

MACHINERY

UPDATE

Issue 5, Volume XXXII, September/October 2021

The machinery only journal for processing & packaging | www.machineryupdate.co.uk

Unique opportunity

Hooray! The PPMA Show is back this September, allowing visitors the first chance in ages to see new machinery in action – our major preview is inside...



PPMA
SHOW 2021

28 - 30 SEPT 2021

INSIDE

NEWS

The PPMA Show is taking place from 28–30 September at the NEC in Birmingham, and in this issue, you will find a 76 page preview that highlights the latest options

NEW MACHINERY

Ishida Europe has extended its range of tray sealers with a new model that meets market demands for a compact unit that maximises output, the capacity and also flexibility. Find out more on page 24

INSTALLATIONS

A healthy food brand has used a test kitchen to trial various tray formats



PLUS

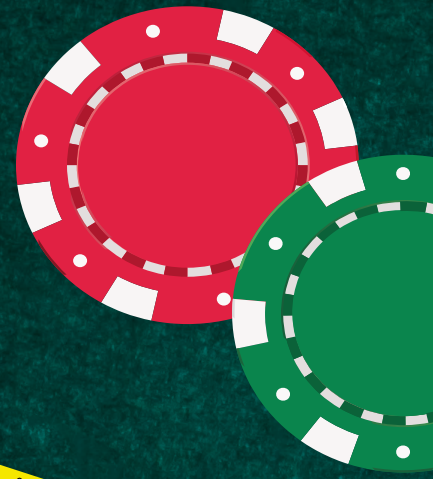
PPMA Show visitors must pre-register for this first live event of the year; go to the website to get free access www.ppmashow.co.uk

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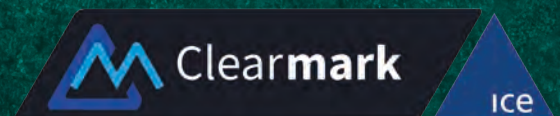
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September/October 2021

Contents

7 NEWS

12 NEW MACHINERY

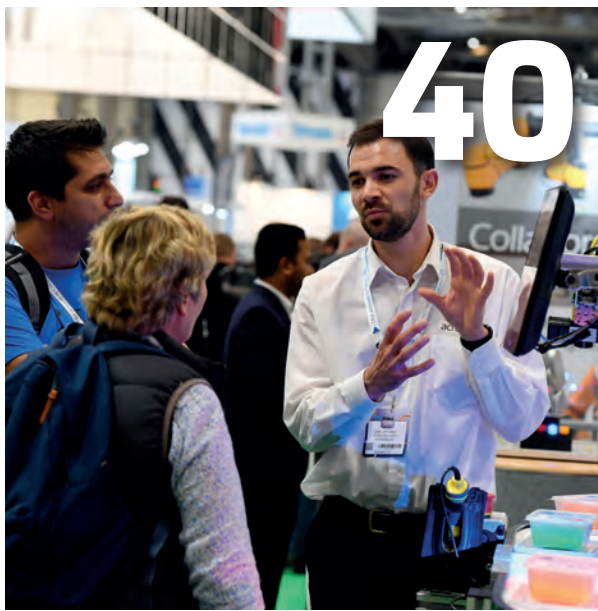
30 INSTALLATIONS

40 SPECIAL FEATURE
PPMA SHOW PREVIEW

This 76 page preview details many of the new machinery launches that will be seen at this year's PPMA Show at the NEC, Birmingham this autumn

116 SPECIAL FEATURE
CONFECTIONERY

This feature reports on the very latest developments seen in the confectionery sector to meet the innovation needs of these dynamic food businesses



REGULAR FEATURES

29 COVID-19

Ulma has created new bespoke solutions to meet the needs of any shape or size of face mask

126 LABELLING, CODING & MARKING

TrakCoder is a sustainable, low carbon alternative to ITF labels which, says TrakRap, will save users millions of pounds a year

10 REGULATIONS

Robots need to be assessed and validated against a range of different standards and we highlight them all in this issue

128 WHO WHAT WHERE

People, events and diary dates

129 MACHINERY FINDER

Machinery and also services

MACHINERY UPDATE

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Come and visit us at PPMA Show 2021

Stand H50, NEC Birmingham, September 28-30

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PPMA matters

Our show will deliver timely sector gains



David Barber

CHAIRMAN, PPMA GROUP OF ASSOCIATIONS
(INCORPORATING PPMA, BARA AND UKIVA)

There's no doubt that it's easier to understand how a new machine might work with your own products if you are standing in front of it, watching it do its stuff! It must also be true that listening to an expert on said machine, pointing to and explaining all the features and benefits, makes any potential purchasing decision much easier. Which is why we believe that our PPMA Show at the end of this month, will be a must-visit event for every manufacturer who needs to invest in making their businesses more productive (i.e. all of us!).

And what more cost-effective way of seeing all the latest developments in processing and packaging machinery, robotics and vision systems, as well as complementary ancillary equipment, can there be? COVID-19 may have curtailed us in many areas of our lives, but it has never stopped innovation and new product development in our sector. And many of these will be demonstrated at the exhibition (28 - 30 September).

“There's no substitute to seeing technology in action when investing in your future

I know we've all got used to staying at home and have enjoyed avoiding commuting and business travel, but I would argue that a day spent at the NEC, Birmingham could be the most productive day you will spend this year. It's a bold statement, I know, but a cursory glance at our 76 page PPMA Show Preview (which starts on page 40) will definitely whet your appetite.

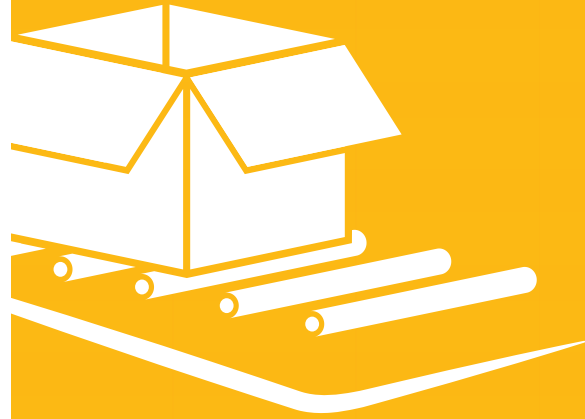
Surely its time to dust off the cobwebs and reconnect with your industry networks? None of us want to be stuck on Zoom or in Teams meetings forever, do we?

And what better time is there to buy new equipment, what with the supertax-deduction announced in the Budget to help all of us hard-working manufacturers? With this encouragement for all manufacturing sectors, which allows businesses to offset the cost of new equipment against tax, plus an additional 30%, everyone can go to the NEC fully incentivised to invest in technology that will improve productivity. I feel sure that all of our exhibitors will be more than willing to talk to you about the best investments to meet your needs.

Everyone at the PPMA is proud to be involved in the first live show in our sector for far too many months and our members are embracing the opportunity to demonstrate new things to the market in a safe environment.

Can you really afford to miss out on what I believe will be a golden opportunity to take your businesses forward...? ■

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News



The event will be at the Royston site

Open House event takes place at new manufacturing site

Mettler-Toledo Product Inspection will showcase its new product inspection technologies, offer opportunities for face-to-face and virtual consultations, and deliver educational seminar content at its Open House that takes place from 6 – 7 October. Indeed, the event will officially open its new Global Centre of Excellence for x-ray in Royston, Hertfordshire. This new manufacturing facility is set across a 1.4 hectare site and expands the company's UK manufacturing footprint by more than 80%, which will allow for continued expansion.

For more information, visit: www.mt.com/pi-open-house-2021

First UK live event is ready to do business across industry sector

The PPMA Show this September (28 – 30) will be the first live event across processing, packaging, robotics and vision systems since the global pandemic wreaked havoc on the exhibition calendar last year as well as early into this.

The three-day show at the NEC, Birmingham will bring together over 250 exhibiting companies, offering businesses a long-overdue opportunity to see emerging technologies. Renowned across the industry as a platform for launching new products, the 2021 show will be no exception as can be seen in our 76 page Show Preview that begins on page 40.

Meanwhile, new features for the event include a series of 'Talking Heads' presentations from a range of experts across industry sectors.

Of course, there will be differences in the way the



Visitors can see equipment in action

event is run this time, and readers should note that pre-registration is compulsory for all visitors this time around. Participants can, however, rely on all the necessary health and safety precautions relating to COVID-19 being in place.

To register for your FREE visitor badge, visit the PPMA Show website at: www.ppmashow.co.uk



The 2019 event was well-attended

Discovery Forum is offering range of full demonstrations

Multivac UK's next in-house event will see it host its Packaging and Processing Discovery Forum from 19 – 21 October at its 850sq m showroom facility in Swindon. Held across three days, visitors can discover a range of solutions for better packaging and processing, including machinery, application and full-line demonstrations, new product launches, and keynote speakers before joining in with the company's very own Oktoberfest.

Since the company's last event in 2019, the industry has experienced huge waves of change, so the company will showcase the latest developments that maximise output and profit.

Register to attend at: www.multivac.co.uk



UP TO 900 PUTAWAYS AND REMOVALS EACH HOUR

Fast delivery and assembly

The first putaway at Nord Drivesystems' new automated small parts warehouse was performed by Carolin von Rönne, a member of the company's founding family's third generation who joined the company last autumn. With more than 70,000 storage spaces extending over 44 levels at the 6,600sq m site, customers will now benefit from shorter delivery and product assembly times.

Time to register for the PPMA App to access top suppliers

The new PPMA App contains details of every one of the 500+ members of the trade association and their complete product ranges covering processing, packaging, robotics and vision systems. To access this unique, valuable information source, a once-only registration must be completed and then you can access the App via this QR code.



Event is a first for Wakefield firm

A full factory tour and key suppliers

Sewtec Automation is hosting its first Open Day for new and existing customers at its 75,000sq ft Wakefield site on Thursday 7 October. The day will include a full factory tour and conclude with introductions to key suppliers. To reserve a place, visit:

www.sewtec.co.uk/events

Machine vision trends/technologies webinar discussed latest advances



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In July, experts from the UK Industrial Vision Association (UKIVA) discussed Machine Vision Trends and Technologies during a roundtable webinar.

The panel talked through a range of topics including deep learning, embedded vision, illumination and lighting, the future role of integrators and also standardisation across a range of technologies that, participants felt, was making a big difference to the industry.

STANDARDISATION

“Advances in calibration and standardisation of 3D has been a major benefit that is now offered,” said Neil Sandhu of Sick (UK).

Meanwhile Carston Traupe of IDS felt some customers were still shying away from deep learning as they think it is too complicated, but this was not the case, as it does also open up new applications. Meanwhile, Mark Williamson of Stemmer Imaging UK said that in illumination and lighting, there was also now a bigger emphasis on ease of use.

The full video of the UKIVA Roundtable Webinar can be found at:

www.ppma.co.uk/UKIVA





Event was at the Museum of Making

Pallet mover event was delivered in a smarter way...

In July, Interroll demonstrated its self-contained handling system for optimising the organisation and flow of pallets at an event held at the brand new Museum of Making in Derby.

Participants gathered to hear about the benefits of the Smart Pallet Mover that is designed to maximise the efficiency of production processes by delivering raw materials and taking away finished goods without delay. It is billed as increasing productivity for companies by up to 30%.

Find out more about this award-winning technology on Interroll's stand (C76) at the PPMA Show this month.

www.interroll.co.uk

Industry stalwart retires after a rewarding career

Former general manager of Riggs Autopack Nigel Matthews has retired from the business after many decades of dedicated service to the company.

He stepped down a year ago to look after the aftersales side of the business, so his replacement Andrew Bishop had the best transition into the lead role at the Lancashire manufacturer of depositors, transfer pumps and conveyor filling lines.

He has always believed that the customer service side of the company is the most important and so has enjoyed his time in this final role in the business.

"Customer service is key," he told *Machinery Update*. "You should always treat people well.

"I have always appreciated



Nigel Matthews is recently retired from Riggs Autopack

and valued companies that provide high quality equipment with a first-class back up service when solutions are needed," he continues. "Of course, this can only be achieved with good people around you, and I can say I have been truly

blessed with a great team at Riggs Autopack."

Matthews joined Autopack back in 1978 as an apprentice, before working his way up the ladder to become its works manager.

In the early 1990s, Autopack was purchased by Riggs Bros which subsequently became Riggs Autopack, and he has spent the last 30 years as its general manager.

However, he says he has taken the company as far as he can and feels this is the right time to enjoy a better work/life

balance. "It is the people I will miss the most, both valued work colleagues and valued customers," he says.

As for the future, Matthews plans to take a couple of months off before picking up on some contracting work going forward into the autumn.

Automation – Buy with Confidence webinar warned against “over-thinking the process”

The third BARA webinar was called Automation – Buy with Confidence and gathered an industry panel that agreed that anyone looking to install robots in their factories should look at it as a journey, not a one-off project. Indeed, the panel said that this is often a multi-vendor journey in which choosing the appropriate partners, can often be the most crucial element.

Many felt that it was this very journey into automation

that could bring the most benefit. For instance, the experts warned the online participants against “over-thinking the entire process”.

IMPORTANT TRAINING

Another thing that everyone agreed with was the importance of training. “You have to lavish time on training as if you don’t get the skills in-house, the whole thing can fall over,” said Adam Vicary, chief exec of Castings plc.

Meanwhile, the panel acknowledged that although everyone thinks automation is a good idea, it can often be difficult to make a business case as it is not always a quick ROI. Phil Rawnsford of MRT Castings felt that an independent voice at the beginning often played a key role. His company used the MTC for this independent and holistic view.

The full video of the BARA Roundtable can be found at: www.ppma.co.uk/bara



Latest technology will be on show

Open House event for this November

FANUC UK is hosting an automation event from 1 – 5 November at its UK HQ in Antsy Park, Coventry with a range of demonstrations and a full speaker programme.

T 02476 053000

W www.fanuc.eu

Regulations

Making robots reliable and safe

Stewart Robinson

PRINCIPAL ENGINEER AND FUNCTIONAL SAFETY EXPERT



Robots need to be assessed and validated against a range of different standards which we cover here

To ensure reliable performance and safety, manufacturers, suppliers, integrators and operators must assess and validate robot compliance against a range of different standards, as well as considering application-specific requirements. For example, combinations of automatic guided vehicles (AGVs) with collaborative robots (cobots) necessitate particularly stringent safety requirements.

Robots & controller safety
A barrier-free environment where the safety of the employee is always guaranteed is a basic requirement for a collaborative application and technical specification ISO/TS 15066 – “Robots and robotics – Collaborative robots” should be followed. Risk assessment according to EN ISO 12100 can also be used to define the safety requirements for collaborative industrial robot applications and their working environment.

An essential component of a cobot application is the robot end effector. Obviously, it is not possible to process and handle any items without it, but it does represent a possible risk. The force required for gripping and the specific handling of the work piece are crucial safety factors. ISO TR 20218-1 outlines the interface and safety requirements for grippers.

Industrial robots
Successful certification of industrial robots, robotic systems, and control systems

demands compliance to all applicable technical guidelines and standards, and testing should cover the following aspects:

- Heavy loads and high speeds
- Unexpected start-up or behaviour
- Collision with work pieces or the surroundings
- Ejecting work piece items
- Presence of humans in the critical area.

- Industrial security and aligned communication protocols
- Short reaction times
- High intelligence of the service robot systems
- Easy and intuitive operations (such as speech and gesture control).

Mobile robots
Mobile robots help to automate and optimise

requirements that must be taken into consideration include U.S. standard ANSI/RIA R15.08 – “Safety Standard for Autonomous Mobile Robots”, and international standards ISO 10218 parts 1 and 2 – “Robots and robotic devices - Safety requirements for industrial robots”. ANSI/RIA R15.08 divides these vehicles into different categories:

- IMR Type A – a basic type of Autonomous Mobile Robot (AMR) without any attachment
- IMR Type B – an IMR Type A plus an attachment (active or passive, eg conveyors, roller tables, lifting devices, fixed totes, etc, excluding manipulators)
- IMR Type C – an AMR or AGV base with a robotic manipulator.

In the European Economic Area (EEA) IMRs are required to comply with the Machinery Directive, which for the UK market aligns with the Supply of Machinery (Safety) Regulations 2008. This requires a task-based risk assessment, for which the guidance in the international standard ISO 12100 – “Safety of machinery – General principles for design – Risk assessment and risk reduction” can be used, although it does not explicitly mention collaborative applications.

For more information contact www.tuv-sud.co.uk
TÜV SÜD is the PPMA Group’s technical and legislative partner

Risk assessments must cover the intended use of any robot as well as any reasonably foreseeable misuse

Personal assistant & service robots
Service robots and personal assistant robots differ profoundly from industrial robots, as this robot category typically performs high-value, individual and often (semi-) autonomous actions. This means it is usually characterised by great flexibility and a high level of autonomy. To perform their tasks – which often includes replacing or supplementing human activity – personal assistant and service robots must utilise learning and re-programming features to determine and analyse their environment.

Requirements for humans and robots to work together safely include:

- Uniform standards for hardware and software components
- Efficient determination of the environment

logistics processes. As they provide continuous service around the clock and can be flexibly assigned for a variety of applications, their contribution to increased efficiency and productivity is significant.

Automated Guided Vehicles (AGVs) follow fixed routes, usually along wires or magnets embedded in the ground. Autonomous Mobile Robots (AMRs) are more sophisticated and packed with sensors and powerful on-board computers that allow them to navigate dynamically using a map.

They are smart enough to recognise and react to obstacles to safely perform their function in a busy environment. An Industrial Mobile Robot (IMR) is a combination of an AGV and AMR with an ‘Industrial Manipulator’ (robot).
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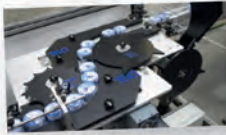
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New Machinery

New in-house designed cobot range deliver automated gains

Schubert has developed its own range of co-operative robots – called ‘tog’ – to automate simple manual processes outside of machine sequences that can be adapted to new tasks very quickly without requiring any programming knowledge. The first cobots are already being tested by customers for the automation of infeed processes, and the company believes the use of image processing with underlying artificial intelligence (AI) makes them extremely flexible and exceptionally easy to program.

Ralf Schubert, managing partner of Gerhard Schubert GmbH, describes the rationale behind this new range: “We developed the tog.519 for pick & place applications with lightweight products, where previous cobots would be out of their depth,” he says. “With one of our cobots, manufacturers will be able to react much more flexibly in the future to changing market situations and requirements.



The new cobot from Schubert has fast capabilities for gripping from disorder

“Our cobot has one of the world’s fastest capabilities for ‘gripping from disorder,’” he continues. When operating as a free-standing robot, the Schubert cobot does not work directly together with humans (collaborative). But it does work in an environment with them. Such cobots are referred to as cooperative or coexistent and call for a very different safety concept.

“To achieve this, we used image processing to actually teach the cobot

how to see,” adds Schubert. “This way, when approached by employees, it gradually reduces its speed until it comes to a standstill.”

It is only through the vision system that the fast cycle rate is possible when reaching into disorder or for the simple adaptation to new tasks.

“The interface-free combination of robotics and vision is a very important feature of our new tog series,” he tells *Machinery Update*.

The prerequisites here are

provided by a neural network with artificial intelligence developed in-house by Schubert, which precisely matches specific industry requirements in terms of safety, speed and programming. To program a specific product, the network is trained using product photos in the Schubert Cloud and then loaded onto the cobot as a format.

To reliably recognise new products, the AI only needs a handful of images and three days. “We are making the learning process so simple that our customers will be able to create new formats and products themselves in the future without having any prior knowledge of image processing or programming,” confirms Schubert. Via the HD camera system integrated into the cobot, the AI then decides how the cobot should proceed.

Key areas of application are in the food sector, as well as in cosmetics and in pharmaceuticals.

T 01676 525825

W www.schubert-uk.co.uk

Intuitive user interface on semi-automatic stretch wrapper is meeting ‘smart’ demand

The new Lantech QL-400 with its intuitive user interface is helping Antalis Packaging to meet the growing demand for smart, user-friendly packaging machinery. This QL-400 is now available from Antalis and builds on the features of the ever-popular Q-300 semi-automatic stretch wrapper with the addition of Lantech’s patented control system which is called Load Guardian.

Load Guardian is designed to create, maintain and

deliver the right containment for safe-to-ship loads, every time. It minimises operator interaction and removes the guess work from stretch wrapping loads of any type of configuration.

The Load Guardian user interface features intelligent set-up to intuitively guide users through the profile creation process using recognised icons and smart-phone-like simplicity to calculate the right containment force. The Wrap

App eliminates the need for operators to make manual adjustments for common load applications, while the Help function provides video and text instructions to help solve common stretch wrapping issues, such as breaking, twisting and crushing.

It comes with a three-year warranty.

The Lantech QL-400 is a new option



T 0370 241 1466

W www.antalispackaging solutions.co.uk

Latest small character laser coder offers a reduced carbon footprint

Macsa ID UK has launched the iCON 3 small character laser coder, a latest generation system designed to be more reliable and efficient than its predecessor with enhancements that offer a reduced carbon footprint combined with an improved coding quality.

Like all previous models, the iCON 3 is ideal for businesses that have always wanted to switch to laser technology but been previously prevented by price.



The iCON 3 is used across sectors

Clean, fast and consumable free, the new option is billed as extremely affordable yet offering high performance. In fact, says the company, in just over a year the laser will have cost less than an inkjet coding system.

The iCON 3 is suitable for a wide range of sectors. It codes cleanly and permanently on food packaging and is capable of marking water, wine, spirits and soft drink beverage containers produced from PET or glass. The unit also meets the high standards of the pharmaceutical industry and will code labels, tubes and boxes.

T 01462 816091

W www.macsa.com

Advertorial

Learning from your machines: what if some machine parts never fail?

Data-driven decision making, such as machine learning based on AI, neural networks and self learning machines, is inevitable for companies that want to keep up with the competition.

However, machine learning is tricky and not supported by all automation platforms without significant investments, isn't it? Besides, some machines and equipment are not really able to take advantage of such approaches anyway. But what about learning from your machines to create new revenue streams?

Learning from your machines vs machine learning:

Self optimising algorithms based on AI and neural networks are simply not yet suitable for every machine builder. For most, the focus is on creating a smooth and fast running machine with a high OEE.

However, every machine builder can learn from his or her machines in the field, eventually being able to prevent parts from breaking down or discover other interesting insights. Most machine builders have very effective quality assurance systems and based on root cause analysis the failures and weak points on the equipment are found and corrected.



What learning from existing machines can bring you:

Machine builders have systems in place to improve the quality of their machines through their lifetime based on failures and corrective measures. But, what if you collect and analyse your machine's data, benchmark between multiple machines and discover that some parts never fail or are running well below expected design criterias?

With this insight you can downgrade the machine parts that are 'too' good and adjust design criteria or safety margins in your redesign. This can lead to major savings without running any risk of quality loss. What would happen if you don't adapt and your competitor does? Definitely a business model that's worth considering for every machine builder.



Read the full article and learn how to build your own 'machine learning' strategy.

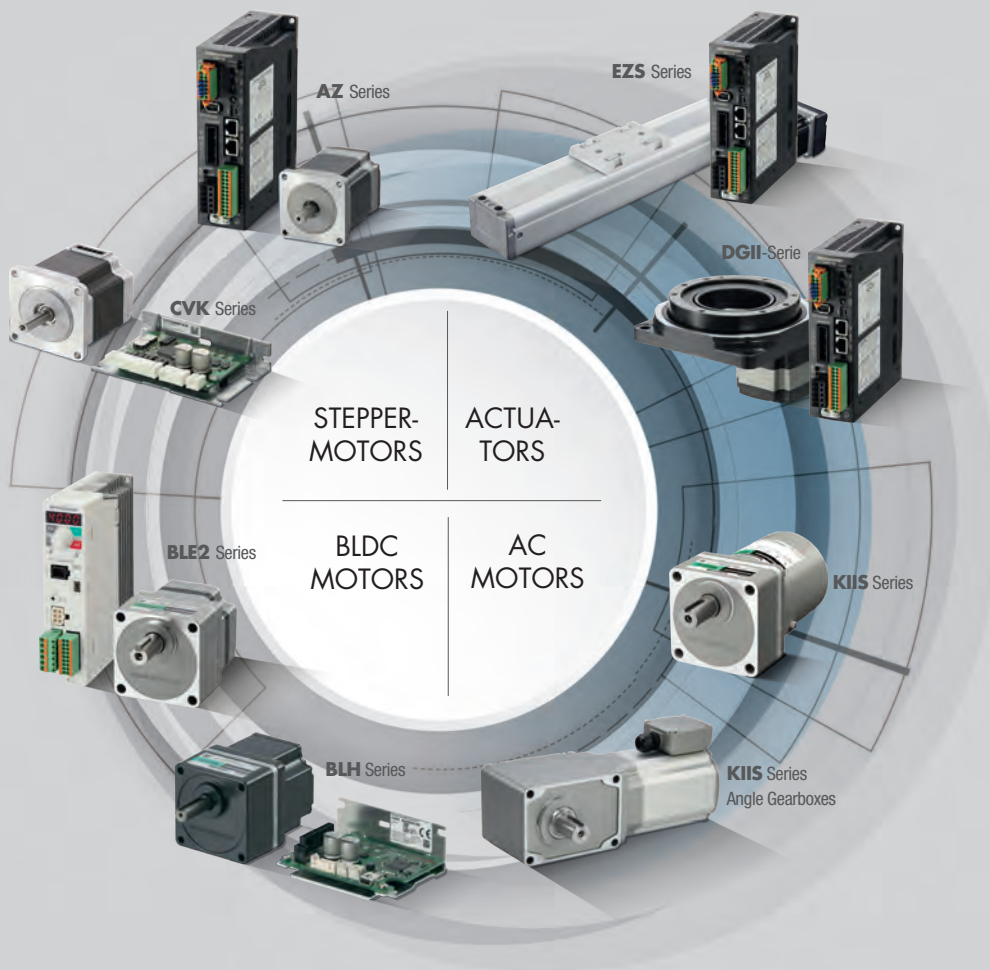


New Machinery

Filling liquids using recyclable pouches is an efficient process

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Oriental motor

Rovema has successfully tested a recyclable multilayer composite material with EVOH barrier on its BVC 310 Liquid machine which is suitable for sachets often used to pack ketchups or products preserved in oil or vinegar for the foodservice sector.

The packaging material is made of 75 micron mono-PE which achieves an output of 60 pouches per minute.

PORTION DISPENSING

The vertically continuous form, fill and seal (VFFS) machine BVC 310 Liquid is also available with a fitment option for use in portion dispensers. This hygienic product removal is essential for many system caterers. Even chunky products in brine can be packed in flat pouches in this low-air process.

This application is also particularly useful as a replacement for rigid packaging such as buckets or cans, says Rovema. The clear advantage of the flexible solution is lower packaging material volume and weight. This is an important factor in view of the many sustainability goals of international brands.

FUTURE-PROOFING

Rovema believes that by using flexible, low-air flow wrapping, customers can optimise their packaging processes and supply chain in a future-proof way – without compromising product shelf life and quality. This is because vertical FFS machines can be quickly and flexibly adapted to changing bag lengths, fill quantities and product changes, and all in a small footprint.

T 01296 310490

W www.rovema.com

Case packer reduces repacking need while handling customised demands

Changing consumer preferences, ongoing sustainability requirements, the growing need for customisation of added-value packs and new shipping units are forcing manufacturers to adapt their production models and supply chains. To meet the need for extreme case counts while still dealing with the standard high-production formats, Sidel is launching Cermex EvoPack which has been designed as a flexible Industry 4.0 case-packing platform for shaped containers in wraparound blanks, trays and also shelf-ready packaging (SRP).

“Today, some food, home and personal care products have customisation needs for up to 40% of the production volumes and until now, the most common way for producers to approach these requests was to use manual repacking services,” explains Didier Saussereau, packing product manager at Sidel.

“To reduce and simplify repacking, we are seeing an



The new machine handles a large secondary packaging size range at speed

increasing need for small case counts to help producers reduce the number of products per shipping unit down to the in-demand batches of two, three, or four products,” says Saussereau. “These offer the opportunity to manage, store and ship products more easily and flexibly for downstream tasks at distribution centres or within eCommerce order preparations.”

In parallel, he says, demand

for complex product set-ups will remain and will still require manual repacking manipulations.

“Being able to produce both small and large case counts will help manufacturers to better anticipate trends and accommodate new channels, as long as the traditional high production volumes of the standard formats are still handled on the same production line and

packing solution,” explains Saussereau.

The Cermex EvoPack offers a vast secondary packaging size range to manage reduced case counts, containing only two, three or four products, as well as very large transit cases with 24+ containers intended to go into repacking, while also being able to handle standard high-volume case formats. “With its flexible and extreme case count capabilities, the platform can help producers restore industrial margin thanks to significant cost savings as regards the use of material, equipment and energy,” he tells *Machinery Update*.

Delivering a ratio of up to 60 cases per minute in a compact footprint of less than 30sq metres, Cermex EvoPack offers fast and repeatable format changeovers ranging from just five minutes for a case format change, up to 15 minutes when changing both bottle and case formats.

T 01707 292820

W www.sidel.com

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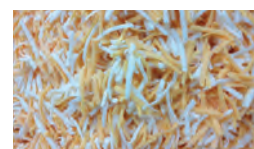
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New Machinery



Simulation software makes planning robotic cells easier

KUKA has launched a new version of its smart simulation software: KUKA.Sim 4.0. For users, this means greater functionality and a lower time requirement because details and sequences of robot applications can be realistically simulated even before start-up and then transferred 100% to the real controller.

The KUKA.Sim simulation software brings robot applications to life – even before the real system is put into operation. With the new version, KUKA says users now reach a new level of planning reliability, simplicity and cost efficiency. Besides importing CAD data, the new version enables easy offline programming of the robot and fast cycle time analysis.

In addition, safety spaces can be configured graphically in 3D and the stopping behaviour of the robots can be simulated.

T 0121 505 9970

W www.kuka.com

Vertical crossbelt sorter is a fast and easy to use unit

Interroll says its new MX 018V vertical crossbelt sorter makes it easier for system integrators and their end user customers to enter the world of automatic crossbelt sortation solutions.

Above all, eCommerce companies and logistics service providers gain the ability to handle a wide variety of goods in a space-saving, gentle and energy-efficient manner via a single technical infrastructure with a high number of end points.

For the new MX 018V vertical crossbelt sorter, which replaces the previous ST 6130 option, the conveying speed of unit loads has been increased to up to 1.8 metres per second compared to the previous 1.6 m/s. In addition, the maximum extension length has been increased from 80 m to 180 m.

With the new sorter, high throughput rates of up to 14,000 unit loads per hour can be achieved and goods weighing up to 35 kg can be transported. In the process,



The vertical unit is based on the platform already used in the horizontal option

the sorter handles a wide variety of different sorted goods - from cartons, parcels, maxi letters, and mailing bags to polybags and more. The use of energy-efficient geared motors enables lower energy requirements compared to conventional sorter drives.

If desired, the new MX 018V sorter can be commissioned both quickly and safely, using

a modular and autonomous machine control system from Interroll as a plug-and-play solution, and connected to the respective on-site goods management system by the system integrators.

The linchpin of the new solution is the benefit it offers customers, says the company.

T 01536 312770

W www.interroll.com

Using a decentralised IO system is bringing many benefits to customers using bespoke automated manufacturing cells

When Mills CNC switched to Murrelektronik's decentralised IO system Cube 67+ in its SYNERGi automated manufacturing cells, it offered many benefits to users. In essence, it reduced the control panel size, the wiring became more efficient and the commissioning process was streamlined when locating any issues because the input or output is now localised to the IO.

Indeed, as the majority



New Cube 67+ is simple to set up and to configure

of the Mills CNC customer base require many bespoke additional features and options, Cube 67+ is flexible enough to meet all requirements. Easily expandable as required, Cube 67+ is an excellent addition to the Mills CNC SYNERGi system as it allows for

true flexibility across the entire system. For example, expanders for additional IO, beacon stacks or IO-Link devices can be included to ensure that cross system communication is not lost.

A whole host of additional expanders can be easily integrated at a later stage, so should the end customer's requirements change, then the system can be added to with modular add-ons.

