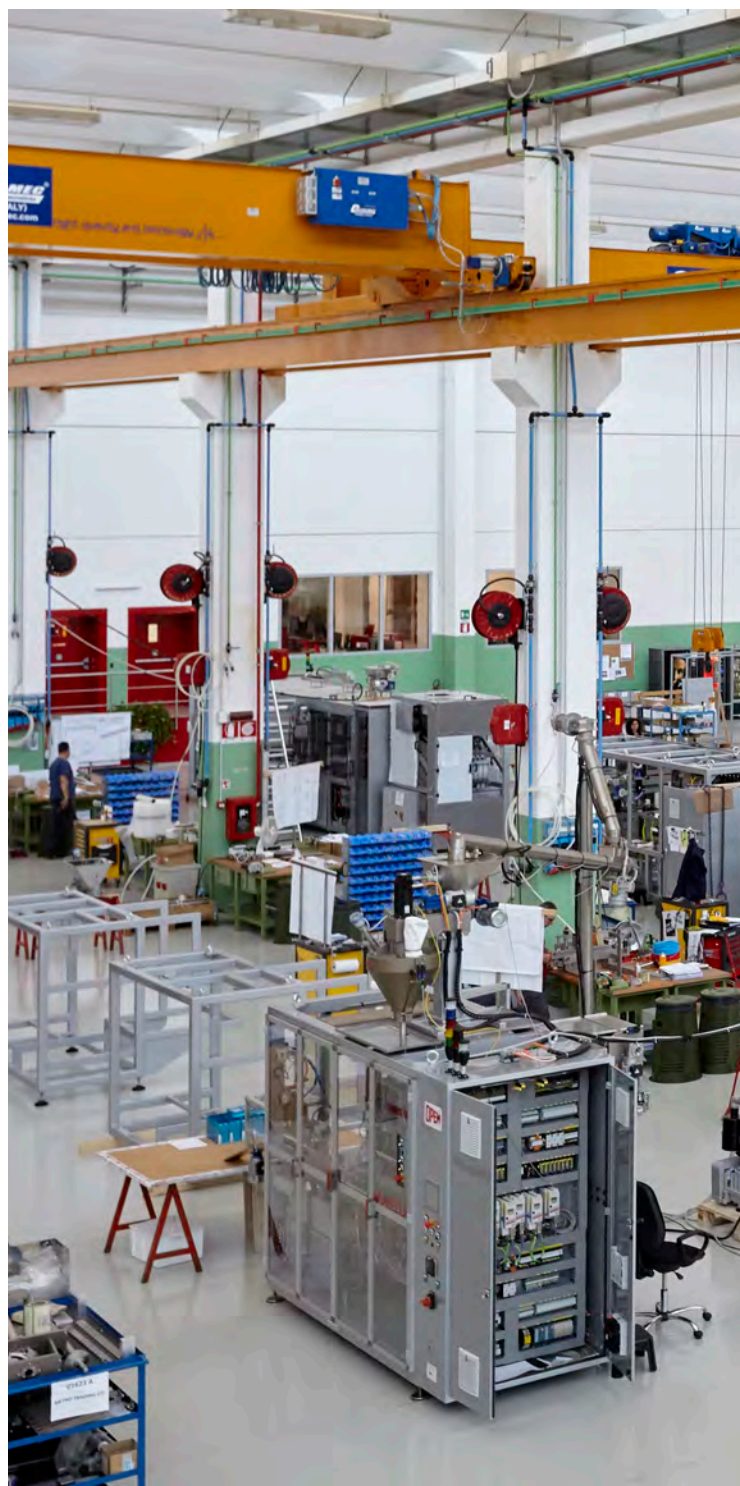
R **ESearch AGAINST PLASTIC**

Opem Spa, a leading company in the packaging for granular and dry products sector with almost half a century of experience, has for some time been competing for customers with larger competitors thanks to its avant-garde machinery and technologies. Opem Spa designs and builds packaging machinery for food and beverages (with a particular focus on coffee, the company's core business), and for some time it has been trying to reduce the use of plastics preferring alternative materials. Just like in other sectors, the coffee sector is promoting the use of less plastic.

For this reason, the internal Opem Spa R&D department has been making considerable investments to research alternative materials, especially biodegradable, recyclable or completely compostable materials. In view of this, Opem Spa developed a project which was submitted to the European Commission for validation. The goal of the project was to create a production line that not only use less energy but can also handle recyclable (such as aluminum) and compostable materials.

INNOVATION

The project submitted to the European Commission (and for which Opem Spa also received an award), shows how much the company cares about putting forward technologies that provide high production levels with the lowest possible use of materials and energy. The machines designed and manufactured by Opem Spa employ highly energy efficient electric and electronic components as well as Artificial Intelligence control systems combined with top performing mechanical components with minimum weights and clearances. This means each packaged product can be manufactured at an extremely advantageous cost. In fact, the company makes large use of electronics to make sure its entire machine fleet functions perfectly and without using excess energy. Mechanics also play an important role in company procedures. Opem Spa production lines are not confined to just production; the company ensures they are maintained in top condition to drive down costs and waste (as concerns materials and energy) and, whenever a line reaches the end of its life, it is dismantled in a way that reduces its impact on the environment.





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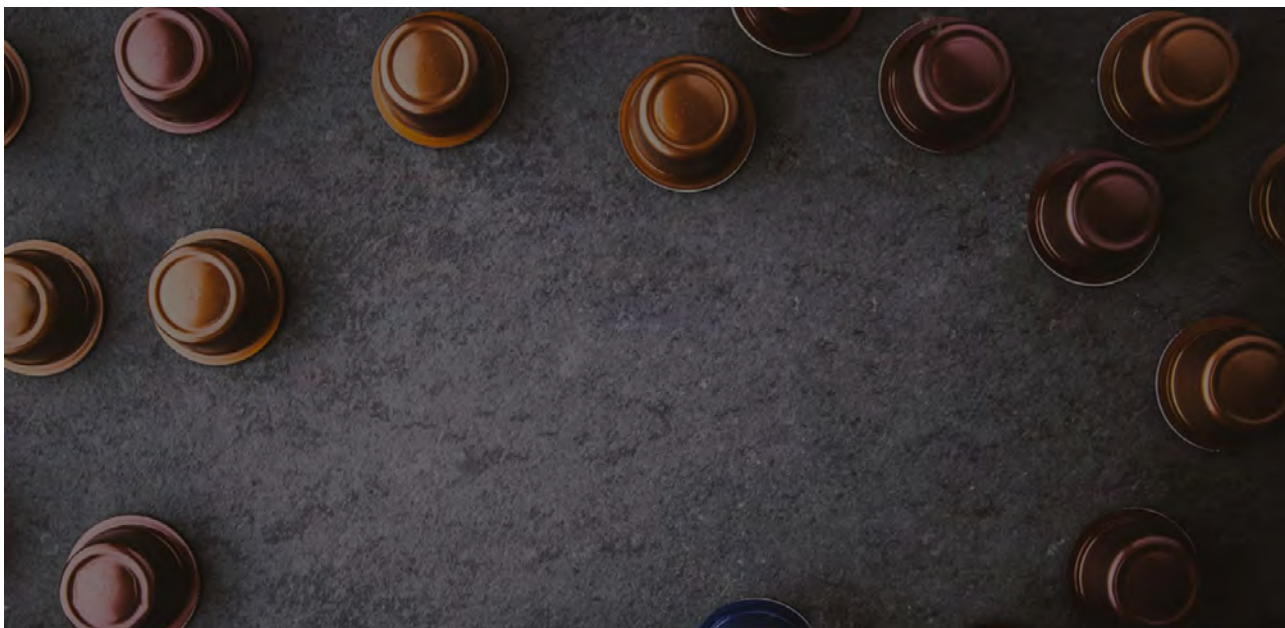
✓ PACKAGING

✓ FOOD

✓ AUTOMATION

packaging INTERNATIONAL





COMPANY VALUES

One of the characteristics that defines Opem Spa is its ability to always be attentive to its customers' requirements, as well as offering a team of experts who are great at solving customers' problems. The company is not particularly interested in manufacturing mass produced products, but prefers to offer a customized solution. Therefore, Opem Spa treats its customers to a warm and attentive embrace, of-

fering the opportunity to create a highly developed customized product. Not an easy project when employing high quality technology on an industrial level. Customization and attention to detail do not always match well with mass production (in terms of pods or capsules, Opem Spa can also produce thousands per minute).

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ALTECH: THIRTY YEARS DEDICATED TO LABELLING

Founded in September 1991 by a small, but dynamic team of individuals led by the industrious and trailblazing Piero Salvini, ALTECH gradually established itself as a leading company in the production of labelling machines, constantly challenging itself to create, adapt, and implement the most diverse and innovative labelling solutions and satisfying the needs of the most disparate food and non-food sectors.

It is thanks to these three decades of experience that the company, now led by Paolo Salvini, the second generation of leadership which has actively contributed to the company's development, today boasts a brand new, 3500 square-metre facility located just outside of Milan, as well as an extensive market that is 80% overseas and supported by 80 distributors and three additional branches located in Great Britain, the United States, and Argentina.



Today the company boasts a brand new , 3500 square-metre facility located just outside of Milan, where the most innovative labelling solutions for all food and non-food sectors are built and assembled.



The Bareggio facility builds and assembles approximately 2000 labelling machines per year, both large systems and small stand-alone machines, and employs more than seventy people.

In short, the company produces labelling systems that combine manufacturing quality with ease of use and reliability, providing original solutions that have been developed through scientific research.

These characteristics have contributed to ALTECH's systems being adopted by a growing number of clients, which, in turn, has allowed the company to become one of the recognised world leaders in its sector.

After two years in which it was impossible to meet, we were finally able to sit down with Paolo Salvini and chat about how this most recent period has been for the company as well as what its immediate prospects are.



A CHAT WITH PAOLO SALVINI

Mr. Salvini, this special anniversary is taking place during a very unique moment in history. After 2020, which was characterised by a sudden pandemic, it seems that we're finally seeing the light at the end of the tunnel. How did Atech handle this period?

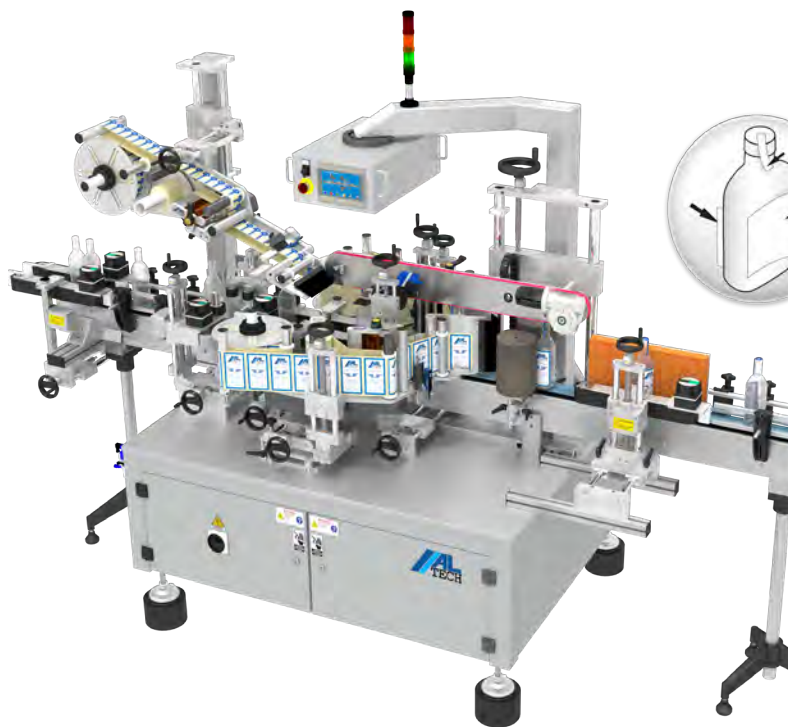
Overall it went well. Initially, like everyone else, we were shaken and had to understand how to deal with such an unexpected event. But soon our company was included, according to the Ateco codes, on the list of those that were able to continue doing business, being essential to industry. Therefore we were able to continue working, progressively weathering all of the inevitable challenges that came with the situation. But after a settling in phase, our activities then continued without interruption, and I'm satisfied to say that overall things didn't go badly at all.

