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TECH4FOOD MAGAZINE

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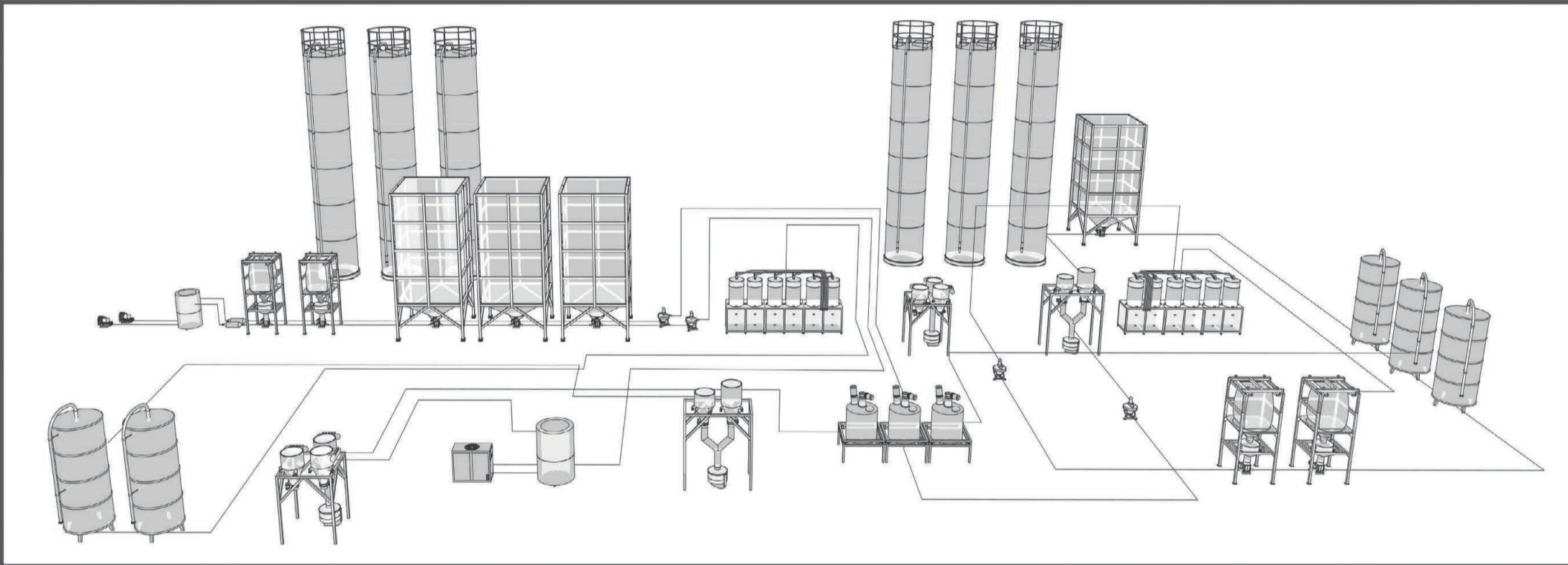
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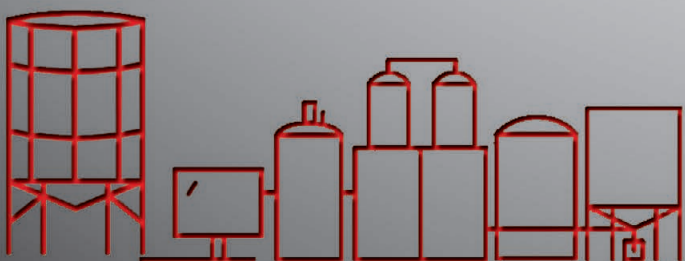


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Waiting for interpack 2021

Nothing can stop us

Due to the Covid-19 Pandemic, the German packaging and processing tradeshow has been rescheduled for February 25-March 3, 2021. In this issue of the magazine, a showcase of the latest machines, technological solutions and innovative materials that were supposed to be presented during the event by Italian exhibitors.

from page 12 to page 24

the company

Cuomo: a family business, since 1964



Custom-made solutions and high-quality technical assistance, able to satisfy the need of customers around the world.

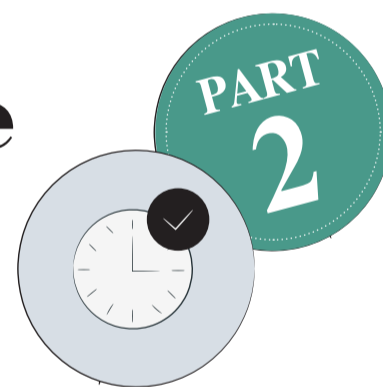
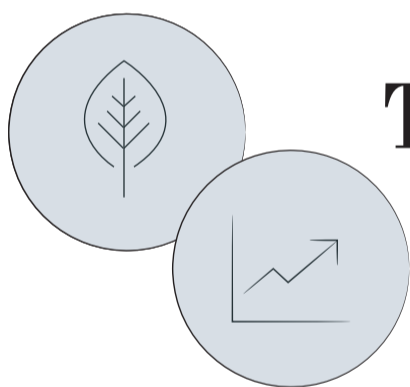
pages 8 and 9

the event

The packaging challenge of sustainability

Plastic, alternative materials and new business models at the heart of the event promoted by Ucima and Fondazione Fico, on the past February.

from page 28 to page 30



the study

Going Upwind

A minority of companies is driving the Italian industrial sector. Prominent samples in a country that slipped into a technical recession in 2018. Packaging is among the best-performing branches.

pages 10 and 11

news

Covid-19 emergency: Minerva Omega Group launches the new series of sanitizers MPS

zoom

A continental-size market



Italy is Brazil's leading supplier of food-technologies, with a 24% market share on total imports. But how will the scenario change after the Covid-19 crisis?

from page 32 to page 34



Beyond Coronavirus, four structural changes

By Angelo Frigerio

Nothing will be like before: how many times did we hear that lately? The Coronavirus emergency, besides causing concrete changes in lifestyle, will significantly influence the business world. Problems will arise. But opportunities will too. According to Nathan Sheets, Chief Economist of PGIM Fixed Income, delegate for the management of Pramerica SGR: “There will be four structural changes. Which will probably shape new business models far beyond the mitigation of Coronavirus crisis”.

The first issue is represented by the international supply chains bifurcation. Their collapse, in China above all, has been registered as one of the most significant effect of the lockdown caused by Coronavirus. “Supply chains will divide into two different segments after the crisis: one group of companies will rely even more significantly to the global ones, increasing their resilience and branching out geographically into several headquarters. Another group will step back about international externalization and resort to automation in order to bring companies back on the global market”, explains Nathan Sheets.

Stocks represent another problem pointed up by pandemic. In order to cut down on expenses, companies chose to produce ‘just in time’, redu-

cing excess inventory, with the aim of simplifying the production. The ongoing pandemic exposed the lack of resilience and flexibility of the current inventory management in many companies, especially in the upstream stages of the supply chains, where there are further less opportunities of substitution.

Another issue concerns the model of company foreshadowing for the future. The immaterial activities represent now 70% of S&P Europe 350 value and 85% of S&P 500 USA value. The acceleration of the century-old transition to more agile companies, or better weightless, will be one of the most important commercial consequences of the big lockdown. Technological giants such as Tencent, Microsoft, Alibaba and Amazon, who offer an enticing range of business and consumer services, benefited enormously from the significant rise of the online activity, catching the bulges of demand in the world.

Workplace will change too. Offices will not disappear but the demand for shared spaces will diminish, as a result of social distancing, and smart working instead will increase.

This are all issues to deal with. And that need to be solved. As soon as possible.

Oltre il Coronavirus, quattro cambiamenti strutturali

Nulla sarà come prima: quante volte ce lo siamo sentiti dire negli ultimi tempi? L'emergenza Coronavirus, oltre a provocare concreti cambiamenti nel modo di vivere, impatterà in maniera sensibile sul mondo delle aziende. Nasceranno problemi. Ma anche opportunità. Secondo Nathan Sheets, Chief Economist di PGIM Fixed Income, gestore delegato di Pramerica SGR: “Ci saranno quattro cambiamenti strutturali. Che probabilmente riplasmeranno i modelli di business aziendali ben oltre l'attenuarsi della crisi legata al coronavirus”.

La prima questione riguarda la biforcazione delle supply chain internazionali. Tra gli impatti più significativi del lockdown per il Coronavirus, si è registrato infatti il collasso delle catene di distribuzione internazionali, iniziando dalla Cina. Continua Nathan Sheets: “Le catene di fornitura post-crisi si divideranno in due segmenti divergenti: un gruppo

di aziende si affiderà in maniera ancora più significativa a quelle globali, aumentandone la resilienza e diversificando geograficamente su più sedi. Un altro gruppo farà un passo indietro rispetto all'esternalizzazione internazionale e farà ricorso all'automazione per riportare le attività sui mercati nazionali”.

Un altro problema evidenziato dalla pandemia è stato quello delle scorte. Le aziende per ridurre i costi hanno preferito usare la produzione ‘just in time’, che implica una riduzione delle scorte in eccesso, al fine di snellire la produzione. La pandemia in corso ha messo a nudo la mancanza di resilienza e flessibilità nell'attuale gestione dell'inventario di molte aziende, in particolare nei settori a monte della catena produttiva, dove le opportunità di sostituzione sono molto più limitate.

Un'altra questione riguarda il modello di azienda che si pre-

figura all'orizzonte. Le attività immateriali rappresentano ora il 70% del valore dell'S&P Europe 350 e l'85% del valore dell'S&P 500 USA. Un'accelerazione della transizione secolare verso aziende sempre più agili, ossia weightless, sarà una delle più importanti conseguenze commerciali del grande lockdown. Conglomerati tecnologici come Tencent, Microsoft, Alibaba e Amazon, con una gamma tentacolare di servizi per le imprese e per i consumatori finali, hanno beneficiato enormemente del significativo aumento dell'attività online, catturando le impennate della domanda nel mondo.

Cambierà anche lo spazio del lavoro. Gli uffici non scompariranno ma diminuirà la domanda di spazi condivisi, a seguito dell'esigenza di mantenere il distanziamento sociale, e aumenterà il lavoro a distanza.

Tutte questioni da affrontare. E risolvere. Al più presto.



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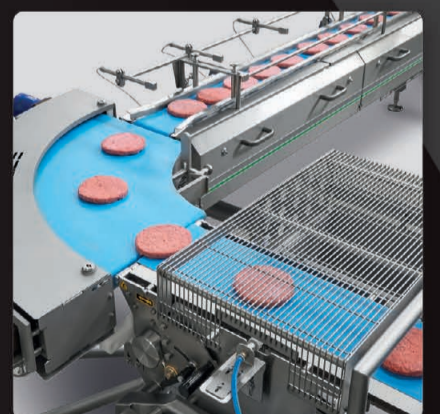
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The represented plant has been supplied to a primary Italian company which works frozen meat and includes: automatic feeding system at high speed of the bulk product, electronic horizontal flow-pack FP100, shrinking tunnel, robotic feeding station for the cartoner machine, three feeders with inclined stores allow to realize packages which contain mix of products of different origin. Operative speed, reliability, great versatility, ease in format changes, complete automation, total realization as per law regulations Industry 4.0, complete traceability of products.

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Covid-19 emergency: Minerva Omega Group launches the new series of sanitizers MPS

The global health crisis has heightened the universal need for effective sanitisation tools for professional and non-professional items, clothing, objects, and equipment of all sizes. In order to meet this new, urgent need Minerva Omega Group has launched a new series of sanitizers, called MPS. This optimal system uses the combined simultaneous action of Ozone and UV-C rays to bring the microbial load on low health risk items back within estimated, certified and safe limits. The MPS sanitisers range includes four different-sized models, or cabinets, suitable for a variety of professional and non-professional requirements, made entirely of stainless steel. "Sanitisation effectiveness has been certified by an accredited laboratory following numerous tests. The combined action of UV-C

rays and Ozone gas produced by a lamp eliminates 99.99% of bacteria even from the most inaccessible surfaces," the company explains. This is an ecological, safe and extremely practical process as it requires no chemical additives or detergents.



Photo: Model MPS 50 sanitiser

Emergenza Covid-19: Minerva Omega Group presenta la linea di sanificatori MPS

La necessità di una corretta sanificazione di oggetti professionali, indumenti e attrezzature dettata dall'attuale emergenza sanitaria coinvolge ogni settore industriale e commerciale. Per rispondere a questo nuovo bisogno, Minerva Omega Group ha messo punto un sistema di sanificazione che si basa su un'azione combinata e contemporanea di Ozono e raggi UV-C, atta a ridurre la carica microbica entro limiti stimati, certificati e sicuri su cose o oggetti a basso rischio sanitario. La linea si compone di quattro modelli di diverse dimensioni, tutti realizzati in acciaio inox. "La loro efficacia, in termini di sanificazione, è stata testata da un laboratorio accreditato dopo numerosi test", spiegano dall'azienda. "L'azione di sanificazione combinata dei raggi UV-C e del gas di Ozono prodotto dalla lampada permette di raggiungere anche le superfici più recondite con percentuali di eliminazione di batteri pari al 99,99%". Poiché il principio di funzionamento non richiede additivi o detergenti chimici, il sistema si può definire ecologico, sicuro e di facile utilizzo.

Sacco System grows and reaches Japan

Sacco System, the convergence of international biotech excellence applied to the food, nutraceutical, and pharmaceutical industry, is now reaching Japan with the opening of the subsidiary, Sacco System Japan. Based in Tokyo, Sacco System Japan will focus on the development of the dairy and probiotics market, which is growing at a fast pace in the country. In particular, it will offer a wide range of innovative products and technical services for the promotion of dairy cultures, coagulants and enzymes for cheese and fermented milks, as well as nutritional supplements (probiotic cultures). "The creation of the subsidiary Sacco System Japan is a welcome addition to the Sacco System Group of companies", comments the new ceo Nanako

Oikawa. "By having a permanent presence in this country, we will be able to give our partners strong support and increase our business development activities in the dairy cultures and probiotic market".

Sacco System si espande in Giappone

Sacco System, la rete d'impresa biotech internazionale dedicata all'industria alimentare, nutraceutica e farmaceutica, approda in Giappone con l'apertura della controllata Sacco System Japan. Con sede a Tokyo, Sacco System Japan si concentrerà sullo sviluppo del mercato lattiero caseario e dei probiotici, settori ad alta crescita nel Paese. In particolare, offrirà una vasta gamma di prodotti innovativi e servizi tecnici per la promozione di fermenti lattici, coagulanti ed enzimi per formaggio e lattici fermentati, oltre a integratori alimentari (colture probiotiche). "La creazione della filiale Sacco System Japan è una gradita integrazione alla rete d'impresa Sacco System", commenta Nanako Oikawa, ceo della nuova società. "Con una presenza permanente in questo paese, saremo in grado di fornire ai nostri partner un tempestivo supporto e allo stesso tempo di incrementare lo sviluppo commerciale nel mercato delle culture lattiero-casearie e dei probiotici".

Messe Frankfurt gets control of Process Expo Chicago

Process Expo, among leading exhibitions for food transformation in the United States, is controlled by Messe Frankfurt from 1st May 2020. The trade show, that takes place every two years in Chicago, is organized by the Food processing suppliers association (Fpsa). "In such a difficult moment for businesses, I'm more than happy to continue and broaden our partnership with the American colleagues from Fpsa. In the future we will organize Process Expo in Chicago and we will work to transform it into an even stronger platform for the global food industry", says Wolfgang Marzin, president and ceo of Messe Frankfurt. "Our position gives us the possibility to work on this, because thanks to our portfolio of four food processing exhibitions (Ifa in Frankfurt, Tecno Fidta in Buenos Aires, Modern Bakery and Salon du Chocolat in Moscow), we have a detailed knowledge and a long experience of the sector". The first edition of Process Expo 'made by Messe Frankfurt' will take place from 12th to 15th October 2021 at McCormick Place in Chicago.

A Messe Frankfurt il controllo di Process Expo Chicago

Process Expo Trade, rassegna leader negli Stati Uniti per la trasformazione alimentare, passa sotto il controllo di Messe Frankfurt a partire dal 1° maggio 2020. La fiera, che dal 2011 si tiene ogni due anni a Chicago, è organizzata dalla Food processing suppliers association (Fpsa). "In un momento così difficile per le imprese, sono ancor più felice di continuare e ampliare la nostra collaborazione con i colleghi americani dell'Fpsa. In futuro organizzeremo Process Expo a Chicago e lavoreremo per trasformarlo in un piattaforma ancora più forte per l'industria alimentare mondiale", commenta Wolfgang Marzin, presidente e ceo di Messe Frankfurt. "Siamo in una posizione ideale per farlo, poiché con un portafoglio di quattro fiere nel settore food processing (Ifa a Francoforte, Tecno Fidta a Buenos Aires, Modern Bakery e Salon du Chocolat a Mosca, ndr), abbiamo una conoscenza approfondita del settore e un'esperienza pluriennale". La prima edizione 'made by Messe Frankfurt' della fiera si terrà dal 12 al 15 ottobre 2021 al McCormick Place di Chicago.

Single-use plastics: European Commission forbids to postpone the implementation of the regulation

"Deadlines have to be met. Member states have a year to implement the regulation on single-use plastics". With these words Vivian Loonela, spokesperson for the European Green Deal, answers negatively to the association European plastic converters (EuPc) that asked with a letter to postpone by a year the implementation of the ban on some products made of single-use plastic. According to the association "Coronavirus proved that not all materials are the same. It is not easy to replace single-use plastics, especially maintaining the same hygienic qualities in defence of consumers". Implemented in June 2019, the regulation on single-use plastics introduces the ban on production and commercialization of cutlery, glasses, balloon sticks, straws and cotton swabs. However, single-use sanitary equipment, such as gloves, clothes and masks, is not taken into account.

Plastica monouso: il no della Commissione Ue a posticipare l'entrata in vigore della direttiva

"Le scadenze vanno rispettate. Gli stati membri hanno un anno per recepire la direttiva sulle plastiche monouso". Con queste parole Vivian Loonela, portavoce Ue per le questioni ambientali, risponde negativamente all'associazione europea dei trasformatori di materie plastiche (EuPc – European plastic converters) che, con una missiva, aveva richiesto di posticipare di un anno l'entrata in vigore della messa al bando di alcuni articoli in plastica monouso. Secondo l'associazione, infatti, "il Coronavirus ha dimostrato che non tutti i materiali sono uguali. Le materie plastiche monouso non sono facilmente sostituibili, in particolare per mantenere le stesse proprietà igieniche a tutela dei consumatori". Adottata a giugno 2019, la direttiva sulle plastiche monouso introduce il divieto di produzione e commercializzazione di prodotti come posate, bicchieri, bastoncini per palloncini, cannucce e bastoncini di cotone. Non si riferisce, invece, a dispositivi monouso utilizzati in ambito sanitario come guanti, abiti e mascherine.