T 01926 736736

W www.millscnc.co.uk

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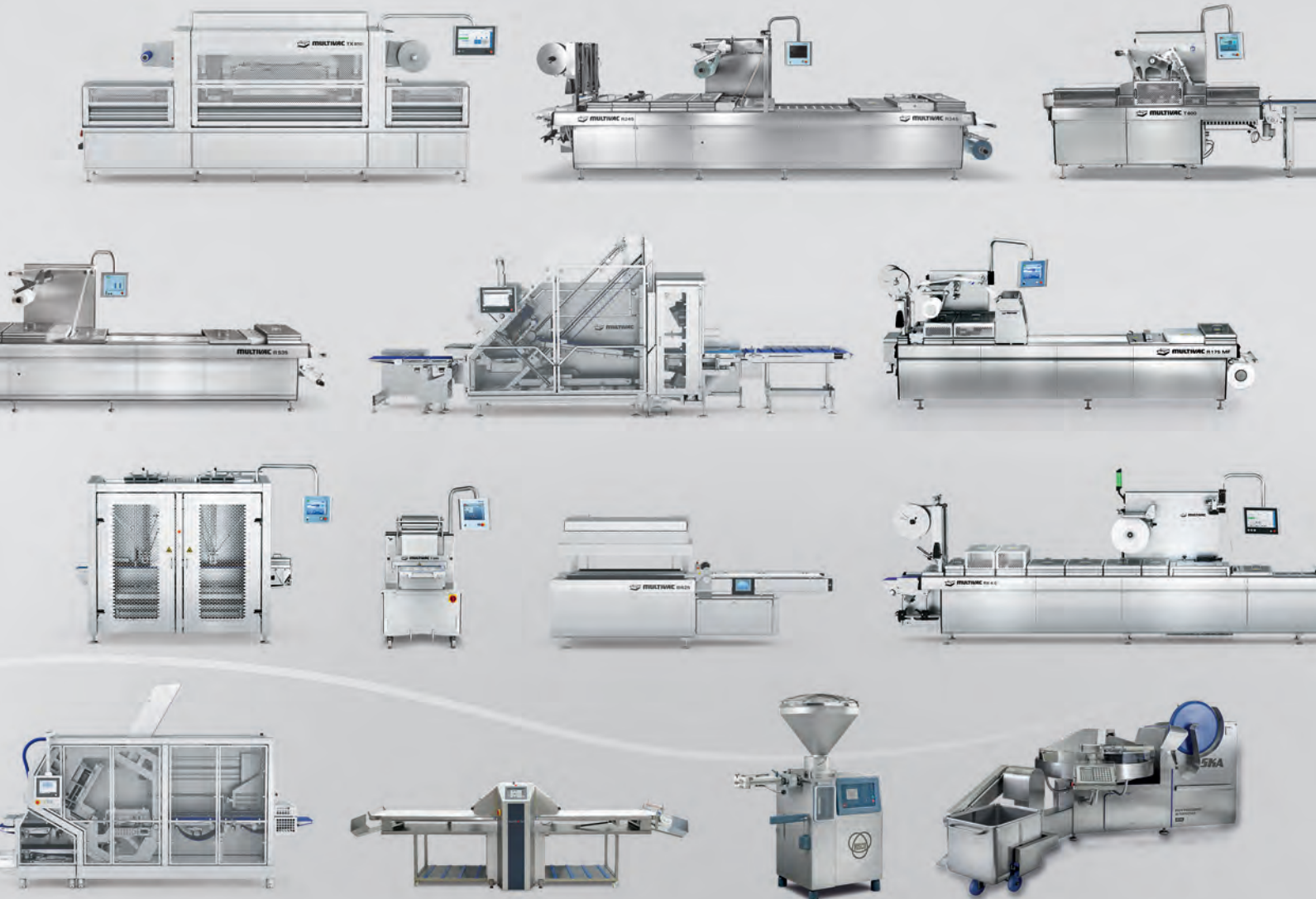
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New Machinery

Case packer expands food solution options

Proseal has extended its product portfolio with the launch of a high-speed, fully automatic case packing system.

The new patent-pending Proseal CP3 is designed to provide the ideal complement to Proseal's range of tray sealing machines to offer customers a complete primary and transit packing solution. The case packer combines efficient power consumption and a compact footprint with the ability to fill cases at up to 120 packs per minute.

Key to the new CP3's performance is the company's proven ProMotion tray infeed system. This maximises throughput by using following motion and intelligent buffering technology to effectively control the flow of trays, enabling them to feed continuously in the case packer without stopping.

The CP3 can handle a wide variety of pack formats, including trays, pots and sandwich packs, in materials such as A-PET, C-PET and



The length of the buffering conveyors can be increased to suit client demand

board. Auto-tool technology enables fast and easy format changes, while Quick Release conveyors allow swift removal and replacement to speed up and simplify cleaning and maintenance.

Options include additional crate fill and increased length of buffering conveyor for higher speeds. Crate delivery and discharge conveyors can be bespoke designed to individual factory layouts and the CP3 can be fully integrated with complementary equipment such as case

erectors, existing crate delivery systems, labellers and coders.

"All the qualities that have made our tray sealing machines so successful have been maintained within our new Proseal CP3," explains Nick Severn, control systems engineer at Proseal. "For food manufacturers it provides the perfect complement to help ensure fast and efficient onward delivery to meet the strict deadlines of the retail sector."

T 01625 856600
W www.proseal.com

A new kit makes adopting robotic palletising, simple

RARUK Automation says its new Robotiq palletising kit provides users with the means to install, set-up and configure a robotic palletising solution to boost production efficiency, with hardware and software supplied ready-connected for a plug and play solution.

USAGE IS UNIVERSAL

Designed for use with Universal Robots, it provides manufacturers – irrespective of their size – with all the elements necessary to easily upgrade from manual to fully automated handling. The solution has a small footprint eliminating the need to re-organise the floor layout around a central robot and is capable of palletising up to 13 x 8 kg boxes per minute; exact capacity is determined by box weight, dimensions, surface, pallet dimensions and layout.

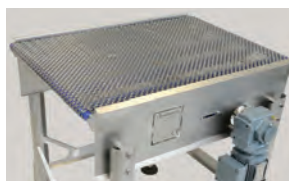
The kit comprises a robot base; vertical seventh axis, Robotiq gripper, bracket and suction cups; status lights, pallet and box sensors; cable management system and Robotiq Material Handling Copilot software.

T 01462 670044
W www.rarukautomation.com



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Latest pump offers a no-waste option for critical aseptic fills

Watson-Marlow Fluid Technology Group has launched the new Flexicon PF7+ intuitive peristaltic filling pump to provide a no-waste solution and 21 CFR compliance for critical aseptic final fill applications. The PF7+ ensures high value products such as vaccines, and cell and gene therapies are protected from contamination and damage as well as viability.

The PF7+ extends the established capabilities of the PF7 option and is billed as the ideal pump for every stage of biopharmaceutical therapy development, from research and development to clinical trials and to small batch production.



The PF7+ pump offers user savings

The new final fill pump offers zero waste start-up and 100% in-process weight checking when connected to a third-party balance, meaning more liquid can be used for viable product and less valuable product is wasted. In order to ensure accuracy in fill volumes, the PF7+ is set up with dynamic recalibration to automatically adjust if a series of consecutive fills deviates too far from the fill target.

The PF7+ can also check the weight of individual fills.

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New Machinery



Defect-free cases are delivered

Inspection is on the case in operation

Valco Melton says using its ClearVision inspection technology on flexo folder gluers, rotary die cutters and speciality folder gluers ensures faultless cases and no machine downtime for customers.

Controlled from a single screen, ClearVision software can inspect up to six features on every box such as glue patterns, code readability, printing, print-to-print and print-to-board registrations as well as the correct position of scorelines.

The GlueChek camera verifies glue presence, and its correct placement and volume to validate that every pattern has been properly applied. By measuring distances between printing and borders, RegChek detects variations in the print-to-print and print-to-board registrations. The CodeChek camera verifies the readability of any barcode or 2D code printed anywhere on a pack. ScoreChek verifies the correct scorelines position to determine that the blanks have been fed correctly, and finally colour, unwanted spots, marks, missing print, board damage, or smearing can be inspected with PrintChek.

ClearVision is Valco Melton's (supplier of gluing systems for the corrugated, folding carton, packaging, paper converting and other industries) quality inspection technology division.

T 01952 677911

W www.valcomelton.com

Combination unit offers smart-design washdown

Mettler-Toledo Product Inspection has launched a new series of smart-design washdown resistant combination product inspection systems, integrating checkweighing and metal detection technologies. The CM33 washdown and CM35 washdown combination systems are aimed at food manufacturers, including dairy and meat products, who require a quick-cleaning, advanced contaminant detection and precision weighing solution.

The CM33 washdown is based on the C33 PlusLine washdown checkweigher, announced last year, but with an integrated metal detector from Mettler-Toledo's Profile range of systems. It is capable of mid-range frequency operation and throughput of up to 250 weighings per minute, with weighing accuracy of up to +/- 0.2 g.

With the CM35 washdown, manufacturers get a system that is capable of a high



Mettler-Toledo's new series offers user gains

frequency range and high sensitivity, says the company.

To complete their combination CM33 washdown or CM35 washdown, customers can choose one of three stainless steel Mettler-Toledo Profile metal detectors. These are the Profile Combi LS (for small, packed product applications), Profile Advantage (maximum sensitivity to take on challenging applications) and Profile R/RZ (advanced inspection of bulk, dry

product applications).

As with the C33 PlusLine washdown checkweigher and C35 AdvancedLine washdown checkweigher, the combination CM33 washdown and CM35 washdown reduce downtime when cleaning due to their smart hygienic design.

Quick and efficient cleaning is aided by the washdown systems' sloped surface design,

which discourages liquid or debris collection. Ingress protection is also a key design factor: the CM33 washdown and CM35 washdown and their HMIs are IP69 rated, so able to resist the most caustic detergents and disinfectants. Together, these hygienic design features reduce the amount of operational downtime needed to efficiently complete rigorous cleaning regimes.

T 0116 235 7070

W www.mt.com

New capsule filling machine is designed to let laboratories scale up new drugs quickly

With the new GKF 60, Syntegon Technology says it is setting new standards in lab-scale capsule filling.

"Researching pharmacists and laboratories need to bring their new drugs to regulatory approval quickly and in a targeted manner, and to do so, they need a mobile machine that enables the development of new formulations with a wide variety of dosing systems – flexibly and at different OEB levels," says Matthias

Mössinger, senior market expert pharma solid at Syntegon. "But that's not enough: the systems used should also be easy to scale-up to production which is exactly what Syntegon has developed the GKF 60 for."



The unit is designed for research pharmacists and lab work

T 01332 626262

W www.syntegon.com

Automating legal cannabis packing has seen several options developed

CME has developed automation solutions to automate the packing process for pre-rolled and packaged joints of cannabis since their legalised sale presented growers and manufacturers with the need to process them on an industrial scale.

For instance, automation solutions to produce these delicate, difficult to handle products with consistency and in volume include the AutoCone, which is used to produce cannabis joints at up to 30 items per minute. The system also achieves industry and application specific tolerances across a wide range of product weights and cannabis strains, each of which has its own unique characteristics.



Multiple servo motors have been used

“As the first of their kind, these machines required a detailed investigation into the existing production steps to allow us to develop a number of automated processes which would be reliable and consistent in operation,” explains CME’s Ian Marks. “One example is the product sealing operation, where multiple servo motors are used to replicate the dexterity of the previously manual ‘twisting’ operation.”

There are also a number of options available for the AutoCone system which are designed to suit specific consumer preferences.

T 01460 269500

W www.cme-ltd.com



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New Machinery



Snack packs are made on new machine

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

The company says that this new machine is available for ordering with immediate effect.

VARIOUS MATERIALS

The F 286 thermoforming packaging machine has been developed in response to the current demand in the market for snack packs, such as those for dried or roasted duck portions, beef jerky, small sausages or tofu, which enjoy great popularity in Asia. Packs made from plastic films or aluminium can be produced. Aluminium packs are generally preferred in Asia for these snack products, since they offer a long shelf life due to their protection against UV light.

"Due to the worldwide demand for healthy snacks, we are also expecting great interest in this model from other regions," says Dominik Eberhard, team leader for product management (thermoforming packaging machines) at Multivac. "The F 286 is aimed at smaller and medium-sized businesses, which want to get into thermoforming packaging for the first time or alternatively to pack smaller pack sizes."

T 01793 425800
W www.multivac.co.uk

Collision warning system helps keep forklifts safer

Sick has developed a customisable, active collision warning system for manned forklifts, called the Sick Backup Assistance System (BAS), which alerts drivers to prevent collisions with people or objects, where their view is restricted (by blind spots or during reversing manoeuvres).

The Sick BAS is based on robust and reliable Sick LiDAR sensing technology that can be added easily to most forklift types for a minimal investment.

With this system, there is no need to attach expensive additional equipment to surrounding obstacles. Operators in factory and logistics environments therefore have a new opportunity to reduce the risk of forklift accidents cost-effectively.

"Forklifts are widely recognised to pose one of the greatest workplace safety concerns to pedestrians, with some of the highest risks of serious injury," explains



Operators have a new opportunity to reduce the risk of any forklift accidents

Neil Sandhu, Sick's UK national systems product manager. "Unlike when driving a car, a forklift operator might reverse for several hours during the day, so needs to stay particularly alert to potential collisions.

"Although some active warning concepts, such as radar, have previously been available, our BAS is an affordable, stand-alone system that does not require the installation of reflectors or transmitters all around

production and logistics halls, and staff don't need to wear special pads or tags."

Either one or two Sick Tim351 LiDAR sensors can be mounted on the forklift to provide coverage of the required areas and can also be mounted to give visibility to the side of the vehicle. The monitored area is scalable and can be adjusted with the help of flexible mounting options on the vehicle.

T 01727 831121
W www.sick.co.uk

Tablet coater offers a batch size range from 10 – 100% to cover a wide range of formats

With its wide batch size range from 10 to 100%, the TP R Optima perforated coating pan from Romaco Tecpharm covers an enormous range of applications.

In operation, an intelligent spray arm and individually controllable air exhaust flaps ensure premium product quality coupled with shorter processing times which, says the company, is just as true for 10 as it is for 100%.

The pan coats tablets in totally variable batch sizes

with processes automatically adjusted without having to open the machine and intervene manually. In order to switch from pilot to production scale, operators just call up the relevant parameters on the HMI and start the process.



The TP R Optima perforated coating pan is flexible

T 01252 444334
W www.pharmamachinery.co.uk



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New Machinery

Maximised output for medium/high volumes

Ishida Europe has extended its range of QX Flex tray sealers with the launch of a new model that meets market demands for a compact, high performance machine that maximises output, capacity and flexibility for medium to high volume production lines.

Ishida's ongoing investment in its tray sealing portfolio is driven by the continuing global demand for shelf-life extension to reduce food waste and to provide quality assurance for the consumer while also ensuring minimal impact from the packaging materials used.

The new unit operates at up to 15 cycles per minute with a maximum of seven impressions, delivering a top speed of 105 packs per minute. The tray sealer is capable of both seal only and MAP (modified atmosphere packaging) trays and can handle a wide variety of materials and formats, including trays made from recycled or renewable cardboard and mono plastics,



Ishida Europe has extended its QX Flex tray sealer range with a new model

and the latest skinpack and skin on board variants.

Its compact footprint means it is ideal as both a standalone machine or as part of a fully integrated packing line, with the control and timing of up to four filling systems and a denester all accessible through the machine's Remote-Control Unit (RCU). Careful control of the outfeed simplifies the interface with downstream equipment, while a printer can also be incorporated for batch codes, bar codes, production

and sell-by dates, and pricing information.

Other enhancements include a user-friendly film unwind arrangement which speeds up film roll changes, and a central fixing point for the RCU enables it to be viewed and operated from both sides of the machine.

The QX-900 retains all the benefits of the Flex tray sealer range, including a ten-minute tool changeover.

T 0121 607 7700

W www.ishidaeurope.com



New cameras meet requirements in factory automation

The robust uEye FA industrial cameras are ideally suited for demanding environmental conditions that are found in factory automation and now, IDS is offering three new sensors in the family: the 12 MP (IMX226) and 20.44 MP (IMX183). The Sony sensors offer high resolution and low noise, and for special requirements, the company will also integrate the 5 MP polarisation sensor IMX250MZR.

Housing of the uEye FA models, lens tubes and the screwable connectors (8-pin M12 Ethernet connector with X-coding and 8-pin Binder connector) meet the requirements of protection class IP65/67. The GigE cameras can be operated either with 12-24 V or alternatively as a PoE setup (Power-over-Ethernet).

The cameras are typically used for machine vision tasks in industrial plants and quality assurance routines.

T 01256 962910

W www.ids-imaging.com

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ARM processing is helping firms

Metal detectors are using high power microprocessors

Fortress Technology has adopted ARM microprocessors – used in a range of devices from smartphones to tablets – in its latest generation of digital food metal detectors, including the Interceptor and Interceptor DF, so that multiple inspection processes can be run simultaneously with precision, while also capturing and storing valuable processing data for traceability.

With the Interceptor metal detector, ARM processing enables the machine to run real-time analysis of a low-frequency and high-frequency signal in parallel, allowing food producers to inspect wet or conductive products and identify the product effect.

Fortress has recently used this microchip power to transform the detection of thin flat metal flakes in foodstuffs.

T 01295 256266

W www.fortresstechnology.com

Robots can now handle tough industrial spaces



There are three variants in the range from ABB Robotics with a 7 kg, a 10 kg and an 11 kg payload offered to users

ABB's 6-axis IRB 1300 industrial robot includes new protection elements that enable it to be used in tough industrial applications and contamination-free production processes, opening new opportunities for increased productivity, improved product quality and reduced cycle times in a variety of industries including electronics assembly, automotive and metals fabrication, among others.

Originally launched last year, the IRB 1300 is now available in IP67, Foundry Plus 2 and cleanroom ISO 4

versions which will expand its use in tough environments with high levels of liquids and dust. This is achieved by preventing intrusion by sealing all electrical components, which enables its use in a variety of processes in industries including electronics manufacture, automotive, and metals fabrication.

For applications requiring a clean production environment, in industries such as pharmaceuticals and semiconductor manufacturing, the IRB 1300 ISO 4 cleanroom version features a number of

measures to help eliminate the risk of contamination. Key features include the use of chemical resistant exterior paint which helps avoid paint degradation when using cleaning agents that protect against bacteria. The robot's design also minimises the number of gaps where bacteria could form, providing an added level of protection, while a particle filter and a fully sealed design prevent grease, oil and particles from coming into contact with the products being handled.

T 01908 350300

W www.abb.com

Latest developments are boosting efficiency through smart comms and digital integration

The latest vertical form fill and seal (VFFS) packaging machine - the tna robag 3e - from tna solutions has been developed with smart communication and digital integration at its core.

This new machine offers users the opportunity to increase efficiencies and the ability to optimise their lines for years to come, says the company.

Supported by EtherCAT protocol and a new CXE integrated display controller system, this latest tna robag

reduces cabling infrastructure by 20%, enabling easier servicing and lower total installed costs. "It sets high performance and quality standards and is capable of producing a wide variety of products at speeds of up to 250 bags per minute," explains Anurag Mitra, product marketing manager (packaging) at tna solutions.

Intelligent, digitally enabled operating systems like this offer the potential for complete line integration

and more effective process automation too. The robag 3e for example, is designed for seamless integration with the tna auto-splice 3, a compact system which automatically splices and replaces packaging film rolls with no pause in the packaging process for faster, more efficient changeovers. Together, these systems deliver a 5% increase in production uptime.

T 0121 628 8900

W www.tnasolutions.com



The tna robag 3e is offering benefits

New Machinery



The W18 Dynascan is available

Inspection systems offer paper makers control of quality

Paper processing company Hunkeler has released two new units that will offer new levels of quality control for customers.

Both available in the UK and Ireland from Friedheim International, the W18 web inspection system offers production monitoring and quality control features to users, while the new W18 Dynascan option allows customers to inspect dynamically, even with variable sheet lengths.

W18 web inspection enables users to check the quality and content of the print on each page, analysing key factors such as colour, position, contour, smearing, jet-outs and also data validation.

In operation, the entire width of the paper web is scanned and compared to an accurate sample.

T 01442 206100

W www.friedheimpackaging.co.uk

New dual-ovenable tray meets consumer trends

GMondini and Graphic Packaging International have launched a third addition to their award-winning PaperSeal tray range to include a new dual-ovenable version called PaperSeal Cook.

Developed in response to consumer trends around convenient, homecooked-style foods, customers of the tray sealing and fibre-based packaging companies can now benefit from PaperSeal tray technology for oven- and microwave-ready chilled and frozen food applications.

This new option was launched at G Mondini UK's recent event called Packaging Deconstructed – where customers were able to experience and test the new PaperSeal Cook technology first-hand, alongside its Trave range of tray sealers.

This latest option follows G Mondini and Graphic Packaging's launch of PaperSeal Slice and PaperSeal Wedge which were designed for sliced meat and cheese



applications. Sustainability is key in this development as this new pack reduces the amount of plastics used when compared to traditional trays, and in this instance by up to 80%.

"We are incredibly excited about PaperSeal Cook," says Ross Layton, managing director of G Mondini UK. "The dual-ovenable version will enable the new product to expand into new sectors; delivering a new packaging solution, with enhanced marketability and product tiering," he explains.

Sealed on G Mondini's flexible Trave range, the PaperSeal Cook tray features

The PaperSeal Cook tray offers a more sustainable option for users to meet latest consumer demand

a one-piece continuous sealing flange to prevent leaks and also to ensure robustness through the supply chain. After use, the consumer can easily separate the liner film from the paperboard, making the paperboard portion of the tray 100% recyclable through normal collection channels.

T 01785 812512

W www.gmondini.com/platform-technology/paperseal-cook

Improving energy efficiency along with productivity can be achieved simply by new vacuum ejector/pump option

The vacuum technology used for materials handling is one production process where substantial energy savings can be made and Piab says its new vacuum ejector/pump family ensures this reliable technology remains high-performing and energy efficient yet is easy to maintain, is modular, and is cost competitive.

Thanks to its compact size and light weight, the new Compact10E can also be easily installed close to applications



Piab's Compact10E offers high vacuum flow, reliability and fast cycle times

without interfering with a robot's range of motion, thereby improving the vacuum performance and the ability to run the machine even

faster than previously.

These compact/stackable vacuum pumps are air-driven multistage ejector families, based on Coax technology,

that come with integrated controls and special functions, such as on/off valve, blow-off valve, vacuum switch or energy saving function. This makes it easy to specify the exact control functions needed for a system.

Being modular and robust, the Compact10E also minimises the need for service parts such as vacuum filters and ejector nozzles and therefore maximises machine uptime.

T 01509 857010

W www.piab.com

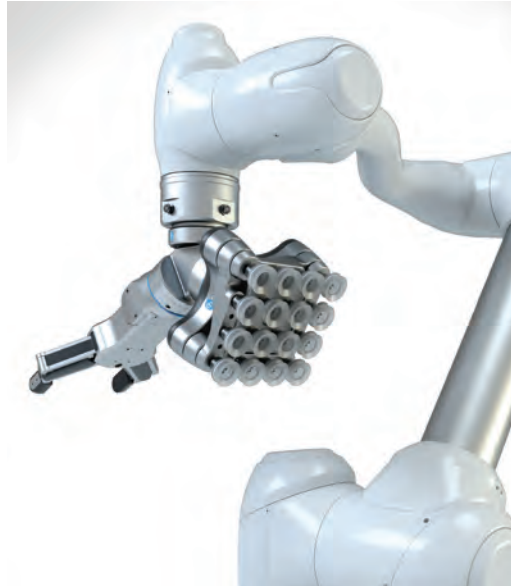


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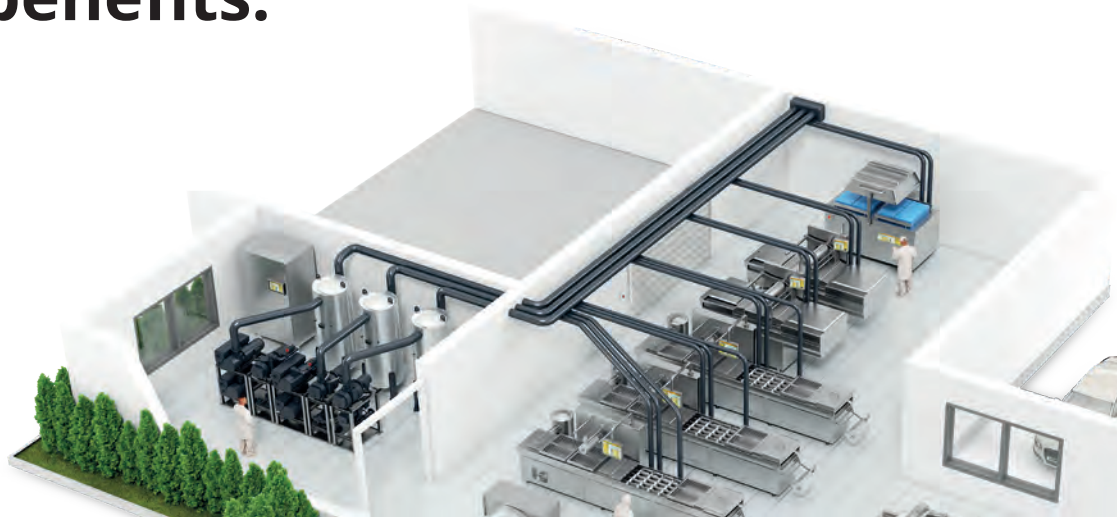
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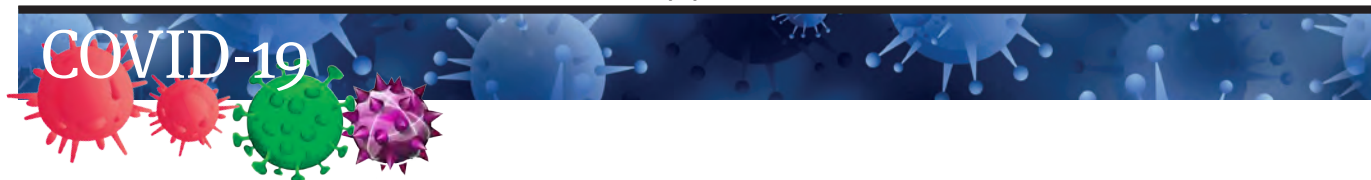


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**U
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VACUUM SOLUTIONS



Wraparound labelling is a speedy vaccine option

New options are handling face masks

Ulma Packaging UK has created bespoke solutions to meet the specifications of any type of face mask, regardless of the shape, size, or the type of fastening being used.

The solutions have been developed to guarantee the reliability and safety of the final product, and as a result, their capabilities are suitable for packaging both surgical and FFP2 masks, in individual formats and in groups.

Solutions include flow wrapper packaging machinery with automatic face mask feeding systems that can handle a diverse range of materials such as plastics, aluminised film, medical paper and Tyvek to protect the products from microorganisms and humidity.



Range offers choice

It is also possible to incorporate labelling and coding technology to guarantee traceability for all the data that must be included on the product, such as the batch number, any serial numbers and also barcodes.

"We are specialists in packaging sterilised products and medical devices," explains Ed Williams, sales director at Ulma Packaging UK. "This not only includes high-grade face masks but across all kinds of medical and pharmaceutical solutions."

T 01909 506504

W www.ulmapackaging.co.uk

In the US, Herma recently supplied Catalent Biologics with two precision, high-volume wraparound labellers for the production of biologics, including COVID-19 vaccines. The initiative involved delivering the machines in just 10 weeks, while making them fully validated and ready for production in four weeks.

Under normal circumstances, this process can take up to a year, says the company.

Catalent purchased two Herma 132M HC wraparound labellers which are designed to meet the stringent requirements of round pharmaceutical and healthcare products, including glass vials produced in high quantities. The modules offer optimisation-minded features such as special rotary tables, digital position indicators and format sets that can be changed without tools for fast format changes, as well as operation of the entire machine, including the camera and printer, via an HMI.

"We appreciate the



Two Herma 132M HC wraparound labellers were supplied from stock

dedication and partnership Herma's team has shown us," said Dominick Marino, VP of global procurement at Catalent. "These new labelling machines are vital to how quickly we can manufacture and package medicines for our customers and their patients."

Recognising the urgency in delivering labelling machinery during the

pandemic, Herma decided to prebuild batches of the 132M at its factory in Germany. "A special project team was coordinated to expedite customer orders and fast track procurement of third party items such as printers and vision systems," explains Peter Goff, ceo of Herma US.

T 01440 763366

W www.herma-labellingmachines.co.uk

Solving the challenge of packaging bicycles for home delivery during the first lockdown

Antalis Packaging's team in the South East has helped a once bricks and mortar bicycle retailer fulfil soaring demand for online sales by developing a bespoke box design in three different sizes to accommodate the small, medium and large sized range of bikes.

When lockdown forced the closure of stores at the same time as demand for bicycles saw enormous growth, the bicycle retailer quickly developed an eCommerce store, but packing the

bicycles for delivery, however, proved more problematic. Antalis came up with the design that includes a cardboard insert to fit around the bike to keep it secure, while Fillpak TT paper void fill adds extra protection during bike transit.

T 0370 241 1466

W www.antalispackaging solutions.co.uk



Antalis worked with the retailer to fulfil orders

Installation News



Test kitchen helps to develop healthy food brand formats

Proseal has helped the Asian inspired healthy food brand itsu to diversify into the retail market.

Using the facilities of Proseal's Test Kitchen, itsu has been able to produce eye-catching, user-friendly and microwaveable packaging for its new 'heat & eat' range, including the company's popular gyoza, bao bun and 'hotsu' postu' recipes, which are now being sold in major UK supermarkets.

Proseal worked closely with itsu throughout the product development stage, trialling different tray concepts, materials and processes to identify the best packaging solution that was in keeping with the itsu brand and ensured complete product compatibility to maintain the high quality and freshness of the itsu products.

The company has now commissioned tooling for the three chosen tray designs, suitable for high-speed filling on its GTI tray sealing machine.

T 01625 856600

W www.proseal.com

Mobile packaging system supports portability needs

RMGroup has installed one of its mobile packaging systems at Pelot Slovenia, a main supplier of sea and rock salt products in the Republic of Croatia, Slovenia and neighbouring countries.

The company's main objective was to be able to deliver salt to their customers in the shortest possible timeframe, which during the winter season, can amount to 2500 - 3000 tons of salt per day. With a growth in demand for its salt products, the firm needed increased mobility in its operation to enable it to service customers more quickly and efficiently, while also providing a bagging service for other businesses.

An LTM 600 system met these needs. Consisting of a trailer chassis, the system combines manual placement of pre-made bags with an integrated ABB robot palletising system. Given its versatility, the model has also allowed the company to switch between bag sizes with ease,



Service requirements are answered remotely via RMGroup's eWON system

and today, it can pack various salt granules in bags from 10 to 25 kg.

RMGroup installed an inlet hopper feed system, load cell bag clamp, continuous heat sealer and bag preparation conveyor as standard on this unit, while the robot palletising system includes a pallet magazine and pallet accumulation. Filled pallets

are ejected from the line through a controlled speed door, onto gravity conveying.

Also included is a compressor to deliver the correct air supply to the line, and a heating system to maintain an ambient temperature and warm environment for bagging.

T 01686 621704

W www.rmgroupuk.com

Latest vacuum 4.0 technology adjusts performance more precisely to the actual demand from a meat products firm

Meat and sausage products producer Vinzenz Murr has converted its existing central vacuum system to the latest Vacuum 4.0 technology from Busch Vacuum Solutions to generate vacuum for its packaging processes.

The system now uses the latest R5 Plus vacuum pumps which are pressure-regulated to keep the vacuum for all the packaging machines exactly and permanently at the pre-programmed level, while also being energy efficient.



Communication via the Plus Master Control

The new option was installed when the whole system was moved within the

factory. MD Alexander Brandl decided to swap the rotary vane vacuum pumps equipped with standard motors to frequency-controlled rotary vane vacuum pumps so the company could adjust the performance more precisely to the actual demand.

This accommodates the diverse range of products, ranging from several kilos to small portion packs,

that the company produces.

Thanks to pressure control, each R5 Plus can maintain the specified vacuum level and compensate for changing pumping speeds via the rotational speed. These units communicate with each other via a higher-level secondary control unit called the Plus Master Control. In this way, the overall performance of the system adapts precisely to the actual demand.

T 01952 677432

W www.busch.co.uk



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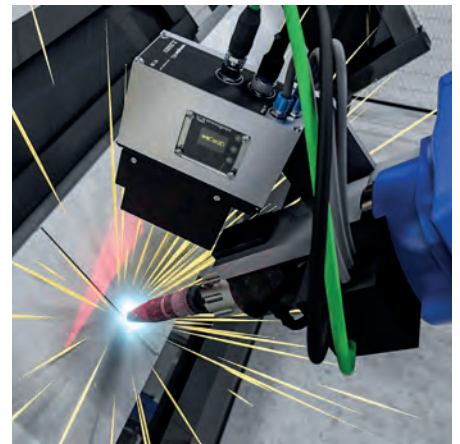
Height and Angle Measurement

A 2D/3D Profile Sensor with IP69K protection detects the entire width of the ice cream production line and measures the height and angle of the cardboard lids.



Visual Quality Checks

In the food industry, quality checks such as counting, presence or pattern match can be operated via weQube Smart Camera and the intelligent image processing software uniVision.



Welding Seam Guidance

With micrometer precision, the 2D/3D Profile Sensors weCat3D enable the tracking of weld seams in robot cells. Edges, angles or steps are detected automatically.



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 Kettering, Northants NN14 1UE
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info.uk@wenglor.com | www.wenglor.com/visionworld



Installation News

New cheese making plant has doubled previous capacity

GEA has installed a new cheese making plant for Madeta in the Czech Republic which can process up to 400,000 litres of milk a day – twice the capacity of the former facility.

Each day, the new plant produces up to 42 tons of hard and semi-hard cheese and the new facilities use the latest technology, enabling the company to maximise production, maintain high quality standards, and respond more quickly to the changing needs of the market.

The upgraded technology and production methods have improved efficiency, yields, and technological safety, as well as increase production. Not only did GEA offer the right solution, it was also able to integrate the third-party automation system, provide recipe control over the whole cheese line, and supply the interface to the company's ERP system. The new Madeta plant is designed to process up to 400,000 litres of milk per day, but has the capacity for up to 600,000 litres.

T 01908 513500
W www.gea.com

A tactile-coded bottle can help the visually impaired

Domino Printing Sciences (Domino) has teamed up with Procter and Gamble (P&G) to develop an inclusive, tactile solution for product labelling, to help visually impaired consumers distinguish between personal care products during use.

“Most shampoo and conditioner bottles are designed to look and feel the same,” says P&G’s special consultant for inclusive design Sumaira Latif, who is registered blind herself. “We realised that we have a huge opportunity to improve our products and packaging, and to encourage other businesses to do the same.”

It was clear that Braille was not going to provide the easy differentiation needed, due to the very limited number of Braille users. P&G and Domino therefore sought to develop a more universal alternative that could make the bottles more accessible to anyone with partial or complete sight loss.

“We were invited to visit



P&G wants to encourage manufacturers to create inclusive pack designs

Domino’s specialist laser testing labs in Hamburg, initially to discuss the requirements for the project, and then again for a two-day working session to identify the best possible solution,” says Kevin Higgins, engineer at P&G. “Together, we chose the Herbal Essences bio:renew range of shampoo and conditioners as a trial product, which could be easily marked by Domino’s D-Series CO2

laser coders to create a differentiating tactile marker,” he says.