Some sectors, like the packaging sector for example, have in fact grown in recent years. Is this true for the labelling sector as well?

In 2020 we actually didn't experience any drop at all in terms of sales and revenue, while 2021 is turning out to be a year of growth. The market is responding very well and our sales numbers have definitely increased. The only problem is the scarcity of raw materials and the related rise in costs, but overall we can't complain, seeing as how, regardless, we're among those sectors that have been less affected by the crisis. In fact, in addition to being active in the cosmetic and manufacturing sectors, we work quite a bit with the food and pharmaceutical sectors as well, which certainly haven't experienced any downturns.

What industrial sectors have given you the greatest satisfaction over the past few years?

Definitely the food sector, where there's been significant growth. The growth has actually been global. Labelling machines are objects with a very broad spectrum: everyone needs them. Everything that's produced needs a label.



We have the privilege of being useful to every product sector, and this allows us to have excellent stability. If one sector slows down, there's always another one that's picking up. Not only that, but we have an excellent sales network that includes about eighty dealers that supply 50 countries worldwide. This geographic distribution also ensures stability, because when demand drops in one area it tends to rise in another.

Speaking of which, what percentage of your revenue comes from exports?

About 75% in value and 80% in machines.





What trade shows will you be participating in in the near future?

The next trade shows we'll be participating in are Ipack-Ima, in May 2022 in Milan, and Pack-Expo in Chicago in October. Then in 2023 we'll be at Interpack. We're already getting ready for Ipack-Ima and are choosing which machines to bring. I think the trade show will go well, both for us and for the event itself. The long wait has built up expectations that I believe will be met. In general there's a strong desire to resume normal activities and people are very enthusiastic. We'll finally see our clients in person again and will get to display our machines the way we like to and the way we always have.

We like to do business face-to-face and show our machines in person. We can't wait to resume in-person activities.

ENOUGH WITH VIRTUAL MEETINGS!

Are there any new products in your labelling solutions?

We'll be presenting something new at Ipack-Ima. But right now we're focusing on our clients, who we work very hard to satisfy, scrupulously respecting delivery times.

Speaking of clients, do you have any new ones?

Yes, we have new contacts in areas like the Far East and Eastern Europe, where previously we weren't present, but we also have new clients in Italy.

There's definitely a steady increase in new clients.

Our work is, after all, to produce innovative industrial labelling machines, a focus which is expressed in the name of our company itself: ALTECH, Advanced Labelling Technologies.

www.altech.it



Exports in numbers

- ✓ 75% of revenue
- ✓ 80% of machines
- ✓ 80 distributors around the world



COMPLYING WITH THE LAW IN PACKAGING MATTERS

BEUMER Group: High-capacity packaging system handles films made of recycled material

Many packaging system owners, who fix and package goods ready for dispatch by using stretch film for transshipment on pallets are unsettled: Since the beginning of 2019 the new packaging law has been in force. Its aim is to avoid waste and increase recycling. Therefore, many films will contain more recycled material in future, which might considerably change their properties and also the handling. Can the owners of packaging systems continue with the use of their systems? Yes, says BEUMER Group. Your high-capacity BEUMER stretch hood A packaging system processes these films as usual and in a very reliable way.

“At the centre of the packaging lines we install with our customer’s is the high capacity BEUMER stretch hood A packaging system,” says Jörg Spiekermann, sales manager for palletising and packaging systems in the Consumer Goods area of BEUMER Group. No matter if it is washing machines, paint buckets, barrels or champagne boxes on pallets: the system always covers each product efficiently with a highly elastic stretch hood. This is also possible if the content shall not come in contact with the surface of the container for example.

This is the case for lubricants and adhesives, antifreezes, resins, brake cleaners, as well as for bulk material such as pellets. The inside of the barrel or of another container is lined with a film hood.

“During transshipment and outside storage, the merchandise is protected reliably against environmental influences such as sunlight, dirt and humidity,” Spiekermann explains. “Furthermore, the packaging ensures that the products remain stable on the pallet on the loading space of the trucks without moving.”

The BEUMER stretch hood A packaging system is able to package reliably up to 110 pallet stacks per hour with a stretch hood made of conventional films, having film strengths reaching between 40 and 150 micrometers. But what about thinner films or films which are more rigid, smoother or less elastic? These are the questions posed more and more by the owners of packaging systems since



the new packaging law came into force at the beginning of 2019 changing a lot of things.

More recycling in Germany

When it comes to recycling, the multiple properties of plastic become a problem. In Germany, for example, more than 90 percent of all plastic waste is collected again, but only 43 percent of it is recycled and then reused. Well over half, 55 percent in total, end up in incineration plants and are used to generate electricity and heat or are processed into alternative fuels.

In order to change this, the manufacturers of consumer goods, building materials or furniture as well as the film producers have to change their way of thinking. Currently, most of the plastic is extracted as primary material from crude oil. In the future the parts of recycled plastic should perceptibly increase: this is what politicians and recycling companies in the European Union want. “Our target is less plastic packaging and more recycling. To achieve this target we need all parties involved: manufacturers, trade and consumers,” says Federal environment minister Svenja Schulze.

With the new law, we in Germany will recycle considerably more than before.” For example, the recycling rate for plastic packaging will increase from 36 percent to 58.5 percent and to 63 percent by 2022. This means that the owners of recycling systems must be able to prove that they recycle an appropriate part of the packaging they accept. The new packaging law is mainly intended to prevent waste and increase recycling.

Recycling is efficient

For the film manufacturers who supply BEUMER Group, this is an economical solution to recycle their own production waste. The old material can be processed into regranulate and fed back into the production cycle. The



SECTORS



PACKAGING



AUTOMATION



FOOD

The owners opt for the BEUMER stretch hood A packaging system to protect the goods from dust and pests



utilisation of ones own regranulates permits the manufacturer to conserve resources, reduce emissions, minimise waste by recycling and avoid environmental impacts. Ideally: their quality can be even compared to that of new material. "In this case, nothing changes for our packaging system," emphasizes Spiekermann.

However, the film properties can considerably change due to the portion of recycled material. The BEUMER sales manager mentions a film manufacturer, who relies simultaneously on high quality and less material. "The stretch films are therefore thinner but more efficient than conventional films," he says.

Thus, the packaged products are secured in optimum way and at the same time less material is used. The result is a higher production throughput and less exchange of film rolls at the machine. Spiekermann: "We have thoroughly tested the film with our BEUMER stretch hood A packaging system, which handles these thin films in a safe and reliable way".

Together with the film manufacturers, the BEUMER experts have performed tests and analyses with various films in their in-house R&D centre. "We have noticed that films with a high portion of recycled material behave like



The machine is easy and safe to operate

conventional plastic material during processing," says Spiekermann.

Clean packaging as usual

So everything is clear? "Yes", the BEUMER expert is sure. "We welcome the new packaging law. After all, sustainability is part of our corporate philosophy." Thus, the users can continue to use the high-capacity packaging system to cover detergents, paint buckets, barrels or champagne boxes on pallets with a highly elastic stretch hood. The film fits very tightly, 'like a second skin', to the entire stack and thus, ensures the necessary stability even with the new films we tested," Spiekermann describes.

www.beumer.com



The palletised goods can be forwarded to the packaging system through the roller conveyors



The pallets are packaged in short cycle times. The machine covers the products with a highly elastic stretch hood



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ATTENTION TO INNOVATION AND RELIABILITY CHARACTERIZES END-OF-LINE AUTOMATION SOLUTIONS

Geo Project Industries (GPI Group), through continuous research, based on a consolidated technological know-how, designs and manufactures complete end of line systems, which have an optimal response in satisfying the requirements of its customers in the world.

The complexity of the problems faced and resolved constitutes the “benchmark” on which the skills of the staff who operate at various levels within the Company are based. Currently the design, with the help of the latest generation software, allows to develop the most realistic simulations, ensuring customers can evaluate all the dimensional and functional aspects of a proposed solution.

Since its foundation, the main objective has been the cultivation of highly specialized skills that could meet and satisfy the specific needs of the customer. The new marketing trends increasingly involve the use of various packaging formats, therefore a strongpoint of GPI Group are the personalized solutions, accompanied by particular attention in testing and a prompt after-sales service. The evolution in packaging design furthermore requires continuous study to be able to safely and securely handle the most varied types of products, in this sense the cartoning and palletizing of innovative boxes (custom cases, tray/lid, wrap-around) is the specialty of the GPI Group.

The product range includes Forming machines, Side loading Cartoning Units, Cartoning machines, Closing Units, All in One Units, Traditional and Robotic Palletizers, in addition to the other equipment needed for integrated lines. The many years of experience of the designers, combined with the know-how acquired in dealing with the most varied packaging solutions, have ensured GPI Group can propose innovative and high-performance machines that combine gentle handling of the product with high speed.

Particular attention is also dedicated to territorial marketing and communication. The dialogue between area managers and worldwide agents is continuous and collaborative, not only in relation to sales and assistance but also to marketing, in order to meet local needs in terms of communication support.

www.duettipackaging.com





SECTORS

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IJSBOERKE ICE LOLLIES CHOOSE NATUREFLEX™

The Belgian Ice-cream Group (BIG), has chosen NatureFlex™ renewable and home compostable films for their ice lolly packaging. The ice lollies consist of two product lines in the Ijsboerke Fruit & Veg range; Bomb & Frisko. 'Bomb' includes the colour and

flavour combinations of; Green: Lime, apple and spinach; Orange: orange and carrot; and Red: raspberry and beetroot. While 'Frisko' offers Green: pear, kiwi, cucumber, spinach and lemon; and Red: strawberry, red grapes, banana, acerola, red beetroot and lemon.





While the ice lollies natural ingredients offer a healthier alternative to more traditional ice lollies, they are also wrapped in film that has been designed to meet the growing demand for environmentally responsible packaging.

NatureFlex films are made from renewable wood pulp sourced only from responsibly managed plantations. The films are home compostable after use and have been independently certified for home compostability according to TÜV Austria Home.

They also meet all European and international standards for industrial composting such as EN13432. In addition, they offer excellent barrier properties and ensure the product is protected while in the store and home freezer.

BIG has chosen their trusted packaging partner Bio4Pack to supply the packaging films from Futamura.

Anke Frencken, Marketing Manager at BIG said; "It is thanks to Bio4Pack and Futamura we were able to launch our new product range in packaging that is not only super good looking, but great for our planet too!"