Lawer presents Unica, the range of systems for automatic powder ingredients weighing

Lawer, that boasts a 50-year experience in designing and producing powder ingredients weighing systems, presents a complete line of automatic powder ingredients weighing systems with single, double or multiple scale for food industry. The range Unica is composed by five models, characterized by different dimensions, use (handcraft or industry) and capacity. "Our systems guarantee an accurate weighing, the repeatability of the recipes, traceability and management of the production, know-how protection, confidentiality and money saving", explains the company.



Lawer presenta Unica, la gamma di sistemi di dosaggio automatico per micro-ingredienti in polvere

Specializzata da oltre 50 anni nella progettazione e realizzazione di sistemi di dosaggio per polveri, Lawer presenta una linea completa di sistemi di pesatura automatici a bilancia singola, doppia o multipla dedicata al comparto alimentare. Sono cinque i sistemi del modello Unica, che si differenziano per dimensioni, uso (artigianale o industriale) e capacità di stoccaggio. "Tutti i nostri sistemi garantiscono precisione di dosaggio, ripetibilità delle ricette, tracciabilità e gestione della produzione, protezione del know-how, riservatezza e risparmio", spiega l'azienda.

Beretta reduces packaging plastic by 25%

Fratelli Beretta makes a major step towards environment sustainability, by packing its range of meat delicacies with 25% less plastic. In addition, for the packaging of about 300 products, the company will use 65% of recycled plastic. As a proof of its whole-hearted pursuit of sustainable development, the Group has also created a new logo: 'BGreen', which will identify the eco-friendly products.



Beretta riduce la plastica negli imballaggi del 25%

Fratelli Beretta compie un significativo passo nella direzione della sostenibilità ambientale, con le confezioni delle sue principali linee di prodotti di salumeria che saranno realizzate con il 25% di plastica in meno. Inoltre, per le confezioni di circa 300 referenze in assortimento, l'azienda utilizzerà il 65% di plastica riciclata. Il Gruppo ha intrapreso con convinzione il cammino dello sviluppo sostenibile tanto da creare un proprio logo: 'BGreen', che identificherà i prodotti ecosostenibili.

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Cuomo: a family business, since 1964

Custom-made solutions and high-quality technical assistance, able to satisfy the need of customers around the world.

by Federica Bartesaghi



Filling machine

Specialized in the design and production of metal packaging and food processing machinery, Cuomo was founded in 1964 in Nocera Inferiore, South of Italy, by three brothers. Today, after 56 years, Cuomo is still a family-run company, headed by the founders' sons and daughters, covering different positions from administration to production and sales.

The production includes can making and food processing lines for food, twist-caps and lids/ends, especially designed to satisfy the needs of small, medium and large companies. "They're all designed and produced according to ISO quality standard", the company explains. "The internal production of every single pieces of our machinery, and the high-level customer care service – that goes from the project design to the daily problems that may occur to costumers – are probably the most important things that set us apart from competitors on a global scale." In the last months, characterized by the Covid-19 Pandemic, the company has kept on working and even acquired new, important customers. "Now, we are working to develop safer and more enduring seamers, requiring a minimum

maintenance – the company added – which are also our best-selling machines worldwide." Cuomo also supplies its customers with a well-known, wide range of spare parts. The workshop is equipped with modern tools and electronic working centres; with grinding machines, lathes, overhead cranes, a heat treatment room and an assembly shop.

Ready to grow abroad

Cuomo operates in four continents, both through its sales department and local representatives. "Currently, exports account for 20% of total turnover, but we are aimed at increasing this share significantly", the company said, whose exports are mainly directed to Europe, North and West Africa, South America, the Middle East, North America and Southern Asia. As a producer of totally customized solutions, Cuomo offers a complete assistance service that goes from design to installation and technical support. "Whenever our customers are located, we are ready to provide immediate help, thanks to our skilled technicians who are ready to travel whenever it is required".



WHO WE ARE

YEAR OF FOUNDATION

1964

HEADQUARTER

Nocera Inferiore,
Campania, Italy

FACTORY SIZE

11,000 sqm plant,
of which 4,500 sqm covered

4 INDUSTRY DIVISIONS

Food Processing Machinery
Can Making Machinery
Twist Cap Machinery
Renewable Energy

Un affare di famiglia, dal 1964

Fondata 56 anni fa da tre fratelli, Cuomo resta ancora oggi un'azienda a conduzione familiare specializzata nella progettazione e realizzazione di macchine per l'industria conserviera e dell'imballaggio metallico. Situata a Nocera Inferiore, dove si trova lo stabilimento di circa 11 mila metri quadrati, Cuomo può vantare una produzione 100% tailor-made e un servizio di assistenza post vendita in grado di intervenire rapidamente in ogni parte del mondo. Con una quota export che incide per il 20% sul fatturato aziendale, Cuomo è oggi pronta a incrementare significativamente il proprio business internazionale.

STRENGTHS

DESIGN

Cuomo designs advanced machinery and production lines, which use the latest technology and offer excellent performance in terms of time and cost.

24/7 SUPPORT

The company provides with a qualified assistance service, able to solve even the most complex problems worldwide.

QUALITY

All products are designed to meet the highest quality standards. Cuomo is ISO 9001 certified.

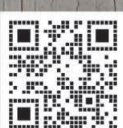
ENVIRONMENT AND INNOVATION

The company has invested in the renewable energy market because of its attention to the environment and the booming growth of the sector: a challenge that helps nature.

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Going Upwind

A minority of companies is driving the Italian industrial sector. Prominent samples in a country that slipped into a technical recession in 2018. Packaging is among the best-performing branches.

by Federica Bartesaghi

They are a minority, yet they are running fast and carrying with them the national economy. They are the 'upwind' companies, according to the namesake report issued by the Nomisma research company and Crif Ratings, with the collaboration of MECS-Machinery Economic Studies by Ucima, Italian packaging machinery manufacturers' association.

The report identified 4,600 'upwind' companies, after examining the balance sheets of a total of 71,415 companies representing the size and structural configuration of the Italian manufacturing sector (revenues of 741 billion eu-

ros - over 70% of the market). And it is in the packaging universe that 'gravitates' the highest concentration of champion companies.

A two-speed economy

The large Italian manufacturing companies, which only represent 1.5% of the sample analyzed, generate 40.7% of the total turnover. The medium-sized enterprises, the backbone of the sector, are however the ones that have recorded the most interesting growth rates in the last four years. "Recently, the country has been going through a 'disruption'," said No-

misma chief economist Lucio Poma. "Companies that have quickly understood how to position themselves against global competitors, using new technologies, are going at an extraordinarily stronger pace than the others, even if they are micro or small businesses." Analyzing the production districts, the first four - machinery, food, metal, automotive - make up almost half of the total turnover. In Lombardy, Veneto and Emilia Romagna is generated 71% of the national manufacturing revenue. "Upwind companies have extraordinarily bigger international competitors - adds

PACKAGING IN THE ERA OF COVID-19

"In 2019, the packaging machinery sector generated a worldwide turnover of over 45 billion euros. A data that has grown steadily in the last decade, with an average rate of 5.2% in the last five years," said Luca Baraldi, of the MECS-Machinery Economic Studies by Ucima. For the last two years, Italy has been the world leader with a turnover of around 8 billion euros - ahead of Germany (at around 7 billion) - rea-

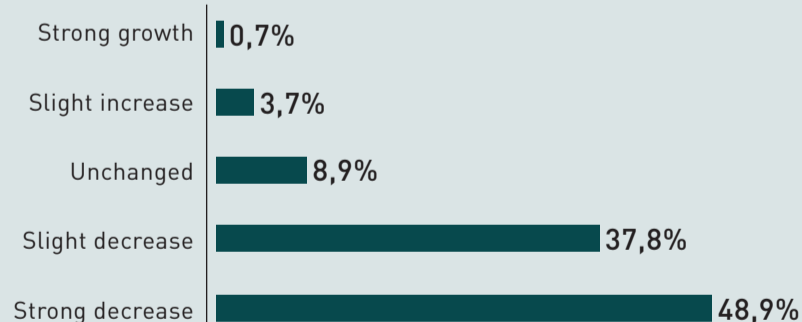
ching a world market share of 18%. The two countries are followed, in order, by China, the USA and Japan. Together, they account for 70% of the world production of packaging machinery.

A survey conducted by MECS to evaluate the sector's response to the Coronavirus emergency - which was attended by 135 Italian companies, representing over 70% of the sector's turnover - revealed that in Italy only

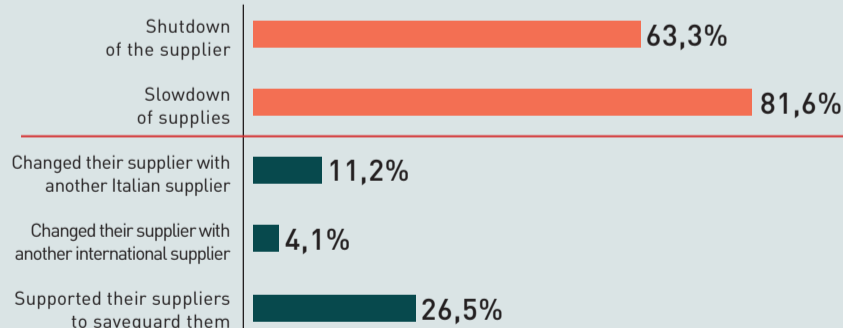
4 companies out of 100 stopped their activity during the outbreak of the disease. 1 in 5 (about 20%) has slowed down production, while all of them introduced measures to safeguard employees, with an impact on productivity for 9 companies out of 10. The same percentage also reported slowdowns in supplies, which made the procurement of production materials quite complex. In this regard, 1 in 4 companies said that

they implemented support actions to safeguard their suppliers. Only 1 in 10 changed suppliers. "For 8 companies out of 10, the first quarter shows a decrease in production, turnover and orders. With 49% of companies expecting a sharp deterioration in results by the end of 2020," adds Luca Baraldi. "The only sector that will experience increasing or steady results is, as expected, pharmaceutical packaging."

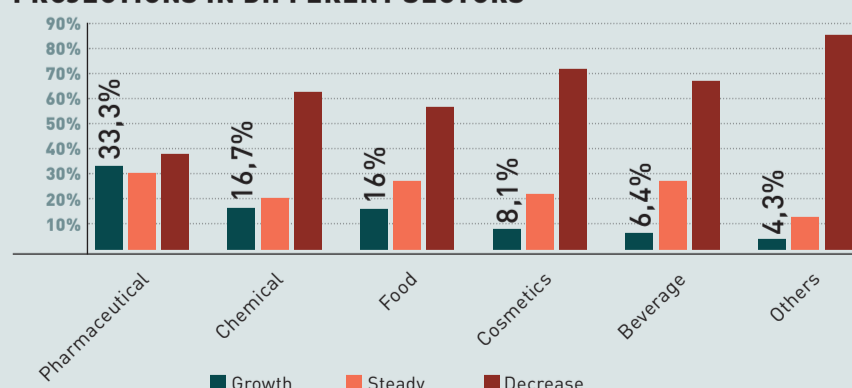
2020 FORECAST



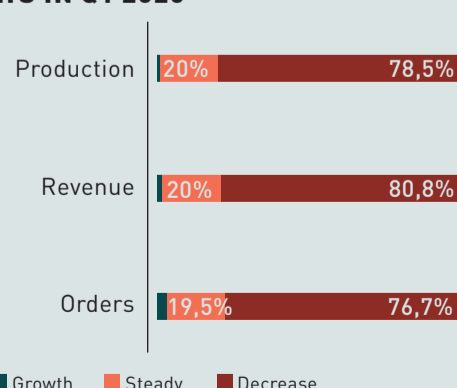
PROBLEMS WITH THE SUPPLY CHAIN



PROJECTIONS IN DIFFERENT SECTORS



RESULTS IN Q1 2020



REVENUE IN Q1 2020

-5,1%
-18,8% DOMESTIC SALES
-2,1% EXPORT

Source: Centro Studi Mecs - Confindustria Ucima

Le imprese 'Controvento'

Sono una minoranza, ma corrono e trainano l'economia nazionale. Sono le imprese 'Controvento', come le definisce l'omonimo rapporto elaborato da Nomisma e Crif, con la collaborazione del

Centro studi Mecs-Confindustria Ucima. Sono 4.600 quelle individuate dal rapporto, che ha preso in esame il bilancio di un totale di 71.415 società di capitali rappresentative della dimensione

e configurazione strutturale della manifatturiera italiana (ricavi per 741 miliardi di euro - oltre il 70% del mercato). E nell'universo packaging, gravita la più alta concentrazione di imprese 'champion'.

Lucio Poma - but they are global leaders in their respective market niches."

The identikit of the 'upwind' companies

Six the parameters adopted by researchers to identify the 'upwind' companies. The first and most important assesses the growth recorded in 2018 in relation to the results achieved in the previous five years. Beside revenues, the other economic and financial variables considered are Ebitda and added value. If we take into account the territorial distribution, the highest concentration of upwind companies is in Tren-

tino Alto Adige, followed by Emilia Romagna, Veneto, Friuli Venezia Giulia, Piedmont, Lombardy and Calabria. When it comes to revenue, instead, the first and second steps of the podium are occupied, respectively, by Trentino Alto Adige and Emilia Romagna. "The comparison by size class, where medium-sized enterprises are the most upwind, is particularly interesting," explains Lucio Poma. "Between 2014 and 2018, these grew by 70%." But which are the sectors with the greater upwind attitude? The packaging, pharmaceutical and metal industries.

A strong financial sustainability

"The economic and financial analysis of the upwind companies shows that, on average, the companies in the sample have a very good debt-to-equity ratio, well below the national average," explains Simone Mirani, general manager of Crif Ratings. "In detail, in 2018, debt-to-equity ratio was 0.25. With 30% of the sample having no financial debt. The investments made by the upwind companies were twice as much as the national average. This shows that not only do they invest more, but also better, and with foresight", adds Simone Mirani.

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MACHINES FOR CHEESE PROCESSING AND CUTTING



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Waiting for interpack 2021 – product showcase

Nothing can stop us

Interpack, one of the most powerful platforms for the world's packaging (and processing) industry, was to kick off its 22nd edition from May 7-13, 2020, in Düsseldorf, Germany. Due to the Covid-19 Pandemic, however, Messe Düsseldorf has rescheduled the tradeshow for February 25-March 3, 2021.

Yet, the global sanitary emergency did not halt our industry and many exhibitors are displaying online and via digital workshops the innovations that they were supposed to present to international markets during the German trade fair.

In the following pages, a showcase of the latest food & beverage packaging and processing machines, as well as technological solutions and innovative packaging materials developed by Italian companies.

Niente ci può fermare

Interpack, una delle piattaforme fieristiche più importanti per l'industria delle tecnologie di packaging e processing applicate al settore food & beverage, ha rinviato al 2021, dal 25 febbraio al 3 marzo, l'edizione 2020, che si sarebbe dovuta svolgere lo scorso maggio (7-13) alla fiera di Düsseldorf.

Ciononostante, l'emergenza sanitaria mondiale non ha fermato l'industria di settore e molti espositori hanno scelto di presentare, anche attraverso i canali digitali, le novità di prodotto che avrebbero esposto in anteprima durante la rassegna tedesca.

Nelle pagine seguenti, una vetrina delle ultime macchine per il confezionamento e la trasformazione di alimenti e bevande, oltre a soluzioni tecnologiche e innovativi materiali di imballaggio sviluppati da aziende italiane.

RECORD - PACKAGING MACHINERY www.record.it



Panda Top Seal

Fields of application

Food and non-food.

Description and strong points

Flowpack machine suitable for packaging all types of solid products, foods and non-foods. High quality mechanical and electronic materials ensure production efficiency and excellent package results. This machine is available with a variety of sealing head with possibility of MAP. Stainless steel structure, ergonomic design with no deposit corners and sloping top roof and surfaces are some of the machine's top feature, like the 'open frame' design with vertical doors for visibility and maintenance accessibility.

Technical specifications

- Up to 200 packs per minute
- Small and medium size product
- Suitable for irregular products

AGRIFLEX www.agriflex.it



Flour cooling system

Fields of application

Food industry, in particular applied to baked products.

Description and strong points

Dough temperature control is a key factor in obtaining constant and ideal quality in the production of bakery. The cooling process of the flours allows slowing down the rising of the dough and adequately adjusting it to the times of each production line. Agriflex's Flour cooling system - patent nr. 1401347 offers significant advantages: high energy efficiency, thanks to the direct exchange and consequently reduced operating costs; high effectiveness, thanks to the considerable temperature reduction; complete system automation, thanks to the reduced thermal inertia and the absence of accumulations, that ensures the correct temperature of the dough, compensating the temperature variations of the other components and ambient temperature; ease of maintenance, since all areas can be easily cleaned.

MINIPACK-TORRE www.minipack-torre.it/en



Pratika 56 MPE - X2

Fields of application

General packaging, shrink automatic machine.

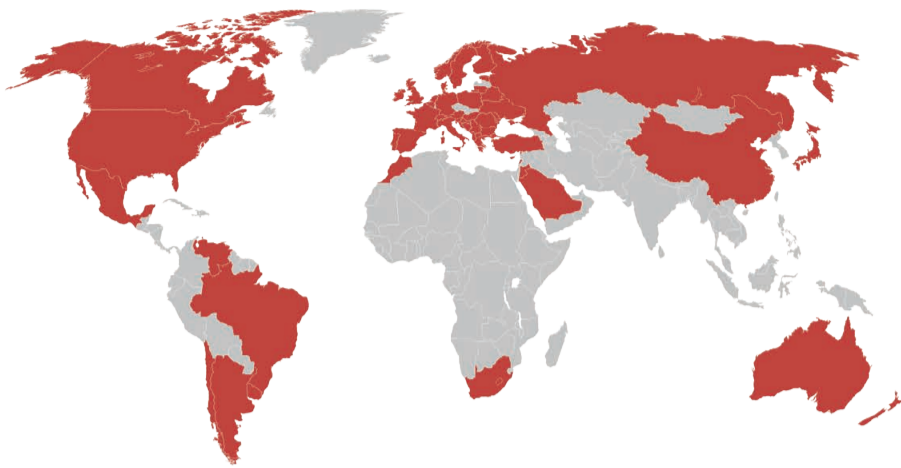
Description and strong points

The new version of Pratika 56 MPE X2 is a technologically advanced and at the same time versatile and user-friendly heat shrink packaging machine. Enhanced with strong electronic, mechanical and technological contents, the new Pratika 56 MPE X2 heat shrink packaging machine, suitable for operation on both sides thanks to its double hatch, represents a perfect synthesis of reliability, high performance, versatility and safety.