The chosen design features a row of raised lines on the bottom of the back of the shampoo bottles – “S” for shampoo, “S” for stripes – with two rows of raised dots in the same place on conditioner bottles – “C” for conditioner, “C” for circles.

T 01954 782551
W www.domino-uk.com



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Seasoning waste has now halved

Poultry company trims its seasonings weight wastage

A British chicken, turkey and duck supplier has solved its issues with seasonings wastage by installing a Hera loss-in-weight depositor machine from Sparc Systems.

By perfectly seasoning more than 250,000 poultry birds a week – at 50 a minute – the supermarket and restaurant supplier now maintains a consistent and even one-gram herb and spice dispensing weight. Indeed, the company has been so impressed by the presentation improvements and waste reductions that it now has four machines installed at its Northamptonshire production site. This also includes several on its ready meal production lines dispensing IQF vegetables, herbs and grated cheese into dishes.

T 01684 310000

W www.sparc-systems.com

Tea bag unit overhaul produces new formats

When Tata Tea was launching a range of speciality teas, it needed to overhaul an existing tea bag machine to produce a new product format. There was also a requirement for a completely new end of line packing method, but as the original equipment manufacturers were unable to provide a solution, Sewtec Automation was approached.

Tata had the ability to mix the loose tea with the existing production equipment for its new product, but it could not create the tea bags or packaging to meet its brand expectations.

Sewtec therefore overhauled the existing unit and re-engineered the existing tea bag making machine to manufacture the new speciality teas. This included a full mechanical and electrical controls upgrade, plus new software, to ensure the machine could not only meet the current tea bag production demand, but also manage the obsolescence



Sewtec Automation has handled the entire project which is now running faster

issues it faced with the old unsupported machine.

The company then designed and built a new flow wrap feeding system which collated the tea bags into two stacks of 10s and transferred them into the flow wrapper. A flow wrapper was purchased and Sewtec then integrated a checkweigher into the overall solution. Wrapped tea bags were then packed into a carton via a side load carton loading machine; an overhead transfer

mechanism then transferred the incoming flow wrapped tea bags into the cartons, before the cartons were closed and then discharged from the machine into the tray loading system.

The machine design initially achieved the required throughput of 50 cartons per minute, but it also has the capability to pack at 100 cartons per minute.

T 01924 494047

W www.sewtec.co.uk

Clever use of sensors on a canning machine has provided affordable gains for a brewery

The TAP Brewery has used an LBFS level sensor and IFRM inductive proximity sensors from Baumer in developing a bespoke canning machine.

“Microbreweries like ours are not producing the high volumes which justify the expense of sophisticated canning machines, so usually opt for barrels and bottles,” explains co-director at the microbrewery Tim Hobbs. “Now the big thing for us is we can handle around 300 cans per hour and the performance

of the Baumer sensors are essential components in the success of our canning machine.

“Cans are much better for the environment, are easier to pack and transport so we gave ourselves a challenge to design and build a system where we could filter, carbonate and can beer, on a relatively small budget,” he continued.

The brewer’s first canning machine relied on optical sensors to detect foam in

the can and it quickly realised this was not an effective or robust enough option and fill levels could not be relied upon using these sensors. Also the sensor counting the cans was a photoelectric optical eye sensor and due to its shiny, reflective nature the aluminium would give false or multiple readings.

These issues were resolved once the Baumer sensors were installed on the line.

T 01793 783839

W www.baumer.com



Sensors are working on canning line

Installation News

Project delivers productivity gains for a potato processor

A major capital investment is now paying big dividends at a leading East Anglian vegetable packer following the installation of six automated packing lines.

With multiple lines and manually driven packing and palletising, the company decided to increase bagging rates, increase flexibility and remove all manual handling.

The project required the installation of six new automated bag packing lines handling a variety of plastic crates for the private label sector. These crates, or RTPs, were both folding or so-called bale arm types, which required careful and precise packing of product up to 20 kg in weight, with bale arm closing and checking, at up to 13 crates per minute, per production line.

The nature of the heavy and non-uniform shaped product, the variety of crates and the varying weights made for a challenging solution.

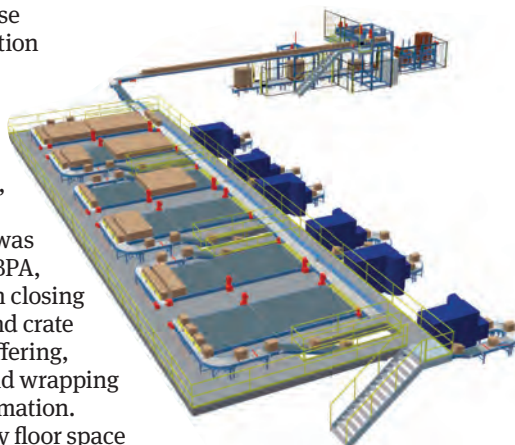
After careful assessment of the solutions offered, the

customer chose Scott Automation as one of the three partners required.

Bag handling, orientation and packing was delivered by BPA, crate bale arm closing by Autarky and crate handling, buffering, palletising and wrapping by Scott Automation.

With factory floor space tight, and access to each line required for empty crates and operators, the customer opted for the proven 'multi-line' solution, where packed product is elevated up onto a mezzanine floor and buffered on simple, low maintenance, modular belts. The buffering has the benefit of 'disconnecting' the packing and palletising processes, which significantly reduces minor stoppages and therefore increases line efficiencies.

In operation, once a full load is ready, it passes to



In this application, there is minimum pallet conveying hardware on the warehouse floor to help workers

a queuing system and is then, in turn, conveyed directly into the warehouse.

This reduces handling and fork truck activity dramatically. Palletising is carried out on a latest generation Alvey PL8000 model layer palletiser.

Importantly, says Scott, the palletising process guarantees that these crates, which must be lined up exactly, one on top of the other to avoid toppling,

can be handled accurately, reliably and at high speed. Crates like these do tend to sway when stacked, and so clamping the load as it is built up delivers this accurate repeatability.

Upwards of 50 crates a minute are being handled and up to 50 pallets per hour secured and delivered to the despatch bay.

"All parties in the project worked together successfully, and supportively, with the in-house project team managing the unenviable task of maintaining full production while installing all of this multi-million investment," says Jaroslav Křikava, marketing manager – Europe at Scott Automation.

When asked for comment, the operations team at the potato processor said: "In these difficult times, we now have a robust production process and can guarantee continuity of supply to our key customers."

T 01384 210278

W www.scottautomation.co.uk

Flavoured coffee manufacturer takes delivery of a second rotary capping machine to meet production requirements

Karmelle has supplied a second high-speed rotary capping machine to Beansies The Flavour Co, cementing its longstanding relationship with the flavoured coffee manufacturer.

Beansies invested in its first Karmelle rotary capper back in 2015 and this machine has proved to be so effective that, when its production requirements changed last year, the company decided to upgrade to a new automatic capping machine.



Karmelle designs and builds several options

With a central rotary star wheel and multiple screw capping heads, the latest automatic capping machine

is ideal for medium-to-large scale production.

The rotary capper itself is now a cornerstone of Karmelle's capping range and can achieve speeds of between 40 and 160 caps a minute (depending on the cap type).

A range of additional features (including a 'no-bottle-no-cap' function and 'no-foil-in-cap' reject

sensor) can be added on request, ensuring that faulty products are detected before they reach the end of the line.

"We are delighted that Beansies' first rotary capper proved so efficient, and that we will once again be helping this fantastic brand to improve their production processes," says sales director at Karmelle Peter Krawczuk, "We look forward to continuing our successful partnership."

T 01484 533356

W www.karmelle.com

KUKA

KR DELTA Hygienic robot _for use in sensitive conditions



Thanks to its stainless steel body, the KR DELTA is ideally equipped for hygienically sensitive areas, such as direct contact with food, medicines or electronic components.

The robot's corrosion-resistant stainless steel shell is designed according to German LFGB and US FDA food standards and also meets European CE certification, American UL certification and German TÜV safety function certification. The robot is protected against dust and moisture according to IP 67 protection class and can

therefore be cleaned under high pressure and with alkaline or acidic cleaning agents.

KUKA DELTA robots are perfectly suited for pick-and-place tasks in the high-speed sector, including the food industry.

The DELTA is controlled by KUKA's KR C5 micro robot controller, which saves almost **35%** energy compared to the previous generation, while requiring less space and offering greater safety.

www.kuka.com

Installation News

An automated solution keeps coins range in mint condition

As the demand for commemorative and collectable coins surges across the globe, so does the demand for pristine quality which is why Active8 Robots engineered an automated alternative to achieve the level of quality inspection needed without compromising production rates.

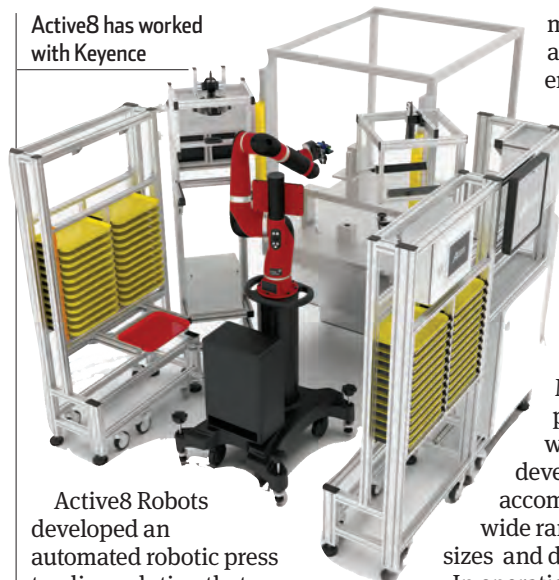
Using the outdated naked eye method to identify imperceptible imperfections was no longer adequate for the world's leading export mint.

The primary goal was to improve the existing quality inspection control process beyond current standards for an exclusive series of colour enhanced coins.

Secondary goals included:

- enhancing manufacturing speeds
- reducing labour dependency and variable costs, and
- automating the dull repetitive tasks performed by humans to facilitate redeployment to roles that were more cognitive and variable in nature.

Active8 has worked with Keyence



Active8 Robots developed an automated robotic press tending solution that could be easily integrated with existing legacy systems. This pad-printing cell comprised a fully safe, unguarded collaborative robot system that could be loaded with up to eight hours of product while running without any operators.

It incorporated triple-function end-of-arm-tooling to maximise productive robot

movement, and two high-end vision systems from Keyence – one for sending data to the robot and the other for quality inspection. Multiple programs were specially developed to accommodate a wide range of medal sizes and designs.

In operation, the robot picks a tray of coins from the infeed rack, placing it into a pick inspection jig. A vision system sends location data and coins are placed into the orientation jig before rotational alignment correction.

Coins are placed into the pad-printing vice, are printed and then delicately removed using a two-fingered



Pristine quality coins are required

pneumatic parallel gripper. The vision station carries out quality control checks on colour variation and saturation, image position, paint smudges, shadowing, dirt and grease and also any scratches.

Finally, coins are judged to be either a pass or a fail and subsequently placed in the correct outfeed.

This bespoke solution designed, built, and fully integrated by Active8 Robots has delivered a quality check process that is objective, dependable and reliable. This resulted in better consistency of output quality, faster cycle times and lower labour costs.

T 01761 234376

W www.active8robots.com

Collaborative working delivered a turnkey packaging line for a contract packing facility handling cleaning products

DHL Supply Chain's new contract packing facility at Manton Wood in Workson is reaping the benefits of a new turnkey packaging line. Shrink wrapping machinery, box taping equipment, pallet wrappers, packing tables and an intuitive network of conveyors were installed as part of a joint project delivered by Yorkshire Packaging Systems (YPS) and Breathe Technologies. The integrated solution was specially tailored to a new production line DHL

had commissioned for the packing of domestic cleaning products.

YPS has supplied multiple DHL sites across the UK for many years, acquiring a comprehensive understanding of the company's unique requirements. Alongside Breathe Technologies, who provide smart warehouse technology solutions, the company was ideally placed to assist the Manton Wood



YPS has delivered kit to DHL for many years

site as production ramped up.

For display packaging applications, a robust and reliable Flexo X high speed side sealer with shrink tunnel was supplied. An SVA60-35

side feed sleeve sealing line and tunnel for transit packaging applications was also installed, boasting a number of enhanced safety features for aerosols. Following the shrinking process, boxed products are diverted through a number of Robotape box taping lines before two automatic turntable pallet wrapping machines ready the loads for the final distribution channels.

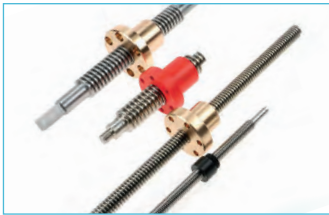
T 01484 715111

W www.yps.co.uk

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Precision Lead Screws & Nut Designs

ABSSAC is an established supplier of precision lead screws, encompassing power, miniature and high helix thread forms. Lead screws are used in a very broad range of applications, sold as individual products, normally machined at the end to fit into bearing mounts. With nearly 4 decades of application experience the correct linear product into an ever-expanding range of applications is easily achievable. All lead screws can be combined with a range of nuts to suit a myriad of performances. An in-house, fast turnaround, machine shop delivers the lead screw and nut program, ready to fit.

Rollvis satellite roller screws

If you are looking for enhanced linear performance within your application, through trusted engineering support then the satellite roller screw program is worth considering. With a proven pedigree in application placement, the satellite roller screw program offers a unique precision linear device that accurately transforms rotary movement into a linear motion. Utilising internally captivated threaded rollers that sit between the screw and the nut dramatically increasing the high number of points of contact with the bearing system. This mechanical advantage enables satellite roller screws to support very heavy loads with precise and reliable motion. Meticulous attention to detail during manufacture, backed up with honed experience, delivers a formidable linear package.



ETP Hydraulic Bushes

A truly innovative product. Pascal discovered the principle, but ETP put it to work. All ETP products consist of a double-walled hardened steel (in some cases stainless steel) sleeve, filled with a pressure medium. Within the product flange there are one or more screws and a piston with seals for the pressure setting. When the pressure screw is tightened an even and moderately high surface pressure is created against the shaft and hub, causing the locking effect. The self-contained product allows this procedure to be repeated many times. Whether the hubs are to be removed or repositioned, mounting and dismantling is done in less than a few seconds. The hydraulic principle gives immediate advantages for today's modern machines.

Precision Ball Screws

With one of the most diverse and capable ball screw ranges on the market, ABSSAC is considered for a large breadth of linear challenges by its customers. The choice empowers the capability to meet most linear challenges head on, but most importantly, within budget. For many decades our preferred supplier, KSS Co of Japan has been chosen for the precision rolled and ground ball screws for diameters from 1.8mm to 16mm. KSS Co offers second to none manufacturing techniques, unmatched quality assurance and reliability. Any precision linear application would benefit from the quality assured product range, giving peace of mind at a competitive price.



Clutches & Brakes

Electromagnetic clutches and brakes, couple, release, brake and hold machinery in place using electromagnetic force generated by passing a current through a coil. The products are electromagnetically actuated or spring actuated. The electromagnetic actuated range further divides into several major categories: electromagnetic-actuated clutches and brakes, spring-actuated brakes, electromagnetic tooth clutches, brake motors, and electromagnetic clutch and brake power supplies. With compact and durable designs the electromagnetic clutches and brakes can be used in a large variety of applications. Ideal for use with large and small transmission, the program also incorporates torque limiting flexible shaft couplings, overload protection, industrial clutches through to micro brakes & clutches.



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Installation News

Print and apply is seamless for eggs



Glenrath Farms achieved a return on its investment within just 30 weeks

Egg production company Glenrath Farms has been so impressed with the way Cobalt print and apply systems have delivered for its business, that it has purchased three of them in the last nine years.

As head engineer at the egg company John Pearson explains: “The Cobalt print and apply systems do what was promised; they are rugged, long-lasting machines that give 24/7 performance, supported by people who are experts in their field.”

When the egg producer was required to comply with short-life product coding, it had to move from an ITF-14 barcode, which holds only static data, to a GS1-128 barcode, which is capable of carrying dynamic data, like best before date and batch-specific information for traceability. However, although the company was complying with this legislation by printing labels offline in advance and then hand applying labels to boxes full of egg cartons, it was not an efficient way of working.

And with the labelling information changing every day and batch by batch, pre-printed hand-applied labelling was becoming not

only inefficient, but also an expensive option which was open to risk through human error. With the rest of the line already automated and with increased demand from retail customers, Glenrath realised it needed to find a company willing to develop a real-time labelling solution.

EFFICIENT COMPLIANCE

“We wanted a UK based company who listened and could provide a system around our needs rather than the other way around,” says Pearson. “Cobalt do exactly what they say they are going to do, and they do it well.”

Cobalt partnered Glenrath to deliver compliance in an efficient way, enabling them to satisfy their retail clients and meet the food standards strict criteria on traceability and labelling. Although legislation was the key driver, the project had a transformational effect on the Glenrath operation, removing risk and increased waste from the hand-labelling operation, while reducing the cost of labour.

The result was a return on investment that was achieved within just 30 weeks.

T 01270 539800

W www.cobaltis.co.uk



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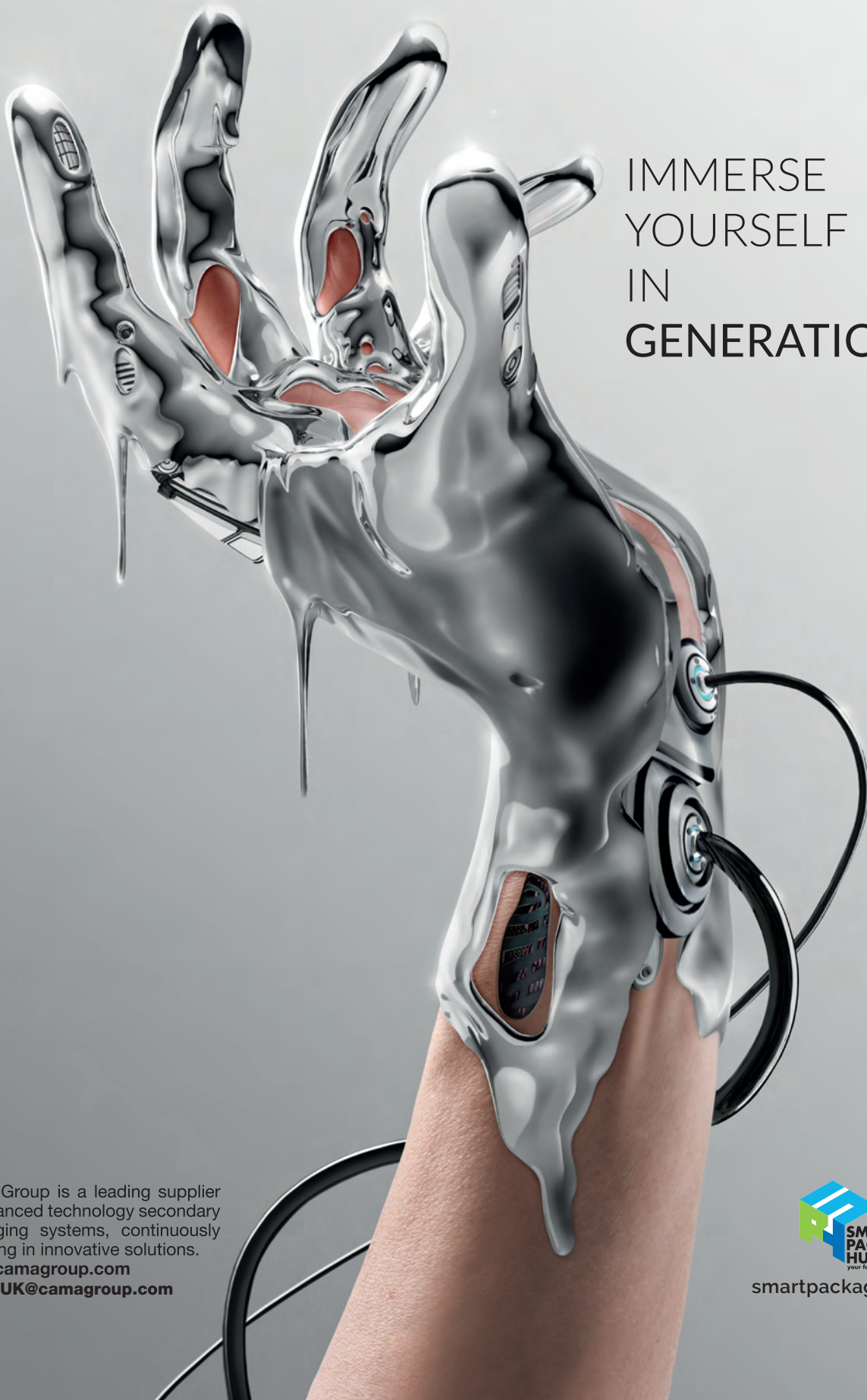


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PPMA Show Preview Introduction

PPMA
SHOW 202128 - 30 SEPT 2021
NEC, BIRMINGHAM
www.ppmashow.co.uk

Robatech's new Vision Melter will be seen on its PPMA stand

Robot-assisted adhesive unit is energy saving

At this year's PPMA Show the Robatech team will be presenting a new dimension in adhesive application: high-performing, energy-saving and robot-assisted.

This will be the first opportunity for visitors to see Robatech's smart, new Vision Melter. In combination with the new Performa heated hose and the SpeedStar compact application head, demanding packaging can be glued quickly, efficiently and with high precision.

NEXT LEVEL GLUING

Robatech says its new adhesive application system raises the quality and reliability of primary and secondary packaging gluing to a new level. All system components significantly reduce energy consumption and make life easier for machine builders and users with clever features such as The Smart Terminal, which displays current operating and status information via changing LED colours, and the PrimeConnect heated hose coupling, which enables plug-and-play hose connection.

Robatech Gluing Technology is the exclusive distributor of genuine Robatech equipment, spare parts and service to customers in the UK and Ireland.

With high quality hot-melt and cold gluing systems for packaging, graphics, automotive, building, woodworking and many other industries, the local Robatech team will be on hand at the show to discuss any gluing requirements and challenges.

STAND E60www.robatech.com

First UK live event for process and packaging is ready to do business

PPMA Show 2021 NEC, Birmingham

Show opening times:

Tuesday 28 Sept: 9.30 – 5pm
Wednesday 29 Sept: 9.30 – 5pm
Thursday 30 Sept: 9.30 – 4pm

COVID-19 protocols mean that pre-registration is compulsory
www.ppma.co.uk

The countdown has begun to this year's first UK live event for the processing and packaging industry as in a few weeks' time, the PPMA Show 2021 will return to the NEC in Birmingham, taking place from 28 – 30 September.

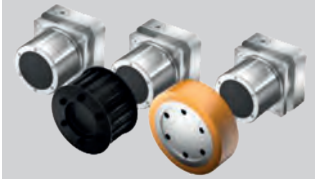
As the first major PPMA live event since September 2019, following the postponement of all live events in 2020 and early 2021 due to the global pandemic, exhibitors and

visitors are getting ready to do face-to-face technology business once again.

With a focus on supporting the processing and packaging communities with sustained business recovery following the challenges of the last year, the show will bring together over 250 exhibiting companies, offering end-user businesses a long-overdue opportunity to see emerging technologies and explore the latest trends across the wide-ranging industry.

Renowned by the industry as a platform for launching new products, the 2021 show will be no exception, with multiple exhibitors announcing plans ahead of the show as is demonstrated in this 76 page preview of the three-day exhibition.

To register for your FREE visitor badge, visit the PPMA Show website at:
www.ppmashow.co.uk



A five-year warranty is available...

Apex Dynamics will be featuring several new products at this year's PPMA Show, while highlighting others in the servo gearbox range that are relevant for applications in printing, packaging, food processing and similar machines.

Visitors can see servo control products including the GL/GLS series, which is a high-end servo gearbox range that complements the existing PD/PDR and the PL/PLR ranges and offers a number of technical advantages.

The GL series is designed with high-precision helical gears with a maximum backlash of three arc minutes for a single stage ratio. There is also a GLS version with a full input shaft (with or without key), especially for those applications where the wheels or pulley are not directly driven by a motor.

Also new is Apex Dynamics' fully automatic lubrication system that can keep the wheels of production machinery in motion, avoiding unnecessary downtime and expensive early maintenance requirements.

The precision economical stainless-steel gearboxes are represented by the AES & AERS range. All external gearbox elements are manufactured from stainless steel material, filled with food-grade grease and sealed to IP67.

Plus, all Apex Dynamics servo products are offered under a package of benefits which includes patented designs, five-year warranty on all products, two to three-week lead times, Guaranteed On Time Delivery or the Product is Free to Customer, and ATEX rating as standard.

STAND J42www.apexdynamuk.com

ACER MACHINERY REPRESENTS TWO DIVERSE RANGES

New business offers benefits

Visitors to the PPMA Show stand of a new business set up last year can discuss the range of sachets, pouches and stick pack formats that can be produced on Mespac equipment, including the latest fill through spout options, as well as cartoners from UET (more details on page 114) with the owner of Acer Machinery Emma Ridgway.

STAND D64www.acermachinerysolutions.co.uk



PPMA Show Preview

28 - 30 SEPT 2021
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www.ppmashow.co.uk



FT System offers a complete range, and is backed by UK-based service team

Quality inspection

FT System provides a full range of high-speed inspection equipment for containers in food and drink production that inspects the whole line, from primary through to secondary packing before the palletiser. Visitors to its stand can find out more about how this Antares Vision company guarantees the process of protecting products throughout their lifecycle through inspection systems, track & trace and smart data management.

STAND J72

www.ftsystem.com

Water-activated tape can be handled on case sealer

At this year's PPMA Show, Southgate will unveil its brand-new product; a semi-automatic random size case taper designed to handle a water-activated tape. The company has developed this water-activated case sealer to make closing cartons with water-activated tape faster and easier than previously available.

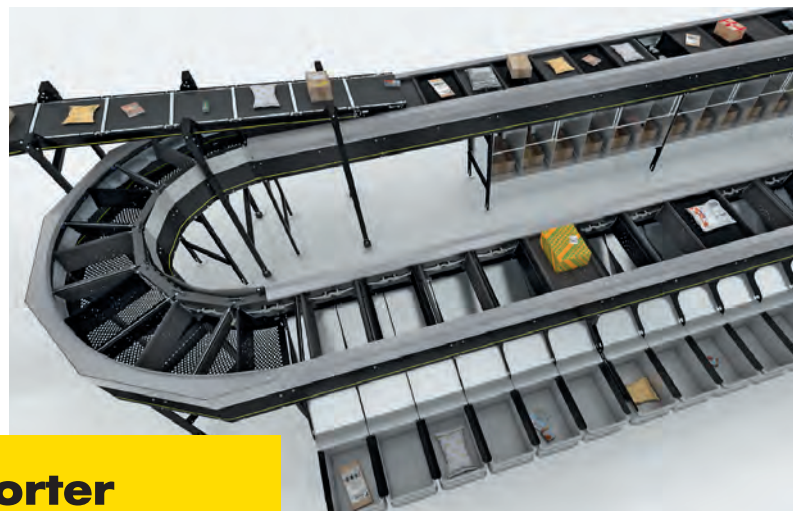
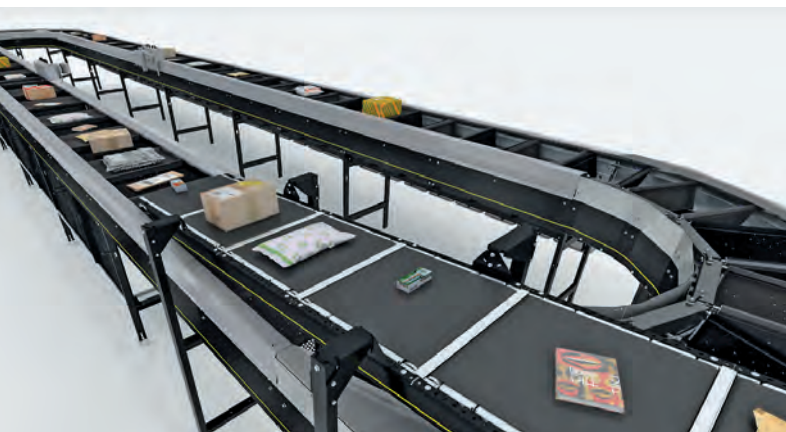
This new BP2024-R case sealer automatically adjusts for each random size carton processed and hosts a range of features and benefits that include the tape delivering a reliable seal, even on highly recycled corrugated. Other features include patented water delivery technology to activate adhesive, powered tape

unwind for consistent and reliable performance, up to 4500 ft tape rolls for fewer tape roll changes, double wipe down which provides an extra secure seal, removable tape heads for ease of routine maintenance, conformable wipe down rollers which maximise closure integrity and a pneumatic indexing gate assures proper spacing of the cases during processing.

It is available in three operating modes which are top & bottom taping, top only taping and bottom only taping. It can process cases at a rate of 10-12 per minute, depending upon the case size range.

STAND F22

www.southgate.eu.com



The new Interroll Split-Tray Sorter

Fast, flexible sortation for everyone

Interroll introduces the new Split-Tray Sorter: the perfect solution for small and mid-sized items. Efficiency and low maintenance make this new sorter attractive for those looking for lower operating costs and quicker return on investment. It is an ideal solution for the 3PL, E-Commerce, Fashion and CEP industries.

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INSPIRED BY EFFICIENCY





The SmartDate X65 will be shown

End-to-end supply chain solutions

Markem-Imaje will demonstrate its one provider proposition during the PPMA Show.

The company's end-to-end supply chain solution includes marking and coding for both primary and secondary labelling and, verification and inspection, ensuring packaging accuracy, quality assurance and data integrity. Plus, message design alongside line control and 100% unique authentication – utilising non-additive and data enriched digital identity. The company says its end-to-end traceability provides a seamless and secure data exchange for supply chain tracking.

Products being demonstrated include the 9330, a versatile and cost-efficient inkjet marking solution which offers 8,000 hours of non-stop printing – designed for low to medium duty applications which can evolve with capacity needs. The 9450 is also on show, which is suitable for medium to heavy duty production lines. Fully optimised with its CoLOS software solution, the 9450 offers several functionalities including promotional marketing coding directly at the production level.

SmartLase C350HD+ is designed for manufacturers of single serve, mix and go stick packs, while the SmartDate X65 thermal transfer overprinter is ideal for ultrafast, high-resolution coding on flexible film packaging.

STAND C62

www.markem-imaje.co.uk

A robotic top load case packer is demonstrated

Bradman Lake says to meet and connect with the experts in packaging equipment, visit its stand at the PPMA Show, where its experienced team will be available to discuss new requirements and recommend the best approach to an application. Live demonstrations, videos and presentations will be available on the stand to demonstrate how the company provides single-source turnkey packaging systems to several industries 'from process to pallet'.

During the show, visitors to the stand will have the opportunity to see live demonstrations of the ZX600 robotic case packer machine which erects, loads and closes cases within a very small factory footprint.

The machine uses a robot that not only collates the products but also preconditions the cases for

reducing inventory, change-over times and maintenance.

The robot and glue systems directly interface with the Rockwell Automation ControlLogix 'PAC' using pre-loaded customised add-on instructions. The same PAC unit is used to control



The ZX600 is demonstrated to show visitors the range of benefits

repeatable carton loading and is used to tuck in the rear top flap for closing. The clever routine for preconditioning the case allows minimal clearance between the product collation and the case, providing cost savings in materials while maximising pallet utilisation.

This system also negates the need for an additional mechanical loading mask and associated size-change parts,

the multi-axis case handling system. It is described by the company as a lean, yet powerful control architecture with no black boxes.

Bradman Lake says this is a great demonstration of one of its recent models in the end-of-line packaging solutions which can be integrated seamlessly with its primary and also secondary systems.

STAND B30

www.bradmanlake.com

SAP supply chain specialists invite visitors to learn more about end-to-end connections

At the PPMA Show, visitors can talk to The Config Team about connecting their hardware with SAP (SAP ECC & S/4HANA) to ensure a truly end-to-end connected manufacturing site or warehouse.

The company offers CodingControl: an SAP certified software solution that automates the data flow between SAP and any number of coding, labelling and printing devices, improving data accuracy and eliminating

costly errors caused by manual entry as well as PreBilt for Plant Maintenance. This is a suite of out-of-the-box mobile apps that can be used to digitise end-to-end SAP processes. With the ability to enhance predictive plant maintenance, the solution helps prevent equipment failures, reduce production downtime and increase operational productivity.



The Config Team will discuss services it offers

STAND A71

www.theconfigteam.co.uk

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SHOW 2021

PPMA Show Preview

28 - 30 SEPT 2021
NEC, BIRMINGHAM
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Automation benefits are the key theme of display

The benefits of automation solutions, which have been so invaluable during the coronavirus pandemic, and which will continue to support companies in fast-moving and increasingly competitive markets, will be the key theme of the Ishida Europe stand at the PPMA Show as the company looks forward to welcoming back customers for face-to-face visits.

Ishida will be displaying latest models from its multihead weigher, checkweigher and x-ray inspection system ranges. All three offer individual benefits – the 28 head CCW-RV multihead weigher has been specifically designed for sugared confectionery; the IX-GN x-ray provides a versatile mid-range quality control and inspection solution; and the DACS-G-Fo15

Ishida Europe is showing three new options and also 'smart' capabilities



checkweigher has been designed to meet private label manufacturing requirements.

And in line with the ongoing move to smart factories, the machines can also be part of a fully integrated and

centrally controlled packing line, designed and installed by Ishida and supported by its Sentinel monitoring software. The Ishida Sentinel Reporting Pack, which is included on all Ishida models free of charge for life, provides instant visibility of live machine performance from anywhere in the world.