Patrick Gerritsen of Bio4Pack added; "We have been supplying Futamura's compostable NatureFlex films for many years now and we are delighted that we are able to partner with BIG for their ice lolly launch."

The ice lollies are currently sold in Belgium at major retailer Carrefour as well as some smaller retail outlets and food service companies.

www.futamuragroup.com/en



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IMA GROUP

As a principal designer and manufacturer of automatic processing and packaging equipment, we have gathered our major strengths to create a cluster of companies with a view to accompanying key players in the chocolate and confectionery sector towards new goals and better business.

The benefits of a single provider

Presenting ourselves as a unique source for this sector, we can count on a solid background and a number of assets. Firstly, our **widespread presence in international markets** and a **track record of pioneering innovations** in the field of packaging across several industries. Secondly, in-depth **knowledge of all steps in the process** going from raw material processing to end-of-line packaging. Each of the companies in this new cluster contributes with a **specific expertise, experience and knowledge of market trends**, all of which is merged synergically into a single-provider concept.

This approach allows us to serve the industry better than if we were acting separately. We can optimise resources, ensure global coverage and local services, share experience and guide our customers towards solutions that will respond closely to tomorrow's market trends. **From concept to installation**, we supply **turnkey lines** or **single machines** on a case-by-case basis.

The wealth of our experience at your service

Countless solutions are available from our cluster of specialist companies, starting with divisions that are the backbone of the IMA Group. Processing technologies are accounted for by **IMA ACTIVE** based on our experience in mixing, granulation, tableting and coating. Thanks to a dedicated laboratory both in Italy and in the USA, customers benefit from expertise and support to test, develop and op-





IMA announces a cluster of specialised companies to act as a single provider in support of the Choco & Confectionery industry



e Most

SECTORS

✓ PACKAGING

✓ FOOD





timise products and processes. **IMA GIMA** contributes with experience in primary packaging, providing solutions for gum, soft, chewy and hard candy and jellies. These include wallets, cartons, tins, jars and bottles; stand-up cartons also for chocolate and nougat. Furthermore, the division's engineers also design the packaging lines starting from the package itself in order to supply a tailor-made solution. With experience stretching back over decades, **IMA SAFE** specialises in blister packaging, counting and cartoning for gums and candies. Already part of **IMA FLX**, our flexible packaging hub, where we develop the most advanced technologies for flexible packaging and research eco-compatible solutions, companies such as **IMA ILAPAK**, **IMA DELTA SYSTEMS** (USA), **IMA EUROSICMA**, **IMA TECMAR** (Argentina) all contribute to making the new cluster of Confectionery specialists a one-stop answer for packaging excellence.

They account for Vertical and Horizontal Form Fill & Seal machines for any type of confectionery product, including lollipops, marshmallows, choco tablets and bars as well as those listed above. Packaging varies from Doypacks to block bottom and quad seal bags, and pillow bags. Secondary packaging or end-of-line solutions come in the form of overwrapping, stretch and shrink wrapping, top and side-loading cartoners for display boxes, wrap-around tray packers, multipurpose cartoners, side-loading, top-loading and wrap-around case packers, and palletizers. These are developed by **IMA GIMA**, **IMA CIEMME** and **IMA BFB**.

IMA Zero: the Corporate sustainable development project

Born in 2019, IMA ZERO is the foundation of the Group's sustainable development program. It has the ultimate goal of **minimizing environmental impact in industrial manufacturing** and of promoting and creating a working and living habitat that always puts people at the centre.

IMA ZERO is composed of 4 programs: NoP (No-Plastic Program), LOW (Low Impact Program), E-MOB (Sustainable Mobility Program), and YOU (Human-Centric Program).

In particular, with the **IMA NoP** Program, the Group promotes **eco-friendly plastic substitutes for the packages** manufactured on its machines.

Through the IMA NoP Project, the machines are developed to be easily configured and equipped to properly run new generation sustainable and innovative materials such as paper-based, compostable, biodegradable or ultra-thin films and get same performance of "non-green" packaging.

Within the IMA NoP Program, IMA has established the **OpenLab**, a network of technological laboratories and testing area in four IMA plants in Europe and – from this year – also in the US.



In the labs, **Material Specialists** carry on researches on sustainable packaging materials, glues, inks, technologies, and production optimization processes. Thanks to the fact that the labs are physically inside the production facilities, we can perform **materials or glue machinability**

tests directly on the machines present on the shop floor.

This is just a part of our consultancy service, whose aim is to devise **integrated processing and packaging lines** to enhance the quality and efficiency of your production.

Make the Most in the choco & confectionery market - our special online platform

Register at the link below and enjoy our on-demand video-interviews on our solutions for all stages of your process.

www.ima.it



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





Make the most of every sweet.

IMA announces a cluster of specialised companies to act as a single provider in support of the Choco & Confectionery industry.

As a principal designer and manufacturer of automatic processing and packaging equipment, we have gathered our major strengths to create a cluster of companies with a view to accompanying key players in the chocolate and confectionery sector towards new goals and better business. From concept to installation, we supply turnkey lines or single machines on a case-by-case basis for gums, candies, coated sweets, choco & bars.

IMA CONFECTIONERY. Make the most, with us.

Ima.it/makethemost/confectionery



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, Carlucci 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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**SOME THINK THAT
LOAD SAFETY
REQUIRES LOTS
OF PLASTIC FILM.
WE THINK
DIFFERENT.**

FIRST COMPOSTABLE ELECTROSTATIC DISSIPATING ANTI-CORROSION FILM IN THE WORLD!

Breakthrough Packaging Technology for Electronics Industry

EcoCortec® is pleased to announce the world's first Eco-Corr Film® ESD - biodegradable, compostable static dissipative films and bags powered by "Nano" VpCI®. This latest film technology is targeted mainly for electronics, telecommunications, packaging, and electric car industries seeking environmentally friendly packaging solutions.

In anticipation of new EU regulations penalizing sales of non-recyclable plastic packaging materials, EcoCortec® is offering revolutionary, commercially compostable alternative to conventional polyethylene electrostatic dissipating (ESD) films. Eco-Corr Film® ESD products are high performance anti-static, corrosion inhibiting films and bags intended for disposal in a commercial composting environment.

They are designed for use in the protection of static sensitive multi-metal items such as electronics.

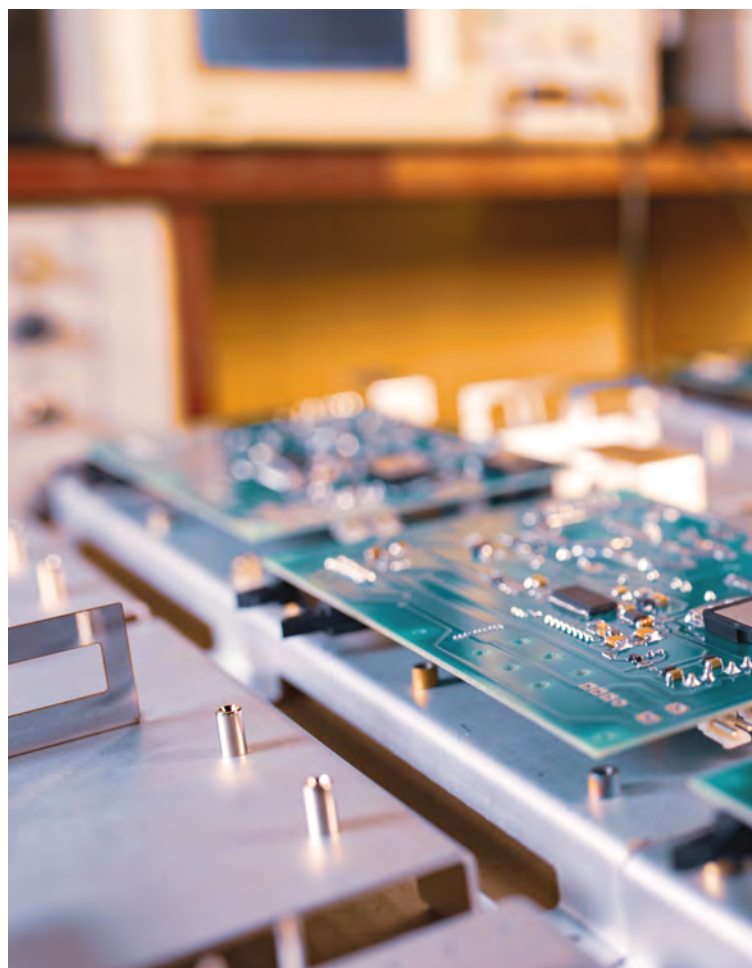
The film contains permanent anti-static properties to immediately reduce or eliminate static buildup as long as the films or bags are in use, independent of the presence of humidity. Eco-Corr Film® ESD forms a molecular corrosion inhibiting layer on metal substrates and does not interfere with the physical or chemical properties of electronic components.

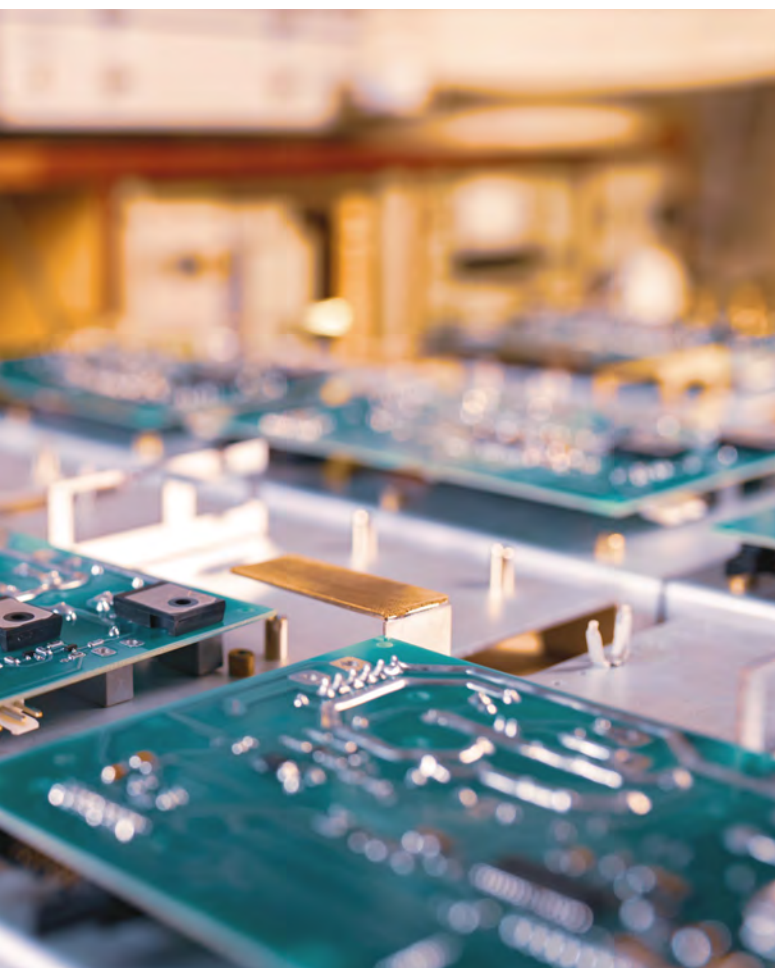
The film and bags replace conventional rust preventatives such as oils and desiccants and allow the film to be used immediately without cleaning or degreasing. Eco-Corr Film® is commercially compostable, meaning that when the film is placed in a typical commercial composting environment it will disintegrate within months. The exact time is dependent upon the conditions and activity of the disposal environment (temperature, soil quality, activity of microorganisms). Eco-Corr Film® ESD is shelf sta-

ble and will not break down prematurely until disposed of in a proper composting environment.