Technical specifications

- Simple and functional design
- Front and rear opening for easy access
- Schneider Electric Plc and touch screen
- USB port to save recipes and updates
- Servo assisted sealing bar
- Motorised Center Sealing
- Motorised film opening triangles
- Enlarged infeed belt to facilitate standard loading operations

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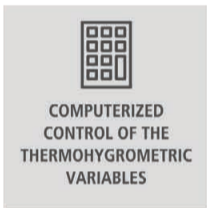
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CAREFUL AND UNIFORM AIR REGULATION



AUTOMATIC SYSTEM FOR PRODUCTS LOADING AND UNLOADING



AUTOMATIC SYSTEM FOR PRODUCTS HANDLING



INTEGRATED SUPERVISION SYSTEMS



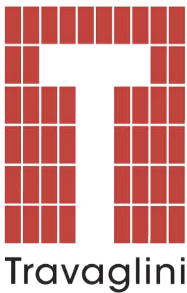
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Waiting for interpack 2021 – product showcase

ILPRA www.ilpra.com



Form fill seal mod. MD

Fields of application

Dairy, creamy products, sauces, jams, juices, spreadable cheeses, pasty products.

Description and strong points

Ilpra's Form fill seals are designed and manufactured for different production needs. These machines can be completely customised in terms of format, dosing systems and cutting configuration, allowing both individual and multipack packaging to be produced. The main movements are servo-assisted, allowing high precision, reliability, efficiency and high level production performance.

Technical specifications

- Production capacity: 25 cycles/min max
- Film band forming: 460 mm. max
- Max pitch: 260 mm
- Max. container height: 100 mm

AMS FERRARI www.amsferrari.it



Infinity Series by AMS Ferrari

Fields of application

Filling line.

Description and strong points

The Infinity Series by AMS Ferrari is the filling line suitable for bottling disinfectants gel, foamy, dense and delicate liquids, corrosive and non-corrosive liquids. This filling line, equipped with the filling technology named 'Flow-Meter' ensures high performances in terms of precision and of reducing product waste.

Technical specifications

- Rotative or linear bottling solutions
- Productivity from 1,000 to 12,000 bph
- Flow meter system that measures the quantity of liquid with a very high precision and control thanks to a specific software
- Connection set-up for the sanitizing treatment (Cip/Sip)

B&B SILO SYSTEMS www.bebilos.com



Micro Doser

Fields of application

Food, pharmaceutical, chemical, cosmetic, plastic.

Description and strong points

High precision dosage of micro ingredients, powders, granules, solids and liquids, such as enhancers, salt, starch, flavorings, spices, or other additives. Weight and volumetric micro-dosages. Modular structure, adaptable to any space, with the possibility of subsequent extensions. Availability of modular hoppers, with variable capacity and fluidizing homogenizer, for the most complex ingredients.

Technical specifications

- Pneumatic micro doser load
- Self-cleaning dynamic filter
- Special screw dosage group
- Level sensors
- Weighing cells
- Integrated automation

MINIPAN www.minipan.com



Multipurpose line for specialty bread

Fields of application

Bakery industry.

Description and strong points

Strong of the deep know-how in sheet generation, this unique solution multipurpose line can shape many types of bread: from hamburger buns to tin bread, passing through hot-dog rolls and moulded bread. The core of the line is the 'Raffinatore': punch and fold technology used as sheet generator. Thanks to its specific process, it homogenizes the air cells distribution inside the crumb and gives to the final product an amazing texture.

The line is equipped with the Scrap Free technology, which does not generate lateral waste and delivers to the forming station a sheet of dough strictly controlled in width and thickness. The forming station is another huge innovation in Minipan's range. Depending on the recipe, producers can use the moulding device to shape rolls such as hot dog bread, sandwich bread and tin bread, or the rounder to obtain buns.

IPS
www.ipstech.it



Horizontal packaging machines (flow pack) combined with custom loading systems

Fields of application

Food and non-food.

Description and strong points

IPS designs and builds a full range of horizontal packaging machines (flow pack) combined with custom loading systems, weighing and control devices. In addition to stand-alone machines, IPS designs and builds complete custom lines for packing of food and no food products.

Technical specifications

IPS organizes its horizontal flow-pack machines in two areas: machines with rotary sealing jaws and machines with box motion sealing jaws. Each area consists of a model with film roll from the top and a model with film roll from the bottom and each model is carried out in three "sizes" depending of the product to be packed.

GRANDI
www.grandi.it

Bandrolling machines

Fields of application

Cheese, candies, chocolates, tobacco.

Description and strong points

Grandi's production of seal-banding machines has reached high quality and reliability levels and has become a reference standard for the company production. As they can be adapted to all packaging formats and sizes, these machines are frequently used in the confectionery and general food industries. Grandi seal-banding machines guarantee total reliability and long life.

Technical specifications

The seal-banding machine BC 120 can be connected to: boxes buffer system; calibrator; boxes stacking unit at the machine exit mod. ST 2007. The machine can work with both the paper and the self-adhesive type seal-band. Specifically designed to supply a complete packaging line.



PARMACONTROLS
www.parmacontrols.it



LMBPT-D Burst Check Glass D

Fields of application

Producers of glass bottles/glass containers and fillers.

Description and strong points

The automatic LMBPT-D system is designed to perform the pressure test on glass containers. Completely engineered in Italy, it is part of the new Labometrology brand, the division of Parmacontrols which is dedicated to the production of innovative laboratory instruments for rigid containers in glass, plastic or metal.

Technical specifications

The current system is extremely versatile and can perform the pressure test in all the modalities foreseen by the main standards of the glass industry (burst test with ramp up, pressure maintenance test for a time, test P60). The machine setup is intuitive and the recipes for each format are easily manageable. The device is equipped with an innovative bottle clamping system adjustable and adaptable to any diameter. Finally, the data transmission is structured according to a protocol compatible with all the databases and management systems typical of the glass industry.



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Waiting for interpack 2021 – product showcase

CAVANNA
www.cavanna.com



Tray Slug Loader (TSL)

Fields of application

Products enrobed with chocolate, cookies, sandwiches and products with decorations.

Description and strong points

The new system has been developed for products that can't be handled with the traditional systems due to the fragility of their structure and their enrobing. TSL combines three different functions: fill Pvc blister trays with or without lid; fill Pvc trays with or without lid; feed the slugs directly into the bar infeed of the flow wrapper.

Technical specifications

- TSL is able to create and pack 8 different types of products configuration
- Trays can contain from 1 to 3 different portions of products
- Depending on the type of product, the new TSL loader can manage up to 2,000 pieces per minute
- The loader will be linked to a Zero5 Nkz, a wrapper that have high speed and an incomparable precision

CEPI
www.cepisilos.com



Trevibox

Fields of application

Bakery & biscuits, confectionery, pasta & cereals, premix, baby food and functional food, pet food.

Description and strong points

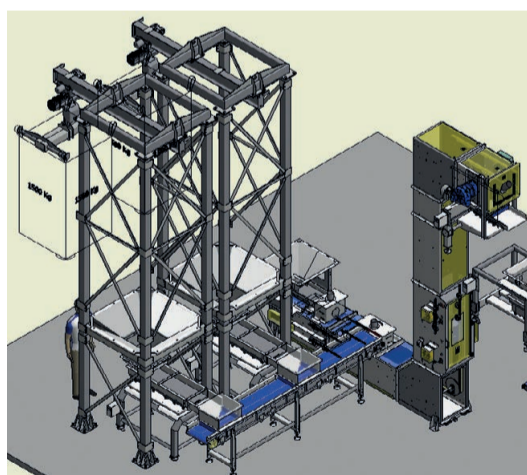
The latest addition to the company's portfolio of storing solutions for macro ingredients, Trevibox blends Cepi's existing Trevira fabric silo and Silbox metal fluidized silo into a single solution that delivers the advantages of both.

Besides reducing costs, solutions in patented antistatic Trevira fabric are more customizable than steel or aluminium solutions, and the antistatic properties in the Trevira fabric prevent the formation of static electricity, ensuring production safety. The Trevibox model includes all these features and adds the advantages of Silbox: the fluidized bed allows for chronological extraction with FIFO logic, which greatly enhances the traceability process. Trevibox has higher metering capacity in all processes and provides multiple extraction without bridges. The flour oxygenation leads to a crucial improvement in the quality of the flour.

Technical specifications

- Atex conform and earthed thanks to Cepi's patented equipotentiality technology
- Trevibox comes with advanced safety systems to guard against overpressure and underpressure.
- Weight control in real time, integrated automation and full traceability

CIDIESSE ENGINEERING
www.cidiesse.com



Dried fruit handling line

Fields of application

Food sector, dried fruit.

Description and strong points

Complete dried fruit handling line, composed of double big-bag unloading station (with crane for bag lifting), each one equipped with electromagnetic vibrating feeder for the orthogonal loading of one horizontal belt conveyor which feeds the stainless steel bucket elevator to convey the product to the following sorting line. Cidiesse conveying solutions are designed and made with all devices to avoid losses, damages and contamination on the product. The system is equipped with automatic bucket cleaning system. Furthermore, the modular configuration of the machines guarantees the maximum flexibility in case of future extensions of the existing line.

Technical specifications

- Stainless steel bucket elevator mod. ETC/128 Inox
- Output capacity 12m3/h
- Motor power 1,1 kW

COLIGROUP (COLIMATIC)
www.colimatic.com



Thermoforming packaging lines Thera Webskin

Fields of application

Any kind of fresh or seasoned foodstuff, with steering fluid, in bars, sliced, grated or julienne, in wedges or cubed; in Map, shrink or skin packaging.

Description and strong points

Colimatic Webskin (patent pending) is the solution to have environmentally friendly packaging without compromising costs. ACM and Colimatic have joined to develop a packaging project that combines the efficiency and hygiene of thermoforming process with the packaging design of traysealing and optimized usage of plastic material. The outcome is a package whose 90% is composed of recyclable cellulose with printed and customizable graphics made from a reel, thus eliminating the costs of storing and managing pre-cut cardboards. The skin packaging is realized on a high quality cardboard sealed with a high-barrier plastic film to keep intact nutritional and organoleptic features of the product. A smart easy-peel allows the perfect separation between the two layers in order to be properly differentiated.

Technical specifications

- Production: up to 15 cycles/minute
- Machine's length: customized
- Technologies available: Vacuum, Map, Shrink, Skin

BREVETTI GASPARIN

www.gasparin.it



Slicing and bagging automatic line

Fields of application

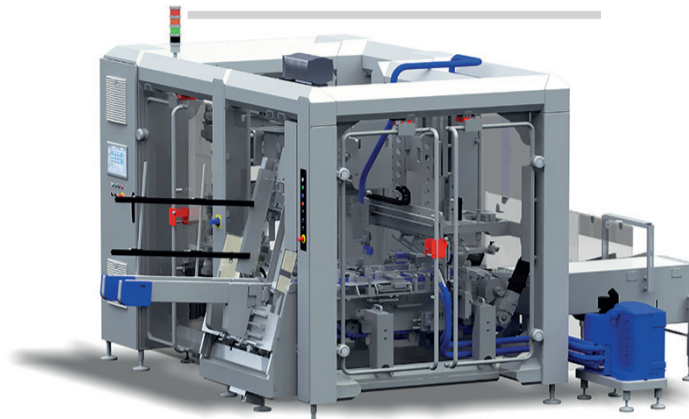
Baking industry.

Description and strong points

Combined in line with the slicer, the bagger Mod. IMA-100, through an appropriate feeding system, permits to perform in continuous and in automatic the slicing and bagging of the buns or bread loaves. According to the requirements, the bagger can be combined with a slicer with a disks cutting head for partial slicing or with a slicer with a continuous band blade for total slicing, or with both, guaranteeing in this way the maximum flexibility and versatility of the system.

CAMA GROUP

www.camagroup.com



Cama FW746 mini wrap machine

Secondary packaging machines

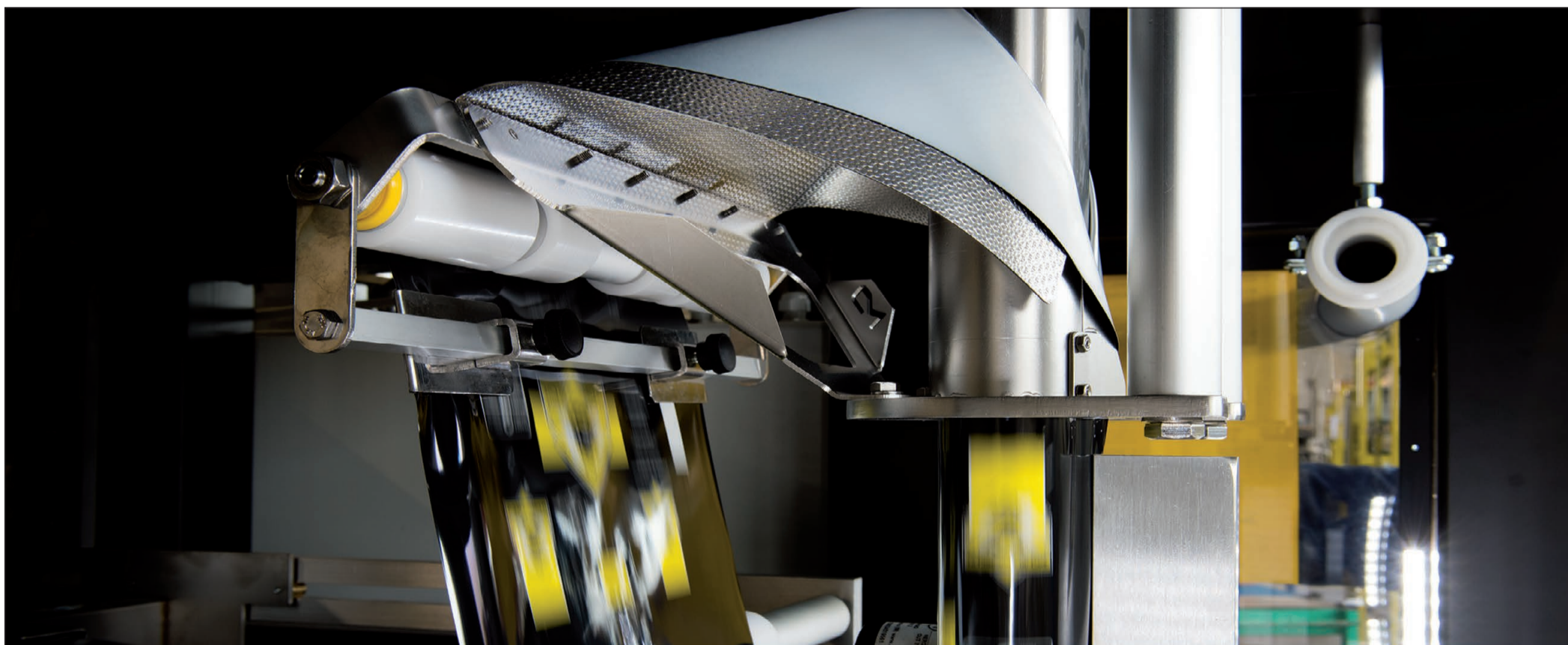
Fields of application

Food and non-food industries.

Description and strong points

Following significant investment into class-leading digital technologies – covering its machines' entire lifecycles – Cama Group has designed several industry-significant packaging solutions. From initial design, through simulation and testing and onto optimum in-field operation, Cama Group's new machines will help deliver better, faster, more focused packaging solutions, while enabling customers to increase throughput, shorten time to market, slash downtime and quickly and easily undertake format changes.

Follow



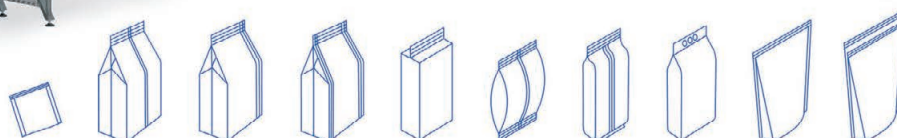
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COLUSSI ERMES – ADVANCED WASHING SYSTEMS www.colussiermes.com



Spin drying system

Fields of application

Meat, dairy, confectionery, fruit & vegetables, poultry and fishery sectors; but also pharmaceutical, hospital, logistics and automotive sectors.

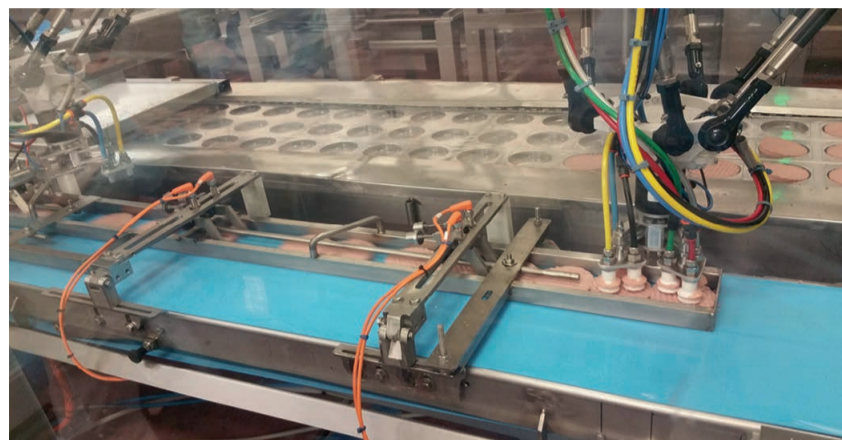
Description and strong points

High-capacities – up to 6,400 crates/hour – along with speed and perfect drying results, are just some of the features which, together with the possibility of handling crates of different types and sizes, set the new generation Colussi Ermes centrifugal dryers apart from the rest. The Colussi Ermes crate spin dryer is available in Single or Twin-lane version and in just a few seconds it is able to ensure perfect drying with limited energy consumption.

Technical specifications

- Minimum footprint: EU from 3,800 to 4,200 mm; America from 4,200 to 5,400 mm
- Energy savings between 80% and 90%

PULSAR INDUSTRY www.pulsar-industry.it



Hamburger automatic packaging line

Fields of application

Food industry.