STAND D40
www.ishidaeurope.com

Case former makes its first appearance at the PPMA Show

A case former that enables better box performance on a production line and also through the entire distribution system will be a PPMA Show first for WestRock.

The precision mandrel-forming case technology on WestRock's Meta LS case former allows for die cut blanks to be precisely formed into cases around a fixed mandrel, minimising case skew and maximising structural integrity.

"The resulting cases outperform comparable regular slotted cases (RSCs) with increased stacking strength, greater shelf differentiation, improved box performance and fully recyclable materials," explains Paul Chapple, sales manager, automated packaging systems at WestRock. No longer limited to just four-sided cases, users now have the capability to run three-, four-, five-, six-, seven- or even eight-sided cases.

The new forming methodology also allows quick changeover between box sizes, and minimal or no changeover required between box sizes that have similar footprints.

STAND E50
www.linkxpackaging.com

New compact mixer offers manufacturers looking to scale up production a high quality and yet an affordable solution

Winkworth, designer and manufacturer of industrial mixing and blending machinery, will be using this year's PPMA Show to promote a new compact mixer based on a ribbon blender concept, known as the UTS.

Aimed at helping various manufacturers, including food firms looking to add scalability to their businesses, the UTS provides growing companies with an affordable mixer solution, working on the premise that low cost

does not have to mean low quality. Available in either a 100 litre or 240 litre capacity, and with short lead times, the competitively priced UTS operates off three phase (or simple single phase option) supply, providing a food-grade, hand-loading and hand-discharge, versatile solution.

Easy to maintain and with low running costs, Winkworth has added a 5-year mechanical warranty as part of the deal, making the complete package an attractive option for those



A close up of the Winkworth UTS mixer

looking to upscale their output. Also on the stand will be the latest design developments to Winkworth's refiners

range, which includes hinged and retractable options to provide easier maintenance and cleaning.

Company representatives will be on-hand throughout the exhibition to discuss key areas of the Winkworth offering, to include the mixing test centre, mixer hire opportunities, bespoke mixer design and also the availability of used mixers.

STAND A40
www.mixer.co.uk

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To learn more about Zebra's industrial machine vision and fixed scanners portfolio,
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Or see them in action at our partner's stand:
Cobalt Systems | Stand B64 | *PPMA Show 2021*



PPMA Show Preview

28 - 30 SEPT 2021
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Flexible solutions offered to meet sustainable goals

At this year's PPMA Show, BW Flexible Systems invites visitors to challenge the company by bringing their latest sustainable packaging requirements to its stand.

The flexible packaging machines manufacturer has spent considerable time researching recyclable and compostable film structures, such as paper, PP and PE, as well as developing its machine capabilities to form exceptional bags with these eco-forward materials without sacrificing seal quality.

At the same time, the company has continued to develop clever machinery solutions to help its customers reduce film waste, better manage power consumption, and reduce water usage to meet growing sustainability goals.

BW Flexible Systems will be exhibiting its Schib CO50 BB at the exhibition



The CM Verus will be on the stand

which is described as a highly flexible bottom film reel horizontal flow wrapper featuring rotary motion sealers.

Also on display, will be the newest vertical bagger, the continuous motion (CM) Verus which the company says is a modern VFFS flexible packaging solution that offers the proven

performance, quality and robustness of the Hayssen, Sandiacre and Simionato brands with high-speed, continuous motion reliability.

Both of these machines will be on the stand.

BW Flexible Systems is also inviting visitors to ask about its brand new Centre for Technological Excellence. Based in Nottingham, the facility provides customers with the opportunity to collaborate on the configuration and testing of its BW Flexible Systems packaging machinery solutions using their own products and the required film types, prior to installation. In-person and virtual tours of the new facility are available upon request.

STAND D70

www.bwflexiblesystems.com



The PPMA stand is generally busy

Helping visitors to get a productive show experience

Visitors to the event that have queries about a specific project, a list of suppliers or general equipment enquiries should visit the Processing & Packaging Machinery Association (PPMA) stand for advice and answers.

Incorporated in 1987, the PPMA was born out of eight founder member companies and today, it represents over 500 members and has become the voice of the processing and packaging machinery industry in the UK. The association's principle objective is to help members to sell more products and services across a multitude of industry sectors.

Hosting the leading annual trade exhibition for processing and packaging machinery, is all part of this mission.

STAND C100

www.ppma.co.uk



Wrap and Pack's range of films

Film range saves on plastics waste

Wrap and Pack will show its range of films at the PPMA Show which are designed to reduce plastics waste and packaging costs while improving pallet stability and also performance.

STAND C56

www.wrapandpack.net

Label verification system helps food firms to reduce waste, product rejects and any recalls

JentonDimaco will show its robust Veri-PACK label and data verification equipment that checks that all essential pre-printed and overprinted data such as barcodes, dates, prices, weight and content are accurate and legible ensuring that labels are correct on every food package. This helps food manufacturers to reduce waste, costly product rejects, any recalls and repackaging costs.

The systems check text to ensure it is clear and

legible to the standard set by the customer. It then uses Dimaco's unique Veri-CENTRAL database, which coordinates all of this data with producer and retailer databases, to check the variable and non-variable data is accurate.

PREVENTING ERRORS

Not only does Dimaco's label verification system prevent incorrect packs leaving the factory, but it also facilitates end of line packing

automation. Crucial data is checked on every pack and full records of any faults found are kept as well as rejected packs being held for subsequent examination in line with appropriate codes of practice.

It is available as off-line sampling stations, online systems integrated into other packaging machines or as independent conveyerised units with reject devices.

STAND A50

www.dimaco.co.uk

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Reel lifting is made safe and easy...

Packline Materials Handling is a manufacturer of drum handling equipment. The company has been designing and manufacturing lifting and handling equipment since 1993, and with its Compac range of stainless-steel reel handling equipment, says it has established itself as a leading supplier of quality materials handling equipment for the food, drinks, dairy, pharmaceutical and medical processing industries worldwide. The company can provide bespoke lifting and handling solutions for any materials handling issues involving handling rolls or drums; by creating new concepts or tailoring existing lifting and handling equipment to meet specific requirements.

VACUUM LIFTING

Packline can also supply vacuum lifting equipment that is available in stainless steel and mild steel, along with stainless steel stacker trucks available with a range of attachments.

The Compac's purpose-designed compact framework, the positioning of handlebars and the addition of an optional remote-control device makes it easy to move around and offers ease of use for the operator. "It is the small footprint that makes the Compac reel handling equipment highly manoeuvrable and a natural choice for today's narrow production lines and demanding lifting requirements," explains Teresa Winter, director at Packline.

The company says its Compac range of lifting equipment provides handling solutions for most applications.

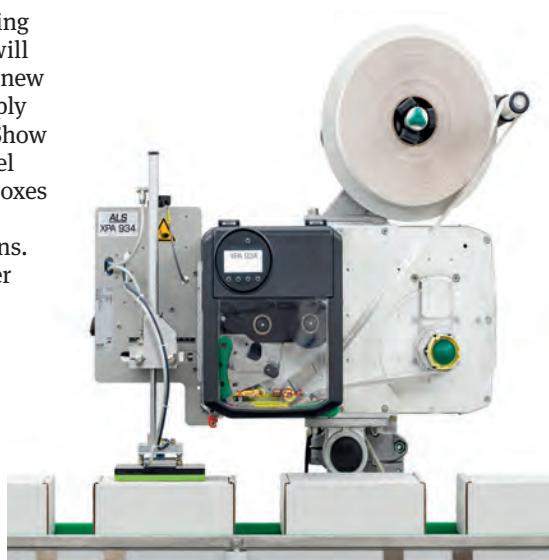
T 01202 307700

W www.packline.co.uk

Print & apply labeller is fast and flexible option

Advanced Labelling Systems (ALS) will demonstrate its new generation print & apply labeller at the PPMA Show that offers precise label application on outer boxes for all manufacturing and logistics operations.

The XPA 934 labeller is a reliable option that can process dynamic data and apply labels quickly and precisely onto virtually any type of product. It is designed to offer excellent print results, even at high application speeds and labels products in real-time. Managing director of ALS Phil Donaldson says it is the most compact print & apply system on the market and can be flexibly integrated onto all production lines. "It is capable of meeting any industrial labelling challenge or supply chain



The XPA 934 print & apply labeller makes its debut at the show

application," he tells *Machinery Update*.

As well as fast and reliable operation, Donaldson says that users can load label rolls and ribbon quicker than any other. "You can change labels and ribbons in under 60 seconds," he explains. Tool-free maintenance is also offered, while the print

module opens wide to allow for easy cleaning.

The labeller is designed to be easy to use for operators and includes an intuitive display that can be rotated 360 degrees. The icon-guided navigation also includes a customer-specific 'favourites' menu. It is readable and operable from any position, even when installed upside down.

A robust housing with a sturdy, all-

metal frame, makes the unit durable while automated settings deliver continuous adjustment of ribbon and label material tension to provide the best print results. Automatic setting of print head parameters such as pressure and contrast, are also offered.

STAND A20

W www.als-uk.com

Baling presses and cardboard shredders are reducing user waste volumes by up to 95%

At the PPMA Show, HSM will be demonstrating how its baling presses and cardboard shredders can reduce the volume of waste by up to 95% while producing a generation of secondary and valuable raw material.

With the HSM ProfiPack packaging machines, used cardboard is converted into high-quality packaging and filling material which, says the company, is a perfect solution for all dispatch and storage. These machines

convert used cardboard into padding, creating packaging



Baling presses and shredders on show

material for universal use. Besides reducing costs, this is a practical contribution to environmental protection.

Cutting and padding are completed in a single step as no time-consuming pre-cutting of the cardboard is required. The finished packaging padding can be used to protect a diverse range of objects: as a padding mat, a padding wrap or for filling hollows.

STAND F50

W www.hsm.eu



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Product inspection and weighing technology offers smart solutions



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www.vision.robatech.com



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GLUING SOLUTIONS **ROBATECH**

Intelligent production solutions will be the focus of the Mettler-Toledo stand at the PPMA Show where the company's product inspection, industrial weighing and service divisions will together display new technology for the engineering, food and pharmaceutical manufacturing sectors.

New product inspection options on show will include a metal detection system which brings advanced sensitivity and smart intelligence to an entry level detection platform along with a 'triple combination' checkweighing metal detection system with product data check smart camera. This is based on Mettler-Toledo's modular C-Series checkweighing frame, and incorporates checkweighing, metal detection and vision inspection in a single machine to combat production line space constraints.

INDUSTRIAL WEIGHERS

The industrial weighing division will display SmartShelf which is a real-time inventory management system based on load cell weighing and the Portion Control System, which enhances efficiency and production quality in food assembly lines. Visitors will also be able to view the Rapid Cal Tank, a weighing vessel that can be calibrated in a matter of hours.

These solutions are complemented by intuitive software solutions for formulation and recipe management to enhance quality control plus a robotic arm weighing cell.

Service experts will also be on hand during the event.

STAND H70

www.mt.com/uk-ppma

Bagging machine offers speedy set-up and is easy to changeover

PFM Packaging Machinery's latest bagging system will be the star attraction among the company's range of automated solutions for the food and non-food sectors on its stand at this year's PPMA Show.

Leading the line-up of equipment, the new Azimuth EVO follows the same design concept as the R Series bagging machine, offering reduced downtime for reel changes, automatic film web tracking and a space-saving factory footprint.

Azimuth EVO's automated film reel set-up eliminates one of the most difficult and time-consuming tasks for operators, cutting changeover time substantially and virtually eliminating film wastage as operators get film edges into alignment. This, says the company, is important for stand-up, four-side-seal bags which are becoming increasingly popular for a wide range of product applications.

The Azimuth EVO vertical



The new Azimuth EVO will make its debut at the NEC

form, fill and seal machine exploits the latest ultrasound technology to precisely monitor the exact position of the film on the forming tube. The software constantly checks the data received to automatically correct the film position.

The machine's dancing roller compensates for the

continuous reel movement with the alternated intermittent action of the film pulling belts and is electronically managed to ensure that the film tension is maintained at all times.

This means no more adjustment, calibration or wear problems. And, as the production speed changes, the sealing time remains the same and, therefore,

the sealing temperature remains constant. The result is a perfect pack, every time at up to 95 packs per minute.

Also being promoted at the show is the latest version of the flexible Pearl flow wrapper, designed in stainless steel for hygiene benefits, making it suitable for food, cosmetics, pharmaceuticals,

durables and also many houseware items.

High speed, versatile and capable of up to 120 cycles a minute, the Pearl was developed by PFM to provide all the efficiency advantages of multi-axis servo drive, but at an entry level cost.

Additional exhibits include the ever-popular PFM Scirocco, an inverted web MAP flow wrapper for a wide range of products from milk and cheese to wet wipes, which can produce up to 200 hermetically sealed bags per minute. Finally, the latest generation PFM C2 multi-head weigher, specifically designed for high-speed and precision weighing of granules, pellets and similar products will complete the stand display.

Both the UK and the Irish Republic are covered from PFM's Leeds headquarters with sales and servicing of a range of equipment to help manufacturers cut costs and reduce pack wastage.

STAND C20

www.pfmuk.com

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High-speed door range offers efficient movement of goods

Efaflex UK returns to the PPMA Show this year where three of its most popular high-speed doors used within the packaging and processing sector will be in action.

Visitors to the stand will see the high-speed spiral featuring EFA-THERM insulating laths, the EFA-STT turbo, and also the fabric roll up option.

“There is nothing quite like seeing our high-speed doors in action,” says Darren Turrell, UK managing director at the company. “The PPMA Show gives us this opportunity to meet with customers and discuss their specific requirements.”

Each order is manufactured bespoke to each customer requirement. “Our high-speed doors are a premium brand, but when you factor in the whole life cost savings, such as radically reduced energy costs due to their operating speeds and insulation properties, they are a cost-effective option,” he says.



Machine protection solutions are offered by the door manufacturer Efaflex

“60% of our orders are from customers who have made this calculation and chosen to replace old roller shutters or overhead sectional doors because of the many benefits that an Efaflex door will offer.”

Efaflex says its high-speed doors help to reduce the risk of workplace incidents while optimising workflow.

“Consider too that incidents can not only cause injuries to people, but they can result in unwanted costly downtime, which can have an unexpected knock-on effect that ripples throughout the processing facility,” explains Turrell.

Key features of the Efaflex processing & logistics door solutions include:

- A complete range of doors to suit every aspect of the facility
- Internal roll up doors or exterior spiral and folding models available
- Machine protection solutions to add safety in higher risk areas
- A range of activation methods to suit client needs
- A selection of colours and finishes.

The range is suitable across a facility, from loading bay to logistics through to production and packaging areas.

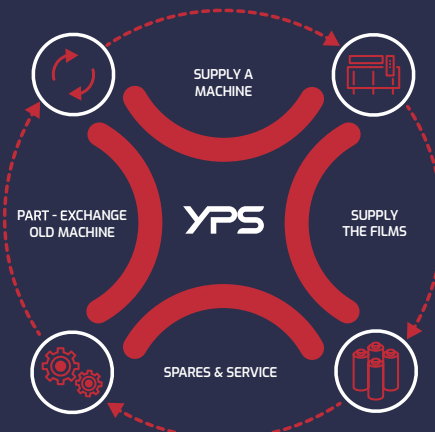
“Warehouse and logistics clients operate in an environment that continually expects shorter and shorter delivery lead times, while finding ways to improve and streamline processes, enhance operational performance and bottom line,” explains Turrell. “Our doors help to facilitate the fast and efficient movement of goods while minimising the risk of incidents.”

STAND J62

www.efaflex.co.uk

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The company can also supply fully integrated and bespoke filling, capping, labelling, sleeving, shrink wrapping, feeding, wrapping, cartoning, palletising and ancillary equipment which visitors can discuss on its stand at this year's PPMA Show. The company says it is committed to providing efficient packaging machinery that brings a rapid return on investment, no matter how big or small an operation. "We will provide you with tailored production lines from high-quality equipment that will perform efficiently without compromising on safety or accuracy," says managing director at the company Tom Smith.



A full range on the company's stand

On the stand, the company will be demonstrating the following:

- ELF-50 desktop wraparound labelling machine
- PRO-625W front, back and wraparound labelling system
- FL-101 12-head automatic filling machine with positive close nozzles
- FL-14 compact automatic filling machine
- CP-10 semi-automatic capping machine
- AF-300 friction feeder.

STAND A30

www.advanceddynamics.co.uk



Take a look at the future of automation

Your first step towards switching to robots

Robotic manufacturing and logistics solutions are opening new possibilities to satisfy the demands of today's consumers for fast delivery of a wide range of personalised goods.

If you are visiting the 2021 PPMA show, you can also meet us at stand E70 from Tuesday 28th September – Thursday 30th September 2021 at the NEC in Birmingham. If you cannot make this show, make sure to visit our virtual stand at https://bit.ly/ABB_PPMA2021

Metal detection systems meet a multitude of sector demands

Metal Detection Services, the UK CEIA distributor, is delighted to be back at the PPMA Show this September and looking forward to meeting up face-to-face with friends and colleagues from across the industry.

With many important updates to the CEIA range on show, visitors will be able to see live demonstrations of the latest additions to its metal detection systems. MDS/CEIA will also be reminding visitors to its stand about the importance of testing their metal detection systems to ensure they are working properly.

"Testing metal detection systems are working correctly is a vital part of any quality control procedures on a production line," says David Hale, sales director at MDS. "All of MDS/CEIA's metal detection systems for the food industry come with a fail-safe menu as standard which leads the operator through the various necessary fail-safe tests in a simple

step-by-step process.

"The result is that the operator is less likely to make mistakes when carrying out the checks," he continues. "This is particularly helpful in an audit setting where the correct functioning of the detection systems must be demonstrated."

Visitors to the PPMA Show stand will see many items of equipment first-hand, several of which will be in operation. This time, the MDS/CEIA stand will include:

- CEIA's core product, the MS21 Multi-Spectrum technology metal detection system built to the latest retailer codes of practice (COP) and BRC



MDS/CEIA will stress the importance of detector testing

- The new reduced height G series throat detectors and the PH21 N detector ranges, designed for the pharmaceutical and nutrition market, will also be featured. Covering inspection solutions for tablet and capsule inspection together with free fall systems for in-process protection for powdered products
- A multi frequency THS21 E metal detector built to the latest retail COP
- For off-line testing for QA and re-work applications, there will be a small MS21 system in operation
- For the textile industry, MDS will be showing the latest textile metal detector head – the TE SLDW. With its low profile and compact design, the unit is ideal for tight spaces and is widely used in sheet production lines for both film and textile applications.

STAND E10
www.mds.org.uk

Remote maintenance that isn't complex or costly will be highlighted to show how response times can be improved

B&R Automation will be highlighting the benefits of remote maintenance on its stand and visitors can discuss its solution which is designed to deliver remote maintenance that is easy to deploy while at the same time providing the necessary security.

The hardware and software involved can be combined and scaled freely and tailored to each user's unique situation. "In a few steps, the remote maintenance solution is up and running and it can connect to



Visitors to B&R Automation can discuss the new remote maintenance solution

plants and machinery from any PC, smartphone or tablet," explains René Blaschke, product manager for industrial IoT at the company.

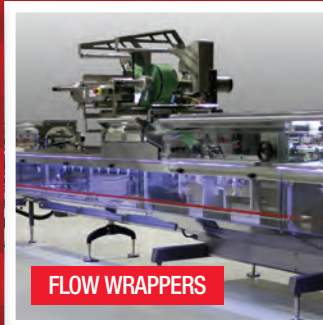
This new solution has been developed so machine builders can avoid flying service technicians and engineers halfway around the world to service and maintain equipment. Assets in the field can also be retrofitted with Secure Remote Maintenance.

STAND E70
www.br-automation.com

FROM PROCESS TO PALLET



FEEDING SYSTEMS



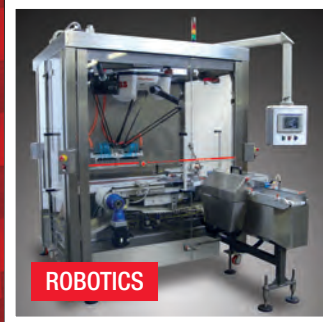
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STAND B-30



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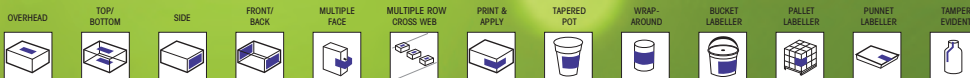
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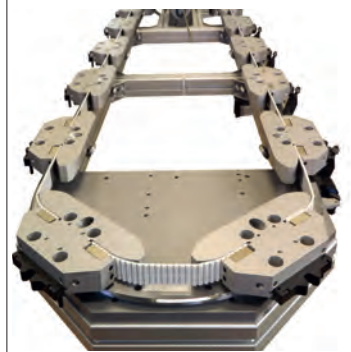


See us at PPMA Stand B22

HepcoMotion's core components used by designers of packaging and processing machinery will be showcased at this year's PPMA Show.

Its accurate GV3 linear guide will be on the stand; a product widely used in the packaging industry for applications such as a telescopic pick and place gantry, a transport system or a multi-lane row divider.

Also on the stand will be Hepco's V based bearings which have a special wiping action to expel debris. This keeps a machine running to meet user needs for machine efficiency, reliability and constant throughput.



The DTS2 track system is displayed

HepcoMotion's DTS2 driven track system on show is described as an ideal choice for a food or packaging application that requires high positional accuracy and a demanding duty cycle. It is ideally suited to form the foundation of an automated production cell, to guide and transfer a component around the system between processes.

With a large range of linear, circular, heavy duty and XYZ systems, as well as actuators and automation solutions, HepcoMotion says it has a product to meet practically any environment.

STAND F32

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www.labeller.co.uk

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Mozzarella line will join a one-step beer filtration system on the stand

AVE UK will showcase two solutions for the food and beverage sector at the PPMA Show with the launch of its OMNIA B cross flow filtration system for brewers along with a special mozzarella ball processing line that will be of interest to processing and dairy visitors.

Designed to recreate the high-spec taste, presentation and texture of traditional Italian mozzarella within a modern UK setting,



A mozzarella line on show will be delivered to Fratelli Amodio straight after

the mozzarella line comprises six individual systems including an automatic coagulation vat, drainage trolley, whey recovery system, cradle coagulation vat, ricotta trolleys and salting cheese vats.

This will be the only opportunity to see the line in its entirety before it is delivered to the London-based Italian mozzarella manufacturers Fratelli

Amodio, straight after the show.

“Innovation doesn’t have to mean creating a new technique – for this project, it was essential that our solution respects and reproduces the traditional methods of mozzarella making to replicate the true flavours of Italy right here in the UK, while also incorporating the safety, efficiency and reliability requested by today’s market,” explains Steve Bradley, AVE UK’s sales director. “It’s about cutting cost and waste, not taste and quality.”

Also on display will be AVE’s special OMNIA B cross flow filtration system which delivers beer clarification, product recovery and microbiological stability in one single solution. Incorporating ceramic membrane technology with a five-year guarantee, this compact automated filter enables beer producers of all sizes to increase their yield by maximising product recovery from lees, as well as significantly limiting the Biological Oxygen Demand of brewery effluent.

“As part of the Della Toffola Group, AVE combines 60 years’ experience in the dairy and brewing sectors with the latest smart technology to deliver ultra-hygienic, cutting-edge processing solutions to food & beverage businesses of all sizes,” says Bradley. “We look forward to showcasing our unique solutions to visitors to our stand in September.”

STAND B40
www.aveuk.net



The cross flow filtration system



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Elesa's full range will be shown

Standard and specialist components

Elesa is demonstrating a full selection of standard and specialist components suited to equipment used across the processing and packaging industries at the PPMA Show.

The company's standard components for packaging, bottling and labelling machines in the food and pharmaceutical sectors include rotary controls such as digital, or LCD digital reading and wireless connected position indicators, with direct drive movement. It also offers analogue or digital-analogue reading position indicators that can be assembled to handwheels for coupling to a drive shaft.

Also on show will be its extensive range of handwheels, clamping knobs, adjustable levers, bridge or tubular handles as well as guard safety power interlock hinges, panel support clamps, and flush pull handles. Control elements of various types will feature, alongside levelling feet, castors, lobe handles, and castors/wheels that are available in techno polymer, aluminium or stainless steel.

Elesa's components are used to set and regulate a wide variety of machine functions and for all manoeuvring, clamping and control operations even in sectors requiring the use of corrosion-resistant materials in compliance with the most rigorous international hygiene laws.

STAND E01

www.elesa.com

New R&D facility delivers project gains for customers

Visitors to Multipond's stand can discuss the benefits customers can now gain from its recent investment in a major Research & Development facility at its High Wycombe site which is now fully operational.

As requirements for turnkey project solutions are becoming more extensive and more complex, this new R&D facility offers prospective customers an environment to test elements of their projects while in development.

"Customers are increasingly looking for a turnkey solution for their requirements and the new unit offers the ability to show not only multihead weighers in isolation, but also feeding systems, hygienic platforms, transfer systems, packaging machines and ancillary equipment from partner companies," explains managing director for Multipond in the UK Geoff Tandy.

For instance, the new facility is equipped with a fully operational tray line,



A VR area allows customers to 'walk' their project before it is manufactured

consisting of a Multipond multihead weigher, the MP-24-100-400-J, on an hygienic platform with wash walls for product contact parts. The infeed system is a low-level vibrator hopper with a new servo-driven Syspal fixed bin tipper into a two stage vibratory feed allowing product to be perfectly controlled to the Multipond weigher.

The line also consists of an in-tray denester, a filling conveyor/tray sealer from Packaging Automation and a checkweigher/x-ray/metal detection unit from Anritsu.

A bagging line is also available consisting of a Multipond MP14-7100-2500-J weigher with two stage vibratory feed and a GIC bagger.

STAND D30

www.multipond.com

Tray inspection solution using hyperspectral imaging detects contamination in tray seals

Specialist in non-destructive in-line seal inspection for flexible packaging Engilico will present a new tray inspection solution at the PPMA Show.

The inspection solution uses hyperspectral imaging (HSI) technology to detect contamination in the seal of trays with, says the company, a much higher contrast than standard vision cameras. Even with printed plastics foils – when contamination is

hardly visible for traditional vision-based systems – seal contamination can be detected by a hyperspectral camera.

Typical applications include in-line inspection of trays or pots containing meat, fish, cheese and vegetables.

Engilico believes that the automatic detection of automated seals is important for both food safety and also production automation across packaging.

STAND H52

www.engilico.com

The unit uses HSI





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Hygienic and versatile connector solutions for food and beverages

Harting will be focusing on its Han F+B range of connectors which have been specially designed to meet the needs of the food processing, bottling and packaging industries during the PPMA Show.

The range is Ecolab approved, and so is resistant to the highly aggressive cleaning agents used in the food and splash zones of factories. As the housings are constructed from polypropylene, they conform to the directives of FDA 21 and all hoods, housings and seals are IP69K rated, so the connections are fully protected and resistant to the water jets used to clean factory equipment.

As well as hygiene, Harting has also considered the impact of machine downtime by designing in features which keep production line disruption down to a minimum.

Food and drink manufacturers are increasingly looking for



The Han F+B range is designed to minimise any production line disruption

solutions which allow them to embrace flexible schedules and smaller batch production runs, which means businesses must become adaptable to meet these demands. As a result, the ability to quickly attach and detach connectors is vital if costly production downtime is to be avoided.

Operators no longer need to open any cable glands on the control cabinet to decouple field devices, eliminating the issues associated with fixed

wiring. This solution also allows for faster replacement of defective components and a more efficient configuration when changing components.

The housings can be used with hybrid contact inserts for all types of industrial transmission, including data, signal and power; a versatile connector concept which makes it possible to configure future-proof machine design for processing units, including Ethernet, says the company.

Harting also offers Han F+B Hybrid Ethernet, signal, and power integrated cable assemblies. These 'Plug & Play' assemblies are 100% tested to guarantee high quality standards and are available in customised lengths.

The company has also put together a whitepaper that gives more detailed information and guidelines about using connections in the food and beverage industries which are intended to ensure that the processed food is optimally protected against contamination.

The whitepaper explains the basic principles for using connectors in food processing applications and contains the information required by users to assemble connectors and cables safely and in a standardised manner within their facilities.

It is free to download at: www.harting.com/UK/en-gb/connectors-food-industry.

STAND F01
www.harting.com



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Barcode labelling options are an automation problem solver

Barcode labeller manufacturer Cobalt Systems will showcase its industrial automation solutions on its stand at the PPMA Show.

As a UK manufacturer of print and apply labelling solutions, Cobalt Systems will be demonstrating a wealth of options to support the current issues being experienced in the industry from Brexit to the pandemic.

"We invite anyone looking to explore industrial packaging automation opportunities to visit our stand," says Cobalt's sales director Chris Hunt.

"As a team of experienced problem solvers, we thrive on talking to clients about their plans and challenges.



Print & apply using Cobalt options

"When companies talk to us earlier in their production line projects, we can make a considerable difference to their throughput and particularly to their ROI," he claims. "Fixed price servicing and leasing options are just a couple of ways in which Cobalt's solutions make it easier for manufacturers.

"The last 18 months have been a challenge for everyone and it's great to see the excitement about people coming together as an industry once again and re-establishing those connections at the show."

STAND B64

www.cobaltis.co.uk



STAND G12



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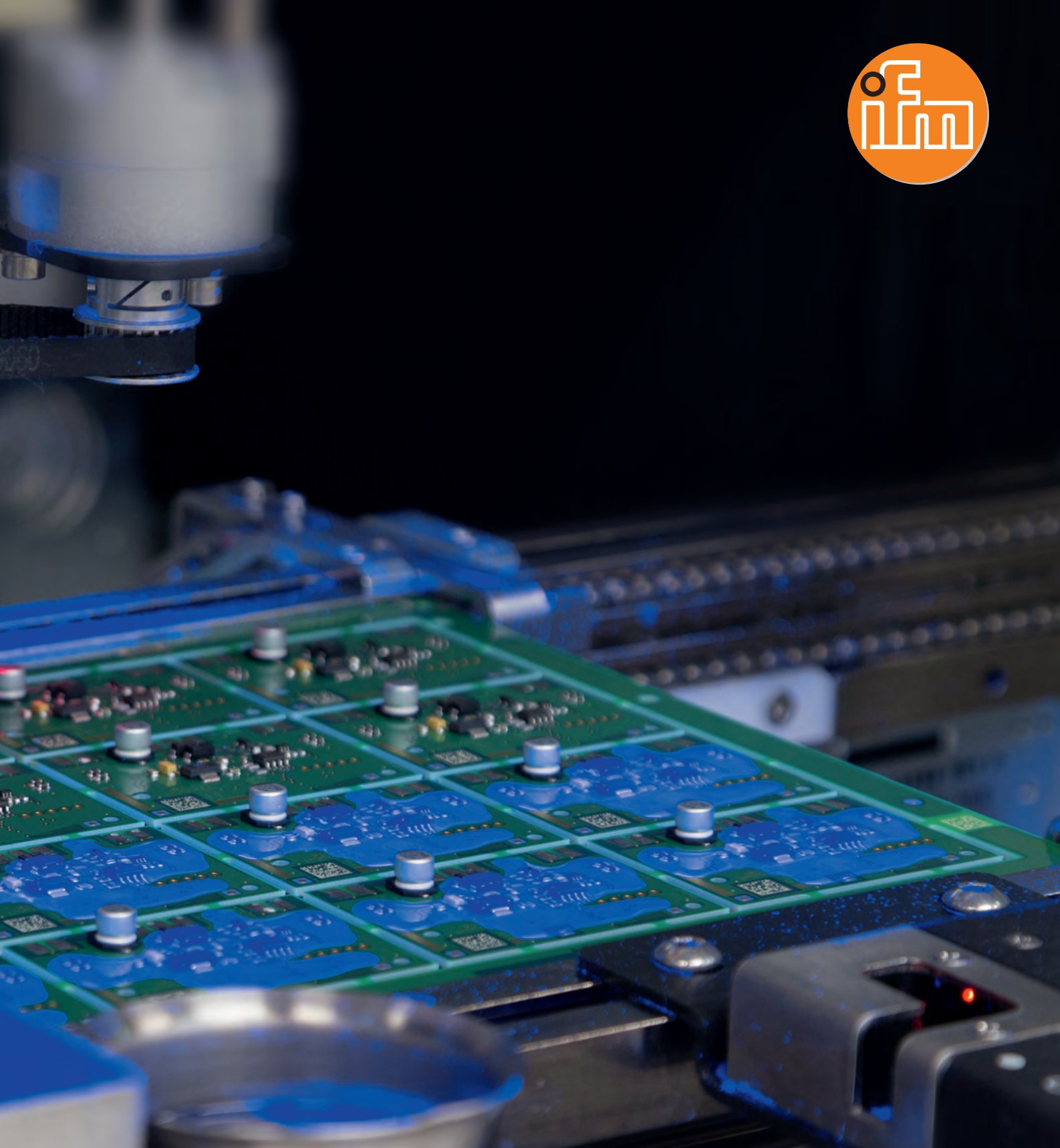
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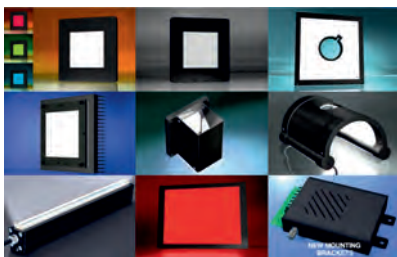
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Pallet labeller launch offers 'smart' benefit

At this year's PPMA Show, Clearmark will celebrate its 20th anniversary by entering into the logistics labelling space with the launch of the ICE Vector pallet labelling system.

The company says its ICE Vector brings a new high performance, low maintenance tertiary option to the marketplace that is exceptionally easy to integrate with line and warehouse management systems. ICE Vector completes Clearmark's coding portfolio, enabling customers to benefit from joined-up coding solutions across its primary, secondary and tertiary operations.