FEATURES

- Contains Vapor phase Corrosion Inhibitors (VpCI®) to protect void spaces and recessed areas
- Contains permanent anti-static agent





- Does not affect optical properties
- Does not affect plastics used in electronics industry
- Does not contain free amines or harmful Prop 65 ingredients
- Commercially compostable packaging film that provides contact, barrier, and vapor corrosion inhibition
- Meets NACE TM0208-2008 standard for corrosion protection
- Meets German TL-8135-002 standard for corrosion protection
- Complete replacement for non-degradable and inferior blend films
- Static decay rate conformance to MIL-PRF-81705D
- No ill effects on solderability of PCB, meeting the requirements of IPC-JSTD-003C, Am1 (Edge Dip Solderability Tests)

A Czech subsidiary of one of the world's three largest car manufacturers, selected Eco-Corr Film® as a biodegradable substitute to reduce the amount of conventional plastic packaging they use.

They tested Eco-Corr Film® as part of their new “green” logistics project aimed at decreasing plastic consumption.

Eco-Corr Film® was tested as part of the pilot project of packaging car parts for shipment to their plant in Pune, India. Several tests were conducted for compliance with



strict conditions for transport in sea containers. Quality control did not show any damage or traces of corrosion on the components wrapped in Eco-Corr Film® upon arrival in India.

In order to test if the film were able to be composted according to plan, the staff built compost bins near the plant. After six months, the foils had largely disintegrated in the compost bins, helping them to eliminate plastic waste.

Eco-Corr Film® successfully replaces conventional plastic films they used previously and provides the same effective corrosion protection.

Composted packaging material will be used as soil improver at the plant's logistics park. Manufacturer was able to cut the amount of conventional plastic packaging in half thus eliminating a significant amount of plastic waste (as much as 500 kg [1102 lbs] per month).

www.cortecvci.com

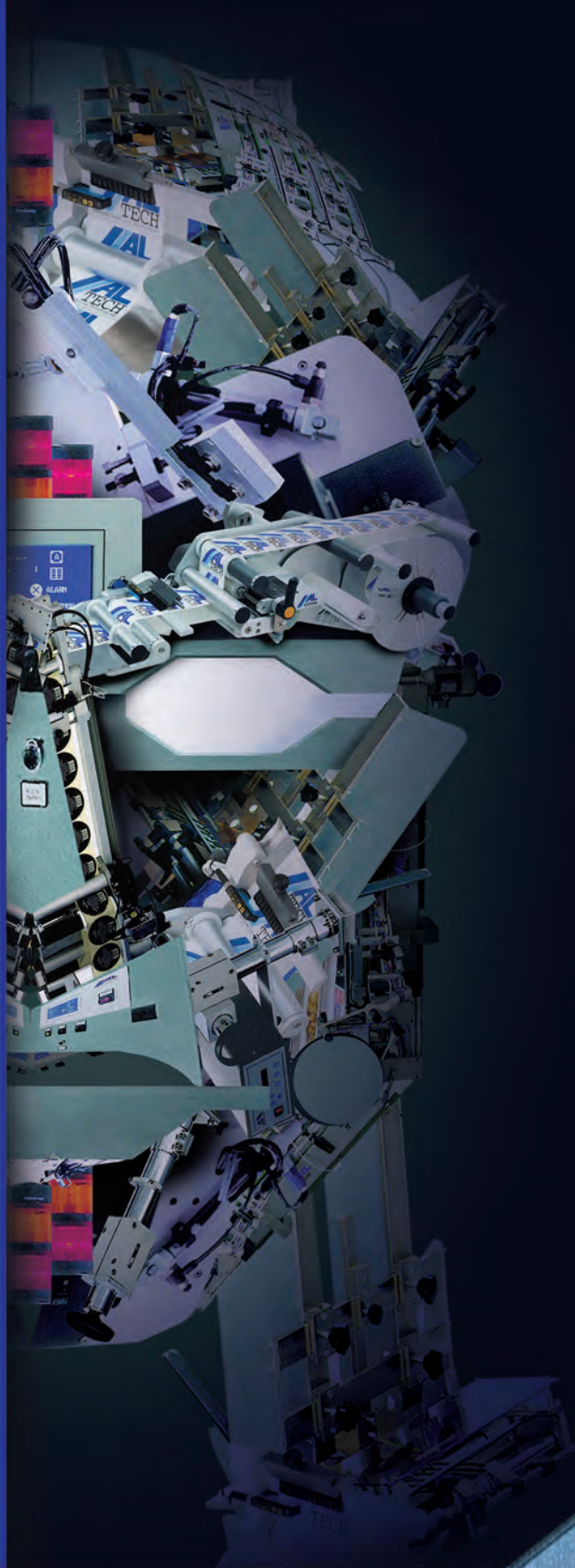




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GSP - PACKAGING MACHINES AND AUTOMATIC PACKAGING SYSTEMS

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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✓ BIOMEDICAL

✓ HARDWARE



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**





THE EVOLUTION NEVER STOPS



GSP 50 S - NEW
electronic horizontal
pillow pack
wrapping machine



**HIGH-SPEED
PACKAGING LINE**



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general system pack

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



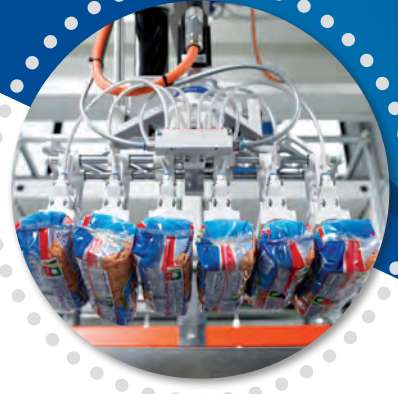
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ifp

PACKAGING

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

SECTORS

 **FOOD**

 **BIOMEDICAL**

 **HARDWARE**



TECNO PACK IS SYNONYMOUS WITH TECHNOLOGY, EXPERIENCE, AND SERVICE

in the sector of both primary and secondary
flow pack and pillow pack packaging



A leading company in the sector, Tecno Pack offers solutions that are always specific and can be applied to every sector, but with a particular focus on food.

Tecno Pack provides all of the packaging technology that your company needs: from small, manually loaded electronic flow pack packaging machines, all the way to complete systems that collect products from the production line, package them in single or multiple packages, and transport them to the palletising machines.

A commercial team of specialised technicians, a strong and flexible technical office, the internal production of all

mechanical parts, the rigorous selection of trade materials, an outstanding production team, and efficient post-sales service available around the world, make it possible for Tecno Pack to offer its clients machines and systems that are always “tailor-made” and recognised as the utmost expression of current technological innovation by companies like Barilla, Nestlé, Pavesi, Kraft, Baxter, Chipita, PepsiCo, and many others.

High speed processes, flexibility, modified atmosphere, product shelf life, and global integration of packaging in the company system are just some of the things that Tecno Pack enthusiastically and tenaciously handles every



Tecno Pack

PACKAGING MACHINES



Tecno Pack wants to collaborate with and play a decisive role in your company's success.

Visit:

www.tecnopackspa.it



day and that, together with its clients, give it fresh life blood.

At Tecno Pack, they are confident of being able to create one of their "tailored designs" for your product and, from the get go, are committed to packaging it with the same care and attention with which it was produced.

Tecno Pack's objective is to provide only technological excellence, adapting it to the needs and evolutions of your company and therefore earning, over the years, your full approval.

SECTORS

 **FOOD**

 **BIOMEDICAL**

 **HARDWARE**





ENFLEX for the Latin American market : flexibility and reliability for the food industry

Enflex is a Volpak brand dedicated to the development of automated machines for pouch forming, filling, and packaging at medium and low speeds. The company operates in the global market, offering customized systems based on the client's needs, while taking into consideration end consumer trends and individual countries' specificities. To the South American market, Enflex offers a portfolio of solutions aimed at the food industry that are centered around flexibility and production efficiency.

Current and future markets

Many customers are currently using Enflex solutions in the South American market, including Gourmet, a Chilean brand working in the Food industry and offering a wide variety of products ranging from dehydrated soups and creams, pastry products, to condiments, spices and liquid items such as soy sauce and other emulsions.



**la TECNOLOGIA per INCREMENTARE la PRODUTTIVITÀ,
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More specifically, the Enflex technology is used by Gourmet for the packaging of condiments, soups, and confetti in three different pouch formats, capable of integrating a “zipper” type closing/opening system. The flexibility of the solutions employed by the Chilean company is such that it allows them to package more than 40 different types of products on the same machine, while following the highest standards in terms of safety, hygiene, and reliability. The company currently employs several Enflex units, including two F-14, one D-26 and three F-17.

“The Enflex systems boast an extremely high production efficiency: we need to regularly change the products we’re packaging and Enflex machines have an OEE that is about 6% higher than other solutions. The product/format change over time is really minimal,” Sebastian Neumann Saavedra, Vice-responsible of Engineering, Maintenance and HSE, says. “The machines are also easy to use, as they are very stable: after an adequate setup time at the beginning of each shift, the dosing system is extremely precise and steady, and requires minimal adjustment during production, if at all.”

Maximum reliability and sustainability

Enflex machines have an established reputation in terms of technology, durability, and product quality, while also boasting high levels of flexibility and ease of use. The solutions developed by the Spanish brand also prioritize sustainability, since they are extremely energy efficient. In addition to this thanks to the research made in Volpak’s PouchLab laboratory, in the last few months Enflex machines have seen a further evolution and can now employ mono-materials such as PE and PP films.



However, one of the most valued characteristics in the South American market is still reliability, especially in the consumer goods industry. Enflex strongly believes in the quality of its solutions and, from 2021, the company offers an extended warranty on all “F series” machines, which are now completely covered for 3 years.

Moreover, all the machines are equipped with a remote support system that – through a simple Internet connection – allows Volpak’s specialized technicians to remotely service the machine, a feature that has proved extremely valuable during the Covid-19 pandemic.





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PACKAGING IN THE YEAR 2080



**25 November 2021
3-5PM CET**



The thematic part of the 68th NVC General Meeting of Members will focus on the future. NVC (founded in 1953) is the association of companies worldwide addressing the activity of packaging throughout the supply chain of packaged products. The NVC membership, innovation projects, information services and education programme stimulate the continuous improvement of packaging. Together we will be looking sixty years ahead, to the year 2080. The reason for choosing this theme is packaging innovation contest De Gouden Noot, which was first organized over sixty years ago and whose 31st edition is now in full swing. The contest owes its name to the unique winner's trophy containing a solid gold walnut, symbol of sustainable, effective and innovative packaging. Winning brings significant worldwide fame, both 'on-line' and 'physical' through leading packaging exhibitions and events, including interpack 2023. Participation in De Gouden Noot also gives the company and its employees recognition for all their innovation efforts.

By looking back sixty years in the packaging innovations, one automatically begins to wonder how the packaging world would change in the coming sixty years.