Description and strong points

The process starts with an ultrasonic cutter with a maximum capacity of 120 cuts per minute. Each cut prepares two slices. The end of the sausages is discarded. A scale on exit from the cutter controls the weight of the pair of slices to ensure uniformity of the weight and give the cutter feedback for continuous correction of the thickness. With a theoretical capacity of the cutter of 240 slices per minute, the average production is about 180 slices per minute, just like the thermoforming machine capacity (10 bars for 18 alveoli). The transports are designed so as to be able to perform the function of buffer and flow homogenizer towards the robots, allowing the thermoforming machine to work continuously at maximum performance. The whole plant is designed to be completely sanitized and to be housed in a clean-room. The system has its own software that ensures production control and traceability. It is easily integrated with any pre-existing factory and management system. Ready for Industry 4.0 protocol implementation.

DVP VACUUM TECHNOLOGY www.dvppumps.com



New SC oil-free rotary vane vacuum pumps

Fields of application

Food & packaging.

Description and strong points

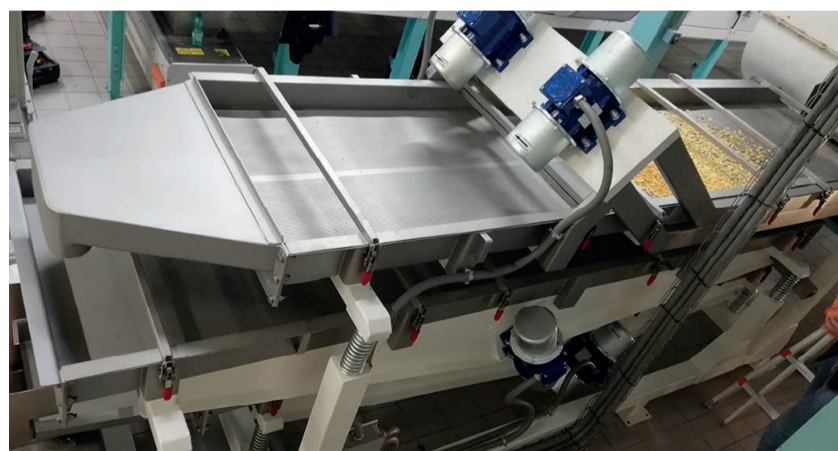
The new series of SC oil-free rotary vane vacuum pumps, from 60 to 150 m³/h, has an original design and a significant performance boost.

Technical specifications

The service life of the vanes is increased by 100% thanks to the highly resistant graphite material they are made of and the low operating temperature within the pump.

The lower operating temperature of the pump, thanks to the proper flow of air and increased ventilation, reduces heat radiation in the work environment for increased safety, thus improving and optimising the system and the production cycle. The noise level of the pumps has decreased by about 3 dB thanks to the use of a soundproofing panel inside the conveyor carter and the redesign of the intakes. Maintenance has never been so simple and thanks to the optimization of the suction and discharge phases, energy efficiency has been increased.

ERIMAKI SNC www.erimaki.it



Rectangular vibrating screen

Fields of application

Food, plastic, recycling, packaging, chemical, pharmaceutical industries.

Description and strong points

Erimaki produces and sells rectangular vibrating screens and vibrating tables designed for the sieving and transport of solid and liquid products. Big capacity, ease disassembly and cleaning, precision of sieving and high reliability are their signature strengths.

Technical specifications

The vibrations are generated by two motor vibrators with adjustable masses, that allow to change the speed of conveyor and the hourly speed of production. The rectangular vibrating screens and the vibrating tables are custom-made to satisfy the technical and plant requests. They can be made in stainless steel aisi 304/316 or in painted carbon steel.

COMI PAK ENGINEERING

www.comipak.com



A104TWM

Field of application

Bakery products, confectionery industry.

Description and strong points

The automatic twist-tie machine A104TWM applies the 'twist-band', plastic wire with central metal core to food bags which need to be open and re-closed, guaranteeing preservation and long-lasting fragrance of the content.

Technical specifications

The bag falls on the conveyor belt of the twist-tie machine which moves sideways and brings the product towards the twist-unit. Production capacity: 70/80 bags per minute.

TT ITALY

www.ttitaly.com



Celebration Cake Lines

Fields of application

Bakery and pastry.

Description and strong points

Thanks to the experience gained over the years in the Sponge Cake field, TT Italy has decided to create a new turnkey project, designed and built following the client's need, which completes the wide range of products made by TT lines.

Technical specifications

- Constant control and efficiency during the complete process, from the batter preparation to the cake decoration
- With a Celebration Cake Line it is possible to choose among several formats: round celebration layer cake; square celebration layer cake; cupcake celebration cake

Follow

NOL-TEC EUROPE (NTE PROCESS)

www.nte-process.com



Parallel Processing

Fields of application

Food processing

Description and strong points

Parallel Processing by NTE Process is a patented technology for the decoupling of each manufacturing step, so that formulation, blending, packing and cleaning can take place simultaneously. This allows customers to increase their throughput up to 300% reducing the cost, maximizing the plant flexibility and enabling a rapid batch changeover especially for allergen management and for the new requests for extreme customization.

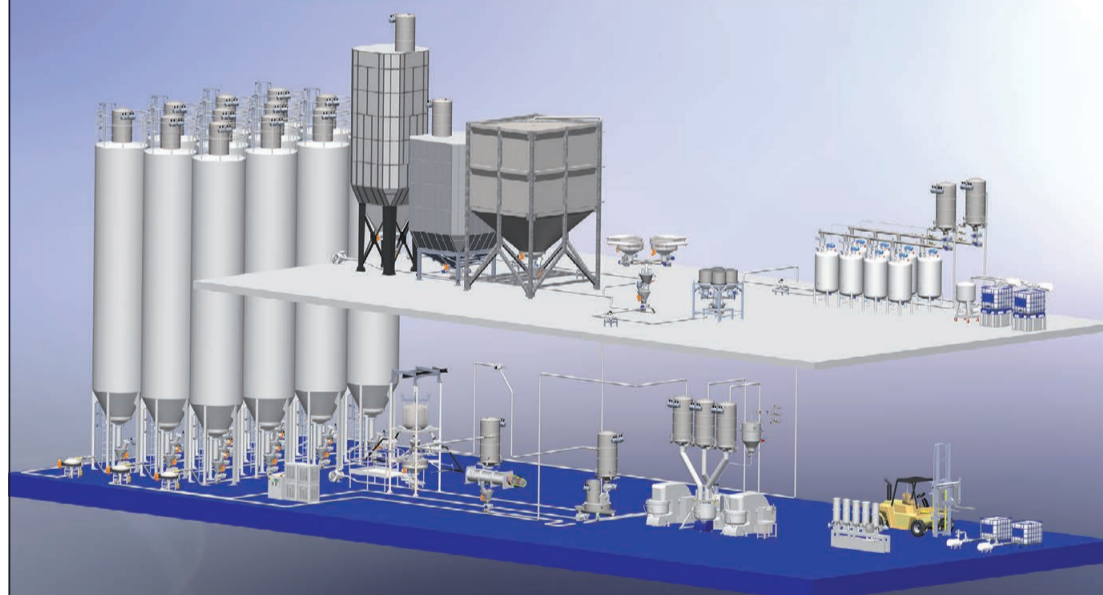
Each step of the production is independent: one recipe can be packed while another one is being mixed and another being formulated. At the same time the used IBCs can be cleaned move to the off-line washing and sanitizing phase. The system uses three main modules: In-line formulation without waiting time thanks to cone valve; air mixing with no mechanical parts in contact with the product; bagging with design suitable for easy and minimal cleaning.

Technical specifications

Wonderbach, Riboccone Mixer, Thumblar Mixer, Auger Filler, Air Assist.



Silo Systems



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EURO INOX QUALITY www.eiqindustrial.com



Electrical enclosure hygienic design

Fields of application

Food & beverage, pharmaceutical, chemical, cosmetic.

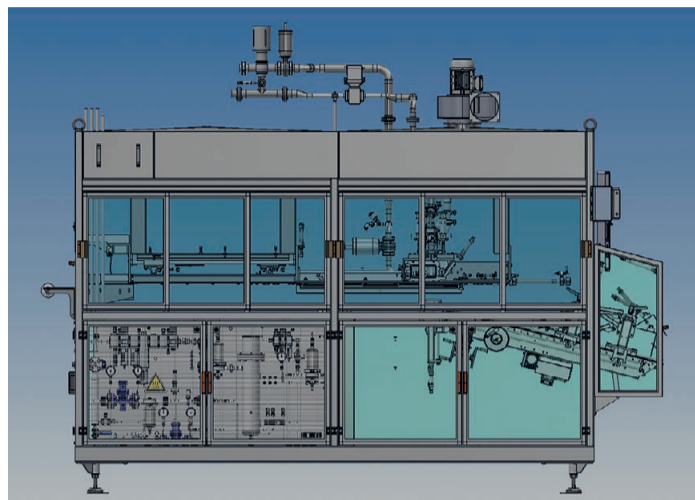
Description and strong points

The enclosure has been realized in collaboration with the EHEDG. The hinges are completely visible and present some constructive advantages that assure strength and hygiene to all the enclosure. More than that, this patented hinge can support up to 70 kg of weight and it has been certified in June 2019 by the EHEDG, to grant ease of cleaning and sanitization.

Technical specifications

- Certification CE, IP66, IP69K, IK10, UL NEMA 4x, 4, 1, 12
- Made in stainless steel Aisi 304 (EN1.4301), ScotchBrite finishing
- External hinges patented and EHEDG certified
- Silicon blue gasket Fda approved, easy to take out for cleaning
- 30° slooping roof
- Rear fixing to the machine through blind M6 inserts (on request)
- Internal mounting plate in FeZN 2.5 mm

FBR-ELPO www.fbr-elpo.it



Aseptic filling machine mod. AS-II-30/Mustang

Fields of application

Aseptic filling.

Description and strong points

New aseptic filling machine mod. AS-II-30/Mustang with double head, fully automatic and designed for the packaging of a wide range of liquid products, both low and high acidity, and with pieces, such as: milk, cream, bases for ice cream, natural and concentrated juices, tea, etc., using bags from 3 to 25 liters webbed and pre-cut and previously sterilized. The machine's main strengths are: double capacity with tank supply; same assembly time at the customer's site as for the single-head machine; stopping one head allows to continue filling with the other; reduced cost compared to two single-head machines of equal capacity.

Technical specifications

- Package size: 5 - 10 - 20 litres
- Capacity: 600-800-900 bags/h
- Output: 4,500-8,000-12,000 l/h

FINPAC ITALIA www.finpac.it



Shrink sleeving line for cans

Fields of application

Labeling.

Description and strong points

As the can food & beverage market continues to boom - from beer to juices, from iced coffee to condensed milk passing through sparkling wine and energy drinks - Finpac Italia has become a prominent supplier in the industry. The company's latest cans sleeving line, recently supplied to a major bottler in the Far-East, consists of a line based on five different cans formats, running at 30,000 bph. Finpac Italia can handle the sourcing, the shrink label design and the application. Latest trends for sleeving labels are nowadays available with amazing results: from glittering to metalized, from mirroring to gold & silver, from luminescent to fluo and UV effects.

Technical specifications

Mod. SHM HS2

- Container size: diameter min 32mm; max 107 mm; height max 330 mm
- Sleeve dimensions: LF from 53 mm up to 171 mm; CL from 32 mm up to 320 mm
- Operating speed (depending on container shape and sleeve dimensions): full body up to 36.000 bph; Tamper evident up to 42.000 bph
- Machine weight: approx 1.500 Kg

PFM - PACKAGING MACHINERY www.pfm.it



Horizontal form fill and seal machine for stand-up pouch

Fields of application

Food and non-food.

Description and strong points

This range of Form fill and seal horizontal packaging machines is dedicated to the production of stand-up pouches, which are finding wide diffusion in the most varied sectors of food, non-food and beverage.

Technical specifications

The machine consists of 3 main modules, each of which performs a specific function. The first module (Forming) produces the finished packaging, open only at the top. This operation is independent of the second module, thus facilitating format changes and avoiding a waste of packaging. The second module (Filling) takes care of the pack itself, conveying it to the filling, gas flushing and other units. The third module (Sealing) completes the sealing operation.

The fourth possible module (Classifying) is dedicated to the end-of-line operations, i.e. weight checking, metal detector, X rays and through to the boxing.

GRUPPO FABBRI VIGNOLA

www.gruppofabbri.com

Nature Fresh

Fields of application

Packaging of fresh and very fresh food products in trays.

Description and strong points

Nature Fresh is the complete packaging solution with compostability certifications based on the combination of a certified compostable cling film with high-productivity wrapping machines.

Designed to present the products in the best possible way, safeguarding all their properties, Nature Fresh is the first cling film in the world, for both automatic and manual packaging, which can boast at the same time industrial compostability certifications, according to the UNI EN 13432 standard, and domestic compostability certifications. Automac NF wrapping machines exploit the characteristics of this film combining it with equally compostable or recyclable labels and trays (cardboard, plastic, bioplastic, balsa wood, cellulose paste...). The European Union supports the project through the Horizon 2020

Program (grant agreement no. 869301).

Technical specifications

Compatible with all stretch films available on the market (PVC, PE, biobased, compostable) also in their printed version for better communication and marketing. Reel replacement time: less than 45 seconds.



BILANCIAI CAMPOGALLIANO SOC. COOP.

www.coopbilanciai.it

Galaxi

Fields of application

Food, manufacturing, chemical.

Description and strong points

Weight price labelling, labelling and control system (mid approval) for variable weight and/or pre-determined weight products has been designed with a special attention to the highly-varied world of foodstuffs. Ergonomic, robust, modular stainless steel frame easy to sanitise. Touchscreen display that can be used with gloves. Conveyor system compliant with FDA regulations, specific for the different types of product: V-shaped belts for spherical and cylindrical products, open belts for thin products, belts for cartone packages. Easy integration with the production and packaging systems. Easy interchangeability of label application systems depending on the product (arm, pusher, Air Jet).

Technical specifications

- Production rate: up to 70 pcs/min
- Weighing range: from 50 g to 15 kg
- Data Export via LAN network, USB, Wi-Fi in PDF or CSV formats
- Data sharing with SQL database



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RE PIETRO

www.repietro.com



Rice cake machines RP Series

Fields of application

These machines transform simple cereals, cereal mixtures or blends with legumes or micro-pellets into fragrant and tasty puffed cakes or healthy and crunchy no-fried snacks.

Description and strong points

Fully automatic lines for the production of puffed cakes and non-fried snacks. Top level components and materials to guarantee solidity and long lasting life, 100% made in Italy. The RP presses - supplied with remote control system for on-line assistance - are manufactured according to the Machinery Directive 2006/42/EC and are certified by TÜV and IMQ. Besides they comply with the MOCA specification for food processing machines as per Reg. (CE) No.1935/2004 and No.2023/2006/EC.

Technical specifications

- Moulds made by hardened steel coated with titanium nitride to guarantee solidity and a long-lasting life
- PLC Siemens S7-1200 for the set-up of the production phases, and for monitoring the process failures thanks to an efficient diagnostic system;
- Colour touch screen Siemens KTP 700 6,7"
- Bosch-Rexroth valves and SMC components
- Cartridge heaters controlled by Omron thermoregulators

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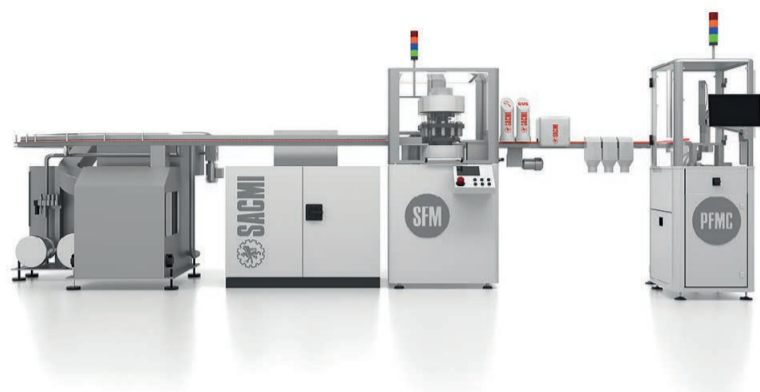
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SACMI www.sacmi.com



Ready-to-use tethered solutions

Field of application

Beverage.

Description and strong points

Tethered caps (i.e. caps that do not detach from the container after opening) are a legal requirement imposed by the EU to drastically reduce the dispersion of plastic into the environment. All manufacturers must comply with this new standard by 2024. Sacmi has developed a ready-to-use, simple and low investment solution easy to implement on existing lines and flexible enough to manage different cap designs to cope with future changes in consumption patterns.

Technical specifications

Sacmi has already developed and marketed tethered cap manufacturing solutions for both screw-off and threadless snap caps (e.g. olive oil or still drinks in general) that remain hinged to the bottle. Tethered cap development is closely linked to the ability of Sacmi to develop new lightweight-oriented standards and impose them on the market. To illustrate the point, the latest cap design for the GME 30.37 standard, developed for 26 mm necks, allows further weight reduction with respect to previous standards (1881 and 1810 for 28 mm necks) in the order of 1.8 grams. This latest solution is also ready for tethered applications.

SACMI PACKAGING & CHOCOLATE www.sacmi.com/chocolate - www.sacmi.com/packaging



Cavemil Super 860

Fields of application

Chocolate.

Description and strong points

The Cavemil Super 860 is a new generation chocolate moulding plant with continuous movement, also available in the mono-line version with mould sizes 860. Dedicated mainly to the production of solid bars and tablets, with premixed inclusions or cream filled with One-Shot technology, this plant meets the requirements of medium and high production capacity (from 500 to 5.000 KG/H) with an attractive, modern and functional design.

Designed according to the criteria of flexibility (existing moulds for the Multica-vemil 650/1200 can be reused with some construction changes), modularity, total accessibility to the equipment for cleaning and maintenance operations, the Cavemil Super offers absolutely top performance and efficiency. It is equipped with the last version of the CORE depositor, with a patent pending change over system (less than 5 minutes). In addition, there are two other patent pending solutions on this plant: the mould extraction/loading system in the mould changing station and the innovative system for positioning the finished product on the conveyor in the demoulding station.

SELMI www.selmi-group.com



Tuttuno Oneshot, Cooling Vertical Tunnel Spider and Automatic Demoulding Line

Fields of application

Small-medium chocolate factories.

Description and strong points

The Selmi Tuttuno One Shot depositor is designed to produce filled chocolates in a single operation, including tasting tablets, pralines, spheres and eggs using polycarbonate moulds as well as filled fingers and buttons that are just deposited.