Special engineering differentiators makes the ICE Vector a high-performance system including: a climate controlled cabin to ensure consistent print quality; a robust long-reach cartesian-style arm to guarantee GS1 specification label placement on all pallet configurations; a dual operator interface for continual working during ribbon/label reel changes and an intelligent I/O system to communicate seamlessly with today's highly automated warehouse operations.

The new system promises to deliver an attractive ROI for any high-throughput operation looking to automate its pallet labelling process, from food, beverage and pharmaceutical factories, to supply chain and logistics operations. Powerful, reliable performance and seamless integration with factory warehouse management systems are the bedrock of the ICE Vector advantage.



The pallet labelling system has a small footprint



The pneumatic guard protects the print engine from dust

It is powered by the ICE Vulcan print engine, which is billed by Clearmark as the fastest in its class.

With a compact footprint of just 1125 mm x 875 mm and operational speeds of up to 100 pallets an hour, it can perform up to four label applications per pallet, with two adjacent sides to conform to GS1 specifications for SSCC pallet labelling or three sides for customer specific applications.

The system is designed as a robust, fully enclosed unit, thanks to a pneumatic guard protecting the print engine from dust and environmental conditions. Optimum conditions within the enclosure are maintained via a thermostatically controlled heater (as standard) with the doors only opening at the point when the ICE Vector is ready to label.

With a label arm reach of 650 mm out of the enclosure via a sturdy 2 axis cartesian guided motion control system, label placement is accurate and repeatable on a wide range of pallet configurations.

STAND D72

www.clearmark.uk/vector

Latest mobile access platform will make its debut at the PPMA Show

Lift Safe is showcasing one of its new range of mobile access platforms at the PPMA Show. The self-propelled MA50 is designed for use by one person, providing a maximum working height of five metres, has automatic parking brakes and can be fully elevated in 16 seconds. Weighing just 380 kg, it is designed for working on floors with low weight-bearing capabilities. The compact machine easily passes through standard doorways and can be transported between floors in passenger elevators. Quiet and clean, it runs on 12V battery power and noise is restricted to a maximum of 70 decibels (dB).



See the new MA50 access platform

Along with the MA50, Lift Safe is exhibiting a variety of stainless steel and IP-rated lifting equipment, as well as a range of reel and roll lifters, plus the Orbit 0.5T swivel floor crane. This is a heavy-duty, 270 degree swivel crane with a lift capacity of 500 kg, making it easy to lift and position moulds and spare parts. It is also ideal for placing products on presses, lathes and milling machines.

STAND E38

www.liftsafe.net

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Stand B20



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Partnership develops cobot palletiser in answer to end-of-line labour issues

Responding to manufacturers' end-of-line labour challenges including staff shortages, social distancing measures and self-isolation, Omron UK will debut its cobot palletiser that it describes as 'game changing'.

Thanks to the company's iAutomation proprietary technology, the RB1200 cobot system boasts a 50% cost saving, rapid delivery within weeks and plug-and-play system architecture to help businesses of all budgets and sizes immediately de-risk their line against today's unprecedented labour challenges.

Omron believes the RB1200 introduction could not be timelier. Companies are navigating social distancing guidelines amid high vacancy rates compounded by Brexit and the long-term skills shortage, putting pressure on existing staff and affecting productivity. Adding to manufacturers' anxiety is the risk of production being



Omron's RB1200 cobot palletiser makes its debut at this year's PPMA Show

halted entirely due to an on-site COVID-19 outbreak or high numbers of staff self-isolating; events which are outside of their control.

The RB1200 was developed in partnership with Omron's automation partner Reeco. Together, the two companies have designed a cobot palletiser that makes manufacturers resilient to the detrimental effects of

both labour shortages and the possibility of immediate workforce interruptions. "Using our 3i concept of intelligent, integrated and interactive engineering methods has dramatically shortened system design and delivery time resulting in a 50% cost reduction compared to same spec cobot palletisers," explains Dan Rossek of Omron UK.

A modular, plug-and-play solution, the RB1200 has a maximum payload of 10 kg and a cycle time of 12 picks per minute. It requires no system integration and boasts a 60% smaller footprint than conventional robot palletisers. Its inherent flexibility also means it can easily switch between lines and handle rapid changes in demand to maximise user investment.

In addition to its automated palletising solution, Omron will also showcase the Quattro; its fastest and most flexible Delta pick-and-place robot. With a pick rate of 300 per minute and the only Delta robot to be USDA-certified, the Quattro's fourth arm allows it to reach up to 30% further than traditional designs, facilitating a larger operational area.

The powerful combination of speed, manipulation, reach and a 15 kg payload make it ideal for any general packaging application.

STAND B34

www.industrial.omron.co.uk

New powder mix option that minimises product handling requirements will join other powder/liquid mixers on stand

At this year's PPMA Show, Silverson Machines will be launching a new version of its Flashmix unit which is now supplied with a powder feed wand attachment for powder incorporation, rather than the standard hopper. This enables the machine to suck powders into the mix straight from their original containers, minimising handling requirements for users. This is particularly useful for free-flowing powders which are prone to



A powder feed wand attachment makes life easier for users

dusting, for example Aerosil. Other applications include sugars, salt and gums and

thickeners such as pectin and starch.

Also on the stand will be the new FMX5 laboratory scale version of Silverson's production

effective and hygienic means of powder/liquid mixing on a laboratory scale. This mixer is also suitable for small scale manufacturing and R&D work with a typical batch size of up to 10 litres, depending on product viscosity.

Visitors will also be able to see working examples of the other Silverson mixers from its range including Batch, Ultramix, Bottom Entry and Laboratory units.

STAND G60

www.silverson.co.uk

scale Flashmix mixers that was launched earlier this year. It provides a simple,



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Interroll is presenting its energy-efficient drive technology at the exhibition

Modular range brings benefits

Materials handling company Interroll is exhibiting its energy-efficient drive technology for roller and belt conveyors and modular conveyor platform concept at the PPMA Show.

The new RollerDrive EC5000 motor roller product range is at the core of zero-pressure-accumulation (ZPA) conveyors with individually driven conveyor zones. Whether in the 48V or 24V version, with analogue or bus interface, these drives in three power levels enable users to meet virtually any requirement within roller conveyor applications, says the company.

Compact, ultra-hygienic drum motors will also be presented. These drives are designed for use in belt conveyors and conveyor systems and are installed directly in the frame of the conveyor to save space. The wide range of speeds covers a wide variety of applications in industry, as well as in food processing and empty goods systems.

Conveyor modules from Interroll that offer enormous versatility with straight lines, curves, merges and transfers will also be featured.

STAND C76
www.interroll.co.uk

Equipment to wrap and bag in a multitude of materials

This year, Friedheim International has the latest developments from its flagship packaging machinery partner Beck Packautomaten on its stand, while visitors can also discuss the automated poly bagging equipment from Sharp Packaging and bespoke systems from DM Pack.

At the show, Beck will introduce a paper wrapping solution called the Beck SXJ paperbag st. This machine can pack products in different sizes in paper bags with sturdy

seams and without using any additional consumables such as adhesive or thread. It has a compact layout, is easy to operate and maintain, and is a cost-efficient option which can also include a printing and labelling system.

Meanwhile, the Sharp Packaging by Pregis range includes poly bags and flexible packaging equipment from semi-automatic machines to complete inline systems.

STAND F30
www.friedheimpackaging.co.uk



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The upgraded Good for Food range will be shown to exhibition visitors

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End Load Cartoner

Dustcontrol UK is set to exhibit its upgraded process extraction and general cleaning range at this year's PPMA Show.

The team will be showcasing the firm's evolved GFF (Good for Food) range of food and pharma grade dust extraction accessories and equipment which is designed to offer efficient dust extraction and cleaning of food contact areas that previously may not have been allowed, while also opening up the possibility for recycling.

When fully integrated with all GFF components, the system includes flap valves, suction brushes, flat nozzles, hose connectors, tubing system, joints, pre-separator, automatic shutter valves and filter units.

FDA COMPLIANT

The GFF brushes are FDA compliant, antistatic and ESD certified, with a material composition that makes them detectable via metal detector as well as being autoclavable up to 121deg C, which allows for high-pressure saturated steam cleaning. Their colour coding, which cover five handle colours and two interchangeable brush colours, also allows for different applications in the factory, or different days of the week depending on the specific need.

The company will also be showcasing its range of high performance and high containment centralised vacuum systems and mobile dust extractors.

The company has almost 50 years of experience in developing dust extraction solutions and centralised vacuum systems to fit client requirements.

STAND F34

www.dustcontroluk.co.uk

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www.keymac.co.uk

Depositors and pumps meet food sector needs

Riggs Autopack will be exhibiting volumetric depositors and transfer pumps at this year's PPMA Show. The company says that if you are a small, medium or large-scale food manufacturer seeking a high-quality machine to accurately fill jars, bottles, pots, tubs, ready meal trays, cake tins, buckets, jerry cans, pouches or bags, then a visit to its stand would be well worthwhile. On the stand, visitors will find a varied range of semi and fully automatic depositors, designed for all sizes of food producers. The Model 1000 depositors are designed for artisans and start-ups that need small batch runs with quick product changeovers, through to medium to large scale food producers that use conveyor filling lines and off-line depositors. They provide damage free depositing of hot or cold liquid, semi-liquids and suspended solid food products, and accurately fill most types or size of container. This Model 1000 range of



The Riggs Autopack Model 1000 range will be demonstrated on the stand at the PPMA Show

transfer pumps is designed for small, medium or large-scale food producers, and to keep in-line with health and safety regulations, they eliminate the need for

operators to handle products manually. In operation, they provide damage free transfer of hot or cold liquid, semi-liquid and suspended solid food products. They are designed to take product directly from tote bins, IBC's and cooking kettle outlets, and transfer it into low or high-level depositor hoppers. "With exceptional performance, reliability, hygiene and build quality, Riggs Autopack's filling machinery has provided increased production capacity for a huge variety of food producers over the decades," explains Scott Riley, marketing manager at the company. **STAND A21** www.riggsautopack.co.uk



Smaller volumes can be handled

Lightweight bagger can be booked for site demonstrations

The Schur StarLight machine will be in operation on Schur Star Systems' PPMA Show stand. This wheelable, small footprint machine, is said to be ideal for companies looking for an easy-to-go solution to bring into efficient operation from day one. A solution that despite the low investment still offers automation, adaptability, and flexibility.

Bags produced on this unit always come with a zipper, in a variety of constructions, and with various features.

To demonstrate how compact and lightweight the machine is, sales manager James Khela is touring the UK with the machine in a van, and visitors can make a post-show appointment for their own site visit.

STAND D46

www.schur.com



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A50

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SEALING

Two horizontal flow wrappers demonstrate user advantages

Paramount Packaging Systems, the UK and Ireland's exclusive distributor of Fuji's horizontal flow wrapping equipment, will be exhibiting next-generation Alpha 8 packaging machines at the PPMA Show.

Two machines from the range will be on show – a FW3410B standard film from above, and a FW3710BSB inverted film from below model.

The Alpha 8 range includes over 25 different models, all based on a common electrical system, fully computer-controlled with 7 servo motors.

"Whatever your product or equipment requirement, the Alpha 8 series can suit," says Aaron Bessell, the sales director at Paramount Packaging Systems.

The range includes a 3-side seal, 4-side seal and a high speed box motion model, which are able to produce 400 hermetically sealed packs per minute. To complement

Fuji's Alpha 8 range is available in the UK and Ireland from Paramount Packaging Systems



Fuji's range of flow wrappers, is a range of infeed and buffering systems to fully automate product collation and feeding, increasing speed, efficiencies and reducing labour requirements.

At the PPMA Show, the company will be showing a Yamato semi-automatic table-top Dataweigh system alongside its wrappers.

This Yamato TSD-N3TM series is an ideal combination scale for fixed weight food packs that enables operators to increase the total production of packages, with the same amount of materials,

by reducing weighing loss. Alongside this, the reduction in labour is dramatic too, resulting in efficiency gains.

Much like the Fuji Alpha 8 series, the weigher is flexible and can be used across a variety of industries, in particular; fresh produce and meat, fish and poultry.

The Yamato-Fuji duo will be fully integrated with each other and accessible across the three-day event, demonstrating the seamless transition of a product being weighed, to packed and sealed, based on the target package weight, using the optimum amount of biodegradable film.

"We're excited to be back at the PPMA Show after last year's cancellation, and we are all looking forward to seeing new and existing customers," says Bessell. "We saw a fourfold increase in the number of visitors to the stand in 2019, and we're hoping to experience that again this year with the Fuji wrappers and the Yamato prefeed system on display on our stand."

"It's a fantastic setup for those looking to implement labour-saving automation into their production facility."

STAND F20

www.paramount-packaging.co.uk

The mixers are designed to provide maximum efficiency, they are easy to clean and they are also simple to operate

Visitors to the John R Boone stand at the PPMA Show can discuss the range of mixers that it describes as highly efficient, easy to clean and simple to operate.

These mixers are used for a wide range of products including powders, granules, pastes and sauces with optional features such as pressure or vacuum processing with heating or cooling easily added.

Quick and simple mixing and cleaning is delivered



The easy to use Helical blade mixer from John R Boone

in the mixing blade design of the Helical and Delta blade mixers which incorporate the patented easy to clean plate arm attachment and also in the gentle mixing and complete discharge of the rotary

drum blenders. Cleaning is assisted by large access doors, polished and mirror finishes, together with liquid and air CIP systems which can be fixed or removable from the mixers.

The range also includes the very low shear drum mixer and the high shear Delta blade mixer with refiners to provide batch sizes from 2 to 10,000 litre and continuous mixers up to 250 tons per hour.

STAND A15

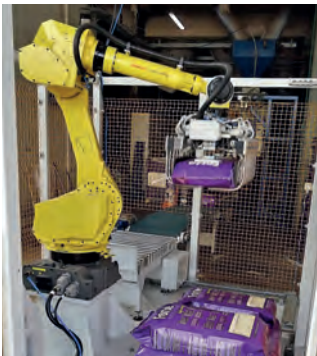
www.jrboone.com

An entry-level palletising robotic system delivers quick user returns

Showing its entry-level, plug & play robotic palletising system at this year's PPMA Show, Endline Robotics will demonstrate the benefits of automation, and the quick return on investment that can be achieved.

On the back of its strategic partnership with Fanuc UK, the company says it is answering calls for flexible robotic solutions which improve productivity and efficiency through its 1000 series of three robotic palletising solutions.

From this series, visitors to the stand will be able to view the entry-level, 1001 robotic palletiser which is ideal for small-to-medium production.



The 1001 robotic palletiser is shown

Designed to handle various pre-defined products with quick changeovers, the 1001 receives product directly from the production line and palletises on a pallet stationed on the floor. At speeds of up to 12 cycles per minute, the robotic arm provides precise product handling of carton boxes, display boxes, trays, multipacks, bags, and totes.

Endline Robotics will share the stand with parent company Endline Automation, who is celebrating its 40th anniversary this year.

STAND D60

www.endline-robotics.com



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Augmented reality is taking centre stage...



Live demos of the Augmented Machine Assistance Package will be available, and these can be booked in advance

At this year's PPMA Show Cama Group will be showcasing the next evolution of its class-leading augmented reality (AR) solutions for visitors.

With augmented reality and virtualisation already proving invaluable across the design, build, commissioning, testing and operational phases of its Breakthrough Generation secondary packaging machines, Cama is now offering immersive, line side support for warranty, spares and consumables, through its Augmented Machine Assistance Package.

"This technology is the next step in our machine portfolio's evolutionary roadmap," explains Massimo Monguzzi, R&D manager at Cama, "and it will add a new support dimension to our existing immersive 3D offering.

"Our existing AR technologies have proved essential over the last 18 months with vast amounts of remote interactions between our factory in Italy and customers all over the globe, so it comes as no surprise that ongoing support is now an essential part of the equation."

In practice, an Augmented

Reality assistant uses inputs, including the working time of the machine, to alert operators that user-serviceable elements require replacement, based on MTBF (mean time between failure) or warranty guidelines. When an item is due to be replaced, the user is alerted and given the option to modify the quantities.

AUTOMATED CONTACT

The system then initiates contact with Cama, where an automatic e-mail generates a ticket with the serial number of the part, the machine ID, the plant, the customer ID and the number of parts required. Once the ticket has been issued, a Cama service manager will contact a customer representative.

Security is obviously a concern for many customers, and Cama says it has put this at the forefront of this service development. The machine itself does not need to connect to an external network, instead, it is just the AR tool that requires the connection – most often a tablet, although the software can be installed on a wide variety of devices.

The operator can extract

the operational information in one of three ways:

1. Machine runtime is manually entered, and the software calculates spares requirements
 2. Machine generates a QR code, which contains the necessary operational parameters
 3. A future development will see direct communication between the machine and the AR tool. This will be a secure, segregated wi-fi pathway, which authenticates using permissions, credentials and certifications.
- "This new service will help our customers with their warranty and spares management, ensuring that they only stock what they need when they need it," Monguzzi adds. "This time-based intervention will not only help ensure maximum uptime but will also simplify the spares process through a single point of contact."

The concept will be demonstrated to all customers with live demos on the stand that can be booked in advance at: cama-UK@camagroup.com

STAND B50

www.camagroup.com



Engineering products of choice

Huge range of solutions are on show

Leading stockist and specialist solutions provider of a range of engineering products Acorn Industrial Services offer complete product solutions from production through to processing and maintenance.

"Our experienced product experts can provide technical advice and support on a comprehensive range of products including linear motion; couplings & drives; bearings; power transmission and maintenance equipment," explains Richard Hewitt, marketing manager at the company. As an authorised distributor for many world-class manufacturers, Acorn says it is one of the largest engineering component stockists in Europe.

At the three-day exhibition, the company is showcasing a working planar surface gantry alongside Ewellix lift & slide kits, CAHB actuators and THK linear guide systems. Conveyor components will also be on display, including Hutchinson ConveyXonic belts, Fenner Eagle belts and Protorque conveyor chains. Ruland couplings, shaft collars and modular mounting kits, Ringfeder locking elements, Tsubaki stainless steel attachment chain and Ammeraal drawdown belts will also be on the stand, along with special SKF bearing units designed specifically for the food industry.

In addition, SKF's new TLDD System 24 automatic lubrication system will join the line-up of components on the stand.

STAND J44

www.acorn-ind.co.uk

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VISIT US ON STAND
E64

Latest sieving and filtration on stand



The new Vibrasonic Titanium Plus deblinding system will be demonstrated

At the PPMA Show, sieving and filtration specialist Russell Finex will be exhibiting its full range of sieving and filtration equipment along with a number of new products that are designed to overcome challenges faced by the process industry.

The Vibrasonic Titanium Plus is a new, versatile ultrasonic deblinding system that provides improvements in usability both locally and remotely as well as improved performance with lower power consumption. Meanwhile, the Russell Hygiene Filter on

the stand is a self-cleaning liquid filter for the food and pharmaceutical industries that offers superior cleaning with crevice-free product contact parts as well as being suitable for CIP applications.

The Russell Superclamp provides correct clamping pressure for optimum sealing of sieving equipment without manual adjustment and the latest Russell Screen Changer now includes a new location and locking system improving usability and operator safety.

STAND E16

www.russellfinex.com

New valve sack packer will be seen at the PPMA Show

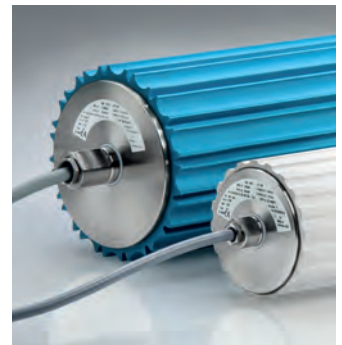
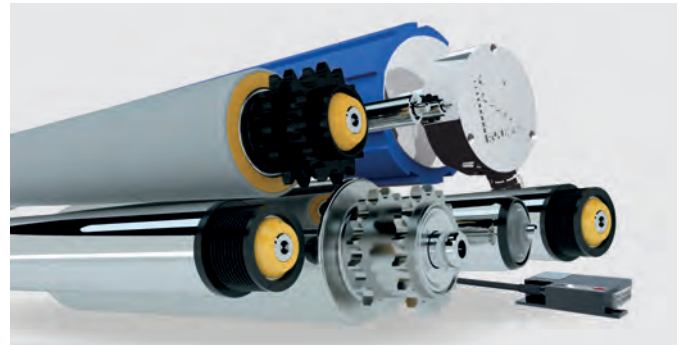
Autopak Machinery will be showcasing its latest development in valve sack packing, the FlowJet-2020 packer, at the PPMA Show. This is a combination air and impeller packer that allows powders to be packed with more accuracy and at faster speeds. To complement this equipment, the company can offer fully automated systems with bag placing, conveyor systems, automatic robot palletising and flow wrapping. All options are custom built

to suit specific customer needs.

Over the last year Autopak has seen growth through food industry clients with interest in semi-automatic linear weighing and fully automated VFFS solutions. "These options are perfect for speeding up production times, improving accuracy and removing manual intervention," explains Autopak Machinery sales manager Shaun Davies.

STAND G10

www.autopakmachinery.co.uk



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www.ppmashow.co.uk

Evolving automation includes vacuum, gripping and robotics

Celebrating its 70th year, and more than 65 registered patents, Piab offers robotic gripping and ergonomic handling solutions which complement the company's traditional vacuum automation/vacuum conveying solutions.

The company strives to evolve progressive gripping, lifting and moving solutions for its customers across all industries and around the world, with new options demonstrated on its PPMA Show stand.

At the exhibition, and as a part of its ambition to expand its global portfolio, Piab will present a wide selection of new products developed to complement its existing range of solutions.

For instance, the new MX 'Super Cups' were given this nickname by a customer because they simply lift anything – regardless of the material, geometry, or surface



structure. Then there is a new range of automotive friction suction cups developed for the car industry.

Meanwhile, the piSAFE pumps have been specifically developed with safety

in mind, holding vacuum in sealed applications in case of system or power failure.

The Vacuplus ejectors, cater for low to mid-range vacuum level applications that cannot compromise on ejector performance,

while the new CompactioE comes with integrated controls and special functions.

All the new pumps are designed around Piab's patented COAX technology,



Piab will be demonstrating many new products

which it says provides market leading vacuum performance, as well as providing configurable and low weight products that can be adapted to specific needs.

The latest edition to Piab's range of vacuum conveyors is the piFLOWp SMART CCO which optimises the process of conveying products to packaging, sieving, milling,

or dosing by maximising the use of the system capacity with each new conveying cycle. This results in fewer cycles and thereby using less energy for the same amount of material conveyed, making the whole process more energy efficient and cost effective, says Piab.

STAND G12
www.piab.com

A semi-automatic overwrapper is flexible on product changeovers

Sollas UK will be exhibiting the Sollas SE overwrapping machine from its range which, says sales director John Marchment, is a super flexible option for users.

Although the SE is a semi-automatic machine, it is designed with a high-specification and capability. "It's a highly flexible machine and is much appreciated by contract packers and the smaller perfumery and cosmetics companies," explains Marchment.

The SE is a user friendly option that has a highly intuitive Siemens HMI and offers quick and flexible product changeovers for customers. Other features include one level infeed and outfeed and also low-cost product change parts.

Sollas invites visitors to discuss their requirements with the company who has been in the overwrapping business for over 70 years.

STAND D20
www.sollas.com



The Sollas SE overwrapping machine will be demonstrated at the exhibition

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Controls and automation firm demonstrates efficiency gains

www.CAPMATIC.com



The controls and automation company Carlo Gavazzi's team will be on hand to discuss the latest technological innovations and advantages of IO-Link sensors, solid state relays, motor soft starters and energy management at the PPMA Show.

"As a leading manufacturer in industrial automation and energy management, it is easy for us to illustrate how you can resolve common factory automation dilemmas by providing insight into systems to reduce unscheduled downtime whilst improving productivity as well as reducing your energy management," explains William Darby, Carlo Gavazzi's managing director. "Monitoring each stage of a process can ensure a plant is running in the most energy efficient way, reducing your costs and emissions."



Carlo Gavazzi is showing its range

So, whether your business needs a sensor with the functionality to give you answers, a solid state relay which provides multifunction alarm monitoring, breakdown prevention and accurate troubleshooting or an energy management solution to meet sustainability goals by reducing your carbon footprint and decreasing your energy consumption and costs; the company invites you onto its stand.

STAND G54
www.carlogavazzi.co.uk

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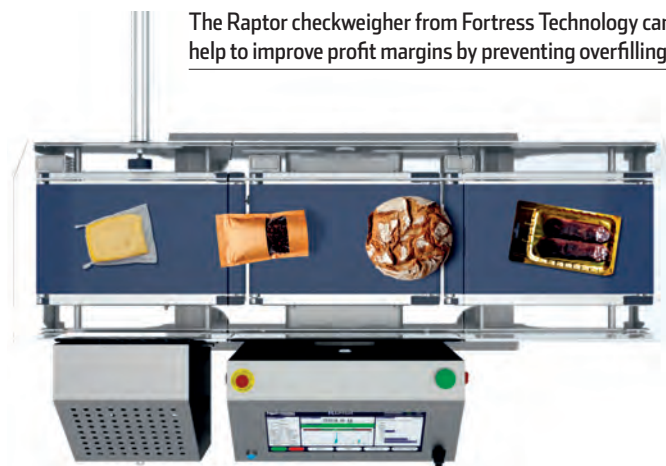
Email: sales@capmatic.com

Full 'pandemic-recovery' inspection series includes x-ray for first time

Made in the UK and designed for every food application and factory configuration to offset inflation, food price hikes and reduce waste and giveaway, Fortress Technology will debut its new zero-contaminant 'pandemic-recovery' Raptor series at the PPMA Show, including an x-ray first.

Comprising all three food inspection disciplines – metal detectors, checkweighers and x-ray – plus any combination category, the Raptor series features every British retailer Code of Practice digitally pre-programmed into every inspection machine before installation. Custom built in the company's manufacturing centre in Banbury, the affordable end-to-end Raptor series is Fortress Technology's most high-spec economic inspection range for washdown environments.

Responding to the wide-range of pandemic-recovery challenges, the Raptor series has been engineered to



The Raptor checkweigher from Fortress Technology can help to improve profit margins by preventing overfilling

counteract wasteful and costly product giveaway. Particularly for food staples such as grains, sugar, soybeans, corn, farmgate produce and spices which have recently topped a six year price high.

"Very few companies manufacture and service all three inspection equipment technologies," says Phil Brown, European managing director of Fortress. "But we deploy a single software package on integrated lines and make every system

sustainably compatible."

He believes that by being a single OEM for every inspection need, the company is paving the way to greater production integration and data-driven capabilities.

"Providing truly integrated software, a single HMI, data capture, and automatic testing, addresses rising demand from customers seeking heightened food safety solutions and zero tolerance for all food contaminants," he says.

To help preserve capital, offset food price hikes and emerge stronger from Brexit and the pandemic, Fortress Technology's Raptor checkweigher and Raptor combination systems deliver 100% reliable weight control.

The standard Raptor checkweigher can weigh lightweight product packs, up to a maximum of 8 kg, while the XL version is available for bulk applications. Operating as a standalone product feed and packing weighing unit, the Raptor checkweigher's modular electronics suite allows for full integration with a Fortress metal detector or x-ray machine to create a high-precision combination system when investment budgets allow.

The Raptor's debut at the show features four different conveyor configurations, including a compact combination metal detector and checkweigher and the Fortress x-ray first.

STAND B01

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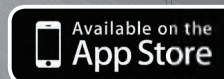
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A range of fillers meet needs across markets

Adelpi Manufacturing is inviting visitors to its PPMA Show stand to find out how to maximise production potential using its benchtop and semi-automatic filling solutions for the cosmetics, food, chemical and pharmaceutical industries.

Offering cost-effective ways to improve productivity, the company is delighted to be returning to the event this year. Its experienced team of specialists will be on hand to explain the benefits of its range of equipment, and to demonstrate the ways it can maximise productivity.

Adelpi says that manual filling gives an average accuracy of $\pm 10\%$ and overfilling just ten bottles could mean giving away one full measure of product free of charge. Adelpi Manufacturing can prevent this and help achieve more consistent filling to reduce costly product waste and decrease time spent re-handling rejected packs.



As well as entry-level bench top models, Adelpi also offers up-scaling options

Time-efficiency can also be improved using the filling equipment. Recently, one customer has increased production from 30 containers per day (when being filled manually), to 400 a day when being filled in one run by the Response benchtop filler.

Adelpi describes the filling accuracy as exceptional at up

to $\pm 0.25\%$, which significantly reduces product waste and improves profitability compared to the filling machine industry average.

Meanwhile, the hygienic 316L pharmaceutical grade stainless steel wetted machine parts adhere to GMP and FDA regulations.

STAND E64
W www.adelpi.uk.com



JentonAriana's offline seal tester

Stackers, seal testers and convergers can be discussed at show

Jenton Group subsidiary JentonAriana produces stackers, convergers, seal testers and complex conveyor automation control systems.

The company's newly launched high speed food pack stacker is billed as the fastest system of its type, achieving speeds of up to 180 packs per minute. The colour touchscreen facilitates easy set up for a range of pack sizes and stack heights, and all settings can be stored against a name. It is designed for end-of-line high speed collation where minimal operator intervention and reliability are critical.

The company's standalone seal tester is ideal for testing gas filled MAP/CAP, ready meals or bagged packs offline.

STAND A50
W www.jenton.co.uk

New stretch hooder that offers several operational benefits will debut at show

Ehcolo will launch a new stretch hooder that it says, presents several advantages over other models on the current market.

At the same time, the company will present its 16 different models of palletisers for boxes and bags, all with servo control and energy saving systems as well as discussing its turnkey packing lines consisting of bagging machines, palletisers, stretch wrappers or hood stretchers. Loading systems for bulk

materials in bags that don't require pallets will also be presented on the stand.

The new stretch hooder uses tubular PE stretch hood film with no gusset which can be printed on all four sides for easy identification and branding on the pallet.

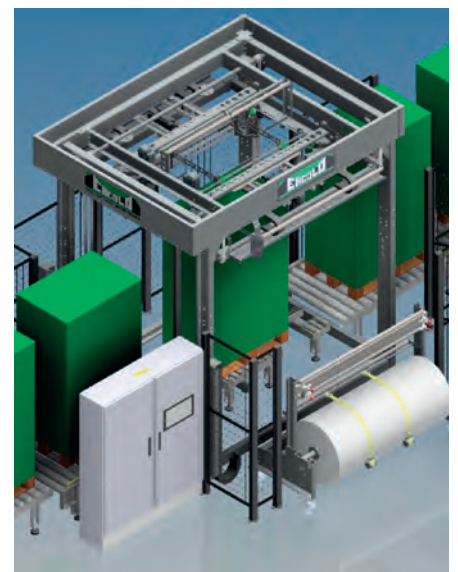
Its mechanical opening system (with no vacuum) means it can handle any variation in film quality, easily, and is not sensitive to crosswinds if used outside.

The company says this

compact unit has reduced moving parts compared to conventional stretch hood machines which makes it easy to install, use and also maintain.

STAND G70
W www.ehcolo.com

Ehcolo is launching this stretch hooder machine



PPMA
SHOW 2021

PPMA Show Preview

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NEC, BIRMINGHAM
www.ppmashow.co.uk

Range of equipment is meeting diverse needs

Engelmann & Buckham (E&B) will be returning to the PPMA Show 2021 to represent equipment from a range of manufacturers including; Volpak, Breitner, Betti, Apsol, Lita, AiCROV, Hydrolock, Rono, Bock & Sohn, VMS, Technowrapp, Sema, Sitma and Norwix ink jet.

E&B has access to a wide range of packaging machinery and for over 70 years, has been helping businesses to source equipment for all stages of their production lines. At the PPMA Show, the company is offering visitors the opportunity to come and discuss their machine requirements and help them to find a solution.

E&B says the manufacturers it represents are continually looking at environmental alternatives and believes Volpak is leading the way with its form, fill and seal machines that can make fully recyclable spouted pouches using mono polymer film. Users include an internationally recognised



Various users are finding gains

chocolate drink manufacturer who has been producing fully recyclable, paper sachets on Volpak equipment and a leading cat food producer that is producing recyclable, retortable pouches of cat food. Other manufacturers that E&B represent cover a wide range of recyclable options including Sitma's paper wrapping machines and cardboard carton filling from Betti.

"After so many months

away we can't wait to be able to see people face to face and to help them find solutions for their production requirements," says Michael Lindsay, managing director at E&B. "We love a challenge and our ability to access such a wide range of equipment means we are well placed to be able to help customers move their production lines to the next level."

STAND J10

www.buckham.co.uk



A full range of working exhibits

Liquid filling and capping machines are demonstrated

Universal Filling Machine Company will be exhibiting a full range of working machines including liquid filling and cap tightening machines at the PPMA Show and the company is looking forward to seeing customers old and new during the three-day event.

"We are one of the UK's leading manufacturers of liquid filling and capping machinery, and we have a reputation for good quality machinery and excellent customer service for more than 45 years," explains Mike Hollis, managing director at the company. "From single head bench mounted filling machines through to fully automatic filling & capping machines, you will find solutions to suit a wide range of applications," he says.

STAND J10

www.universalfilling.com

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PPMA
Stand C80

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Visit us on **STAND F22**





Equipment helps firms to up output

Intamac Packaging Systems will be back at the PPMA Show ready to discuss with visitors to its stand the versatile range of machinery that can pack anything from powders, liquids and solids through to small parts, stationery and other items.

The company says its team will be on hand to help visitors with their packaging machinery requirements and to identify the equipment that would enable them to move their businesses to the next level in automation. Some of the key pieces of equipment that Intamac offer includes pre-made pouch machines, stickpack and sachet machines, vertical form, fill, seal machines and flow wrappers.

All of this equipment can be fitted with various pieces of ancillary equipment, depending on the product, as well as a Norwix inkjet system.