Five working groups are working on the main five packaging themes of the year 2080:

- **Sustainable ageing**
- **Automation and intelligent design**
- **Sharing reliable business information**
- **Environment and packaging materials**
- **Sustainable employability**

We heartily invite you to participate in one of the working groups. Don't hesitate to contact the association office for this at e-mail info@nvc.nl or phone +31-182-512411

To join the meeting on 25 November 2021 as such, you can register at the NVC website www.nvc.nl or by scanning the QR code in the advertisement.

Each working group will develop its own theme in an internal session in the first half of the programme, with working group members participating throughout the world. Subsequently we will analyse their results and insights in a plenary interactive session together.

THE ENTIRE PROGRAM STARTS AT 3PM CET AND ENDS AT 5PM CET.

Both the plenary session and the working group meetings will be done in the NVC Live Hybrid method. Participants can thereby participate either physically or online simultaneously in the same 'space' and in real time, from any location in the world.

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PACKAGING

PACKAGING IN 2080

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25 NOVEMBER 2021 15.00 - 17.00 CET



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Sharing the future in packaging



NEW MODULAR CM: A STAR IS BORN

Official launch for the new labeling solution produced by P.E. Labellers. It is called MODULAR CM and has all the features to be loved by many sectors that need a small to medium-sized labeling machine, super flexible thanks its complete modularity, with a layout that can be reconfigured easily and quickly. Vinitaly | Enolitech Special Edition 2021 in Verona was the ideal showcase to officially present the new labeling solution, as it meets the needs of many producers and bottlers in the Wine & Spirits sector.

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

In addition to Wine&Spirits, Modular CM also satisfies the production needs of the Oil, Beer, Food&Dairy industries.

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

The Modular CM is a machine that provides the highest standards of safety for the operators: it has up/down protections that, when raised, instantly stop the machine's operation.

The 2021 editions of FachPack in Nuremberg, Pack Expo in Las Vegas and Gulfood Manufacturing in Dubai have just finished. P.E. Labellers played a leading role thanks to the launch of new models and international awards won.

What news was on show at Pack Expo 2021?

Pack Expo was held in Las Vegas from September 28 to 30 and was the showcase for the official launch of SIMPL-CUT™, the revolutionary labeling solution that changes the rules of Roll-Fed technology. This solution represents a true innovation: it overcomes the limits of traditional RollFed labelers thanks to its cutting system, the



Modular CM: compact and robust labeling solution, available in four sizes from small to medium.



The last novelty by P.E. Labellers has been officially presented at Vinitaly | Enolitech Special Edition 2021



SECTORS

- ✓ PACKAGING
- ✓ WINE & SPIRITS
- ✓ BEER
- ✓ FOOD & DAIRY
- ✓ PHARMACEUTICAL



*Simpl-Cut: technological revolution in the world of traditional Roll-fed machines.
Winner of Technology Excellence Awards 2021.*



extreme ease in replacing the blades and many other additional, unprecedented features. These additional features didn't go unnoticed: In fact, Simpl-Cut™ won PMMI's coveted Technology Excellence Award at Pack Expo in Las Vegas, receiving the first prize for the most innovative solution in the General Packaging category. A very important goal achieved by P.E. Labellers.

What news was on show at FachPack 2021?

For the Nuremberg trade fair, held from September 27 to 29, P.E. Labellers showcased MODULAR SL, the fully flexible multi-configuration and multi-technology machine.

This labeling solution can perform multiple configurations and application technologies: completely interchangeable labeling stations are installed, which can be replaced in a few steps.

The labeling stations can be either fixed or on independent carts, therefore modularity is expressed both in the technologies available and in the configurations that can be obtained.

Modular SL is a machine with a vocation for safety, which makes the protection of the operator another of its strong points.

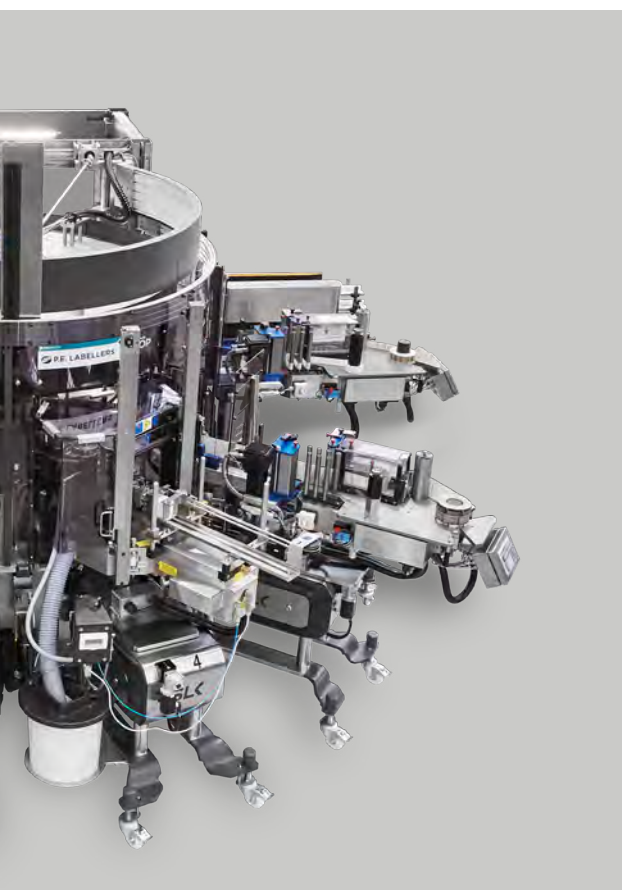
www.pelabellers.com



*Modular SL: Multi-configuration
and multi-technology ergonomic
labeling machine.*



P.E. Labellers S.p.A. Headquarters – Mantua (Italy).



Founded in 1974 in Mantua (Italy), P.E. Labellers is a global leader in the design and manufacture of entirely modular and ergonomic automatic labeling machines.

The developed solutions offer all available labeling possibilities, even reciprocally combined, through independent and interchangeable machines and stations.

The company's lean production is inspired by the concept of total flexibility: with this Design Innovation approach, P.E. Labellers produces 450 machines each year, both rotary and linear, for the beverage, wine&spirits, food&dairy, but also personal&home care, pharma, chemical and pet food sectors. Today, 10,000 P.E. machines are installed worldwide and widely managed remotely thanks to continuous support and maintenance services. P.E. Labellers features a global dimension: 8 production sites distributed amidst Italy, US, Brazil and 500 employees all over the world. The company is part of the multinational group ProMach, a world leader in Packaging.



P.E. LABELLERS™



PARTNERING FOR SUSTAINABLE PACKAGING SOLUTIONS

Chocolate manufacturer Ritter Sport
and Syntegon develop sustainable paper packaging





To meet customer expectations, food manufacturers need to rethink their products in terms of sustainability along the entire life cycle. Not only the ingredients and production processes of the product are crucial; the recyclability of the packaging also has a major impact on the ecological footprint. The German chocolate manufacturer Ritter Sport has set itself the mission to use eco-friendly packaging for its products. On the equipment side, the company is supported by Syntegon Technology. The packaging machinery specialist has helped Ritter Sport develop packaging solutions for its popular chocolate bars for more than four decades. The latest successful project in a series of many innovations: paper pouches for the colorful Ritter Sport mini editions.

Sustainability has been an integral part of Ritter Sport's mission for years. In 1991, the company pledged to introduce sustainable processes along its entire production chain. By 2018, Ritter Sport had become the first big manufacturer of chocolate bars to source only certified sustainable cocoa for its products, which is supplied by farmers and cooperatives in Nicaragua, Peru, Ghana, Nigeria and the Ivory Coast. In parallel, the company started developing more eco-friendly packaging alternatives for their typical square chocolate tablets. Together with the experts of Syntegon, formerly Bosch Packaging Technology, Ritter Sport collaborated to try out new packaging alternatives for the Ritter Sport mini editions.

Development as a real partnership

"Our goal was to use a material out of renewable resources, which can be disposed via the paper recycling stream. This also meant, that we needed to find a fitting packaging machine, which is not only able to gently handle paper, but also allows a flexibility for different packaging formats and runs stable at high speed," says Ivo Buncuga, Head of technical department at Ritter Sport. Instead of the common paper trays overwrapped with plastic film, Ritter Sport opted for a more sustainable paper packaging alternative to improve the product's ecological footprint. Besides its good recycling properties, paper also allows a variety of designs and has good haptic qualities, attracting customer attention at the point of sale.

When used for secondary packaging, paper needs to be handled much more carefully than plastic film. It is both stiffer and less robust, and might crease or tear during the packaging forming process or due to the product drop impact. Hence processing the material on high speed packaging machines requires a lot of expertise to achieve flawless packaging. Syntegon and Ritter Sport analyzed the perfect interplay between operator, machine, product, and paper material. "We explored a variety of packaging styles and pa-

per materials before deciding which solution fits our product best," Ivo Buncuga says. First paper tests were run on an SVE 2520 vertical bagger to see how the different paper materials behave on the machine. Technical and material requirements were then optimized to achieve a stable and reliable process with the chosen paper material.

A premium sustainable packaging solution

After reviewing the results of the testing phase, Ritter Sport decided in favor of a stand-up paper pouch for its different types of small primary packaged chocolate bars such as the Ritter Sport minis or the Choco Cubes. The premium paper pouch is an eco-friendlier packaging option and stands tall on the shelf as a real eye-catcher. The haptics of the fully recyclable packaging further supports customers' positive first impression of the product. For the sturdy, smooth and flex-crack-resistant paper pouches the existing SVE 3220 vertical bagger from Syntegon was upgraded.

"Syntegon was the first company on the market to produce and process vertical paper bags, so their expertise was a huge asset for the project," says Ivo Buncuga. "They proactively supported us along the whole process with valuable improvements and solved challenges throughout the journey – from the first test runs at their site in Weert to the final product launch in spring 2021."

Providing flexibility

Flexibility was another important requirement in the project: Since the Ritter Sport minis are not packaged in paper pouches for all markets right from the start, the solution needed to be easily adaptable to different packaging materials and styles. The SVE vertical bagger processes both paper and plastic film. When choosing the new doy-style packaging, the machine produces up to 60 paper bags or 80 plastic bags per minute. Format and material changes can be performed quickly and easily, keeping downtime to a minimum. The machine allows Ritter Sport also to package pillow pouches in both materials with an output of up to 100 per minute, giving the customer the utmost flexibility during production.

This new paper packaging solution is an important milestone in Ritter Sport's sustainability efforts. However, the German chocolate manufacturer is far from slowing down. "We have exciting projects in the pipeline. We are already working with Syntegon to find possibilities of using paper as a primary packaging for our original square chocolate tablets," Ivo Buncuga says.

The challenges of wrapping chocolate in paper

In combination with a sensitive product such as chocolate, paper packaging poses its very own challenges. When used as primary packaging, it must provide sufficient barrier protection. The requirements vary according to the flavor pro-





file and the ingredients. Higher contents of nuts, nougat, creams or fruity fillings mean an increase in fat, which calls for higher barrier properties. The same is necessary if alcohol or different aromas are added to achieve a complex chocolate flavor. In these cases, the fully recyclable propylene is still the most sustainable packaging material.