The Tuttuno can be connected to the new Spider vertical cooling tunnel which is extremely compact and can hold more than 120 moulds. It can achieve productivity of up to 4 moulds per minute. Completing the line is Selmi's new Automatic Demoulding attachment. This enhances productivity and efficiency by demoulding pralines or bars from the moulds as they exit the Spider vertical cooling system. It operates at up to four moulds per minute and deposits the finished product onto a belt for feeding packing or flow wrap lines or on a rigid support that avoids manual intervention of the operator.

Technical specifications

Oneshot Tuttuno: 220 V. monofase 50/60 Hz - 3 kw - 16 A - 3 poli

Spider Vertical Cooling Tunnel: 400 V. trifase - 50 Hz. 4 Kw - 16 A - 5 poli

Automatic Demoulding: 230 V. monofase - 50 Hz. 1,5 Kw - 16 A - 3 poli

GORRERI FOOD PROCESSING TECHNOLOGY www.gorreri.com



Turn-key automatic line for celebration cakes

Fields of application

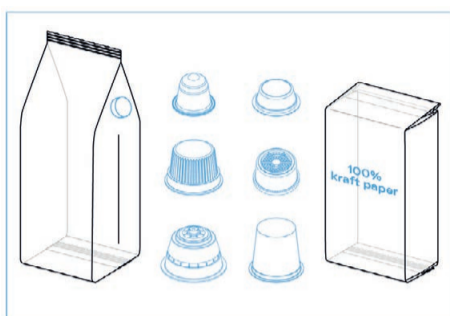
Industrial production of layer-cakes and celebration cakes.

Description and strong points

Gorreri turn-key complete automatic lines for the production of celebration cakes allow to produce till 1500 pieces/h of round, rectangular or square layered cakes perfectly shaped and decorated.

The automatic lines for layered cakes can be feeded in continuous by Gorreri Mixing Technology as Planetmixer Range and Turbomixer Range, the in continuous turbo emulsifiers ideal to produce smooth, high-machinable and light but compact creams, mousses and whipped cream to fill, mask and décor any kind of cake. Totally customizable according to customers' needs, the lines allow to dose with high precision different fillings, jam included and to finish cakes with any kind of decoration. Each line can be provided with ultrasonic slicing systems.

ICA
www.icaspa.it



Packaging machines and solutions

Field of applications

Food and beverage, pet food industries.

Description and strong points

CAP closure application on flexible packaging material for coffee, tea, flour, rice and legumes, cereals and pet food is one of ICA's latest innovations in the packaging world.

In the coffee capsule market, instead, the company presents the brand new RCL1 capsules machine, which can manage all the main types of capsules produced by the leading market brands (capacity up to 85 caps/min; patented semiautomatic changeover in 20 min).

Finally, ICA presents the kraft paper packaging material and the updated version of its HF100 historical machine for flour and sugar, with the new-patented system to obtain an air-tight closure of the bag mouth.

MANCONI & C.
www.manconi.com



Kolossal electric slicer

Fields of application

Meat slicing.

Description and strong points

Kolossal is the top of the range among commercial meat slicers produced by Manconi and it perfectly expresses the dualism between tradition and innovation. A high-quality, totally made in Italy professional electric slicer, guaranteeing perfect safety, hygiene and ergonomic features in accordance to the existing standards. All slicers are easy to clean.

Technical specifications

Available from 250 to 370, gravity, vertical and semi-automatic.

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ITALIAN PACK www.italianpack.com



Argo

Fields of application

Foodstuff packaging.

Description and strong points

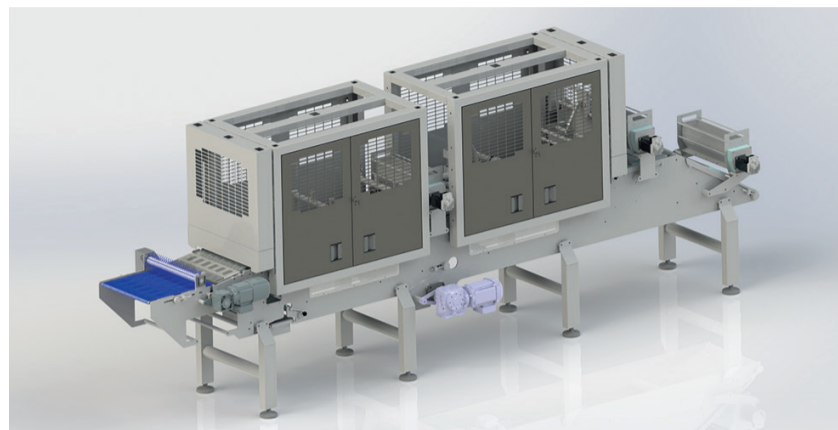
Argo is Italian Pack's top-of-the-range automated packaging machine designed to meet all needs of the packaging industry: sealing, partial vacuum, skin, gas flush and modified atmosphere packaging, all available in the protrusion version. It is highly versatile and customizable, and can accommodate different numbers of dies to satisfy customers' requirements.

Argo is available in three different models and can be fitted with one, two or three dies that can be specifically designed to accommodate the same type of tray or different types of trays for maximum speed and high flexibility for high-quality, safe packaging operations.

Technical specifications

Argo can pack up to 150 trays/min in seal-only mode, 70 trays/min in M.A.P. mode and 60 trays/min in skin mode. The same, duly configured die allows for different types of packaging: seal-only, M.A.P. and skin. The special film waste rewinder, a PLC touch screen to monitor machine parameters, and dedicated die extraction and change systems are some of the technical features that make this machine stand out among others.

SIGMA www.sigmasrl.com



Industrial Pizza Line

Fields of application

Industrial pizza production.

Description and strong points

Sigma Pizza Industrial Line is a cold system for spreading pizza dough. The patented micro-rolling system designed by Sigma reproduces the soft manual dexterity of the pizza maker respecting the quality of the dough and the gluten net. Pizza Industrial Line supplies the soft bases of the pizza adjustable in diameter and thickness already with the edge. The use is simple and practical. The shapes are always perfect.

The machine is composed of a 5m long conveyor belt, variable in width according to the number of production rows and hourly product quantity requested. Pizza Industrial Line provides until 800 pieces/h for every row.

Pizza Industrial Line comes with an automatic flour duster for the belt and another one for dough balls. A centering device correctly places dough balls on the conveyor belt that brings balls in a pre-chasing spreading. The obtained discs are floured again and transported to the cold spreading system. The machine is designed to be integrated with the balls feeding system and with the subsequent process of topping with tomato and mozzarella.

MARIANI www.mariani-it.com



Cardboard sleeve wrapper machine Model BM-363

Fields of application

Machine designed to wrap products like beverage cartons or similar packs with rigid bottom glued cardboard sleeve in multiple packs.

Description and strong points

The machine consists of an integrated blank magazine and dedicated individual stations for each pack collation, folding, wrapping operation and sealing with hot melt glue. With unusually-shaped products, the multipack can be strengthened by adding a top retaining flap which keeps the containers perfectly steady inside the cardboard sleeve.

The practical sleeve multipack, thanks to the efficient closure by means of 'hot-melt' glue, results in a particularly strong and elegant pack. The upper flap and cap steady through the packages inside and allows easy and rational use during the packing phases and when it is picked-up by the end-user from the store.

Technical specifications

- Carton blanks magazine: capacity up to 2500 blanks according to the blank thickness.
- Frame and housing: structure in stainless steel and anti-oxidant painted parts, lateral polycarbonate guards of modern design over the entire machine height.

M.C. AUTOMATIONS www.mcautomations.it



Chocolate tablet wrapping machine model MC4TB

Fields of application

Chocolate tablets.

Description and strong points

Individual wrapping of chocolate tablets with heat-sealed foil on three sides and external wrap with paper or paperboard closed with hot melt.

Technical specifications

- The perfect heat-sealed foil, folded in 5 steps
- Up to 200 wraps a minute
- Product feeding available for connection with the production line and customized wrapped products' exit for connection with downstream lines
- Product and wrapping style change over in real time
- Important floor space saving
- Cantilever design

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Automatic equipment to cut exact weight slices or portions starting from cheese blocks or provolone cheese

Cutting programs available: Thickness (Min. 2 mm) * Exact weight (Min. 50 Grs.)

All stainless steel AISI 304/316 * Plc Siemens * Teleservice system

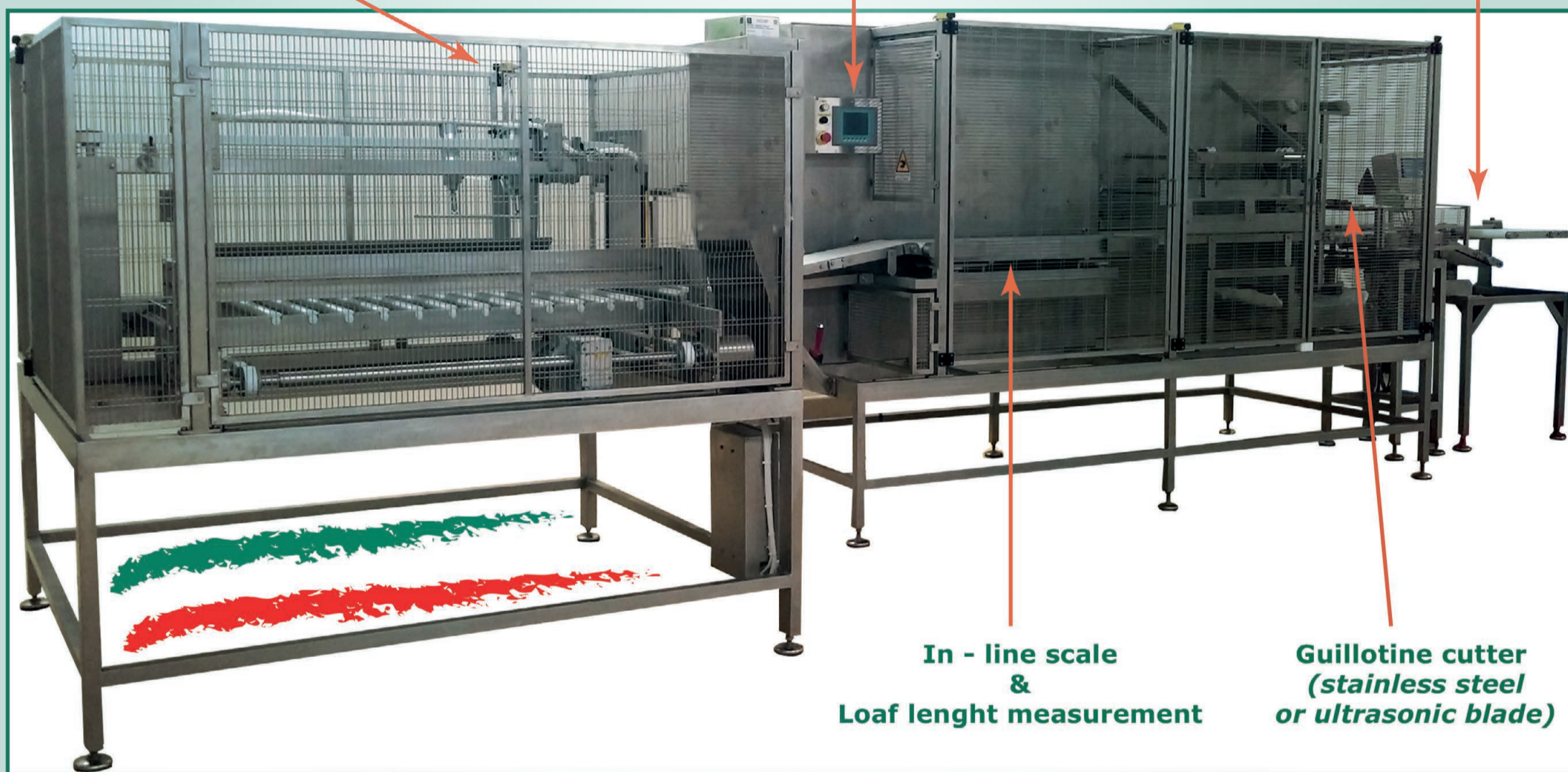
Max block dim. : 800x600 X H. 200 mm.

Max cutting speed: till to 70 ppm

Loaves cutter

Panel view

Exit check - weigher
with rejecting belt



In - line scale
&
Loaf lenght measurement

Guillotine cutter
(stainless steel
or ultrasonic blade)



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Italy goes 4.0

A report by Deloitte investigates the country's strengths and weaknesses in the implementation of digital technologies. Among fast-rising sectors and poorly confident executives.

by Federica Bartesaghi

Within the 28 EU member states, Italy is the second-largest manufacturer, behind Germany, and is at the global forefront in many aspects of the Fourth Industrial Revolution. However, according to Deloitte's report 'Italy 4.0 - Pursuing the digital future amid macro-gloom', there are big weaknesses in the country's infrastructure and education system. One example of a technical weakness is Italy's poor provision of broadband: at present, only 7% of Italian companies have a 100 Mbps Internet connection, which is less than half the European average of 16%. For what concerns the educational issue, Italy's workforce having digital competence is considerably below the European average: 29% compared to 37% for Europe as a whole.

On top of that, Deloitte interviewed around 100 Italian executives who claimed to be pessimistic about some aspects of digitalization. They feel their country needs more investment in order to compete, and they are notably less confident than their global peers about how to employ digital technology to its fullest effect.

Digital strengths

Political instability, very low growth and debt

crisis fears might seem to put Italy in a poor position to advance with the digital revolution. Yet, according to Deloitte, in some aspects Italy is at the front of the European pack, and even the global one. With approximately 5,400 high-tech manufacturing companies, according to Eurostat, Italy is one of the top four countries (along with Germany, the United Kingdom and Poland) in Europe, which has about 46,000 high-tech companies in total. If all sectors are included – services, as well as manufacturing – Italy remains one of the foremost countries in Europe, with more than 105,000 high-tech companies.

Italy is also above the European average in terms of the production and use of industrial robots, and in the adoption of 4.0 technologies such as the cloud, the Internet of Things (IoT) and machine-to-machine (M2M) communication. Italian companies also invest heavily in scientific and technological research. According to the European Commission, the average annual research and development (R&D) expenditure of Italy's top R&D spending enterprises, at 185.4 million euro, is higher than the equivalent EU average of 165.8 million euro.

L'Italia verso il 4.0

L'instabilità politica e l'elevato indebitamento rischiano di minare il progredire della Quarta rivoluzione tecnologica in Italia. Eppure, secondo uno studio condotto da Deloitte, in diversi ambiti del digitale l'Italia si posiziona meglio di altri Paesi d'Europa e del mondo. Un esempio su tutti, la produzione e l'utilizzo di robot industriali, ma anche l'adozione di tecnologie 4.0 come il cloud, l'Internet of Things (IoT) e la comunicazione machine-to-machine (M2M). Le maggiori limitazioni sono rappresentate invece da gravi carenze a livello di infrastrutture e dalla mancanza di personale specializzato. Temi che minano la fiducia dei manager italiani, meno propensi dei loro colleghi europei a credere in un pieno sviluppo delle tecnologie digitali nel prossimo futuro.

NATIONAL INDUSTRY 4.0 PLAN

In 2016, the Italian government, then with Matteo Renzi as prime minister, aimed to address some of the deficiencies with its National Industry 4.0 plan, adopted in 2017. The chief focus was enabling technologies for Industry 4.0, to which 3.5 billion euro was

allocated and for which tax breaks (so-called super- and hyper-amortisation) were introduced to encourage investment by Italian companies. According to Istat, the official Italian statistics provider, in 2017 tax incentives encouraged two thirds (67%) of Italian companies

to invest in new technologies and machinery. However, the impact was mostly in large companies - 96.7% of those with more than 50 employees made fresh investments because of tax incentives. Among smaller companies, with fewer than 50 employees, only 42% did so.





THE TECHNOLOGIES WHERE ITALY IS WELL-POSITIONED

Robotics

Although the industrial robotics sector is dominated by China, South Korea, Japan and the United States, Italy is in seventh place worldwide. The country's annual production of 6,500 units is expected to rise to about 8,500 units by the end of 2020. Although production is well behind that of Germany (which manufactures about 20,000 robots annually), Italy is in second place in Europe; France and Spain trail behind with 4,200 and 3,900 units, respectively. In addition, Italy is in the global top ten in terms of robotic intensity: the number of industrial robots compared to the size of the workforce. According to the International Federation of Robotics, Italy has 185 robots per 10,000 manufacturing employees, placing it far ahead of Spain (160), France (132) and the United Kingdom (71).

M2M communication

Italy ranks sixth worldwide in terms of M2M communication, which is fundamental to Industry 4.0. This technology permits the automatic, real-time exchange of data within a network of systems, machines, sensors and industrial robots. SIM cards, used in machines and sensors to permit the transmission of M2M data, number 16.4 for every 100 residents: a figure equivalent to such countries as China and Germany, and ahead of Japan (12.7) and South Korea (8.3).

Cloud

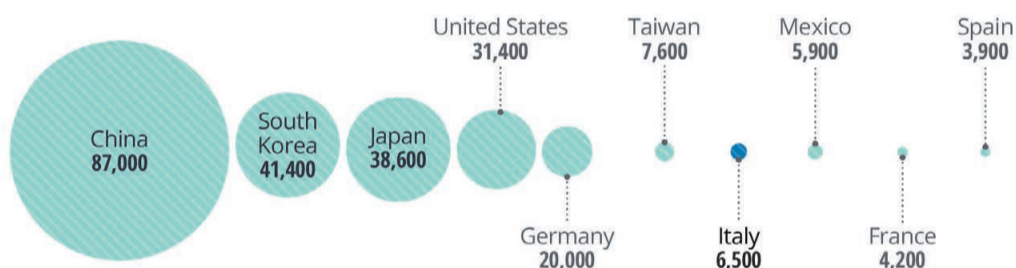
Italy is also advancing promisingly in cloud computing, another technology crucial to digital innovation. Cloud computing makes it possible to implement other solutions, such as big data and cognitive analytics; predictive models; artificial intelligence and machine-learning tools, to name a few. Eurostat data shows that cloud techno-

logies have been introduced by about 22% of Italian companies, slightly ahead of the European average of 21% and higher than Spain (18%), France (17%) and Germany (16%). According to the Polytechnic University of Milan, the cloud technologies market in Italy grew by 18% in 2017, to a value of almost 2 billion euro, with manufacturing companies leading the way.