Sales manager Tom Poston will be at the show to meet visitors, "Many of the businesses that we have worked with over the past few years have been looking to move from hand packing to automation or from small to full scale automation," he tells *Machinery Update*. "It has been exciting to watch these businesses grow from having a few local sales to national coverage using a number of Intamac machines to help them produce the higher level of output required."

STAND C52

www.intamacmachinery.com

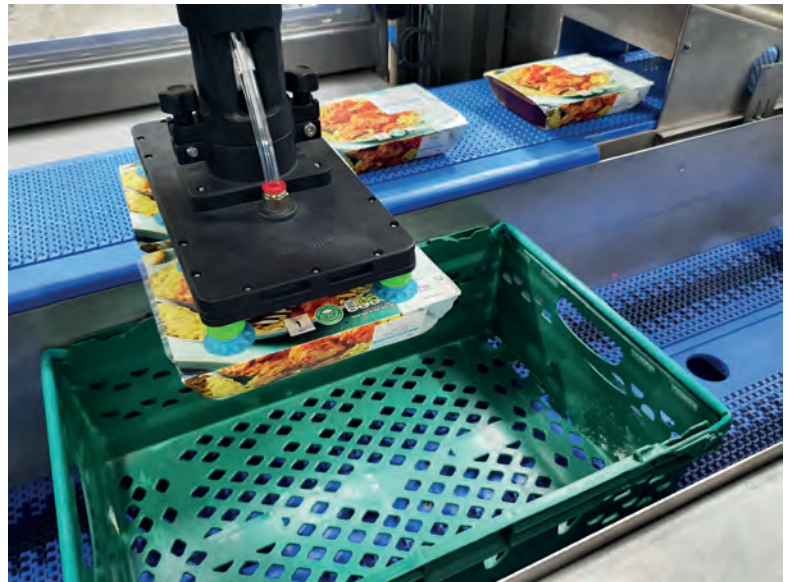
A robotic crate packer saves energy and waste

At this year's PPMA Show, Brillopak will showcase its newest UniPAKer robotic crate packing platform, launching its most compact, energy-efficient and affordable system to-date. By lowering compressed air consumption in the generation of vacuum by up to 45%, the overall carbon footprint of the system is significantly reduced. The single dual head crate packing cell simultaneously reduces supply chain

waste by minimising damage to protective ready meal films.

Taking the lead to reduce automation carbon emissions and meet the UK's new 2050 Net Zero targets, Brillopak has re-engineered the UniPAKer's compressed air pressure system and end-effector vacuum generators. Creating sustainable value across the entire packing cycle, by adopting this 'whole system air flow approach' and improved control and distribution of air, Brillopak reports a 10% reduction in power usage compared to previous models in the series.

Central to this upgrade, which features on all new UniPAKer systems and can be retrofitted onto existing cells, is the introduction of vacuum generators into the end-effector head.



New compressed air pressure and end-effector vacuum generators are saving power

Rather than sitting external to the end-effector, air is drawn into the centre of the head and fed to each of the five generators, all of which are contained within a special internal casing.

This delivers more consistent, targeted and faster airflow.

The small footprint single robot system is efficient at picking up and moving up to 70 chilled and ready meal products per minute.

For example two selection dips or two family-sized convenience meals. The new dual-head patent pending end-effector design guarantees consistent lifting capacity when suctioning up and gently placing meals of various weights, size and packaging type into retail crates.

"This gentle handling is

especially imperative when handling thin films, pillow bags, resealable packs and newer, more sustainable packaging substrates," emphasises David Jahn, director at Brillopak.

This next-generation unit also helps to address one of the biggest avoidable waste hotspots in ready meal production and distribution, namely split top seal packaging and torn film lids. "Spillages are one of the key causes of ready meal waste," says Jahn. "On high speed side or drop loading automated production lines, one broken seal on a ready meal has the potential to tip and cross contaminate an entire tray," he explains.

On its stand, Brillopak will showcase the single dual-arm delta robot picking up and placing ready meals into retail crates. Depending on applications, a single UniPAKer cell can be configured to incorporate up to three robot configurations working in unison.

STAND K80

www.brillopak.co.uk

The introduction of vacuum generators into the end-effector head is central to the new upgrade

Weigh-price labellers will deliver user gain

Minebea Intec, provider of weighing and inspection solutions, is presenting new products and powerful software tools that increase the efficiency and output of production plants at this year's PPMA Show.

Two new price labelling solutions – the WPL-S and WPL-A – will be on show for the first time. With the manual WPL-S system and the automatic variant WPL-A, Minebea Intec says it is opening up a new portfolio for applications in the weighing and labelling of products. Both labelling solutions offer a complete package for customers in the food industry: weighing, price labelling, labelling and product traceability in just one device.

However, it is not only new products that will be presented at the exhibition as some of the manufacturer's existing products have also received a major upgrade.



The WPL-S is just one option on show

The company has given its checkweighers with EMFC technology a turbo upgrade and equipped them with a new load cell. The inspection solutions have received

MID approval for belt speeds of up to 3 metres per second which means that up to 600 products per minute can be accurately and reliably weighed.

With the new load cells, the minimum weight has also been lowered: products of just 5 g can be weighed accurately and reliably.

In addition to the optimal weighing solution, Minebea also offers the right software to optimise efficiency and production capacities and a software package for statistical process control and average weight control will be presented on the stand during the exhibition.

SPC@Enterprise is currently available in version 4.0 and includes all the necessary options for prepacked goods and statistical process control, such as the collection of random samples as well as automatic checks throughout the entire process.

STAND C80

W www.minebea-intec.com

In brief

SAFETY CONSULTANTS

Visitors to the pm Connections stand can discuss compliance in health & safety and technical projects and the training options available. Depending on specific requirements, the company can advise on whether UKCA/CE Marking or a Declaration of Incorporation are required and assist in producing the necessary technical files, declarations or certifications. Its machine safety specialists are keeping abreast of legislation changes post-Brexit and all work is carried out under the management of its Certified Machinery Safety Experts – CMSE. Many of the courses on offer are accredited or approved by recognised awarding bodies.

STAND A85

W www.pmconnections.co.uk

PROCESS EQUIPMENT

At the PPMA Show, Ytron-Quadro (UK) will be displaying process equipment for milling, mixing and sampling as part of its range supplied by principals that include Ytron Process Technology, Quadro Engineering, The Fitzpatrick Company, VMI and LaboControle.

STAND B96

W www.ytron-quadro.co.uk

A rotary piston filler that offers high end benefits to a range of products will debut

Shemesh Automation has continued to develop new equipment during the global pandemic and will be debuting what it describes as a breakthrough in rotary piston filling technology suitable for viscous and free-flowing products at the NEC-based exhibition.

Called the Asterra, the machine will be demonstrated on the stand with the Shemesh team on hand to talk visitors through its special features.

“We have really pulled

out all the stops and will be debuting our very latest innovation at the show,” explains Tony Bryant, Shemesh's UK director. “Visitors can see for themselves why we believe the Asterra is so special as we will have the system in full demo mode on our stand.”

The company's wet wipes division also produces a range of high speed machines to suit customer needs and visitors to the stand can also discuss these

options during the three-day show.

STAND B20

W www.shemesh-automation.com



The Asterra unit is described as a breakthrough in rotary filling

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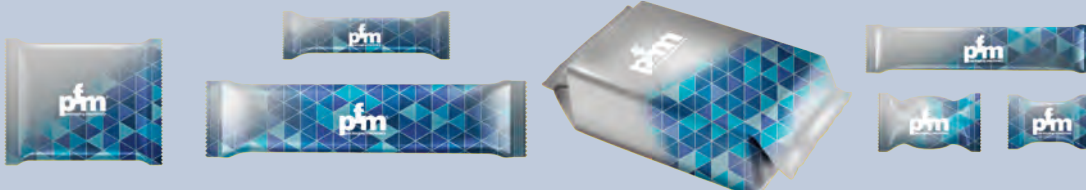
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UV disinfection technology brings benefits in factories and in offices

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PALLET
WRAPPING

JenAct, a subsidiary of The Jenton Group, will be presenting a wide selection of its UV disinfection technology at the PPMA Show. The company has been active in UVC disinfection since 1995.

UVC systems are effective at providing disinfection of viruses, bacteria and moulds in air and on surfaces.

Since the last show, there has been an unsurprising increase in anti-viral disinfection solutions and JenAct will be showing its new GRU-V wall mounted and UV Torpedo duct mounted solutions for 99.99% disinfection of viruses, including SARS-CoV-2, in office and factory situations.

Systems are all designed and made in the UK and are fitted with Philips UVC lamps. JenAct is a preferred partner of Signify/Philips and can also supply the Philips range of upper air passive UVC disinfection systems.

SURFACE DISINFECTION

For surface disinfection, JenAct designs and makes a range of UVC conveyors, with flat, roller and wire belts for disinfection of food items like salmon and cut fruit and also packaging materials as they enter or leave low/high care zones on food lines.

A JenAct roller conveyor will be on working display on the stand, as will the EIT radiometer systems the company sells for process control. Proprietary UVC modelling software is also offered so that performance can be modelled and predicted against different pathogens and consequently, the UV performance can be set to match the resulting targets.

STAND A50
www.jenton.co.uk

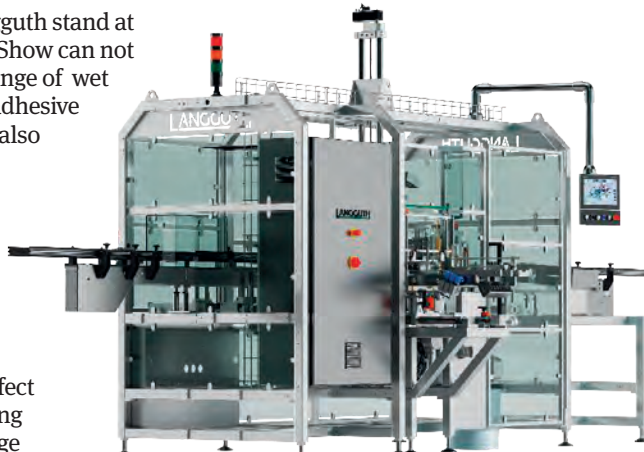
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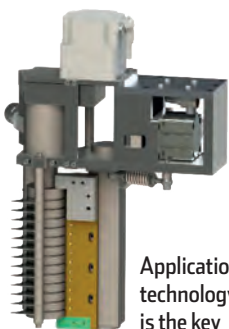
Labelling solutions deliver advantages

Visitors to the Langguth stand at this year's PPMA Show can not only discuss its range of wet glue, hot glue and self-adhesive labelling solutions, but also find out about its new machine series called GLU|ECO.

This new GLU|ECO series of labelling machines involves new application technology. Residue free label application enables perfect placement while enabling manufacturers to manage the often-difficult task between marketing demands and reducing unit costs. Its self-cleaning feature completes the holistic design of the machine concept in which, the



Residue free label application is offered by the new machine



Application technology is the key

company says, the influence of easy user experience played an important role in the new development.

Meanwhile, Langguth has developed a high-speed

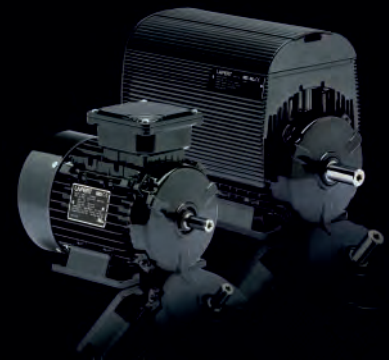
orientation system to handle a wide variety of container shapes with very specific label applications. To maximise versatility for users, this new design allows the orientation system to be used on all machine types.

Integrated with the latest camera technology, the system applies labels with accuracy while not compromising speed. Langguth believes this flexible, efficient and cost effective system can deliver the performance of several lines or more complex machines.

STAND F82

www.langguth.com

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A checkweigher and a 'mini' weigher will be demonstrated to Show visitors

At the PPMA Show, Newtec Odense (UK) will be exhibiting a range of technology including the model QC90-2 checkweigher and the model 2008PCM Mini weigher, with videos on the stand showing other equipment such as its high speed container filler.

The Mini weigher is designed for use with ambient or frozen products such as fresh cut fruits, snack foods and chocolate.

According to Paul Graham, technical sales manager at the company, this 'mini' weigher is testament to the company's adaptability and innovation when it comes to growing trends and needs within the fresh product industry.



The Mini weigher is designed for food products

STAND D32

www.newtec.com



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www.ppmashow.co.uk

Pumping solutions range delivers across industries

Kecol Pumping Systems will be demonstrating equipment on its stand that is designed to pump all types of viscous products in the food, pharmaceutical and cosmetics markets as well as general industrial applications at this year's PPMA Show.

The company specialises in pumping systems from 200 litre drums, IBC's, process vessels, planetary mixing vessels and similar containers, and is now offering metal detectable food grade silicone



Kecol shows articulated Powerprime

throughout its range of products, including wiper rings, gaskets and seals.

Visitors to its stand this year will find the following:

- **Articulated Powerprime:** This is used for emptying drums on a pallet and is designed for clients who have a high turnover of product and want to cut down on the changeovers of drums during production
- **Batch Weighing system:** This is used for weighing specific materials from a vessel and is used by clients who require an exact amount of product to be dispensed into a container. The system can be programmed for numerous different weights, depending on the individual customer requirements
- **Maxiprime:** This is used for high viscosity materials from a single drum
- **Powerprime:** This option is used for low to medium viscosity materials from a single drum.

Kecol Powerprime is a single



The Maxiprime option will be shown

post pneumatic unit and is used with a follower plate. The unit applies pressure to the follower plate to give a positive prime to the pump, allowing products up to 150,000 cPs to be pumped cold. The wiper ring wipes the inner walls of the drum to remove the maximum amount of product from the drum.

The Powerprime is available in painted construction or stainless steel construction and also as a mobile unit.

STAND H30
www.kecol.co.uk



New product is protecting powder silos

Hycontrol has been at the forefront of level control and measurement technology for over thirty-five years, providing effective solutions for diverse applications across a wide range of industries ranging from quarrying to food; from nuclear power to chemical; and from animal feed to waste recycling.

At the PPMA Show, the company will showcase the new SHIELD Lite silo protection system, which protects powder storage silos from the dangers caused by excessive pressure during tanker deliveries. Utilising purpose-designed, pressure monitoring and control equipment, SHIELD Lite meets and exceeds best engineering practice and current guidance from the Mineral Products Association, says the company.

The new, compact panel is designed for simple operation and to be easily understood, giving users a range of new monitoring and diagnostic tools and indicating when the system is suffering from blocked filtration or is being endangered by poor delivery driver behaviour.

SHIELD Lite incorporates essential high-accuracy pressure safety components into a modular design that can be adjusted to suit site requirements. Maintenance is simplified and the long-term cost of ownership is billed as significantly lower than any other system on the market.

The company has led the field in silo pressure safety and reducing working at height through ground level testing.

STAND K18
www.hycontrol.com

Vertical form, fill and seal will make Stabilo bags

Miele SpA will be showing its Maxima 300 automatic continuous motion vertical form, fill and seal machine on its stand at the PPMA Show in Birmingham. It will be equipped with a Stabilo bag forming system to produce stand-up bags with cleanly sealed edges.

High speed precision with top of the range technology makes this the perfect packing machine, says the company. Compact, efficient and adaptable: the Maxima can

be personalised for every customer's needs with a wide range of applications and dosing lines.

STAND E36
www.mielepackaging.it

Miele SpA says its Maxima 300 gives a range of options



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SHOW DEBUT - STAND B01

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Inspection and weighing units bring benefits across markets

Yamato Scale Dataweigh UK is delighted to be back exhibiting at this year's PPMA Show to demonstrate the capabilities of its leading inspection and automatic weighing equipment.

On show will be the new Epsilon range of multihead weighers, dubbed the new 'stick' machine, as well as the company's x-ray inspection machines, its newly launched TSDN-3 weigher as well as a new range of hygienic checkweighers. The company is looking forward to the opportunity to demonstrate their advantages through a series of real-life demos.

The new stick machine has been created to weigh and orientate long products such as dog chews. In operation, the product is aligned on the top of the weigher before being weighed utilising the special feed and weigh bucket gating system. Once weighed, the product is discharged perfectly orientated ready for packing.

Yamato Scale Dataweigh is excited to be at the event



With product safety becoming increasingly important, Yamato's team is looking forward to the opportunity to demonstrate the versatility of its weighing and inspection machines across a vast range of applications from wet items such as meat, poultry and fish to delicate products such as salads, fruit and vegetables.

The IP67 compliant TSDN-3 has been designed to provide enhanced levels of hygiene

with its stainless steel construction and easy, tool-free removal of conveyors to enable fast and efficient cleaning and sanitisation. The 14-head semi-automatic weigher operates at 50 weighments per minute and is suitable for both mixing and counting applications.

It will form part of the full range of Yamato weighing and inspection equipment

that will be on show, including the semi-automatic Dataweigh range, x-ray and I-Series checkweighers.

In particular, Yamato will be showing customers how it can help ensure compliance with regulations and supermarket standards using its metal detection and x-ray technology.

The YX20 x-ray inspection machine, for example, is compliant with BRC standards and features an advanced linear array with proven inspection algorithms.

"We are excited to show customers the improvements we have made to existing machines and to reveal the benefits that our new ranges will deliver," says Andrea Spencer, commercial operations manager for Yamato Scale Dataweigh UK.

"Customers are interested in the processes and machinery that keep their lines running, and that is what we will be demonstrating."

STAND B14

www.yamatoscale.co.uk



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Low carbon labeller is introduced to deliver recyclable packaging options

A new low carbon labelling system which makes secondary packaging 100% recyclable will be showcased by TrakRap at the PPMA Show.

“TrakCoder, developed as a sustainable alternative to adhesive paper labels, will enable manufacturers and retailers to reduce their carbon footprint and cut labelling costs by about 30%,” says TrakRap ceo Martin Leeming. Using a thermal transfer overprinter (TTO) and specialist ink, it prints ITF barcode labels directly onto the same substrate as the secondary pack. This ink breaks away during the recycling process, which is removing a major barrier to fully recyclable secondary packaging.



Discuss the gains with Martin Leeming

“TrakCoder labelling offers a much cheaper alternative to paper ITF labels, so is cost-effective as well as low carbon,” says Leeming. At the Show, TrakCoder can be seen operating on the TrakRap system that uses ultra-thin stretch film to ‘cold wrap’ products, eliminating heat from the packaging process and reducing energy use by up to 90% and plastics use and carbon by up to 70%.

Read the full story on page 126 of this issue.

STAND B26

www.trakrap.com

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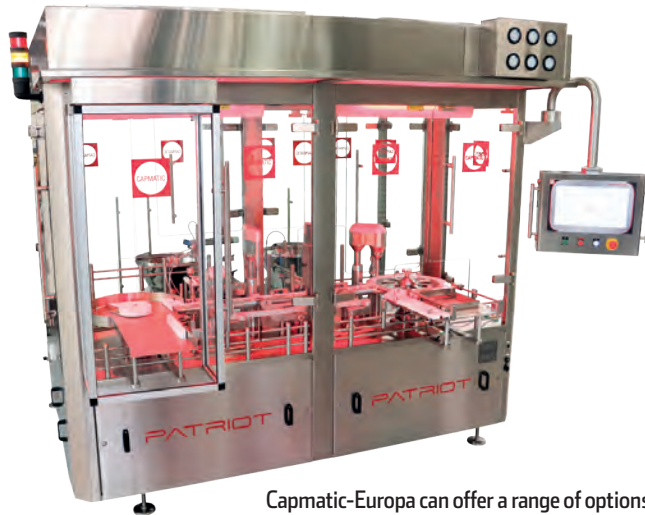
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Pharma-grade equipment offers compliant benefits

Capmatic Europa prides itself on supplying high quality pharmaceutical-grade equipment solutions at a reasonable price and visitors to its stand at the PPMA Show can learn about its complete range of packaging and production equipment.

Founded in Milan, Italy, in 1964, the company transferred all of its operations to Montreal, Canada, in 1979 manufacturing Monoblock equipment for North America. The company has now been manufacturing packaging and production equipment for the pharmaceutical, cosmetics and chemical industries for almost 60 years.

“Capmatic is globally recognised as an integrator of complete primary packaging lines,” explains Declan Coleman, business development Europe at Capmatic Europa. “We supply equipment for unscrambling, filling tablets & liquids, capping, labelling and cartoning,” he tells *Machinery Update*.



Capmatic-Europa can offer a range of options

All equipment is designed to meet the most recent European GMP, MHRA, and EMA, requirements including the latest CE & UKCA marking.

The company's own independent documentation department can also provide the necessary validation documentation for the GAMP 5 process as stipulated by the International Society for

Pharmaceutical Engineering (ISPE). The Capmatic systems are also 21CFR Part 11 & EU Annex 11 compliant.

“Our service locations in Europe currently supply and service equipment and our global team is available to help companies develop complete project solutions,” says Coleman.

STAND B52

www.capmatic.com



Imaging for automation is on view

Alrad Instruments has been serving the industrial, automation, scientific, medical and instrumentation markets for five decades and will be demonstrating its wealth of experience in all aspects of automation imaging, machine vision and photonics at the exhibition.

For the automation market, the company offers an extensive range of both area and line scan camera systems with a full range of interface options.

Other products the company supplies for automation applications include technology for barcode reading and product inspection. For instance, the iRAYPLE 7000 series code reader uses a built-in code reading algorithm and deep learning algorithm to read a variety of barcodes.

It uses a CMOS sensor to acquire image data and provides a high-quality image. Various trigger modes and image acquisition modes are supported; the unit includes both software trigger/hardware trigger/free run modes and has a 1Gbps Ethernet industrial interface with max 100m transmission.

Meanwhile, Alrad distributes iRAYPLE's comprehensive and competitive range of line scan cameras. The linescan 5000 series includes 2K, 4K and 8K resolutions with image sensors from CMOSIS, with others under development and features GigE, CameraLink and CoaXPress interface options.

In addition to machine vision cameras, Alrad also provides a range of components to support automation applications including image acquisition cards, optics, cabling, lighting, positioning lasers, enclosures and a full range of robot and cobot mounting hardware and physical protection barriers.

STAND J34

www.alrad.com

Sustainable packaging solutions on offer are an economical alternative to plastics options

Allpack will be showcasing its new range of sustainable packaging solutions at this year's PPMA Show and also running its 'Pack-Stop Challenge' competition again. This challenge gives visitors to the company's stand a chance to show off their packing skills as well as the chance to win a prize.

The stand itself will be plastics-free with all of the packaging options demonstrated being paper-based and fully recyclable.

“We will be showing how our sustainable packaging can still be an economical alternative to non-recyclable plastics, and also avoid the UK Plastic Packaging Tax charges applicable from April next year,” explains Ben Clarke, marketing manager at the company.

STAND B12

www.allpack.uk.com



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Stand F20 for a free demonstration

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4 side seal



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Flow bag



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A MEMBER OF THE ABB GROUP



Automatic protective and food packaging units are introduced

Sealed Air will be showcasing its range of automated protective and food packaging solutions at this year's PPMA Show, including the latest additions to its range of next generation sustainable solutions.

The new Sealed Air brand FasFil Jr paper void fill system has been specifically designed to combine all the key performance features that enable companies to confidently increase their packaging outputs from low to medium capacity.



FasFil Jr will be on the stand

The system is a 'plug and play' option with a small footprint, fully integrated user-friendly controls, toolless jam clearing and anti-jam sensors.

In operation, the new unit can create custom void fill material using 100% recycled fanfold paper, which is also responsibly sourced.

Another addition to the Sealed Air portfolio to be revealed on the stand will be the new Bubble Wrap Inflator. This all-in-one system creates on-demand inflatable bubble bags on a roll, for void-fill, cushioning, wrapping or inflatable pouches, using over 80 types of bubble wrap brand materials.

The smart technology interface enables operators to easily switch between materials, based on their needs. Again, this has a small footprint and can be mounted in various ways to save space, which makes it ideal for businesses needing to expand their fulfilment operations quickly to meet demand.

The company says that



compact footprints makes the Autobag range an essential part of any efficient fulfilment operation, says the company.

Visitors can see the Autobag range

visitors looking to increase their levels of automation would benefit from viewing the popular range of Autobag automated packing solutions, including systems designed to improve productivity in mail order fulfilment and primary packing solutions.

Features such as secure bag opening and positioning, integrated label printing and

At the event, eCommerce retailers and 3PLs will be particularly interested to see Korrvu suspension and retention packaging in action. Quick, cost effective and easy to use, Korrvu packaging uses minimal materials for effective protection and optimum presentation, without the need for void fill materials.

STAND C40
www.sealedair.co.uk

Range of banders and bag sealers have been modified to handle new ranges of sustainable materials for show first

Jenton International will be demonstrating a wide range of banders and bag sealers with new plastics free banding and bag/pouch materials on its stand at the PPMA Show – the 31st time the company will be part of the event. Jenton has been modifying its sealing systems to work with new sustainable materials which will allow many packs to become fully recyclable for the first time.

At this year's show, Jenton will be demonstrating



A Joker system from the Pronova range will be on the Jenton stand

the Joker system of linked bags and sealing systems from

Pronova, in Sweden which will be in-action for the first time. These machines allow automatic feeding, filling and sealing of laminated pouches for many food applications as well as sealing options for LDPE-based bags for general

packaging of items such as plastics parts.

Jenton's range of 'Bandit' banding machines, which run with plain or printed paper and film will also be shown, as well as work stands and automation systems to accompany them. At the same time, conveyors and stands to match the Emplex bag sealers that the company imports from Canada will also be seen on the stand.

STAND A50
www.jenton.co.uk



PPMA Show Preview

28 - 30 SEPT 2021
NEC, BIRMINGHAM
www.ppmashow.co.uk

Protective covers

Visitors to the Yamaichi stand can see the new Y-Con Cover 20-TC which replaces the current version of Y-Con Cover 20. The new version is useable with different cable diameters ranging between 5.5 mm and 7.1 mm to give high flexibility for a variety of cables. Like the previous unit, the new Y-Con Cover 20-TC is an IP20 full metal version, which protects the plug from all kind of influences in an IP20 industrial area. Strong mechanical resistance paired with high protection against EMI disturbance guarantees the optimal signal transmission.



The new product can reduce costs

Moreover, it can be assembled tool free as the new snap hook concept makes screws redundant so that the upper and lower part only need to be pressed together, saving between 30% to 50% in assembly time.

STAND H60
www.yamaichi.de

Overwrapping, banding and shrink wrappers are offered

The Marden Edwards (ME) Group develops, designs, manufactures and supplies carton overwrapping, shrink wrapping and reduced packaging banding systems, and visitors can discuss its range.

Overwrapping machines cover various applications for a variety of products, formats, and performance. Whether a product is wrapped for presentation, multi-packing or distribution purposes, the company says it can provide custom systems. "Our range of overwrappers have the capacity to wrap cartons using alternative, eco-friendly materials including recyclable BOPP film, biodegradable BOPLA film and paper," explains

Scott Williamson, marketing manager at the company.

A TM85 overwrapper wrapping individual cartons up to 40 per minute will be demonstrated on the stand. This will then feed into an ABS Series 1 banding system, which will collate and band the individually wrapped cartons. An automatic L-sealer wrapping products up to 40 packs per minute will also be on the show stand.

Meanwhile, the ME Shrinkwrap division offers a complete range of shrink wrapping machine and film solutions which include low-cost, yet robust manual shrink chamber units, L-sealers, side sealers and sleeve wrappers.

STAND A72
www.mardenedwards.com



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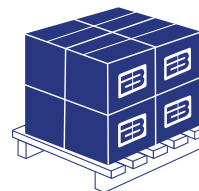
STAND UP POUCHES



CONTAINERS



IBCs



PALLETS & AUTOMATION



MASK MAKING

Pallet load stability can be delivered by options



Latest Modular Sealing Device

First time exhibitor will show a range of sealing products

Lako Tool and Manufacturing will be exhibiting its sealing, cutting and punching application range as well as showcasing the standard & specialised sealing jaws, ancillaries and also ultrasonic sealing systems. These can be used on all packaging machines, vertical and horizontal form, fill and seal, and also various hot and cold seal applications.

The company will also show the quick change MSD (Modular Sealing Device) jaws along with Polymer jaws, Euroslot hole punch, mechanical and hot chamber punch, fin wheels & ancillary equipment. End seal reduction, recyclable films and paper films are some of the challenges that benefit from its film testing whereby optimum serration patterns are selected for each application.

STAND E62

www.lakotool.com

Hazel 4D is a company that develops custom-designed solutions that it says, help to improve business performance for blue-chip companies and specialist manufacturers across a wide range of sectors, by increasing packaging efficiency and reducing both cost and waste.

The company specialises in providing a unique consultancy service that helps customers dramatically improve their pallet load stability – and is EUMOS registered as a result of its strong commitment to increasing transport and logistics safety through pallet load securing.

Hazel 4D's Intelligent Load Stability (ILS) service brings together the Atlanta range of pallet wrapping machinery



Atlanta will be on the PPMA stand

and the Extremus range of pallet wrapping machine films to deliver complete pallet wrapping efficiency and also load security.

The company is looking forward to showcasing a range of Atlanta machines and Extremus films on its stand at

the PPMA Show – including a 17 micron, 51% recycled film on a power pre-stretch machine and a 10 micron Nano film on a working robot pallet wrapper. The company says this will allow visitors to see the results for themselves.

“When we use our expertise to bring Atlanta and Extremus brands together on a site, and get them working in perfect harmony, it really is as good as pallet wrapping gets,” says Lee Armstrong, marketing director & packaging consultant at Hazel 4D. “At the PPMA Show, we will explain how we can wrap pallets using the smallest amount of film, at the lowest cost, whilst delivering the best load stability on the market.”

STAND D26

www.hazel4d.com

Managing projects

Although Prime Design Projects will not have any equipment to show, the company says it can certainly help visitors to visualise any new manufacturing projects and develop them from concept to commissioning. The company specialises in designing factory layouts and integrating equipment and will be showing examples of its work on monitors on its stand at the PPMA Show.

The company offers:

- 3D scanning to survey a factory or greenfield site

- Simul8® computer simulation modelling to ensure the production line will work efficiently
- 3D modelling to evaluate the fit, look and operability of the new design.

And if visitors need help with equipment procurement, the company will write the URS documents, and can also run complete projects from design through to complete line validation.

STAND G66

www.primedesignprojects.com

Reduce operating costs with on-site nitrogen generation

Maziak Compressor Services says when switching to on-site nitrogen gas generation, companies can expect payback within 6 to 24 months, depending on existing arrangements and consumption. The company invites visitors to the PPMA Show to discuss the benefits of the modular design of the NITROSource system which allows users to expand the system. Packages are



Modularity provides user flexibility

available as capital purchase or for long term rental.

STAND A63

www.maziak.co.uk

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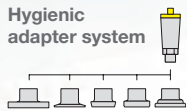
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STAND NUMBER

D84



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www.vega.com/vegapoint

Looking Forward

VEGA



Motion transfer units are on show

Moore International specialises in mechanical motion transfer systems including thread drive and linear products and are UK distributors for various manufacturers.

The company will be exhibiting a range of high-performance leadscrews and ballscrews from Eichenberger Gewinde at the PPMA Show. Nut and shaft units are manufactured in both standard sizes as well as being offered as customised units, specific for the application.

These products are complemented by Moore's own machine shop facilities where the end journals and nuts can be machined to customers' own requirements.

In addition, the company manufactures a range of customised trapezoidal screws. Ground ballscrews are also available, while Rollvis Swiss satellite roller screws complete the range of thread drives on display. The rigid design of these planetary roller screws gives them the ability to deliver very heavy load capacity, due to the many contact points between the rollers and screw.

Schneeberger's high precision linear guideways and profiled rails will also be on the PPMA Show stand. These are used on packaging machines and automation applications where high reliability and precise performance are required. The extensive range includes products for clean rooms, medical technology and robotics.

Also, exhibited will be Zimmer clamping and braking elements which routinely perform critical positioning, holding and braking tasks. Moore says they ensure precision during cutting processes and boost efficiency with short cycle times.

STAND H16
W www.mooreinternational.co.uk

Inspection and weighing units deliver user benefit

Cassel GmbH is represented by SCS (UK) and the Stalybridge-based company is looking forward to welcoming visitors to its stand at the PPMA Show to see the range of inspection and combo units on offer.

At the event, Cassel and SCS UK are planning to exhibit the Cassel entry level XD28 x-ray inspection unit, which is designed for smaller packs at affordable prices. "As x-ray inspection can detect a range of contaminants

other than metals, it provides reliable protection for every brand," explains Phil Ryder, engineering director at SCS.

The company will also feature a Shark 2 multi-frequency metal detector capable of handling all types

of products. This will have full BRC supermarket specification and SCS says its rugged build will withstand the test of time in any production environment.

A checkweigher/metal detector combination unit

will also be on display on the stand. This unit is designed to a high standard and also offers full supermarket specification for users.

"Its outstanding performance comes from its open-source

Windows 10 embedded design allowing your IT department to network across the factory and collect statistical information from each unit," says Ryder. This feature eliminates the need for additional and costly software packages.

Cassel's gravity feed metal detector will also be at the PPMA Show. This is built with rugged reliability and high sensitivity and is suitable for all

types of dry products.

"We will have technical experts on hand to discuss and answer any enquiries during the three-day event," Ryder tells *Machinery Update*.

STAND C24
W www.scsukltd.com



The Cassel XD28 x-ray inspection unit will be on the stand

New upgraded entry-level filling machine range can be tailored to suit packing needs

At this year's PPMA Show, Scayl will be showcasing its newly upgraded range of entry-level filling machines with a price tag that still starts at below £1,000.

Supporting a wide range of businesses, small and large, across a variety of industries, the company says it can tailor its solutions to answer common packing problems. It has already worked with companies such as Square Mile Coffee Roasters, Wholefood Earth, Croda

Europe, Tesco, Nestlé and Kellogg's.