Chocolate bars containing a high amount of cocoa, in turn, are better suited for primary paper packaging. Ritter Sport worked on a pilot project with Syntegon to develop a paper-based packaging solution for some of its products. The main challenge for the development team was to find a way to make gusseting folding work with the wrapping material, so that the finished packaging is both robust and keeps the product's typical 'knick pack' packaging functionality. First test runs with 100 grams chocolate were performed on existing Syntegon machines from the Pack Series for horizontal flow-wrapping with the support of the competence center in Beringen. The machines have been equipped with the new forming shoulder of the retrofit-kit "paper-ON-form", which is especially designed for cold-sealed paper. It reduces the stress on the paper during forming since the forming unit and sealing jaws are pre-configured based on the desired pack size and the material characteristics.

Working on future-proof packaging

In autumn 2020, a small quantity of Ritter Sport's chocolate tablets Schoko & Gras wrapped in paper were launched in a test market. Step by step, Ritter Sport will switch further primary and secondary packaging to paper-based solutions. Ritter Sport's reliable partnership with Syntegon has come full circle: More than 45 years ago, the chocolate manufacturer invented its signature Knick-Pack® format together with the Syntegon experts at the former Tevopharm site in Schiedam in the Netherlands. "Today, we are still in close contact working together on new packaging solutions. This time focusing on sustainable versions of our packaging that still has the characteristic design," says Ivo Buncuga.





MODULAR CM

Fully ergonomic and modular rotary labeling machine, with a quick and easy reconfigurable layout.



Compact and robust labeling solution, available in four sizes from small to medium, up to six labeling stations.

The new solution to meet the needs of the Wine, Spirits, Oil, Beer, Food & Dairy sectors.

Solution with pressure sensitive and cold glue labeling stations, reciprocally interchangeable and replaceable in a few steps.

Modular CM is a machine that provides the highest standards of safety for the operators.

It has up/down protections that, when raised, instantly stop the machine.

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



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COSMETIC



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ECO&FOOD: MULTIFUNCTIONAL PACKAGING IN DIRECT FOOD CONTACT REALLY SUSTAINABLE FOR THE ENVIRONMENT

Packaging & Sustainability: what's his Role?

A recent European study commissioned by Pro Carton - the European Association of Carton and Cartonboard Manufacturers - on European consumer packaging perceptions study tells us that packaging has become more than just a container for consumers: it's a recurring opportunity to assess the environmental impact of a brand and it's able to increase the sustainability perception of a product - second only to the production methods aspect of the product itself with almost half of those questioned strongly agreeing that COVID-19 has made us more sensitive to environmental issues.

Packaging stays in the consumer's eye longer than any other marketing tool: often the packaging design communicates the product before its content and creating value and customer trust.

The importance of packaging to the environment is also demonstrated by the fact that six out of 10 Europeans say that the environmental impact of a product's packaging affects their purchasing decisions: almost two thirds say they changed the products they buy because of concerns about packaging.

For this reason, many brands are committing many resources to researching materials and technologies to reduce packaging pollution.

Wrap, carry, cook and Eat food

Thanks to the Know-how on innovative materials and to the study of the market by the R&D Team of LIC Packaging, an innovative corrugated board specific for the direct food contact has been born HT Board, a revolutionary material as nature intended.

HT Board was born from the need and conviction to offer solutions in pure virgin paper not only able to pack food but also to carry, cook and eat food in a single pack.





HT Board®



LIC

PACKAGING

Creating innovation, manufacturing solutions.



SECTORS

✓ PACKAGING

✓ FOOD





5 HT BOARD DIFFERENT HT BOARD QUALITIES FOR CUSTOM SOLUTIONS

Thanks to this unique material and to the experience and industrialization capacity of the production department, today ECO&FOOD business unit of LIC Packaging designs and manufactures custom solutions to meet the customers' needs belonging to different food sectors and their different product characteristics.

ECO&FOOD Team developed 5 different HT Board compositions that allow to increase and improve both the performance of barrier to fats, oils and liquids in general and as non-stick material.

These features combined with the fact that the paper is by its nature breathable, often greatly reduce the moisture during cooking thus optimizing the process and consequently improving the quality.

It therefore results in a better uniformity and a potential reduction of cooking times.

In the various compositions there is also the choice to use the Grass paper as raw material in the HT Board production with the logic to reduce its environmental impact in the world.

The Grass Paper contains up to 40% of grass fibres and to produce 1 TON of raw material there is a Co2 emission reduction of 75% in the atmosphere, energy savings up to 4500Kw/h and water savings up to 5000L because it takes only 2L. Moreover in the grass fibre production no chemicals are used.

Recyclable and Compostable

HT Board is totally recyclable in the paper chain according to Aticelca 501/2019 and received the biodegradability and compostability certification according to EN 13432.

Certified Tests

With a view to selling HT Board packaging especially in the ready meals and take-away sectors which are constantly growing due to the changing customer LIC Packaging has carried out various tests to verify their direct food contact conformity by an accredited laboratory simulating different test conditions in order to assess their correct use and functioning.

The cooking or heating test of food directly inside the HT Board trays were applied to refrigerated and frozen different types of products.

The stress test results were excellent and the trays strength even aesthetically was optimal:

- In traditional oven up to 60' at 220°.
- In microwave oven up to 15 minutes at 900W

Conclusion

Really Eco-Friendly solutions, performing and food certified: with the HT Board material the ECO&FOOD line reached the goal of being the only cardboard packaging able to enhance food, both preserving it during transport and enhancing its cooking and heating.

The FSC certified raw materials combined with the paper knowledge allowed LIC Packaging to develop this winning project.

www.licpackaging.com



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COMPACT NDVE-007-MEC-NS-INV
Casing machine



DESIGN DEP



**MECHANICAL AND
ELECTRONIC DEP**



AFTER-SALES

I am Renzo Brizzi and together with my family I created ProSystem. Since 1991, together with our team, we continue to write the present and the future of packaging for companies, with innovative solutions for packaging, palletizing, wrapping and depalletizing.

Every ProSystem machine is a masterpiece of technology unique in its kind, curated from design, to construction up to after-sales, with a *Tailor-made* approach that has become our signature.

Today, research continues, through investments in efficiency, performance and artificial intelligence. But our origin is here: in a team that has been able to see far and export the values of **Made in Italy** everywhere. Also overseas.



Marika, Renzo and Jessica Brizzi



proSystem
PACKAGING

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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

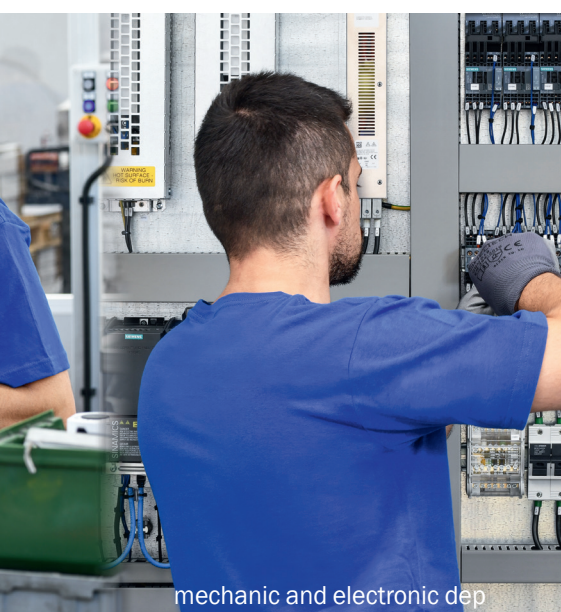
Brizzi, supports her father in the management of the company, with the role of Sales and Marketing Manager of Prosystem.

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



mechanic and electronic dep

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**

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



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.



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



UNIVERSAL PACK ECOCENTRIC TECHNOLOGY

PROJECTS

Universal Pack latest realizations for single dose ultraclean packaging concentrated mostly on products as yogurt, quark cheese, condensed milk and sauces. Customers requested both sachet and stick-pack machines based on their needs; complete lines for primary and secondary packaging have been put to work too, integrating Universal Pack end of lines for cartoning.

In the last years a great part of research and development has been exclusively dedicated to ultraclean packaging, while other important resources address sustainable packaging and digitalization of services: Universal Pack solutions are in fact 4.0 ready and can use recyclable or compostable film.

Universal Pack ultraclean solutions for stick-packs and 4 side seals sachets present the following main features:

- Total film, dosing, sealing and cutting areas isolation to guarantee the best hygienic conditions
- Transfer, counting and stacking units are totally customizable with Universal Pack patented solutions
- Maximum flexibility in sachet and carton formats thanks to modular design of machine groups. Moreover, dosing units are easy to change or cleanable in place without being dismantled in order to minimize machine downtime during product change
- To minimize downtime, regulations and format change operations can be done quickly and without tools
- Thanks to a new Universal Pack patent it is possible to put sachets neatly on multiple levels
- Machines and lines are integrated and 4.0 ready. This feature allows remote production management, predictive maintenance, data storage for analysis.
- Hygienic Design, EHEDG guideline compliance and poka-yoke philosophy, a milestone in Universal Pack solutions
- Complete washability in place through the

Ultraclean and ultra flexible stick-pack machine for soft yogurt and quark cheese



isolation of sensitive components, the use of dedicated materials and CIP and SIP systems

- Thanks to the joint investments and the collaboration between Universal Pack lab, packaging producers, research institutes and customers lots of improvements have been made in the field of sustainable packaging and it is possible to use recyclable and compostable films on Universal Pack machines.

Universal Pack is an international reference in the field of packaging machinery. The company has over 50 years of experience in designing and building vertical machines and complete automatic lines for packaging single dose products for the food industry. It is present in over 150 countries and has installed more than 8000 systems. It offers cut-





New ultraclean and ultra flexible solutions to sustainably package single dose food and dairy products

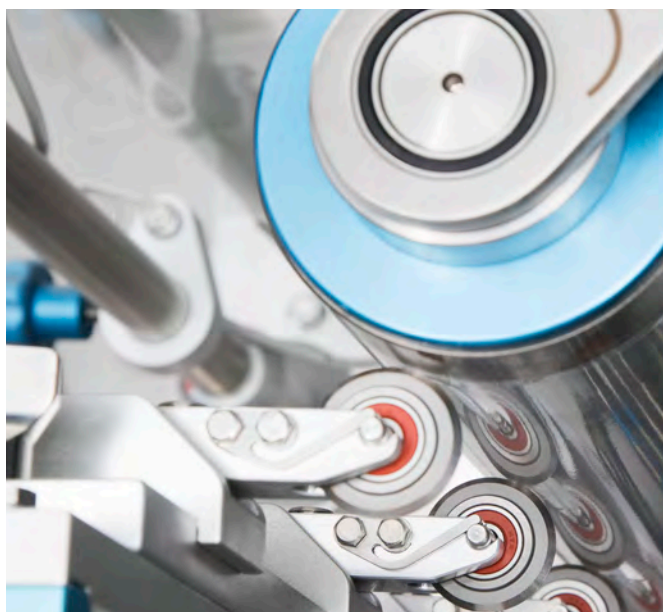


ting-edge solutions for any type of package: stick-packs, sachets sealed on all four sides, shaped packs and cartons. Currently, the main targets for innovation focus on packaging with recycled and/or recyclable materials, integration of machines in 4.0 environments, energy consumption optimization and environmental sustainability.