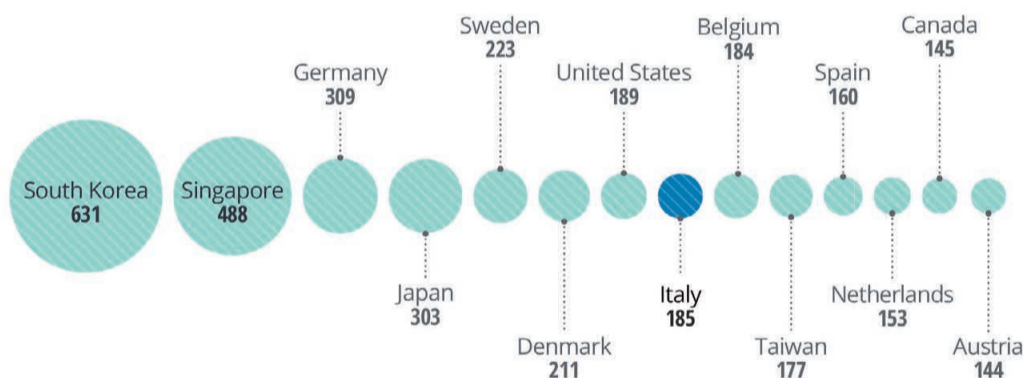
Internet of Things

IoT use is also rising fast in Italy. The value of the country's IoT market in 2017 was 3.5 billion euro, which was 32% higher than in 2016. In three years the sector has more than doubled. In 2017, the smart metering and smart car segments were the largest IoT sectors, with output of 980 million and 810 million euro, respectively, followed by smart buildings (520 million) and IoT solutions for industrial logistics (360 million).

Annual supply of industrial robots worldwide (units)

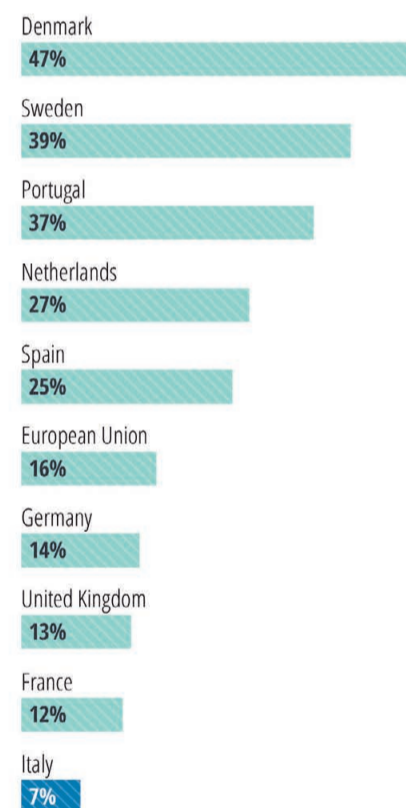


Number of industrial robots for every 10,000 employees in the manufacturing industry



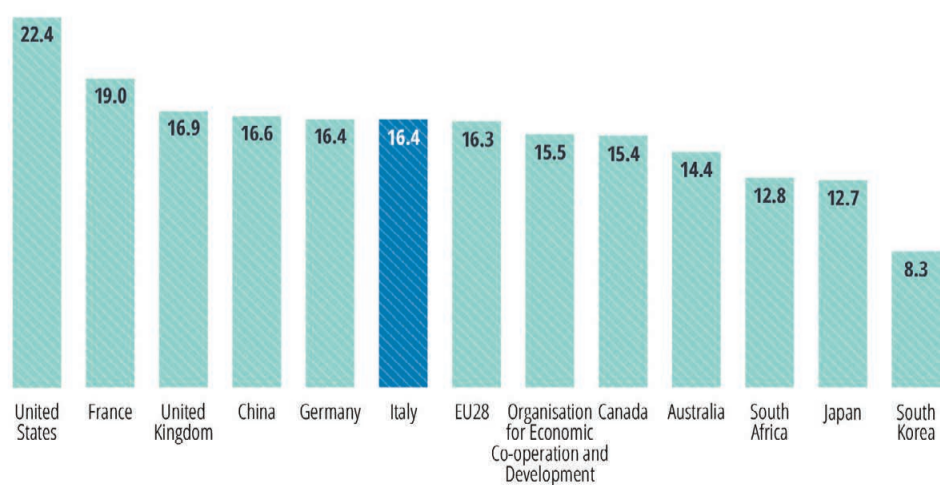
Source: Deloitte Italy, "Italia 4.0: Siamo Pronti?"

Percentage of companies with 100 Mbps Internet connection, by country



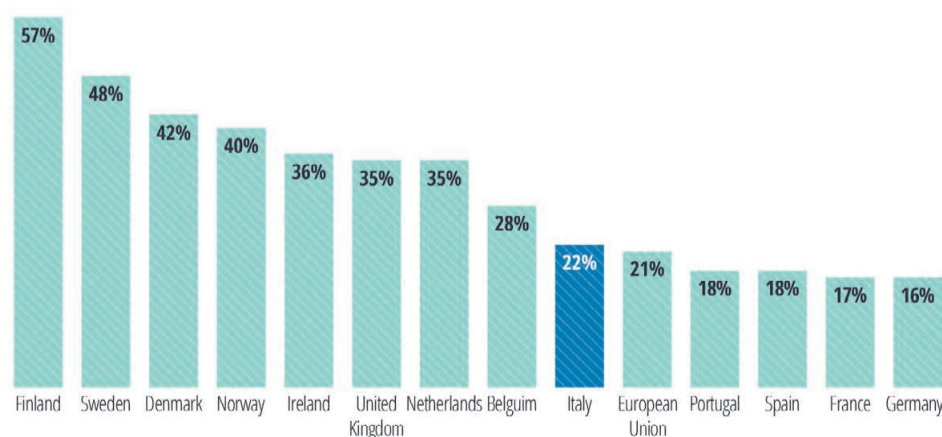
Source: Deloitte Italy, "Italia 4.0: Siamo Pronti?"

Number of SIM cards for M2M communication for every 100 residents



Source: Deloitte Italy, "Italia 4.0: Siamo Pronti?"

Percentage of companies that have adopted cloud technologies, by country



Source: Deloitte Italy, "Italia 4.0: Siamo Pronti?"

The packaging challenge of sustainability

Plastic, alternative materials and new business models at the heart of the event promoted by Ucima and Fondazione Fico, on the past February.

by Federica Bartesaghi

The world's leading packaging experts met in Bologna on the past 20 and 21 February to discuss the future of a sector that ranks high on the countries' agenda. The occasion was represented by 'Packaging Speaks Green', the first international forum on sustainable packaging promoted by Ucima, the trade association that represents the Italian packing and packaging machinery manufacturers, with the collaboration of Fondazione Fico, which hosted the event at Fico Eataly World (Bologna).

During the two-day meeting, held on the eve of the Covid-19 crisis in our country, the current market scenario was described and the new, possible business models depicted. After analyzing, in the first part of the report, the relationship between sustainability and consumption in Italy, in part 2 the focus will be set on the legislative framework in Europe, India, Australia and the US; as well as on the new materials and innovative packaging solutions presented by the world's leading Fmcg brands.



COUNTRIES AND LEGISLATIONS

The European Green Deal

Three years after its adoption, in December 2015, the EU Circular Economy Action Plan represents the first concrete step taken by the European Union to support the transition towards a competitive circular economy with zero climate impact. Among the main goals of this plan is the 50% reduction of food waste by 2030; the development of quality standards for secondary raw materials; and a tailor-made strategy for plastics, considered the main cause of Ocean pollution. To this purpose, in May 2018 the EU Commission set an ambitious target for 2025: to have 50% of plastic obtained from recycled material; and the introduction of a new system for calculating and verifying the annual consumption of plastic, "which will have a significant impact on the figures communicated by the various member countries", explains Roberto Ferrigno, founder and director of Lumina Consult, a consultancy specialist based in Brussels.

The acceleration towards a circular economy in the EU took place in March 2019, when the EU Council gave the formal go-ahead for the directive that, starting from 2021, will ban the sale of single-use plastic items such as plates, cutlery, straws and cotton buds sticks. Finally, in December 2019 the President of the European Commission, Ursula Von Der Leyen, presented the first European climate plan, renamed 'Green New Deal', whose ambitious is to achieve zero net emissions of greenhouse gases in Europe by 2050, to achieve climate neutrality.

In Australia and New Zealand the focus is set on consumers' education

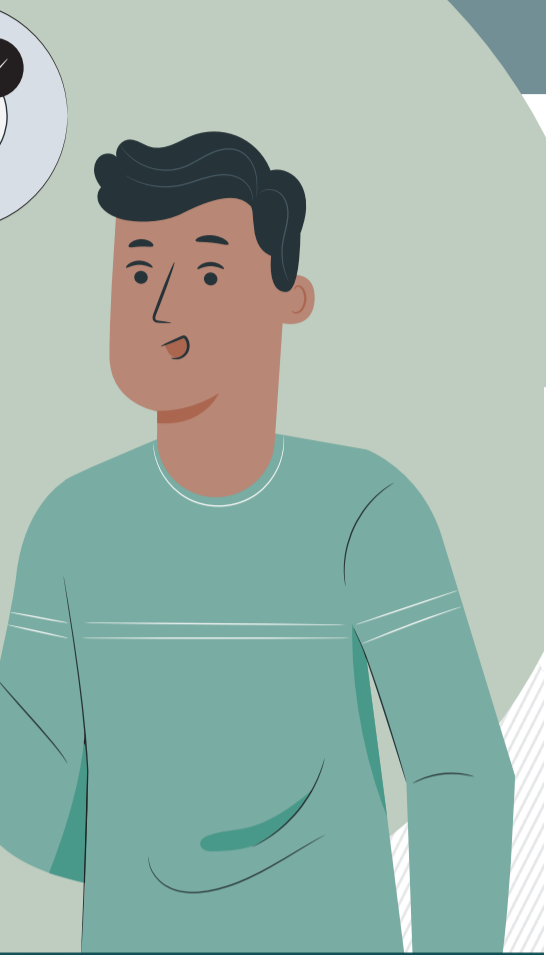
In 2018, Australia launched the 2025 National Packaging Target to start a sustainable recycling value chain. Four the goals that the country wants to achieve by 2025: reusable, recyclable or 100% compostable packaging; the recycling of 70% of all plastic packaging; an average content of recycled material of 30%; the gradual elimination of disposable plastic packaging, especially the most difficult to dispose. "This is not a law, but rather a shared intent," explained Nerida Kelton, of the Australian Institute of Packaging. "In Australia, the collection of the various types of materials is complicated due to the absence of adequate structures for their disposal. Think that there is just one composting plant in the whole country." To achieve these goods, a (voluntary) logo was adopted on a large scale to help citizens to make a correct separate collection: the Australian recycling label. "Launched one year ago - adds Nerida Kelton - it has already been adopted by 200 companies and another 200 are ready to start".



A SAMPLE OF THE AUSTRALIAN RECYCLING LABEL

The Indian infrastructure issue

"In India, consumers' education on a correct waste disposal is a huge problem, which has a strong impact also on hygiene and public health, in addition, of course, to the environmental impact," explained Sanjay Kr. Chattopadhyay, director of the Indian institute of packaging, active in the country for over 50 years. The situation in India is similar to that of many other developing countries,



Il packaging alla sfida della sostenibilità/2a parte

I maggiori esperti mondiali di confezionamento si sono dati appuntamento al Fico Eataly World di Bologna, lo scorso 20 e 21 febbraio, per discutere il futuro di una filiera che si trova al centro dell'attenzione mondiale. L'occasione era rappresentata da 'Packaging Speaks Green', primo forum internazionale sul packaging sostenibile promosso da Ucima, l'Associazione nazionale che rappresenta i costruttori italiani di macchine per il confezionamento e l'imballaggio, con la collaborazione di Fondazione Fico. L'evento, che si

è svolto alla vigilia dello scoppio dell'emergenza Covid-19 nel nostro Paese, ha tracciato lo stato dell'arte dell'industria e delineato nuovi modelli di business, sottolineando le best practice di Paesi e aziende all'avanguardia nel settore. In questa seconda parte del report, l'attenzione viene posta sul contesto legislativo in alcuni mercati mondiali strategici, sui 'vecchi' e i 'nuovi' materiali di confezionamento e sulle novità proposte da alcune grandi aziende mondiali del Largo consumo confezionato.

follow

which have been experiencing a fast demographic increase and an urbanization process that has caught the municipalities unprepared. "By 2040, India is forecast to overtake China as the most populous country in the world - adds Chattopadhyay - but there is still a total lack of environmental responsibility." India had set the goal of eliminating all single-use plastic items in 2019. A deadline that has been postponed to 2022, yet no formal guideline or governmental decree has been issued to date.

USA: there is a total lack of harmonization

"The greatest issue of the US recycling legislation is the total lack of harmonization between strategies and tools among the US States. Furthermore, the environmental awareness of both of producers and consumers is still not enough," said Mariagiovanna Vetere of Ameripen, American institute for packaging and the environment. "The government's first attempt to coordinate efforts took place last year, with the creation of the Break Free from Plastic Pollution Act, which however is still only a bill." In 2020, another bill will be probably approved by California - the first of its kind in the United States - to recycle disposable packaging. "A law that sets new and stringent goals, like a 30% recycling rate by 2026, that increases to 40% by 2028 and to 75% by 2030, yet without providing the industry with the appropriate tools and the necessary infrastructure." Something similar is happening in Maine, where a proposed legislation is under review, which would increase the 'extended producer responsibility' (Epr). "What we really need from institutions is more infrastructure for recycling materials. Furthermore, to date there is no reliable data on how much is actually recycled in the United States."



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The packaging challenge of sustainability

MATERIALS & TECHNOLOGIES

False myths about packaging

“One the many and most widespread wrong beliefs about plastic is that PET bottles are the main reason for Ocean pollution, and that bioplastics represent, instead, a solution to this problem,” argues Paolo Spranzi, associated partners of McKinsey. “Both PET and glass are two highly recyclable materials, but in the analysis of the carbon footprint PET is the winner, since glass demands a high energy expenditure for its manufacturing.” Among the future challenges of the packaging industry, the McKinsey analyst identifies recyclability - where too many materials are still left out of the current waste disposal systems - and a reduction in leakage, that is the dispersion of such materials in the environment. Paola Fabbri of the University of Bologna also spoke on the topic: “Plastic has led to pioneering innovations, which made the modern lifestyle possible. We shouldn’t therefore think of a plastic-free world, but rather of a plastic-free waste.” Produced from fossil resources, plastic has a very short life cycle when applied to ‘disposable’ solutions, also because just a small part of the 78 million tons of plastic produced every year is sent for recycling (14%), while about 95% of its value is lost after use. “Today - adds Paola Fabbri - of all

the recycled plastic only 2% becomes, in the end, a new pack.”

Bio-based materials: handle with attention

In recent years alternative solutions have been developed, such as bioplastics, made from raw materials of vegetable origin, like cellulose or sugar cane. However, the lack of adequate disposal facilities for these new materials, as well as a generalized and widespread ignorance of their characteristic, determines that using them could translate into an even greater degree of pollution than plastic. “Because one thing are materials that biodegrade in natural conditions - Fabbri underlines - while another thing are materials that biodegrade in special structures and after chemical treatment. Today, there is still too much confusion between these two types of materials.”

“To really evaluate the sustainability of a company or product, it is necessary to conduct an LCA (Life cycle assessment) study that takes into account

every aspect of production: from the consumption of water, energy and soil to the carbon footprint and at the end of life. Only once all these data are available it will be possible to make significant comparisons,” explained Alessandro Manzardo of the University of Padua. “In addition,

to date there are no comparative data available to evaluate the LCA of plastics and bioplastics. Where one is better than the other according to a parameter, it is often worse in other evaluations.”

The Novamont company of Novara is one of the major Italian producers of bioplastics and has patented Mater-Bi, a compostable and biodegradable bioplastic. “We are not here to say that we will save the world with bioplastics,” said Marco Versari, head of institutional relations. “Our company mainly produces bioplastic bags for the collection of wet waste, to allow the creation of a high quality compost. In our opinion, the collection of wet waste is one of the supply chains in which the use of bioplastics really makes sense today.”



BRANDS

Some of the latest initiatives and packaging solutions developed by the leading world Fast moving goods manufacturers in the home-care, food and beverage sectors.

Procter & Gamble

“Our company has chosen to take responsibility for all the packaging it brings to the market and among our primary objectives is the 50% reduction in the use of virgin plastic,” said Enrico Dolce of Procter & Gamble, that during the forum presented the HolyGrail project, led by P&G and supported by the Ellen MacArthur Foundation. The aim of the project is to facilitate the separation of the various packaging materials sent for recycling by enhancing the detection capabilities of the automatic selection systems. Thanks also to the collaboration with Tomra, expert in inspection systems, the waste is first scanned



PRODUCED USING THE PLASTIC COLLECTED ON BEACHES.

for the recognition of materials, which are subsequently separated with the use of compressed air.

Another P&G initiative to boast sustainability is the PureCycle purification system: “A project we have been working on for five years, and whose goal is the complete purification of polypropylene.”

Massimo Zanetti Beverages Usa
The American branch of the Massimo Zanetti Beverage Group, which is headquartered in the province of Treviso (Veneto), was the first to launch on the US market a line of 100% compostable coffee capsules.



Barilla

With a turnover that reached 3.5 billion euro in 2018, the company produces more than 2 billion tons of food every year. “Among the goals achieved there is a 30% decrease

in the weight of the packaging materials used. This allowed us to save 125 tons of materials a year. “By the end of 2020, 100% of the Barilla packs placed on the market will be mono-material. While the long-term goal is the zero environmental impact by using only materials from renewable sources.”

Coca Cola

“We realized that nobody cares how much a bottle of Coca Cola weighs, once it ends up in the ocean,” said Roman Manthey, Coca Cola’s



THE PACK OF PAVESINI HAS BEEN MODIFIED, WHICH ALLOWED TO SAVE 112 TONS OF PAPER EVERY YEAR AND TO STOP 242 TRUCKS FROM CIRCULATING.



FOR SOME PRODUCTS, THE COMPANY HAS PASSED TO FROM NON-RECYCLABLE MATERIALS TO SOLUTIONS THAT CAN BE DISPOSED WITH PAPER.