STAND A92
W www.scayl.co.uk



Scayl maintains a strong partnership with PFM Packaging to share technologies

Sensors deliver a range of user benefits at show

Sensor and controls company ifm electronic will be showcasing the edgeGateway – a reliable connection between sensors and IT – at this year's PPMA Show. Visitors to ifm's stand will be able to see the edgeGateway technology in action as well as automation solutions for making food safely, error-proofing the production process and sending data analytics securely to the cloud.

edgeGateway provides an easy and convenient way to send sensor data to the cloud. The system does this by first translating the sensor data into readable information and then sends it to the IT infrastructure.

Designed with ease of use in mind, the technology benefits from intuitive on-device set-up thanks to its 12 in multi-touch display. Alternatively, users can opt for quick set up via the web front-end. Robust and reliable, edgeGateway enables safe mounting even in harsh environments.

Meanwhile, ifm's specially



ifm electronic's range of sensors will be showcased during the PPMA Show

developed sensing solutions for safer food processing – particularly conductivity and temperature – will also be available on the stand. For use in CIP (cleaning-in-place) applications, the LDL conductivity sensors are available with ifm's aseptoflex fitting making them versatile and easy to install in a variety of hygienic process connections.

For processes where accurate temperature control is essential and deviations could have costly implications,

TCC self-checking temperature sensors provide an invaluable added level of assurance. The sensor continually monitors its own performance and, if an internal failure occurs or excessive drift is detected in measurement accuracy, it gives a visual warning and sends an alert message to the plant control system so that immediate action can then be taken to minimise the impact of the problem.

STAND A74
www.ifm.com/uk

Automated palletising options for end of line and bag palletising applications are on show

RMGroup will be using this year's PPMA Show to demonstrate a collaborative cell consisting of the compact ABB IRB 460 – billed as the world's fastest palletising robot – together with an omnidirectional platform AGV for automated pallet handling.

To accompany the robots, RMGroup will also be showcasing its Easy Teach 2 programming software, which will be demonstrated to visitors via a remote HMI screen. It makes it easy for

users who have no prior knowledge of robots.

Operating within the fully guarded cell, the IRB 460 is designed for end-of-line palletising and bag palletising applications. With a reach of 2.4 m and 110 kg payload capacity, this compact, four-axis robot can achieve up to 2,190 cycles per hour with a 60 kg load and its small footprint means that the robot is ideal for fitting into existing packing lines.

Alongside the robot

palletiser, RMGroup will demonstrate the multiple handling possibilities to automate manufacturing and logistics flows provided by a platform AGV. With its very low height profile and high payload (up to 2000 kg), the platform AGV provides completely safe and precise handling of multiple applications including pallets, raw materials, WIP, finished products and fragile parts.

STAND G50
www.rmgroupuk.com



The Epson robot range is shown

Robots and printers and smart options

At this year's PPMA Show, visitors can see Epson's range of ColorWorks label printers, its robotic solutions and the Moverio smart glasses for industry in action.

Visitors are invited to talk to the experts to see how easy it is to print high-quality, customised colour labels, tickets and tags, in-house and on-demand using ColorWorks. The range includes the entry level C3500 and the C6000 Series which print up to 4 in or 8 in widths and has the option of built-in peelers. For high volume, high-speed durable label printing, the ColorWorks C7500 Series completes the range.

Robot technology will also be on display. Since the launch of its first robot in 1980, the company says it has been among the leading providers in the field of automation, supplying a large range of SCARA robots for various applications, and also six-axis robots, controllers, and software.

The company will also be promoting its Moverio smart glasses that pair seamlessly with remote assistance software to simplify complex tasks in commercial and industrial applications.

STAND A52
www.epson.co.uk



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Handheld inkjet printer is handling water-based inks

Martek Industries will introduce the Bentsai B80 series wide format handheld inkjet printer range at the PPMA Show. This latest Bentsai range complements Martek's existing EBS Handjet and REINER handheld printers by combining high-definition printing with a large, 100 mm print height.

It uses water-based inks to print onto porous materials including cardboard, timber and paper. The B85 can also use solvent-based inks to print onto non-porous materials including plastics, metal, foil and also foam.

Martek will also introduce the Smart-Jet range of inline thermal inkjet printers including self-contained



Short-run personalisation is offered

models for simple coding requirements and modular systems comprising a touchscreen controller and choice of printheads with up to 50 mm print height.

STAND J12

www.martekindustries.co.uk

Warehouse gains

Conveyor manufacturer Advance Automated Systems will be using this year's PPMA Show to promote a recently launched initiative known as 4Automation. Multi-faceted in creating added-value, 4Automation aims to provide full turnkey solutions for warehouse automation, eCommerce, manufacturing and logistics.

"The unprecedented growth in eCommerce, fast-tracked by COVID-19, has created a warehouse automation boom," explains Shaun Graham, marketing director for 4Automation. "The need to develop safer workplaces by reducing interactions among workers, together with the increasing demands on the supply chain, are seeing

companies accelerating the timelines for automating their warehouses.

"As a systems integrator, 4Automation will take away the headache of tendering multi-contractor bids and involvement in time consuming cost analysis and contract negotiations," he continues. "Having confidence in a one-stop, full-service partner, companies can reduce costs and errors with their projects and benefit from an efficient use of resources to deliver a fully integrated, flexible solution. For many companies currently capitalising on the eCommerce upsurge, this represents the perfect solution," he says.

STAND C74

www.advanceautomation.co.uk

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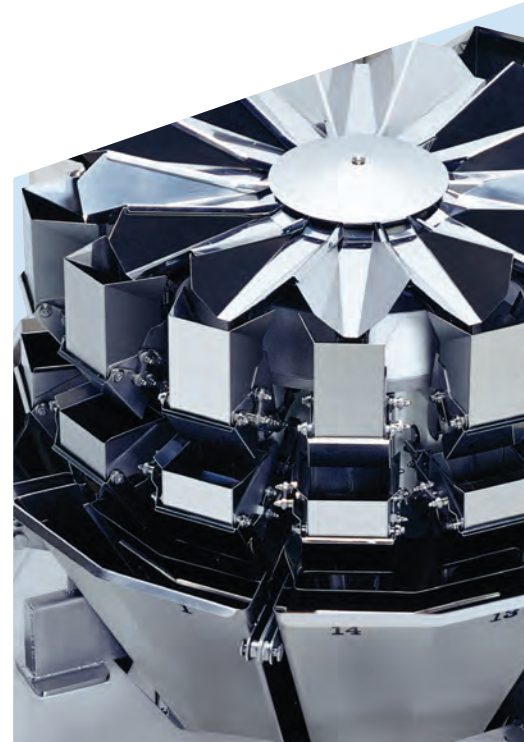
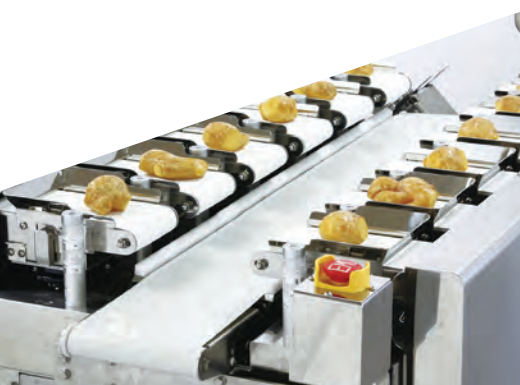
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Stand B14





The EcoStitch offers user gains

All-electric model offers adhesive and maintenance savings

Valco Melton is presenting the new EcoStitch all-electric solution for end-of-line packaging at the PPMA Show this year. This technology is focused on reaching adhesive usage optimisation and lost-time reduction, which results in significant economic savings.

Designed to operate in industrial hot melt applications, with a special focus on the food and beverage industries, EcoStitch offers an intelligent solution that ensures cartons are glued more efficiently, more effectively and with much greater consistency, says the company, allowing manufacturers to run products without downtime or needless parts changes due to wear items.

The EcoStitch gun offers fast cycle rates, long service life, and adhesive savings of up to 70%.

STAND F54

www.valcomelton.com

Filling and capping line delivers user flexibility

Excel Packaging Machinery invites visitors from the cosmetics, personal care, pharmaceutical and healthcare industries to its PPMA Show stand to see the new technology it will be demonstrating at the event.

Launching at the show is the new modular Uniflex filling line from Omas. On the stand, there will be an in-line twin-head automatic filler and capping line which allows flexibility for filling a wide range of products. With a compact footprint and very quick changeover parts, the machine delivers automatic closing for plastics screw caps, dip tubes and also press caps.

The Uniflex range of machines are designed to build up capacity as required and the filling machines can be supplied in 2, 4 and 6 head versions. These machines include adjustable servo drive diving nozzles to fill a wide range of bottles and also products.

From Axomatic, the company



Excel Packaging Machinery will be demonstrating a range of equipment

will show the Axo 800 tube filling machine which is designed to fill and close plastics, laminated or aluminium tubes. Offering several advanced features, the range also allows for easy cleaning by operators.

Excel will also exhibit its own range of machines including the twin head Acufill and the Ex-Fill-s which are the company's semi-automatic gear pump filling machines suitable

for liquids and oils.

Also on display at the NEC will be the semi-automatic soap/bath bomb machine.

Finally, semi-automatic machines from Omas on the stand will include the volumetric piston DVPB for liquids, creams and paste products and the DVPM which can hot fill balms, waxes and body butters.

STAND A62

www.excel-packaging-machinery.com

Tabletop and automatic bagging machines are designed to meet all required volumes

APP (UK) will be showing two bagging machines on its PPMA Show stand; one is a money-saving tabletop version and the other is a high speed unit.

The T-375 tabletop version is billed as bringing ease and simplicity to packing products

such as screws, hinges, nuts, washers, oil filters or injection



This benchtop T-375 bagging machine from APP (UK) is shown

moulded products into bags. It can also print onto bags at

speeds up to 30 bags per minute

Meanwhile, the T-1000 automatic bagging machine handles up to 60 bags per minute.

User friendly and fully automatic, this machine can be used whether packing by hand or it can be added to a fully automatic line.

STAND E40

www.appuk.co.uk

Demonstrating the pick-up heads in a clever new way...

Visitors to the Clevertex Group PPMA Show stand will be able to see its range of pick-up heads for pouches, cartons, bottles and cans demonstrated through new clever kits during the event. These will demonstrate the technology first-hand so that visitors can see their potential in managing different formats. Heads can be supplied with a range of grippers to suit each individual application.

STAND A46

www.clevertex-group.com



PPMA Show Preview

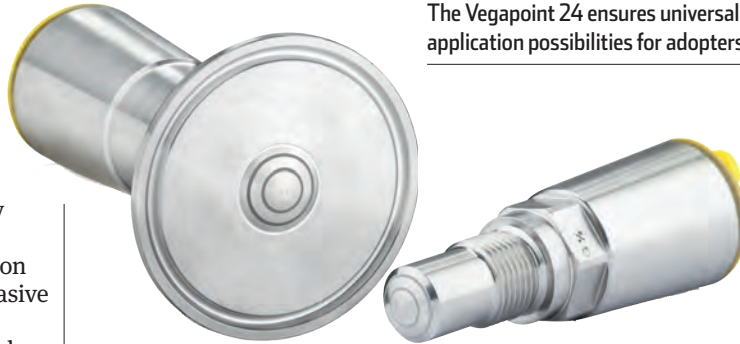
28 - 30 SEPT 2021
NEC, BIRMINGHAM
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The latest level switches for maximum efficiency

VEGA has developed the new front-flush point level and interface switch Vegapoint 24, that can be seen on its PPMA stand this September.

It is designed especially for use with challenging switching duties required on very sticky, viscous or abrasive products with a focus to provide the greatest possible robustness and reliability in the face of all these diverse ingredients. Even with the strongest build up, users can depend on its effectiveness at detecting the point level as it indicates the process status with a super-bright 360deg LED ring, that is easily visible from afar.

Thanks to this robustness, Vegapoint 24 is really quick to deploy and as a plug-&-play sensor, it can be installed very easily in just a few simple steps. Flexible production systems with frequent and fast product changes really benefit from the fact that it can detect all media utilising



The Vegapoint 24 ensures universal application possibilities for adaptors

the 'out of the box' setting, without any adjustment.

Users can also take advantage of its extra functions and capabilities with a simple to use, smart phone App-based Bluetooth wireless connectivity, to access and configure settings such as liquid/liquid interface detection or ignoring/detecting foam (The VEGA Tools App is free on iOS or Android platforms).

This is also where companies can customise LED colours and/or flashing combinations for process status notifications.

"With this device, we are

specifically targeting the food, beverage and also the pharmaceutical sectors," explains Volker Allgaier, product manager at VEGA. "Here, mixing, conveying and filling are all about efficiency and safety, even with demanding liquids and bulk solids like molasses or homogenised creams."

The front-flush design of Vegapoint 24 ensures its universal application possibilities while another decisive factor is flexibility of use through its versatile process fittings and adaptors.

STAND D84

www.vega.com/uk



The TSM-2005 capper is shown

Filling and capping is at the Show

Visitors to the Bruni Erben stand at the PPMA Show will find a range of filling, capping and labelling equipment on the stand.

The Doselite volumetric filler is one. This pneumatic dosing machine is designed to precisely dose food, beverage, chemical, cosmetic, or pharmaceutical products into bottles and jars of any material. It can also handle particularly dense products and offers dosing volumes between 0 and 1300 ml.

It is available in bench-top version or on a trolley with wheels for ease of movement.

Also on the stand is the Ultrafiller vacuum filler which can be fitted with two or four high-efficiency and highly accurate stainless steel filling nozzles. Ultrafiller 4 fills over 600 bottles an hour while version 2 fills about 400 bottles an hour; both in hygienic conditions and with no liquid spillage.

Meanwhile, the TSM-2005 Electro mechanical capper is a benchtop unit which can be equipped with specific capping heads for any size of ROPP/GPI/ twist-off/snap on caps and runs at up to 500 bottles an hour, while the MS-57 labeller – Self Adhesive 1 Roll on the stand is a semi-automatic labelling machine that applies labels on cylindrical and square containers, bottles or jars at up to 600 an hour.

STAND B82

www.erben.co.uk

Vertical form, fill and seal machine maker celebrates 18 years of continuous progress

GIC will celebrate 18 years of developing continuous motion machines at this year's PPMA Show and will be marking the anniversary by displaying its latest GIC3100 model on its NEC stand.

Today, GIC offers a range of four continuous motion vertical form, fill and seal machines comprising the GIC3000, GIC8000, GIC3100 and GIC8100. The 3000 and 8000 models are designed to pillow pack, while the higher specification, higher

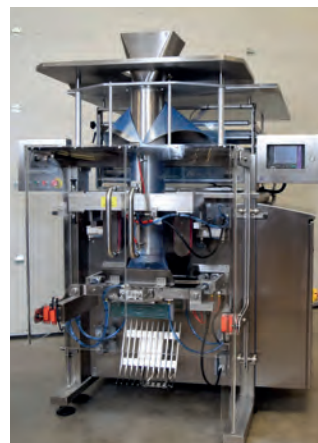
speed 3100 and 8100 offer doypack and servo gusseting capabilities.

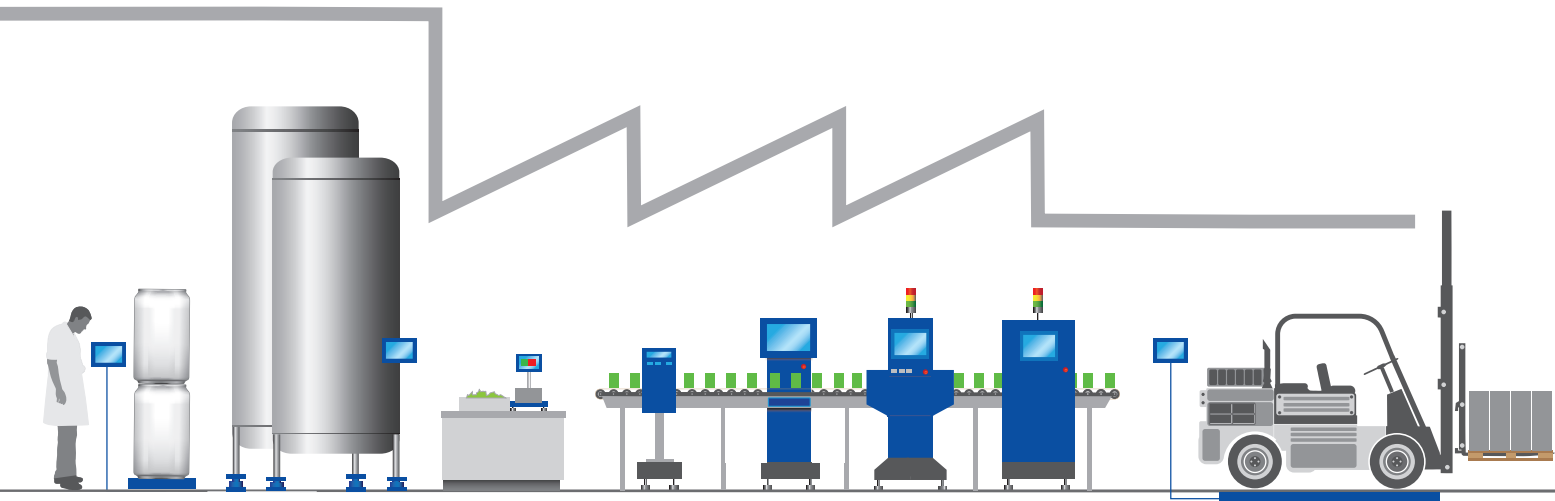
The most recent technology enhancement has been the introduction of Leaf Salad Assisted Drop and the integration of Ceetak's QPH sealing technology.

STAND C50

www.gic.uk.net

Enhancements over the years have included electronics, remote access and new servo motion technology





Intelligent Production Solutions

Maintaining quality and conformity can be a complex process for manufacturers. From understanding regulatory compliance and upholding branding requirements, to fully ensuring consumer needs are met.

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▶ www.mt.com/uk-conformity

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UK first for equipment expands existing range

The recent acquisition of Votech means Fischbein can offer dosing, bagging and palletising lines, pallet wrapping and stretch hooders



Fischbein is keen to stress to visitors to the PPMA Show that since its recent acquisition of Votech, it can offer a much wider range of equipment than its original bag closing technology.

The company has been developing its range of bag closing machines for over 100 years and these sewing systems and Saxon bag sealers will also be on its stand. However, the new Votech range includes fully automatic dosing, bagging and palletising lines, as well as pallet wrapping and

stretch hooders, and this can also be discussed at the three-day event.

HYGIENIC SOLUTIONS

The Votech brand is known for providing hygienic solutions in the food and powder sectors such as milk, animal feeds, food flavours, flour milling, fertilisers, pellets, horticulture and associated products. Machines can fill different types of bags from 5 to 50 kg suitable for use with open-mouth bags, tubular or flat film, or a combination of both, and reliably achieve

a capacity of up to 1800 bags an hour, depending on product characteristics.

Votech equipment is robust and reliable and will be seen for the first time in the UK.

“Equipment from Votech exudes quality, robustness and reliability and as a result, the company has thousands of successful installations across many industry sectors, and a reputation with our clients that precedes our name,” explains Barry Cox, sales director at Fischbein.

STAND E34
www.fischbein.com

Labelling and sleeving equipment combine reliability with lower overall running costs

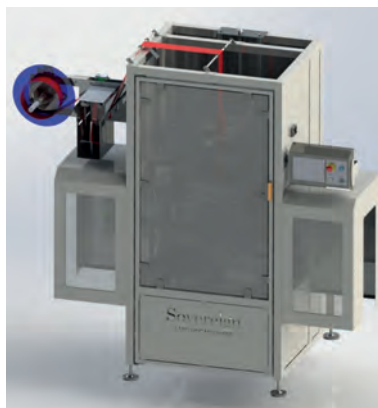
Sovereign is delighted to be back at the PPMA exhibition this year to showcase the enhancements made to the overall operation of each of its labelling and sleeving systems to further improve the reliability of its range of machinery which has been achieved through a mixture of customer feedback and extensive experience.

A recent focus on producing hygiene-friendly machinery and equipment that is easily maintained will be

demonstrated on the stand. An extremely low overall running cost with maximum OEE is another benefit.

“Whether you are looking for a reliable, robust, labelling machine or a low-cost, highly efficient sleeving machine, get in touch,” says Sovereign’s general manager Thomas Glendinning.

STAND G74
www.sovereign-labelling.co.uk



The full body sleeve from Sovereign



Safety foils are a beverage option

All round service for beverages

At the PPMA Show, Bev IQ will highlight an holistic range of equipment and systems that help beverage producers with can filling lines raise their quality, improve product safety, and increase consumer engagement.

For instance, services to help improve safety through the inspection of empty cans for dirt and debris as well as damaged cans before filling as well as improving hygiene by cleaning and drying the tops of cans and then applying a safety foil to protect the consumer from risk of dirt, bacterial contamination and viruses can be discussed on the stand.

Other services offered include x-ray inspection.

Bev IQ brings together best in class inspection equipment, OEE + track and trace software from FT System and Antares Vision together with drying systems from Airknives UK and safety foils from Topsy and Ecocaps to help raise quality, improve product safety, and engage with the consumer.

All the systems put together by Bev IQ are designed to raise overall quality by inspecting product fill levels, date codes, weights and labels of the final pack before palletising.

They are also designed to improve consumer confidence, protect brands from counterfeiting and improve consumer engagement through track and trace processes.

STAND J72
sales@beviq.co.uk



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Collaborative robot is an easy to use option

ABB and B&R will be hosting a stand at this year's PPMA Show demonstrating how the latest robotic automation and motion control technologies can deliver new levels of productivity, flexibility and also efficiency.

The event will be the first UK outing for ABB's new GoFa CRB 15000 collaborative robot. Launched earlier this year, GoFa extends the benefits of collaborative robotics to applications featuring payloads up to 5 kg. With a class-leading reach of 950 mm, and offering speeds up to 2.2 m per second, GoFa offers an effective solution for applications including materials handling, machine tending, component assembly, packaging and inspection, as well as automation in laboratory settings.

With a range of features that allow it to be used alongside human workers, plus ABB's new Wizard Easy programming software that eliminates the need for



ABB's new GoFa collaborative robot can be used alongside human workers

specialist programming skills, ABB says GoFa opens new possibilities for companies to deploy robots into their manufacturing processes.

The stand will also include various digital displays showcasing ABB's other robots, together with demonstrations of B&R's latest products including its ACOPOSTrak flexible track system and adaptive machine technologies (see page 54 for more information on B&R).

"Manufacturing is increasingly being driven by changes in consumer behaviour that are demanding an expanding variety of products and delivery methods," says Julian Ware, UK & Ireland sales manager for ABB Robotics. "Our stand will help visitors to see how ABB's and B&R's technologies could help them to keep one step ahead."

STAND E70
www.abb.com

Vertical and horizontal packaging choices will be demonstrated at the PPMA Show

IMA Ilapak invites visitors to discuss its range of vertical and horizontal packaging solutions on its stand at the PPMA Show.

Besides HFFS flow wrappers and VFFS vertical baggers, the IMA Ilapak portfolio includes systems for modified atmosphere applications,



IMA Ilapak will be discussing its range of options on its stand

product handling solutions, counting and weighing systems and complete, fully automatic lines.

IMA Ilapak is part of the new IMA FLX hub, where the production of all machines in the flexible packaging chain converge.

STAND D10
www.ilapak.co.uk



Perfitherm will be showcased

Technology in filling and processing

Holmach will launch new machinery on its stand at the PPMA Show this year, including a 16 head rotary mass flowmeter filler from Antonio Mengibar of Barcelona that is suitable for handling household, chemical and personal care products at speeds of up to 250 containers per minute.

Mengibar's patented predictive filling software will also be demonstrated, showing how manufacturers can save product and reduce wastage during the filling process, the artificial intelligence being able to adjust the dose on every fill to achieve very tight filling accuracies, greater than 0.2%.

Meanwhile, Perfitherm, is the new quick-batch preparation system from Perfinox of Porto for the production of fresh mayonnaise, sauces and soups as well as pharmaceutical and cosmetic creams and emulsions. This scraped surface heat exchanger focusses on delicate handling with good mixing without shear, unless required.

Atlantic Engineering will be demonstrating fast changeovers on its inline filling concept as well as the patented Innofill large pouch filling system for foodservice pouches; Lyco Manufacturing's simulator for cooking and cooling of pasta, beans, rice, noodles and vegetables will be shown and a low volume/NPD cooker with vacuum cooking and cooling option from Roboqbo of Bologna completes the line-up.

STAND C30
www.holmach.co.uk

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PPMA Show Preview

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www.ppmashow.co.uk

Latest palletiser will be in action

A robot integrator shows palletising system on its stand

Robotic integrator Olympus Technologies specialises in delivering bespoke turnkey business projects across multiple business sectors, as well as creating 'off the shelf' robotic solutions for common business processes, including welding, palletising and laser marking.

The updated Universal Robot palletising system will be in action. Using a Bosch Rexroth linear slide integrated to the robot, the Olympus UR palletiser can handle up to 80 kg of product per minute with a maximum payload of 12.5 kg including end effector. The system de-palletises as well as palletises, picks single and multiple cases, and is able to palletise from two lines at the same time.

STAND A94

www.olympustechnologies.co.uk

Check systems are now offered in new easy-to-use formats

Faedah Solutions offer to clients three main products in its range including a new mobile App called Check Sure Barcode Validation that allows a variety of barcode types to be scanned, checked against the database, and then alert the operator if the barcode scanned does not match the product selected. This has been designed to be an enhancement to a factory's current paperwork systems and the first step into a paperless system.

Faedah Solutions also supplies the company's Check Sure CI – a portable data capture and logging system which can capture a variety of random input values from different triggers. Linked into the Logopak print and apply applicator it will log the amount of cases produced, cases per minute as well as other inputs.



The new mobile App from Faedah Solutions offers many user gains

The information can be graphically displayed on mobile tablets and, says the company, is ideal for continuous improvement projects to check specific areas, calculate accurate ROI before purchasing a full system.

Check Sure, the mobile paperless check system that is device agnostic is also offered by the company.

T 01733 666751

www.faedah-solutions.com



UET is using robotics in cartoners

Pouch and carton units are offered

Acer Machinery Solutions was set up by Emma Ridgway last year and represents Mespac and UET in the UK.

Visitors to the stand can discuss the latest additions to the technology available from both companies, including the cartoning range from UET. Recent installations have included a machine featuring Universal's collaborative robot. This flexible and adaptable automation driven by a brushless servomotor integrates different gripper applications programmable for small to medium sized pieces and reliably picks and places these into the cartons. Integrated with UET's patented size star wheel on the cartoner, the customer achieves flexibility and adaptability, being able to easily and simply change between different products and different cartons without lengthy changeover procedures.

Meanwhile, Mespac's range of sachet, pouch & stick pack packaging machinery, end of line equipment and soluble pod solutions can also be discussed at the three-day event.

New additions in the machine range include 'fill through spout' technology for top and edge spouted premade pouches; compact frame stand up pouch machines for smaller pouches and new stick pack machines for lower output requirements from 2 – 8 lanes.

STAND D64

www.acermachinerysolutions.co.uk

Tabletop label applicators will be joined by specialist product handling systems at show

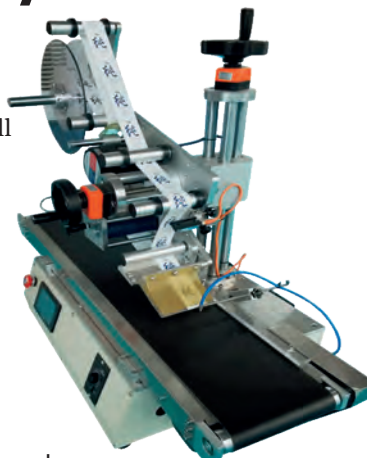
The recently launched Labelino range of tabletop label applicators will form the centrepiece of Travtec Group's participation at this year's PPMA Show, where the company will also showcase its range of specialist product handling systems, particularly suited to pharmaceutical and general packaging applications.

The Labelino range provides a cost-effective solution for the application of self-adhesive labels to cans, bottles,

pouches and cartons and is ideal for smaller volumes and a wide size range. It is particularly suitable for small to medium contract packers where frequent changeovers and limited production runs require maximum efficiency and minimum downtime. The Labelino is available as a full wrap-round, front & back, or top label applicator.

STAND J40

www.travtec.co.uk



The Labelino range from Travtec is on show

New unit handles cannabis

CME will showcase a range of automation solutions developed by the company for the legal cannabis sector at September's PPMA Show.

Making its debut will be CME's AutoCone, which produces cannabis joints at speeds of up to 30 items per minute. The system also achieves industry and application specific tolerances across a wide range of product weights and cannabis strains, each of which has its own unique characteristics.

Alongside this machine will be an example of the company's robotic pre-roll packaging system.



CME is showcasing a range of machines for legal cannabis sector

This system has been designed to handle multiple picks and sizes to ensure high levels of flexibility and is capable of up to 60 picks per minute. The system also incorporates quick adjustment features for different packaging quantities and formats. The stand will also include a video link to showcase CME's automated temperature probe which enables core product temperatures to be measured without the need for human intervention.

STAND C22

W www.cme-ltd.com

Coders are a flexible offer

At the PPMA Show this year, Rotech will be highlighting some of the recent, more unusual applications that its printing systems have been used for as well as handling tricky products using one of its special feeding systems.

Visitors to the Rotech stand can see the popular RF Lite sleeve and carton coder, the two-colour large-area direct box printer and its thermal inkjet (TIJ) printers all of which are described as clean, cost-effective printers ideal for printing variable information onto all types of products and their packaging. The company is inviting visitors to learn about its flexibility in its approach to coding.

STAND A37

W www.rotechmachines.com



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Feature: Confectionery introduction

The continued pressure on sugar consumption and the growing need for 'portable' food solutions has seen a move towards smaller confectionery packs that can be carried around, opened and then reclosed. According to Mike Pipe, head of global sales at Mettler-Toledo Safeline x-ray, a more health-conscious public wants ready-to-go products such as small, flexible packs for chocolate confectionery to meet these needs.

COVID-19 had a big impact on the global confectionery market, precipitating a 7.1% decline in 2020, according to a Fortune Business Insights report. But even during the pandemic, confectionery has played a key role as a comfort food during the lockdowns. And, with people going out less, online purchasing, which favours smaller pack sizes, has also increased.

The impact of these societal changes upon pack sizes has been matched by innovation in packaging technology. The market is now better able to respond to demands for portability by designing packs that are made from flexible and lightweight materials, and the convenience factor is helped by developments in re-sealable technology.

The industry is therefore well-placed to take advantage of the growing single-serve packaging market.



Paper bags to the fore



Italian chocolate maker ICAM uses secondary packaging equipment from Cama as it delivers the flexibility it needs

Market needs are changing

PPMA members are meeting sector trends for smaller packs, new materials and flexible processing/packing

"Manufacturers can always rely on product inspection technology to ensure that small pack products meet the same stringent standards for consumer safety, labelling accuracy and compliance with regulations as other pack sizes," says Pipe. For example:

- Precision weighing of smaller portion sizes is fulfilled by checkweighing technology
- Contaminant detection is facilitated by both metal detection and x-ray inspection
- Quality assurance checks, including packaging defects and brand integrity, are completed by x-ray inspection, and
- Label verification is carried out by vision inspection systems which check

each label against pre-programmed content, ensuring that all allergens contained within the small packs are declared.

Another packaging trend that is coming to the fore in the sector is the move away from plastics materials. This has seen BW Flexible Systems (BWFS) continue to drive sustainable solutions by offering machines that form and seal paper bags in confectionery. For instance, Perfetti Van Melle Group Italia, maker of the Golia Italian lozenge brand, and other major leading confectionery brands, have turned to the BWFS lines of vertical form fill & seal (VFFS) machines, the Logic 35 S and the Novus, for their capabilities to run paper efficiently and with

high quality output.

"Today's manufacturers are being challenged to prove that they are serious about sustainability," says Michael Dann, global product line leader at BWFS. "Our engineers are innately aware of this value and are continuously innovating to develop horizontal flow wrappers and other form, fill and seal machinery that makes it easy for food manufacturers to pivot when needed."

Perfetti Van Melle Group recently ordered and installed Logic 35 S baggers. In addition to their ability to produce paper bags, the superior machinability and adaptability of the Verus provides Perfetti Van Melle Group the flexibility needed to produce a wide variety of bags. ▶



Meanwhile the Novus, BWFS's trusted, high-speed continuous motion VFFS bagger, has also been installed to produce paper bags for a leading global confectionery brand.

These developments can all be tested at the recently opened Centre of Technical Excellence in Nottingham. This facility serves as an engineering, design, and educational centre that allows customers greater access to the development and testing of their machinery.

Meanwhile, this move to smaller packs, different materials and the resulting smaller volumes, means machine flexibility is now paramount in this market. And this is certainly true for Italian chocolate making company ICAM.

"We choose the best technology on the market," explains Antonello Ercole, industrial director at the company. "Our processing machines come from a world leader in Switzerland, which now uses us to showcase its capabilities, and secondary packaging solutions also come from a number one, the Cama Group.

"For secondary packaging we need maximum flexibility which is why Cama is so good for us," Ercole explains. "Our production lines often work 24/7 and each day on each line we can change the product type up to six times – hence the reason for maximum flexibility in the packaging process.

"In addition to this flexibility, we also need traceability," he continues. "We must have full connectivity, which Cama's machines provide."

Currently, the company has two projects running with Cama. One is a relatively simple, packaging cocoa powder into boxes, but another is for a US company that produces a special bar it calls PaleoVegan. "This is a complicated line, comprising nine recipes," says Ercole. "The flow-packed chocolate bars need to be packaged in pouches, then in cartons and in a wrap-around case."