MAIN FEATURES

- Advanced film and product sterilization
- Total flexibility in sachet and carton formats
- Toolless regulations and format change operations
- Patented system for multilevel cartoning
- 4.0 ready for remote management and data analysis
- Hygienic Design Compliance
- Complete washability and CIP and SIP systems
- Recyclable and compostable laminates available

www.universalpack.it



SECTORS

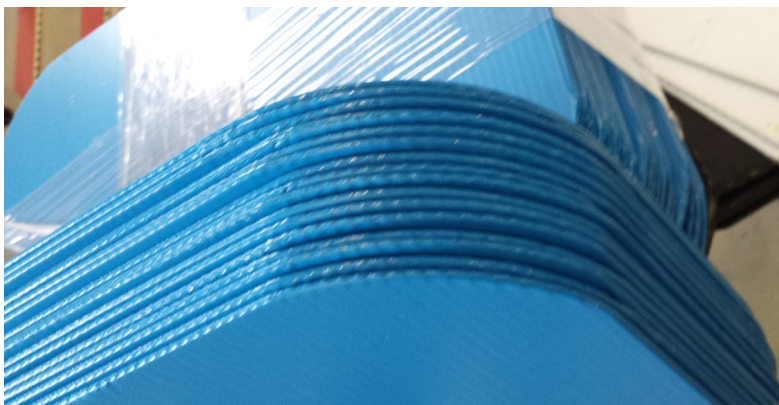
- ✓ PHARMACEUTICAL
- ✓ COSMETIC
- ✓ FOOD



TECHNOLOGY – EXPERIENCE THAT SERVES THE PACKAGING

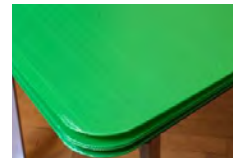
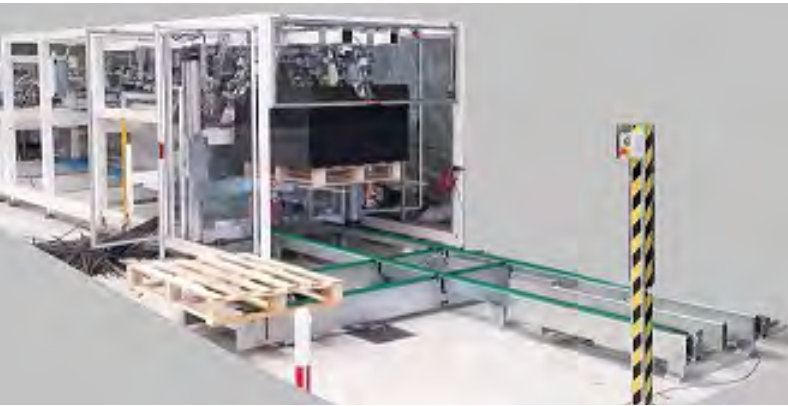
It's founder, DANTE VALENTI, with 40 years of experience, after having operated for approximately thirty years with another one of his companies, creating the first tray forming machines for produce and wrap-around lines (VISUAL BOXES) with corrugated cardboard load bearing corners for the detergent, mineral water, soft drink, etc. industries, in recent years wanted to experiment with new solutions: packaging machines, using cartonplast or bubble guard in honeycomb sheets of polypropylene. After having studied and developed, with the collaboration of his engineer son Alessandro, a system for fastening two edges without the use of any additives like glue, etc., he was then able to create a wide range of packaging options. This cutting edge solution made it possible to develop a type of packaging that respects human health and the environment, creating a complete cycle of packaging, from trays for small food products to larger trays for agriculture, from regular slotted containers (RSC) to pallet slip sheets for bottles, and from pallets to box pallets, etc..All of these products are made exclusively with the same material, with machines TEK IN PAK S.r.L., and at the end of their use are collected in a single receptacle and sent to processing plants to be recycled into new packaging. THIS IS THE TRUE CIRCULAR ECONOMY.

www.tekinpak.com





TEK^{IN}PAK s.r.l.



INTERLAYE
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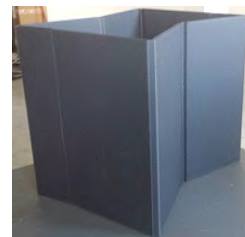
PALLET FROM
DIE CUT SHEETS



BOX PALLET



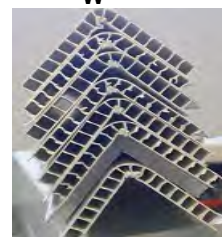
CONTAINMENT
SLEEVE "TIP"



CONTAINMENT
SLEEVE EDGE
"W"



AMERICAN
BOXES



ANGULAR LARGE
THICKNESSES



PLATEAUX
WELDED
FLAUTE

SECTORS

✓ PACKAGING

✓ AUTOMATION



SUSTAINABLE PACKAGING: WHY IPI'S CAPS EMPLOY BIO-BASED POLYMERS

Now more than ever sustainable packaging plays a major role within the industry. As of today, 99% of plastics comes from fossil fuels[1]. The carbon footprint from burning them is the fastest growing part of humanity's global ecological footprint - accounting for 60% of the total[2]. To reduce mankind's reliance on fossil fuels is not simply a moral imperative: it is the only way out of the climate crisis. That is why sustainable packaging initiatives, such as IPI's bio-based caps, are paramount.

IPI's openings are the latest introduction in IPI's sustainable packaging offer. Built out of biopolymer packaging materials, IPI's bioplastic caps have a lower carbon footprint than traditional alternatives based on fossil fuels. First, since they derive from sugarcane they have a smaller carbon footprint, with lower cradle-to-plant-gate greenhouse gas emissions than petroleum counterparts[3]. Also, their manufacturing process and disposal is more eco-friendly, as they do not

contribute to the ever-growing fossil fuels' carbon footprint and are 100% recyclable as well as fossil fuel-based biopolymers.

Renewable, recyclable, bio-based caps are a peculiarity of IPI's offer. To best understand them we then proceed to explore and measure the sustainable packaging trend.

How important is sustainable packaging for consumers?

When it comes to sustainability, there's been one major change in recent years: the general public cares about it. Not only that: consumers are paying more attention and are willing to pay more.

There is convincing evidence by Nielsen [4] and McKinsey [5] that sustainability is not simply the concern of a small niche market. On the contrary, it is now a mainstream sentiment that cuts across all ages and is especially entrenched in gen zers[6] and millennials[7]. Consumers demand the





adoption of corporate sustainability practices[8] in the spirit of sustainability, economic equality, and social responsibility. This attitude has grown even more powerful during the initial aftermath of the COVID-19 crisis. A survey conducted by McKinsey [9] shows that the engagement from customers with sustainability has deepened as a result of the pandemic. Two third of consumers state that it has become even more important to limit impacts on climate change.

What does it mean for a packaging solution to be sustainable?

To talk the talk and not just walk the walk, any packaging solution that aims at being sustainable must abide by these three principles: Renewability, Recyclability, Responsibility. A packaging is renewable if it comes from renewable sources. IPI's aseptic carton packaging, for instance, is renewable up to 90%. Precisely, it is 72% paperboard, plus bio polyethylene made from sugar cane, which IPI employs to manufacture caps and material layers. What's more, IPI has recently launched a line of paper straws and aims to provide its customers with a completely renewable packaging, with no trace of fossil fuel materials - a roadmap IPI has strongly committed to and which has also included the introduction of bio-based openings made from sugarcane biopolymers.

Recyclability, on the other hand, refers to the possibility of converting packaging waste into new materials and objects. In this regard, IPI is proud to say that its packaging is fully recy-

clable. By separating the paperboard of aseptic bricks from aluminium and polyethylene, raw materials are given a second life, being enabled to enter the production cycle once again. This is what is called a circular economy. Last but not least, responsibility is about choices. IPI's aseptic carton packaging represents a responsible choice at an environmental and societal level. Environment-wise, IPI's aseptic carton packaging reduces CO2 emissions when compared to other packaging solutions. All this translates into a lower carbon footprint compared to alternative materials. On this line, bio-based caps truly stand out, as they produce fewer CO2 emissions than petroleum-based plastic caps. Also, IPI is Forest Stewardship Council®- certified as well as certified against Aluminium Stewardship Initiative (ASI) Performance Standard. As part of its enduring effort to fight deforestation, IPI has invested in tree planting in Petén, the northernmost department of Guatemala, close to the Mayan Biosphere Reserve and the famous Mayan archaeological site of Tikal. Petén has experienced the world's most rapid deforestation of any country over the last five years[10]. To make things right, all fruit trees financed by IPI will be donated to the farming families of Petén to sustain their livelihood.

Why IPI's caps employ biopolymers: taking advantage of biogenic carbon

As regards sustainability, IPI is at the forefront of the packaging industry, as it is among the first companies to feature bio-based caps in its aseptic carton packaging solutions. Using biopolymers into openings is crucial to IPI's sustainability roadmap. Thanks to biopolymers, not only do IPI's solutions produce less carbon dioxide than the alternatives, they also reduce carbon dioxide from the atmosphere through biogenic carbon. In fact, IPI's biopolymers are plant-based - precisely, they are sourced from Brazil, i.e. an area different from the Amazon rainforest, which is therefore preserved. As a matter of fact, plant-based biopolymers are equivalent to plant biomass in every way. Because of this, they "store" carbon dioxide. In fact, through photosynthesis, biomass stores CO2 and releases oxygen. Once the biomass is transformed into a cap, it retains any carbon dioxide stored inside it, actually removing it from the atmosphere.

Respect for the environment is maximum in everything IPI does. IPI is among the first suppliers to offer bio-based caps and, also thanks to this, IPI's packaging solutions are up to 90% renewable, responsibly sourced, and fully recyclable. IPI fights deforestation and supports rural and indigenous communities through its initiatives in Guatemala.

To offer carton packages made only from renewable or recycled material, 100% recyclable and able to support circular economy: that is IPI's goal.





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.

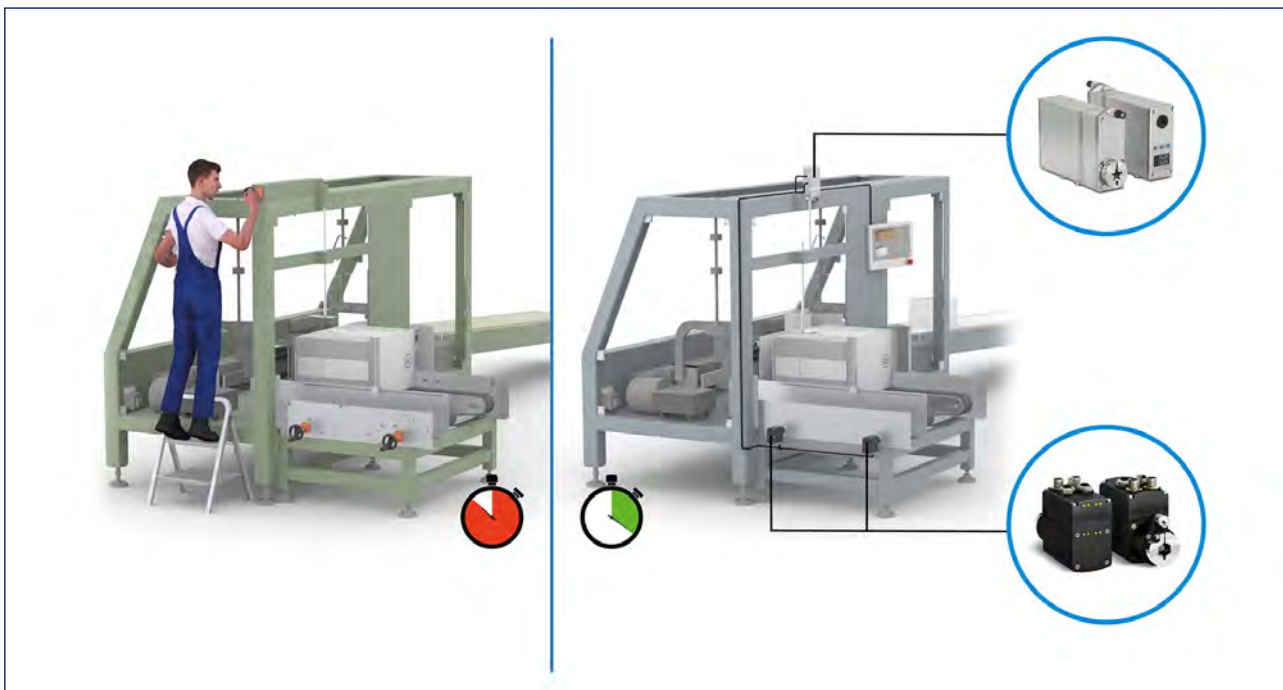


Figure 2: Time saving comparison, manual versus fully automated size changeover on a carton erector

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.