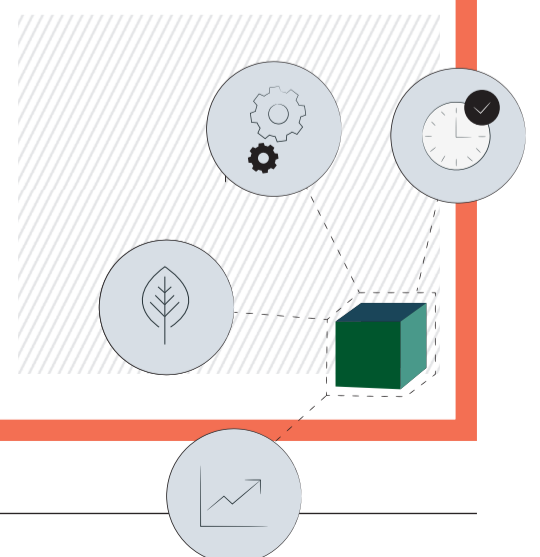
global supply chain engineering & infrastructure. “For this reason, two years ago we decided to focus our efforts mainly on the issue of waste management.” For the US multinational, the goal by 2025 is to have 100% recyclable packaging; by 2030, the goal is to make bottles and cans with an average of 50% recycled material.



BY CHANGING THE PLASTIC ENVELOPE WITH ONE MADE OF CARDBOARD, 4,000 TONS OF PLASTIC WILL BE SAVED.



THANKS TO THE MIGRATION FROM BOX TO POUCH, IT WAS POSSIBLE TO SAVE 2,130 TONS OF PLASTIC IN EUROPE AND STOP THE CIRCULATION OF 1,900 TRUCKS EVERY YEAR.



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THE ART OF
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A continental-size market

Italy is Brazil's leading supplier of food-technologies, with a 24% market share on total imports. But how will the scenario change after the Covid-19 crisis?

Un mercato dalle dimensioni 'continentali'

Con oltre 210 milioni di abitanti il Brasile ha, di fatto, le dimensioni di un sub-continente. E in questo gigantesco Paese, il valore delle importazioni di macchine e attrezzature per l'industria alimentare ha superato, nel 2019, i 219 milioni di dollari. Le importazioni rappresentano circa il 14% del mercato, di cui il 24% provenienti dall'Italia, il 22% dalla Germania e l'11% dagli Stati Uniti. Benché pesantemente colpito dagli effetti della pandemia da Covid-19, il gigante sudamericano rimane una porta d'ingresso privilegiata per tutta l'America Latina e presenta un notevole fabbisogno tecnologico. Un bisogno che le aziende italiane - mediante trasferimento di tecnologie, know-how specializzato, formazione di capitale umano e assistenza tecnica in settori chiave - possono contribuire soddisfare.

by Federica Bartesaghi

With its more than 210 million inhabitants, Brazil occupies nearly half of the South American continent. Brazil is also the largest economy in Latin America, and one of the largest in the world. According to the data provided by the United States Department of Agriculture (Usda), Brazil's Gross Domestic Product (GDP) closed out 2019 with an accumulated growth of 1.1% compared to the previous year. Although lower than expected, this is the third consecutive expansion in the GDP, which amounted to 1.8 trillion US dollars.

In this giant market, the value of Brazilian imports of food machinery and equipment reached 216 million dollars in 2019. According to the latest data provided by Euromonitor and by the Brazilian Ministry of Economic

Affair, elaborated by the Italian Trade Agency (ITA), imports account for nearly 14% of the market. Italy, which owns 24% of this share, is the country's number one supplier of food technologies, followed by Germany (22%) and the United States (11%).

The local industry, for its part, is worth nearly 1.5 billion dollars: 92.5% of this value is generated by producers of food technologies; 7.2% by producers of machines and equipment for the dairy and beverage industries; and the remaining 0.3% is generated by producers of machines for the tobacco and coffee industries.

Despite the country has been severely hit by the Covid-19 pandemic, it remains a strategic getaway to the whole Latin America and on top of that, it has a great need for advanced

food technologies, as well as for highly skilled technicians and specialized know-how.

The Covid-19 effects on the Brazilian economy

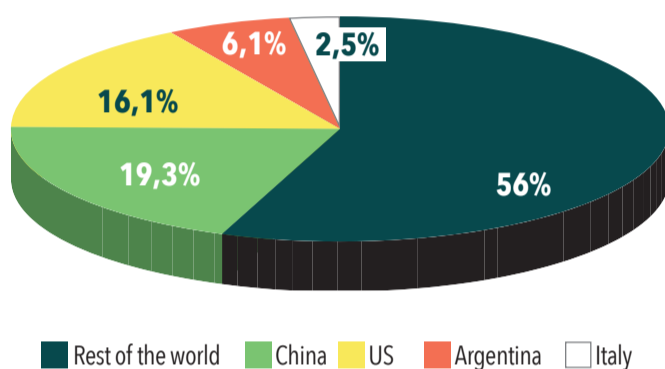
The Coronavirus pandemic has radically changed the economic outlook. According to the ITA Agency, although it is early to fully assess the economic impact of Covid-19 on the Brazilian economy, some forecasts show that the impact on growth will be severe. The average growth forecasts for private analysts surveyed by the Central Bank stands at -3.8% for the current year, with the most pessimistic forecasting a 7% decrease. The IMF estimate is 5.3% for 2020. The rebound in 2021 will not be enough to allow a full recovery of what lost because of the pandemic, standing at +3.2% for private analysts and at 2.9% for the IMF.

THE BILATERAL TRADE WITH ITALY

Istat/ITA data show a slight recovery in Italian exports to Brazil, which amounted to 3.96 billion euro in 2019, up 2.2% compared to 3.87 billion euro in 2018. Likewise, in 2019 our country recorded a 6.5% decrease in imports from Brazil, which amounted to 3.15 billion euros. Therefore the trade balance, already positive for Italy, rises to 812.6 million euro (it was 509 million in 2018).

In 2019, Italy was the 13th outlet market for Brazilian goods and 5th destination country in Europe after Holland, Germany, Spain and Belgium. To Brazil, Italy is the 9th major supplier (the 2nd among European countries after Germany), with a 2.28% share of total Brazilian imports (Source: TDM, Brazilian Ministry of Economic Affairs).

TOP BRAZIL SUPPLIERS (2018)



MACHINES AND EQUIPMENT: PRE & POST COVID-19 OUTLOOK

As often happens, after a period of downturn the capital goods sector is the first to be hit. This happened in Brazil too, where the crisis experienced between 2014 and 2015 severely affected the whole industrial sector and, as a consequence, also Brazilian imports of machines and mechanical equipment. Imports dropped from 29.3 billion dollars in 2013 to 14.2 billion dollars in 2017. Starting from 2017, the country experience a more stable scenario from both a political and economic point of view, and therefore imports started growing again, at a rate of 10.2% in 2018 and 13.6% in 2019. In 2020, investments in capital goods were expected to keep on growing between 12 and 15%, to around 20-21 billion dollars, thus returning to pre-crisis levels. Nevertheless, the Covid-19 pandemic has determined a strong slowdown in the world economy and almost all industrial segments have postponed their investment plans to a later date, also in Brazil.

In spite of that, the country remains an important market for Italian manufacturers of machinery and mechanical equipment. Destination of 1.46% of Italian exports in the sector, it currently represents the 15th largest market in the world and the 2nd in Latin America after Mexico, whose market share is 1.61%. To Brazil, Italy is the 4th largest supplier, with a 6.1% share on total imports of machinery and mechanical equipment, which is worth 1.1 billion dollars.

THE BRAZILIAN FOOD INDUSTRY

Market size

Brazil is one of the major world players in the food processing industry. The sector is responsible for 10% of the country's GDP and employs 1.6 million workers. The country is also home to 12% of global water resources and is the main world producer of coffee, soy, bovine meat and orange juice. It is also the second largest producer of chicken meat and sugar; the third of fruit and maize.

In 2019, Brazilian food industry sales amounted to 177 billion US dollars (699 billion reais), an increase of 7% compared to the previous year. This outstanding result is due to several economic and social factors, including the relatively low interest rates and inflation being at the lowest levels in years. For 2020, the food industry is expected to keep growing as the Brazilian economy slowly recovers from the recession, though it is still uncertain how the Covid-19 outbreak will affect the market. The pandemic is indeed expected to cause severe economic impacts in the country, leading to higher risk aversion from importers.

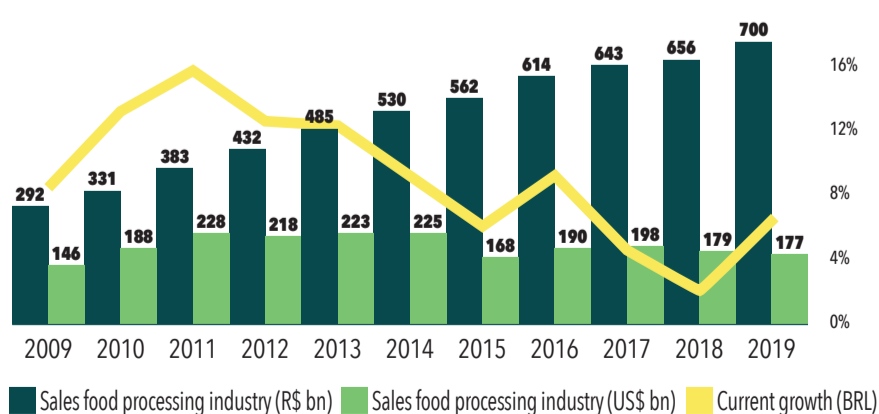
Imports-exports: the state of the art

In 2019, the country's agri-food imports totaled 8.2 billion dollars, up 1.36% over the previous year. Imported products therefore represent 9.4% of the market. The main imported food categories are cereals (26.2%), vegetables and preparations (13%), animal and/or vegetable fats or oils (11.2%), malt and wheat flour (9%) and fruit (7.5%). Alone, the latter accounts for 66.9% of Brazilian imports of food and drinks. Other categories with a significant share on imports are wines (4.5%); cocoa and preparations (3.9%) - where Italy is the 3rd largest supplier, after Ivory Coast and Argentina, with a 6% share -; milk and milk cream, also with the addition of sugar (3.0%), supplied almost exclusively from Argentina and Uruguay (94%); preparations based on cereals, flour, starches, starch or milk, including bakery products and pasta (2.7%) - with Argentina (26.8%), Italy (18.6%) and Germany (11.8%) as main suppliers -; coffee and tea (1.47%), whose main supplier is Switzerland (43.7%); cheeses and dairy products (1.44%),

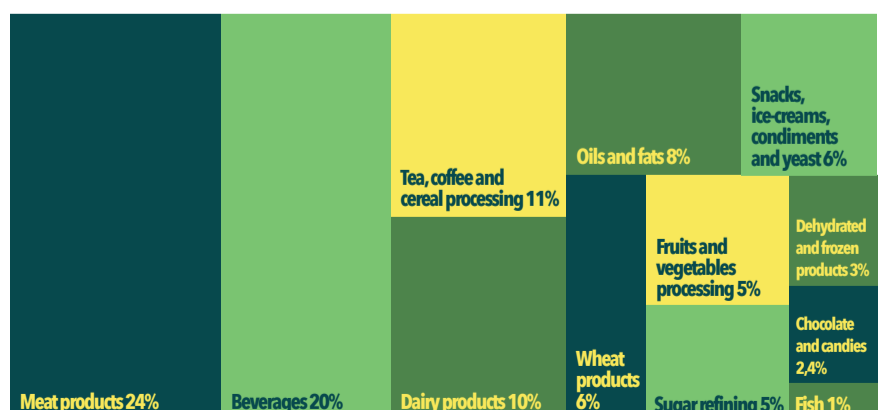
whose main suppliers are Argentina (60.6%), Uruguay (20.6%), France (5.8%), the Netherlands (5.47%) and Italy (3.5%).

Brazil's main food & beverage supplier is Argentina, with a 37.7% share. It mainly supplies cereals (47.7%), vegetables and preparations (16.8%), malt and wheat flour (11.7%) and fruit (5.9%). Follow in importance the other two countries that make up Mercosur, namely Uruguay (6.9%) and Paraguay (6.2%). The United States, Brazil's major supplier of cereals, is 5th in the ranking, with a 4.9% share in 2019, followed by Portugal (4.81%), Chile (4.75%), Spain (3.43%) and Italy (2.8%). Chile exports mainly wine (36.7%) and fruit (33.9%) to Brazil, while Portugal, the country's major supplier among Eu countries, exports olive oil (67.5%) and wines (13.2%). Spain mainly provides Brazil with fruit (25.5%), olive oil (22.1%) and vegetables (17.7%). Italy supplies a varied basket of products, with wines accounting for 16.7% of total imports from Italy, fruit for 16.4% and pasta for 12.8%.

FOOD PROCESSING INDUSTRY SALES



SHARE OF SEGMENTS IN THE BRAZILIAN FOOD PROCESSING INDUSTRY BY GROSS SALES (%) IN 2019



Source: Brazilian Food Processing Industry (ABIA)

A continental-size market



Food retail

The Brazilian Supermarket Association (Abras) reported supermarket revenues of 97 billion US dollars in 2018, 5.2% of the country's GDP. This represents an increase of 0.8% as compared to the previous year. The number of retail stores has been stable in the past years, comprising around 89.4 thousand outlets. However, in the last three years the food retailing sector saw a significant increase of the cash & carry format, as consumers' purchasing power was constrained during the economic downturn. Approximately 80% of food and beverage distribution takes place through retail stores.

Food service

According to the Brazilian Food Processors' Association (Abia), there are approximately 1.3 million foodservice outlets across Brazil, with over 95% of establishments characterized as small-to-medium size, family-owned operations. Large and multinational foodservice chains represent less than 5% of food service companies. In 2018, the food service sector purchased 47.2 billion US dollars. Abia estimates total revenues of the Brazilian food service sector at 117 billion US dollars. Restaurants and fast food chains detain the lion's share of 35% of the segment, followed by bakeries (15%), bars (13%) and snack bars (11%), institutional catering (7%), hotels and motels (4%) and air catering (2%).

Source: Usda

FACTS & FIGURES

POPULATION • 209 million
GDP • 1.8 trillion dollars
GDP PER CAPITA • 8.742 dollars

source: Ibge

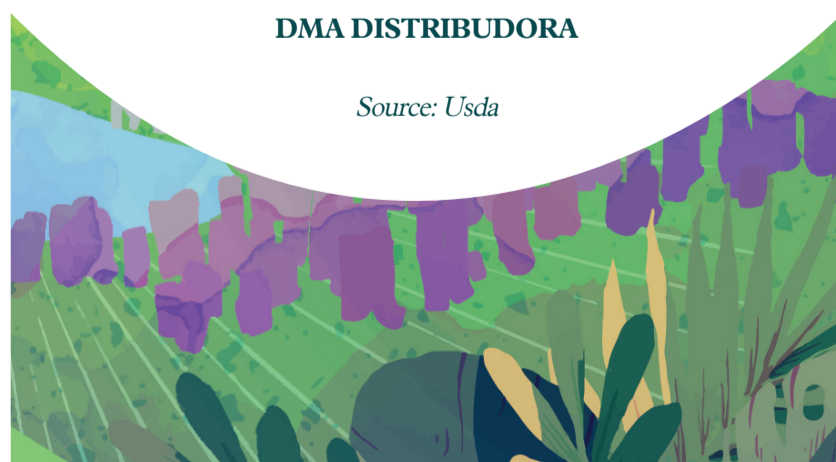
FOOD INDUSTRY BY CHANNEL (2019)

FOOD INDUSTRY OUTPUT • 177 billion dollars
FOOD EXPORTS • 34 billion dollars
FOOD IMPORTS • 5 billion dollars
DOMESTIC MARKET • 141 billion dollars
RETAIL • 95 billion dollars
FOOD SERVICE • 46 billion dollars

TOP 10 COUNTRY RETAILERS IN 2018

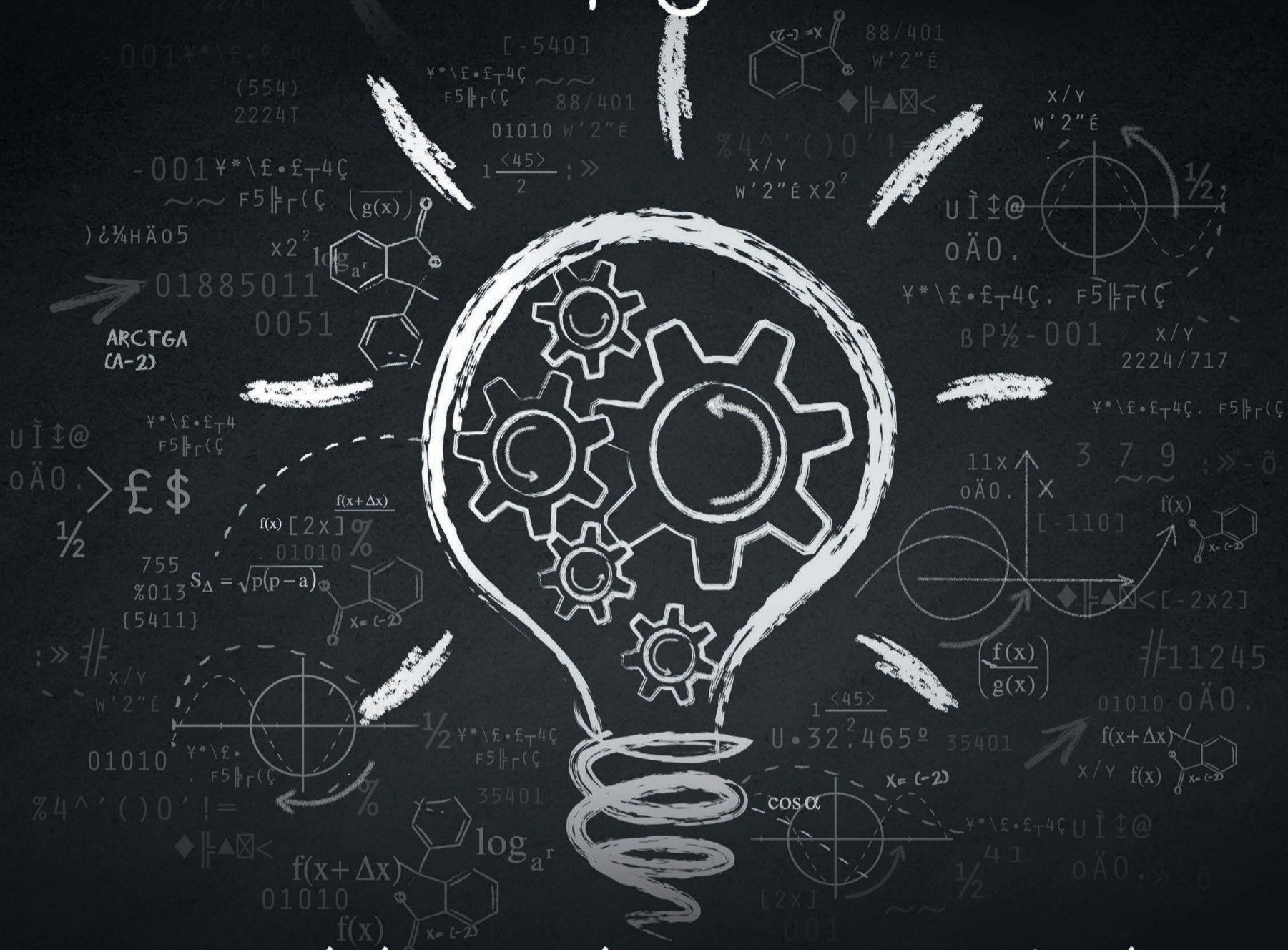
CARREFOUR
GRUPO PAO DE ACUCAR
WALMART BRASIL
CENCOSUD BRASIL
IRMAOS MUFFATO
SDB COMERCIO DE ALI
SUPERMERCADOS BH
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Source: Usda



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Clean labels, natural flavors, high-quality products. Meat and cured-meat manufacturers are demanding more from suppliers of aromas, ingredients and cultures. Strategic business partners, also during the Covid-19 emergency.