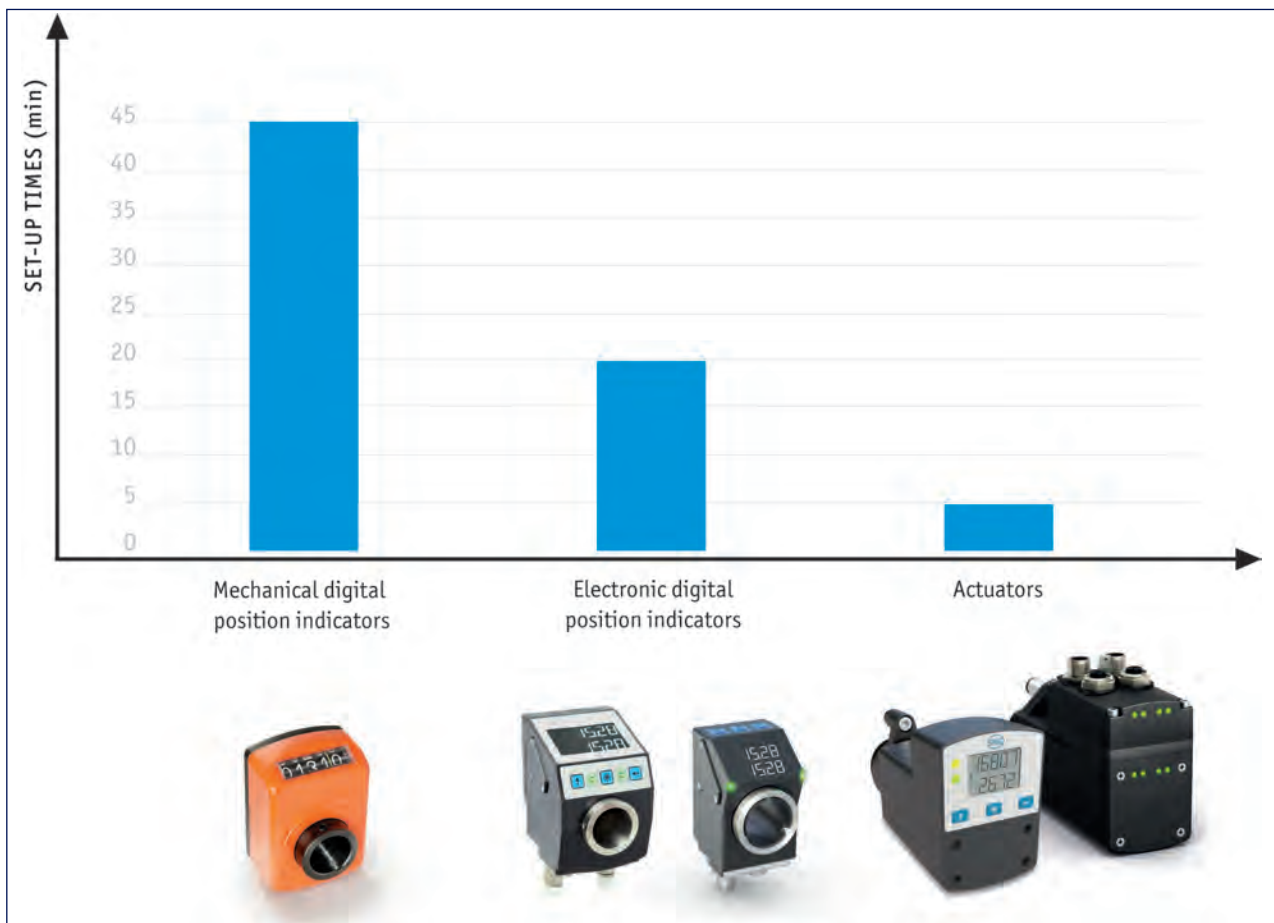


Figure 3: Comparison of optimization potential through intelligent positioning solutions

Manual size changeover

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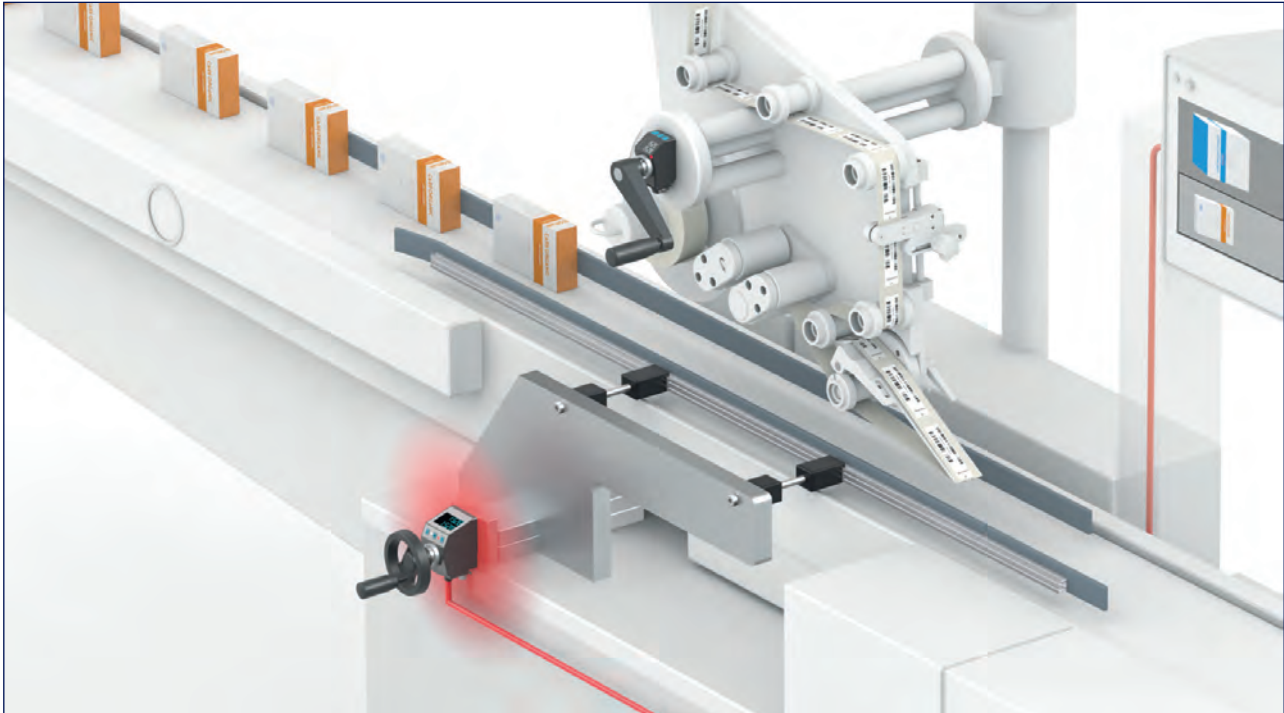


Figure 4: Size changeover using electronic position indicators in pharmaceutical manufacturing

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



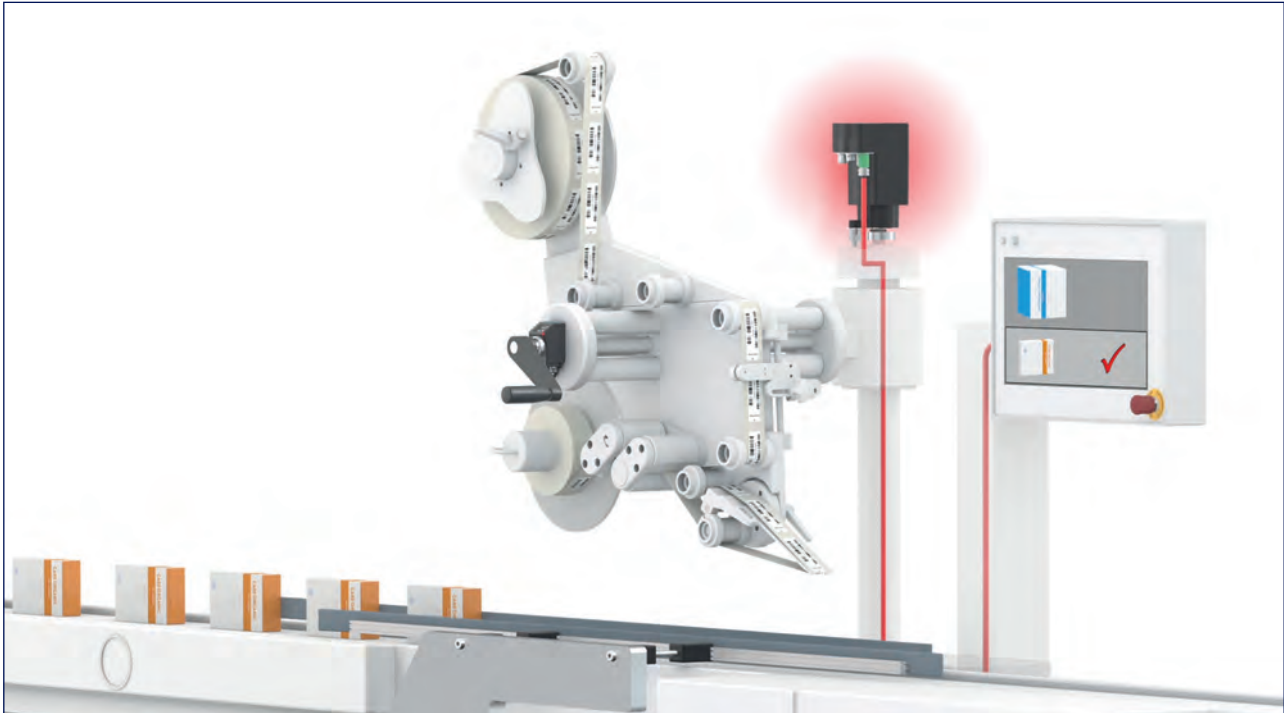


Figure 6: Automated product changeover using a SIKO actuator on a labeling machine for drug boxes



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.



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