Dettagli che fanno la differenza

Etichette trasparenti, sapori naturali, prodotti finiti di alta qualità. L'industria delle carni e dei salumi chiede molto ai fornitori di aromi, ingredienti e colture. Partner indispensabili, anche durante l'emergenza Covid-19.

Fratelli Pagani

www.fratellipagani.it – www.paganichef.it

Valentina Cardazzi, marketing manager

Specialized in the production and marketing of flavorings and ingredients for the food industry, Fratelli Pagani can boast a long experience in the creation of tailor-made solutions for meat processing: "For 110 years we have been creating the emotion of made in Italy by offering naturally healthy and exclusive flavours and ingredients", said the marketing manager, Valentina Cardazzi, daughter of Francesco and grandson of Marco Cardazzi, the two brothers at the head of the company. After closing a positive 2019, the company found itself facing the global health emergency: "Pagani, like other companies in the food sector, has recorded double-digit growth in turnover during the crisis. We experienced unusual peaks: a surge in sales in March (+15%), balanced by an adjustment in April." A success achieved, according to the marketing manager, due to the stocks of the mixes for cooked hams, seasoned products and fresh meat preparations (like sausages and hamburgers) and, above all, due to the uninterrupted work of the 120 people employed. "Work shifts have been increased by 30% to compensate for the reduction in the number of people working simultaneously. All of them were equipped with FFp3 mask, gloves, disinfectant and control of the temperature. The sales team, instead, entered smart working. Thanks to these interventions, no one got sick and we managed to meet the demands. For this reason, we decided to give to our staff 400 euros in addition to overtime with a 50% increase."

Allergen-free Teriyaki Sauces

Teriyaki sauce is a traditional condiment of Japanese cuisine, one of the main ingredients of which is soya. It is usually used in the preparation of fish and meat, giving the dishes a delicious bittersweet flavor. Two different tastes available: 'Classic' - Teriyaki taste typical of oriental cuisine: caramelized, spicy and fried notes; and 'Lemongrass' - Teriyaki taste enriched with typical Thai cuisine notes: sweet, fresh and slightly citrusy.

Strong points

- Water soluble marinades
- Complex aromatic profile
- Authentic and high quality selected raw materials
- Recipes that respect the culinary procedures and original flavours
- In line with the health trend (without allergens) and without added monosodium glutamate
- Perfect complement to the convenience segment



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GLF

www.glfingredientialimentari.com



Luca Avanzo, quality manager

Since 2010, Glf has been producing functional, semi-finished powder products for the food industry. "Today, the market asks for additive and functional blends, both for the flavoring and for protein content. For instance, in the cooked products segment, for big injections the request is for functional mixtures rich in starches; for small injections, sugars, proteins and anti-oxidants are mainly requested," said Luca Avanzo, quality manager for Glf, who is satisfied with the results achieved in 2019: "The year ended on a rising note, both in volume and value." The trend of the first months of 2020 was, instead, more complicated: "Until March, we were growing by 30%. After the Covid-19 sanitary emergency, and above all the big consequences it had on the food service sector, we have experienced a 30% decrease," he added. "I am convinced, however, that orders will start to grow again in September and that if by the end of the year we will record a loss, it will be not severe. Products stability, high added-service and rapid intervention are, according to Avanzo, the great needs expressed today by market operators."



I.T.ALL.

www.italisrl.com

Silvano Bedogni, owner

"We are specialized in the manufacturing of customized blends, made according to the special needs of each customer," said Silvano Bedogni, owner of I.T.ALL., founded in Reggio Emilia in 2003 and active in the supply of ingredients, additives and flavorings for the food industry. "We also have standard preparations, both dyes and preservatives. In particular, in the latter segment we offer Otex, a natural anti-oxidant alternative to rosemary, now considered an additive and classified as E 392. In general, for their products customers require clean label solutions, the elimination of additives and high food safety. In addition to a longer shelf life of the finished product." The results achieved by the company in 2019 were very positive, followed by a stagnation in the beginning of the year: "In 2019 we recorded a significant increase in sales, up by 20%, mainly due to fresh products, such as sausages, hamburgers and ground beef. Until February 2020 we experienced the usual post-Christmas slowdown. The Covid-19 emergency has affected, most of all, the segment of cooked hams and salami, while fresh products have performed better," he added. "Overall, we registered a 20-25 % drop over the past year."



SM 1035 - P

Natural antimicrobial for cooked products. Declaration of natural aroma based on vinegar (with no aftertaste in the finished product) and spice extracts (clove, marjoram and black pepper). Resistant to heat treatment, it acts on the entire microbial flora, including lactobacillus. Suggested dose 0.5%, to be added to the mold two hours before compression.

Sacco

www.saccosystem.com

Alessandro Pozzo, sales technical manager B.U. Meat and other food

For its customers in the meat industry Sacco offers, since 1934, starter cultures and protective cultures for the processing of fresh meat preparations, salami and cured meats. "Food safety and clean label solutions to enhance product quality are a must for the sector," explained Alessandro Pozzo, sales technical manager B.U. meat and other food for Sacco. "In 2019, our company division dedicated to meat coltures confirmed the positive trend experienced on the previous year, since the sharp increase in the price of pork meat has led to a change in strategy from most of our customers." The trend in the first part of the year was also positive, with the Covid-19 emergency that, as explained by the sales technical manager, led to a significant increase in sales.



Lyocarni BOX-74

Protective culture for meat cooked products.

Strong points

Apply the culture onto the cooked product after cooking and cooling. The culture grows at low temperature producing bacteriocin that inhibit *Listeria monocytogenes* and compete versus other unwanted bacteria. The product is a clean label solution for safety addition in products and reduction of food waste without changes in taste.

Saini

www.sainisrl.it

Franco Saini, sole administrator

For over 50 years Saini has been providing customers with a wide range of ingredients and technological solutions for food and meat manufacturers. "From pure ingredients to blends customized according to the customer needs, Saini has always been a point of reference for companies looking for high quality solutions," said Franco Saini, sole administrator. In this difficult market environment, due to the Covid-19 emergency, the company has continued to assist its customers, even in the most affected areas. "This was not the case for other companies, including big global players, which have had problems in both the production and delivery of their products", Saini added. "Because of this lack of supply, Saini has been a strategic partner for both old and new customers: we managed to maintain continuity in the supply chain, preventing any stop in production and, in some cases, also applying technical and quality improvements."

Fibramix range

A line of products specifically designed for the meat sector. As an excellent aid in various production processes, it bringing considerable advantages both in the quality of the final product and in the economy of the production process itself.

Strong points

- free water control with good absorption of the same
- texturing property
- homogeneity of the finished product
- no additives



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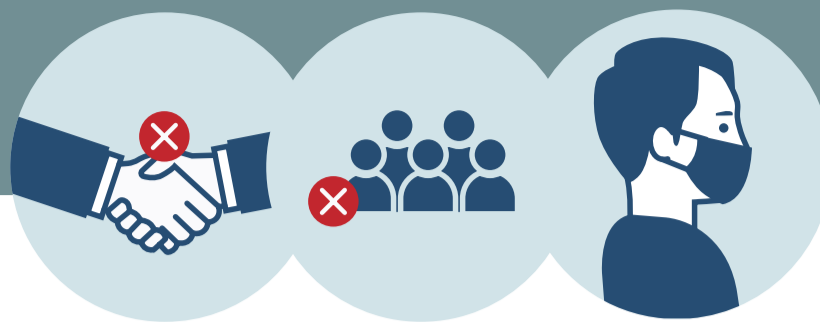
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info@frigomeccanica.it • www.frigomeccanica.it

f Frigomeccanica S.p.A. in Frigomeccanica S.p.A.



Let's restart (safely)

Sanitunnels, thermo scanning systems, scheduled entries and digital systems for the counting of people at booths. Antonio Cellie (ceo of Fiere di Parma) and Corrado Peraboni (ceo of IEG) present their new Coronavirus-proof tradeshow models.

Ripartire in sicurezza

Sanitunnel, termoscanner, ingressi controllati e sistemi digitalizzati per il conteggio delle persone negli stand.

Antonio Cellie (ad di Fiere di Parma) e Corrado Peraboni (ceo di IEG) presentano gli spazi fieristici ai tempi del Coronavirus.

by Margherita Luisetto

During this crisis it was clearer than ever that 'creativity' and 'solutions' are the keywords to come out from such a difficult situation. Because it is necessary to believe in the impossible to make the world 'work' again. Tradeshows are now between the trickiest issues. As a fundamental element for economy, they represent a key moment to connect the different players of the sector. And, for Italian companies, they serve as a strategic opportunity to present their products across the world.

But how is it possible to match these events, which host thousands of people, with the fear of Covid-19 contagion and the measures imposed by the Government? For many, it is an impossible challenge. For few, the most far-sighted, it is a 'provocation' that needs to be responded and solved. This is the case of two discerning teams, lead respectively by Antonio Cellie, ceo of Fiere di Parma, and Corrado Peraboni, ceo of IEG (Italian Exhibition Group), the organization that manages the exhibitions of Rimini and Vicenza. Both abandoned the idea of creating digital shows and they are ready to bring back the 'traditional' exhibitions, but in total safety, already in September.

The program of Fiere di Parma

Parma will work as a test match, with Cibus Forum (2 and 3 September). After the postponement of Cibus – the traditional appointment dedicated to made in Italy food – to May 2021, Fiere di Parma organized a smart version: a two-days exhibition where the operators of the sector and Italian and international



Antonio Cellie

experts can discuss about the future. It will be both a physical and digital event (they will be livestreaming it) which will take place in the Fiere di Parma exhibition centre, in a hall specifically structured to host a scheduled number of visitors and key speakers, in accordance with the most advanced safety standards. But if this can be seen as a prep test, the real bet is represented by the following appointment in Parma's exhibition centre: Salone del Camper (the Camper's Tradeshow), which will take place from 12 to 20 September and will host thousands of people, by managing every moment and aspect of the event in total safety. But how? With a grant of one million euros, Fiere di Parma developed a 'Covid compliant' system to host exhibitors, visitors and speakers. Among the management protocols, they will sanitize people at the entrance with a tunnel supplied with a nebulized cleansing solution and called 'Sanitunnel', but also with temperature measurement, online numbered



Corrado Peraboni

pre-sales and regulation of the entries.

With sure data it will be possible to control precisely people's movements. For example, thanks to an infrared technology they will be able to count the number of people in a certain hall and block the entrance when they reach the maximum number.

The #safebusiness project by IEG

Corrado Peraboni, ceo of IEG, immediately answered the call of the companies who have been asking for the help of exhibitions and congresses in order to boost their business. In accordance with sanitary measures and the documents drawn up by Aefi (the association of the Italian exhibition industry), Federcongressi, Ufi (the global association of the exhibition industry) ed Emeca (European major exhibition centres association), IEG outlined a project divided per sector and providing with more than 50 guidelines.

Here are some. 'Prior to the trade show': convention with

bike sharing companies, online ticket sale and scheduled entries. 'At the entries': face masks distribution, thermo scanning system, sanitization route, open and no-handles access doors, dematerialized entry tickets. 'In the expo centre': calculation of its capacity in relation to distancing regulations, hand sanitizer dispensers throughout the area, extended opening hours prolonged on the days when more public is expected, flow management with centralized digital tracking, contactless payments systems, evolved fittings with safe, Covid-free materials. 'Catering': payments through skip-the-line apps, digital menus, disposable materials. 'Services': sanitized shuttle connection equipped with hand sanitizer, wardrobe with automatic rack and disposable coverings, bathroom facilities with constant sanitization, conference rooms with seating layout to guarantee social distancing and exclusively digitalized informative material. 'Accessibility': transparent face masks for speaking with the hearing-impaired, supply of assistance equipment (wheelchairs, etc.) sanitized before and after each usage. 'Special actions': constant sanitization throughout the centre; filters, air-conditioning and heating channel sanitization and frequent air exchange; medical room and isolation zone for possible suspected cases; crisis management protocol. IEG employees and trade show staff will be trained to guarantee in order to carry out their duties in safety. In addition, about employees, Lorenzo Cagnoni, IEG president announced that the company has also decided to adopt a voluntary mass serological screening.

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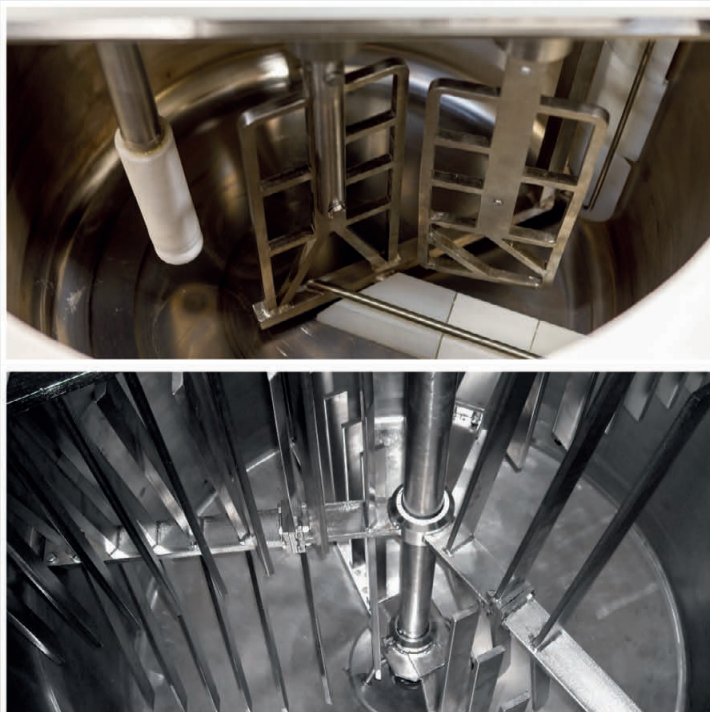


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System allows the reduction even by 20°C of the flour temperature

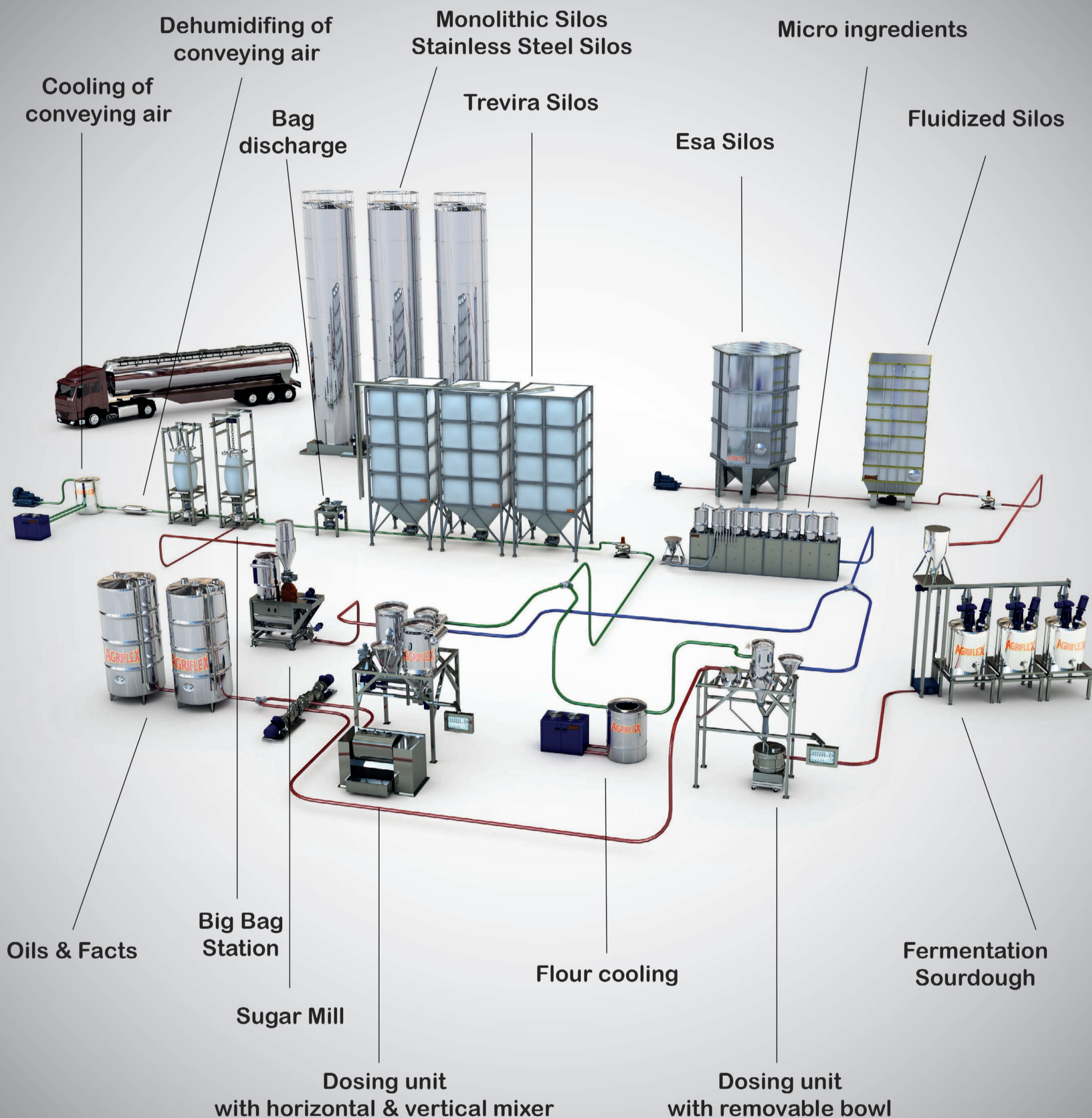
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