In terms of processing, Andrew Strange of ProXES UK & Ireland says that creating chocolate is an art. "Whether you manufacture ganache, glaze, caramel, pralines, or chocolate spread, ProXES can supply the machinery and engineering solutions to master that craft," he asserts. The company's brands FrymaKoruma and Terlet are household names for small artisanal and medium size manufacturers. "Their combined expertise allows us to take production to the next level," he tells *Machinery Update*. "Count on ProXES machines to upgrade your chocolate processing, to save energy as well as production costs and to ensure the best treatment of your high-quality ingredients."

www.bwflexiblesystems.com

www.camagroup.com

www.mt.com

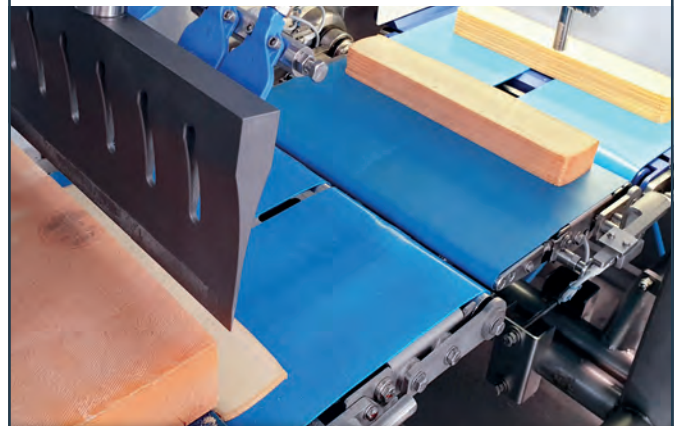
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Feature: Confectionery

Robots have made a huge difference to chocolate maker

When BOLÇI Bolu Chocolate needed to meet its promise of delivering chocolate products that are 'untouched by human hands', Omron and Innovas joined forces to commission a line of three Omron robots in the packaging section of the factory's production line, with the aim of enhancing production quality while also reducing labour costs.

The new robots have resulted in a 40% increase in production capacity and a 20% workforce saving. They have also enabled BOLÇI to provide shorter deadlines to its customers.

Currently exporting to 13 countries, BOLÇI also wanted to increase its production capacity and efficiency, improve its infrastructure and minimise production errors.

Prior to introducing the Omron robots, the chocolates were placed manually into dividers in the packaging area. However, when integrator Innovas looked at the production capacity required and the range of products to be used, it not only developed the robot application in conjunction with Omron but also embraced the importance of BOLÇI developing a culture of operators working alongside the robots.

The integrator looked for a compact solution for this project with the aim to supply everything from a single channel.

The type of products on the production line vary and BOLÇI required the variations to be arranged rapidly in the same style of box and so Omron suggested its four-arm Quattro robot, which is compact and has a kinematic structure. This model was selected due to its speed and flexibility, as well as its ability to cope with the variety of products.

Omron subsequently recommended its PackXpert programme, which utilises



Untouched chocolates

BOLÇI Bolu Chocolate vice chairman Deniz Aksoy says this project has transformed one of its business processes and has provided a good start to reaching Industry 4.0-type automation

a wizard-based user interface and meets the needs of applications in the packaging sector.

The robots pick and place the chocolates into the dividers, saving time and minimising the amount of labour required. The three robots work in sync with each other as part of an integrated system that includes visual inspection, safety and the robotic systems.

In operation, one person places the dividers on the conveyor and another feeds chocolates through the 12 feed channels. There is also a final visual check on the output

of chocolates before they are sent to the packaging area.

The chocolates are brought to the robots via conveyors and a camera system checks their arrangement. If the products are in the wrong position, the robots capture them using a vacuum system and then arranges them accordingly.

In the packaging area, the three robots place the chocolates into boxes (about 40 different sizes and types) and dividers. On a user-friendly screen, the operator chooses the boxes to be filled and the appropriate mechanical adjustments are made.

The system has four different chocolate feeding entry points for each robot, where up to 12 different chocolates can be stacked in four boxes at the same time.

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Feature: Confectionery



ixapack Global has supplied end of line options for confectionery while Partners in Packaging has devised a clever tray denester for chocolates

Meeting diverse needs

PPMA members have been developing and installing a wide range of equipment to meet the automation needs of the confectionery market

The confectionery sector is an area in which ixapack Global has installed equipment from its end of line range for the final packaging of various sweets and chocolate products.

For instance, a case packing solution for doypacks of chocolate sweets included a two-robot case packer and a lidding module which enabled the customer to fully automate its packaging process. The case packer, which unstacked cardboard blanks, filled the cases and then sealed them using a single machine is packing up to 200 doypacks per minute.

At the same time, four RSC case erectors were supplied to an Indian client to provide a solution for the packaging of sweets in jars or bags. This line, which consists of four American case erectors, also includes a case filling module within each machine.

These machines were custom designed to handle different sized jars weighing between 800 g and 4 kg and bags of sweets from 200 g to 400 g. Each gripping system and also the grouping of products

was therefore developed to respond precisely to these diverse needs, while accommodating the desired layout of the products inside each of the cases.

Meanwhile, Partners in Packaging (Machine Systems) was approached by a large Midlands-based chocolate company that was looking to automate the loading of trays for chocolate assortments on its indexing robot. "The challenge presented to us were the long pauses in between the conveyor indexing four rows of six trays each time, meaning that we either had to denest trays very quickly when the conveyor was moving, or look for an alternative solution," explains Duncan Macintyre of Partners in Packaging.

The company therefore designed a system based on its A Series tray denester-placer together with a speed linked, servo driven transfer conveyor as an interface between the denester and the robot conveyor. In operation, the denester loads trays to the transfer conveyor during the 'pause' cycle of the robot conveyor, one row of six at a time, priming four rows with trays. Then, when the robot conveyor indexes,

the unit matches the speed with the transfer conveyor which loads the robot conveyor with the four rows of trays.

This installation replaced at least four operators hand loading trays.

Confectionery manufacturers share common obstacles when considering a product handling solution for fragile items which has led to Piab developing a range of different solutions including suction cups that are able to handle everything from brittle sheets of chocolate to pralines, and chocolate Easter eggs. The suction cups are designed with an extra-long and thin lip enabling them to handle fragile products with special care. Approved for direct food picking, the nimble cups will guarantee safe, secure and hygienic automated processes.

And finally, UPM has supplied manufacturer of snack bars Fullwell Mill with a conveyor system designed to increase hand packing output to 150+ bars a minute. The company incorporated variable speed control on each conveyor with strategically placed emergency stops and ensured the total system was modular to allow for future expansion at the company.

www.ixapack.com

www.partnersinpackaging.com

www.piab.com

www.upmconveyors.co.uk



Special suction cups are used

Delivering a weigh/filler

A weighing solution that takes large bags of sweets to be filled into jars has been developed by Autopak Machinery for a couple of confectionery manufacturers. These bespoke options have removed the need to manually fill the jars, taking away a very labour intensive process that is not always accurate.

"We pride ourselves on being able to offer cost effective bespoke solutions to our customers with kit that is proven to be extremely reliable," explains Shaun Davies, sales manager at Autopak Machinery.

In this application, the machine is manually filled at ground level where a Z elevator takes the sweets to the top of the 14 head weigher. "We are using a 14 head linear weigher with a 2.5 litre weigh hopper and timing hoppers to accurately weigh out up to 1.5 kg of drops," he tells *Machinery Update*.

With the timing hopper, the machine is able to prepare a second drop while the jars are moving into position. The 14 head weigher drops the agreed weight through a trouser leg either to the left or right, where a jar is prepared and waiting. "We have used a dimple plate feed chute to help control the feed of the sweets into the jars to accurately fill them to the brim, without any damage," says Davies.

Filled jars are then transferred to a holding table at the end where they can be removed manually. Meanwhile, access to the weigher is via a custom built platform.

The system is controlled through one central HMI, with two secondary HMIs controlling the jar filling. "These are pre-programmed by our experienced engineers for test products," says Davies, "and training is offered to set up any further products".

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The 14 head weigher forms part of the accurate Autopak Machinery units



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Feature: Confectionery

Demand for latest medicated sweets is soaring today...

Baker Perkins' most recent developments for the confectionery industry are focusing on lower output starch-free cooking and depositing equipment to meet the soaring demand from the functional, medicated and healthcare markets.

Confectionery is a palatable and agreeable alternative to traditional capsules or pills particularly among children, as gummies are visually appealing with a pleasant taste. Taking a daily supplement in this format becomes a treat, not a chore and the ability to create a variety of 3D shapes with the option of sugar-free production also extends any marketing opportunities. And, the possibilities are vast.

Jellies and gummies are used to deliver a variety of functional ingredients including vitamins, minerals, protein, fibre, Omega-3, probiotics and energy supplements. Hard candies include antiseptics, menthol and eucalyptus oil to alleviate the symptoms of minor ailments such as coughs, colds, sore throats and nasal congestion.

This growing market creates the need for lower output cooking and depositing plant, says Baker Perkins, as unit consumption of healthcare products is low, perhaps one item a day – unlike for confectionery where a bag full of candies can disappear quickly. This, combined with a wide range of different formulations,



Jellies and gummies are more palatable to children



Functional is the new way

Since they were introduced, 80 ServoForm Mini depositors have been delivered by Baker Perkins

means that batch size and output requirements are lower than a typical confectionery line.

Outputs from 500 to 1,500 kg an hour are achievable with industrial-scale equipment but for lower outputs and/or very small batch sizes Baker Perkins has developed the 50 kg an hour ServoForm Mini small batch system. Indeed, the range now comprises batch and continuous options for both cooking and also depositing.

The system is naturally hygienic, making it ideal for production to validation standards for healthcare products. Based on Baker Perkins' proven ServoForm high-output depositing technology, the ServoForm Mini deposits a high quality, smooth product in 2 to 16 g pieces, with a consistent size and shape, and high piece weight accuracy.

In addition to the healthcare arena, it is also used for standard confectionery by start-up companies and niche manufacturers, and as a lab or pilot-scale machine by established

confectioners. The ServoForm Mini is designed to be flexible, and changing products is simply a matter of picking up a different mould set. Metal moulds for hard candies can be rapidly replaced with plastic or silicone for jellies and gummies.

Meanwhile, the technology also continues to expand. The latest development broadens the range of gummy delivery forms for the functional and pharmaceutical sectors through a completely new format – the gummy cap. The important difference is the incorporation of the active ingredient in a liquid or gel centre-filling instead of the gelatin gummy.

Baker Perkins believes that starch-free depositing has made confectionery production more efficient, hygienic and significantly more cost-effective in every aspect than traditional alternatives: capital cost, floor space, energy consumption, labour and consumables.

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Feature: Confectionery

Only one operator is now needed for the chocolate line

A 32-head multihead weigher from Ishida Europe is providing fast and accurate weighing of mixed bags of chocolates for Chocolates Valor, one of Spain's leading chocolatiers.

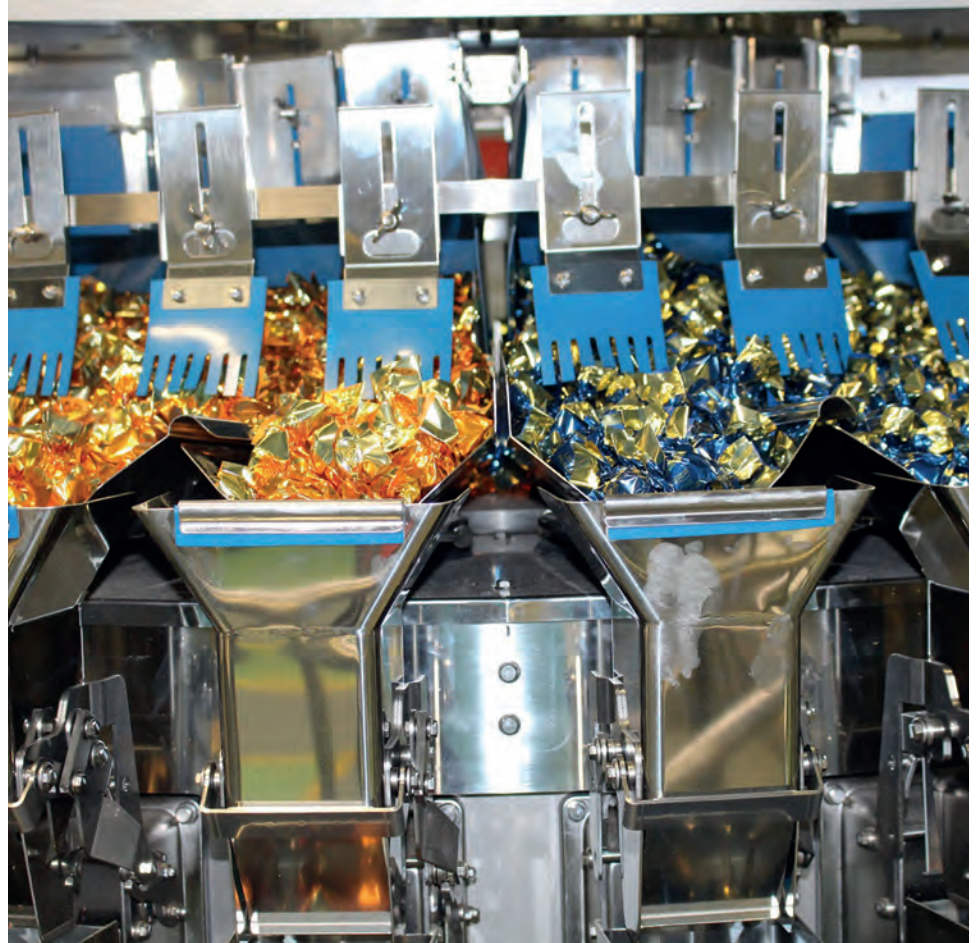
The Ishida CCW-RV-232B has the ability to handle two, three or four products simultaneously for discharge into the same bag, giving Chocolates Valor the flexibility to respond to changing customer orders. For example, during the peak four months in the run up to Christmas, the machine is operating 24 hours a day, handling 1.6 tons of product every hour.

The weigher is packing a variety of bag sizes – 180 g, 250 g, 470 g and 1 kg – for both Chocolates Valor's own brands as well as private label products. Speeds are restricted by the current manual packing of filled packs into cartons, but the machine is running at up to 80 packs per minute on the 470 g sized pack. Changeovers can be carried out quickly by operators calling up the stored pre-sets on the intuitive and easy to use touchscreen remote control unit.

The ease of use of the machine means that just one operator is now required to manage the entire line.

Each of the 32 heads of the weigher are divided into sections to handle the different products – for a four-mix product, therefore, eight weigh hoppers are dedicated to each sweet variety with a second set of booster hoppers (fitted underneath each weigh hopper) doubling the number of available hoppers to 16 for each mix section. All weigh and booster hoppers utilise the Ishida RV's triple combination calculation software that can calculate three optimal weight combinations, double check them and then select the one nearest to the target weight – and all in a single cycle.

Chocolates Valor reports that the Ishida weigher is achieving



No mix up for weighs

The 32-head Ishida multihead weigher has the capacity and consistency to maintain each of the production targets, particularly during the peak Christmas season

excellent accuracy to within a few grams of the target weight. This is particularly important for some products where there is a guaranteed number of items in each pack, meaning the weigher is able to deliver this with only minimum giveaway.

The company anticipates that payback on the weigher will be within just two years.

This is the second Ishida multihead weigher installed at Chocolates Valor's factory in Villajoyosa, near Alicante. The company also operates a 14 head weigher for packing mono products into bags, and this made Ishida the natural choice when it

needed a mixed weighing solution to meet the requirements of a major customer.

"We know Ishida weighers for their high performance, reliability and ease of operation, and the company offered the best solution on the market for our requirements," comments Pedro Miguel Marcet Arlandiz, Chocolates Valor's engineering manager. "The 32 head weigher gives us the flexibility to meet a variety of pack sizes and has the capacity and consistency to maintain production targets, particularly during the peak Christmas season."

T 0121 607 7700

W www.ishidaeurope.com

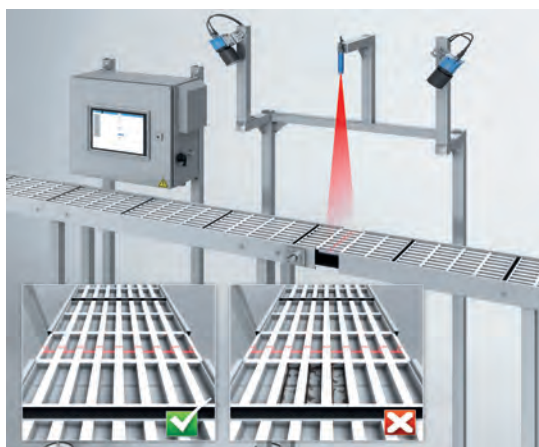
Find the sweet spot in moulds

Solving a **chocolate-making** challenge lead to a modular, easy set-up system using 3D cameras

Sick UK has set up a modular system that, says the company's Neil Sandhu, uses one of the world's most powerful 3D cameras to solve a chocolate-making challenge.

Many chocolate products are manufactured using a continuous-cycle moulding process that uses a pliable polycarbonate mould spanning the width of a conveyor. Molten chocolate is poured into these moulds and once cooled, the mould is turned upside down for gentle product ejection. After washing, each empty cavity must be inspected for traces of product stuck to the mould before it can then be re-used.

Early quality control solutions were mechanical and required costly clean-in-place processes and so Sick's 3D laser triangulation vision system began to be adopted by major global brands.



Sick says the MQCS reduces development time required

Now, using the highly accurate Ranger3 streaming camera, even the tiniest residues in each mould cavity are reliably detected in operation.

It's also easy to set up and 'teach'

the system, which can recognise up to 64 different product changes and begin a new inspection automatically.

But the true success of the system, explains Sandhu is down to a control concept that enables easy real-time, integration into the machine PLC. Data from two Sick Ranger3 cameras positioned above the line is first calibrated and merged into one stream. Images from each individual mould cavity are separated, extracted and compared with a 'good' template, before a digital signal outputs the inspection result. With the PLC interface and a network switch, it is easy to configure even complex image processing into

production controls.

"We recognised the potential of this innovative control concept to give versatility to many other vision applications and so the MQCS (Modular Quality Control System) is now offered as an 'off the shelf', multifunctional machine vision system," says Sandhu.

Customers purchase a complete system which includes vision sensors, laser, pre-written software, control cabinet with touch-screen HMI and a Sick (Telematic Data Collector) application controller.

"Suitable for code reading, 2D or 3D inspection duties, the MQCS significantly reduces the cost and

development time needed to set up inspections involving detection and measurement," says Sandhu.

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Labelling, Coding and Marking



Fibre-based packs are labelled

A full wrap label brings egg savings

Multivac says its L 310 full wrap labeller is an efficient solution for egg packs made of either fibre-based materials or plastics, offering several benefits for users. Not only is it designed to make fresh egg packs attractive, but it also closes them with a secure seal.

The latest labeller delivers automated C and also D labelling (as well as traditional top labelling) at an output of up to 120 packs per minute. Packs with a base width up to 250 mm and a height of 140 mm can be accommodated, while the maximum overall label width is 500 mm. The full wrap labelling option is flexible for users as label shape, material shape and printing can be individually tailored to the pack.

As well as offering many marketing options to provide a high-value look, the label and packaging material can be matched, so that the constituent parts can be separated to meet recycling requirements.

When the label is used to seal the egg box closed, this means that for retailers and consumers, the products cannot be exchanged or contaminated with bacteria. This makes it the ideal choice for aseptic or pasteurised eggs for the catering trade.

T 01793 425800

W www.multivac.co.uk



Plastics packs are also labelled

Low carbon food label alternative is launched

Secondary packaging company TrakRap believes it has solved one of the biggest barriers to fully recyclable secondary packaging for the food and drink sector by launching TrakCoder, a sustainable, low-carbon alternative to ITF (interleaved 2 of 5) labels which will save millions of pounds per year.

At present, LLDPE film used in both cold wrap or shrink wrap which has a paper ITP barcode label fixed to it becomes immediately 'contaminated' and cannot be easily recycled.

TrakRap has therefore introduced the TrakCoder; an ITF label printed onto the same substrate (LLDPE) as the secondary pack.

The printer uses a specialist ink which will breakaway during the recycling process, making it affordable and easy to recycle the full secondary pack after use.

To create the TrakCoder solution, TrakRap has integrated a thermal transfer



A TTO unit has been integrated by TrakRap for this new option

overprinter (TTO) into its packaging system, which uses industry recognised software and is even capable of checking its own print. The printer allows an ITF to be printed on the same substrate as the main pack, removing any chance of contamination.

The TrakRap system completely eliminates the use of heat from the packaging process using an ultra-thin stretch film to 'cold wrap' products instead.

The company therefore

believes that combined with its new TrakCoder development, manufacturers can expect an additional 30% cost saving on labelling.

"We have created a solution which will offer manufacturers and retailers an alternative to traditional ITP labels which will significantly reduce their CO2 emissions and is a fraction of the cost of paper adhesive labels," says Martin Leeming, CEO of TrakRap.

T 01695 555576

W www.trakrap.com

Workflow software firm has been acquired to expand a coding company's overall offer

Markem-Imaje has acquired Blue Bite, a leading provider of workflow software solutions for brand owners and product marketers to expand its portfolio of software solutions serving product identification, traceability, authentication and consumer engagement applications.

Founded in 2007, Blue Bite is headquartered in New York City and develops robust easy-to-use consumer engagement software tools that enable brands to create custom

consumer digital experiences through mobile phones.

The demand for digital consumer engagement is becoming increasingly important for consumer product manufacturers as they see many benefits of interacting with, and selling directly to, their customers online. The acquisition of Blue Bite strengthens Markem-Imaje's position in software solutions catering to the broad spectrum of needs of FMCG, pharma and industrial

manufacturers, including product identification, traceability, brand protection and consumer engagement.

"Growing our portfolio of software solutions to cater to the growing needs of our customers around product identification, traceability and authentication is a top strategic priority for Markem-Imaje," says Vincent Vanderpoel, the CEO of the company.

T 0161 864 8111

W www.markem-Imaje.co.uk

Partnership is designed to deliver a hybrid solution for labelling gain

Labelling software company PRISYM ID has joined the Siemens Digital Industries software solution partner program. Together with Siemens, the company is working on a new hybrid solution designed to digitally integrate all labelling processes with an organisation's product lifecycle management (PLM) and manufacturing operations management (MOM) platforms.

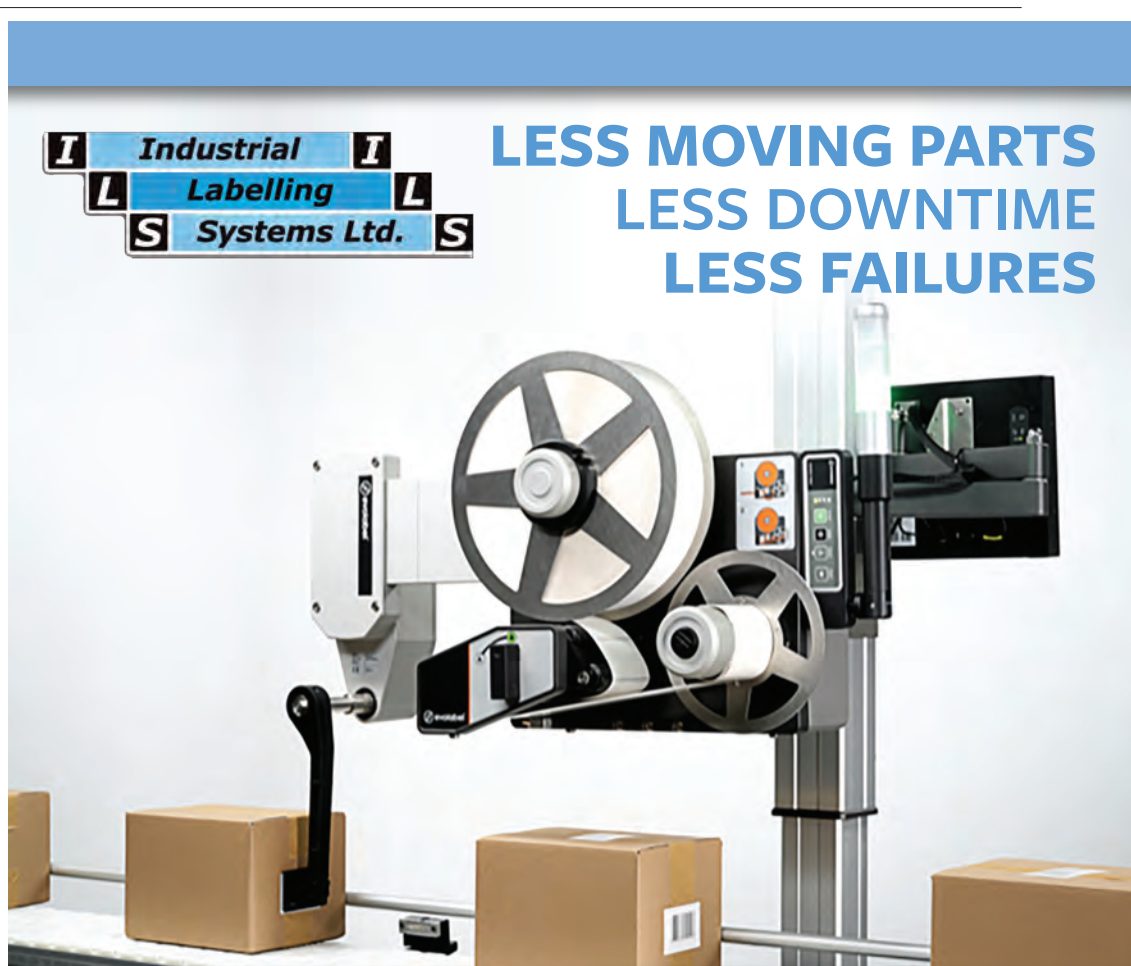
As a Siemens partner, the design and regulated label management capabilities of the PRISYM 360 labelling platform can be combined with Siemens' Teamcenter software for PLM and Opcenter software for MOM systems to create a more seamless process. This solution is designed to offer a suite of integrated software tools for efficient re-use of standardised and bespoke label content, with complete digital traceability to support compliance processes.

MEDICAL DEVICE USE

Siemens' Medical Device Labelling Solution is intended to support labelling needs across the whole lifecycle by providing a fully digitalised approach to labelling, spanning requirements, concept, design, approvals and production. Designed for the Medical Device industry, this solution has been inspired by customer feedback on labelling needs.

"Integrating product lifecycle management processes with label information has never before been done with the level of granularity and sophistication you get from bringing together two such outstanding products," says Kevin Grygiel, of PRISYM ID.

www.siemens.co.uk



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Who What Where

Who's done what and gone where...

Spiroflow



Stephen Bunn has joined Spiroflow as a senior support engineer, a new

role that will expand the technical sales capability of the company. A professional engineer, he has worked in the powder handling industry for nearly 30 years. His new role is described as pivotal in managing projects for the company, where he will report to technical sales manager **Chris Brennan**.

Apex Dynamics



John O'Malley has returned to Apex Dynamics, bringing

even more experience and technical know-how to his new role in the technical sales team. "It's great to have John reconnecting with the product that he knows so much about and this will really benefit our customers," says Apex md **Mike Gulliford**.

PMMI



David Newcorn has been named executive vice president of the PMMI

(The US-based Association for Packaging and Processing Technologies) Media Group as a nod to the increasing value of digital expertise in driving business strategy. The 26-year company veteran will guide future strategy in his new role.

tna solutions



Magdy El Dessouky, who in 2016 joined tna as general manager in

Australia, is now general manager of North Africa.

Endline Robotics



Suraj Patel has joined Endline Robotics as UK sales manager. Appointed to

grow the robotics company, he will work with manufacturers across the UK to address their palletising needs. He will also work closely with Endline's strategic partner Fanuc.

RARUK Automation



Marcus Holmes has joined RARUK Automation as a new area sales

engineer, to handle its UR collaborative robots and UR+ plug and play accessories.

Syntegon



Dr Silke Blumer has been made the vice president

product management and strategy at Syntegon Technology tasked with managing the strategies for products of the global business. With Blumer at the helm, the company will redouble its focus on new sustainable options.

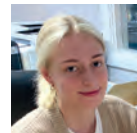
Schubert Packaging Systems



Johannes Schubert (centre) is the new managing director of Gerhard Schubert subsidiary Schubert Packaging Systems, following in the footsteps of his father **Gerald Schubert**. Grandson of company founder **Gerhard Schubert**, the third generation is now also represented in a key role in the company. Johannes has been working in the family business for many years, initially training as an industrial mechanic.

Partners in Packaging

As part of its continued growth, manufacturer of tray and card feeding systems Partners in Packaging has welcomed several new people to its team.



May Rowden, a business management graduate, is the new

production co-ordinator at the firm and is responsible for introducing new stock control and production planning software while working with suppliers to help the company to become more efficient and reducing overall delivery times.



Dave Wolstenholme has joined the business from Bobst, one of the

leading suppliers of printing and converting equipment, bringing over 25 years of experience in the printing and textile industries to his senior mechanical fitter role.



Lenin Ndlovu is the new apprentice at the company and is studying

for his NVQ in mechanical and electrical engineering at Rochdale Training Centre on a day release basis.

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NEC, Birmingham

www.ppmashow.co.uk

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www.packexpolasvegas.com

28 - 30 SEPTEMBER

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Nuremberg, Germany

www.fachpack.de/en

4 - 8 OCTOBER

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5 - 7 OCTOBER

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E: sales@sealpac-uk.com www.sealpac-uk.com

Sparc Systems Ltd
Malvern, Worcestershire, WR13 6NP
T: 01684 310000
E: sales@sparc-systems.co.uk
www.sparc-systems.co.uk

CHECKWEIGHERS

Anritsu Invis Ltd
Unit 3, Scott Road, Luton,
LU3 3BF, UK
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www.anritsu.com/en-GB/invis

Fortress Technology (Europe) Ltd
Banbury, Oxon, OX16 1RH
T: 01295 256266
E: Sales-UK@fortresstechnology.com
www.fortresstechnology.co.uk

Ishida Europe Ltd
Kettles Wood Drive,
Woodgate Business Park, Birmingham B32 3DB
T: 0121 607 7700 F: 0121 607 7666
E: info@ishidaeurope.com www.ishidaeurope.com

M.D.S. Ltd Metal Detection Services
St. Martins Studios, Greenbank Road,
Sale, Cheshire M33 5PL
T: Sales 0161 286 8755 T: 0161 286 8750
E: sales@mds.org.uk www.mds.org.uk

Reiser UK Ltd
The Reiser Building,
Maidstone Rd, Kingston, Milton Keynes, MK10 0BD
T: 01908 585300 F: 01908 585400
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Yamato
Leeds, LS11 5AL
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E: sales@yamatoscale.co.uk
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CODING & MARKING

ALS Advanced Labelling
Systems Limited
Unit B, Bandet Way, Thame, Oxon, OX9 3SJ
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ATD Marking Systems
Marley House, The Mill, Great Bowden Road,
Market Harborough, Leicestershire, LE16 7DE
T: 01858 461014 F: 01858 436900
E: mail@atduk.com www.atduk.com

atwell
self-adhesive Labellers
T: 01444 239970
E: sales@atwell-labellers.co.uk www.labeller.co.uk

Clearmark Solutions (ICE)
Nottingham NG15 0DP
T: 01159 640144
E: enquiries@uk.interactivecoding.com
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Bar Hill, Cambridge
CB23 8TU
T: 01954 782551 E: enquiries@domino-uk.com
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edding
T: 01727 84668 E: techsales@edding.co.uk
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Linx Printing Technologies Ltd
St. Ives, PE27 5JL
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E: uksales@linx.co.uk www.linx.co.uk

Open Date Equipment Ltd
Mitcham, Surrey CR4 4DG
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Rotech Machines Limited
Hertfordshire AL7 1AJ
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Sojet
T-MARK®
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www.t-mark.co.uk
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call: 0870 803 1877

Weber Packaging Solutions
Macmerry Industrial Estate,
Tranent, East Lothian, EH33 1HD
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E: sales@weber.co.uk www.weber.co.uk

CODING MANAGEMENT SOFTWARE

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E: sales@olmec-uk.com www.olmec-uk.com

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CME Ltd
Combe St Nicholas, Somerset, TA20 3NL
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E: cme@cme-ltd.com
www.cme-ltd.com

Olmec-UK Ltd
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E: sales@olmec-uk.com www.olmec-uk.com

**CONFECTIONERY WRAPPING
MACHINES**

CME Ltd
Combe St Nicholas, Somerset, TA20 3NL
T: 01460 269500
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www.cme-ltd.com

Paramount Packaging Systems
T: 01252 815252
E: fuji@paramount-packaging.co.uk
www.paramount-packaging.co.uk

CONTRACT LABELLING

ALS Advanced Labelling
Systems Limited
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atwell
self-adhesive Labellers
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Premier Labellers
British Manufactured Labelling Machinery
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Riley Automation
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 www.shemeshautomation.com

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FFS HORIZONTAL (FLOWWRAPPERS)

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 Integrated Packaging Technology
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 From Process to Pallet www.bradmanlake.com

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 Aylesbury, Bucks HP19 8DP
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FILL & SEAL MACHINES

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FILLING: ASPETIC

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 Leighton Buzzard, Beds LU7 4UH
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 Silver Court Watchmead, 3,
 Welwyn Garden City, AL7 1LT
 T: 01707 292820
 E: enquiries.uk@sidel.com www.sidel.com

FILLING: BAG/SACK

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 Sandy, Bedfordshire SG19 1RS
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FILLING: CAPSULE

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 Precision is Everything
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Holmach Ltd
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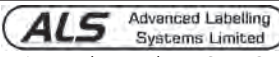


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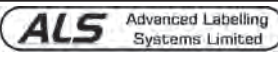


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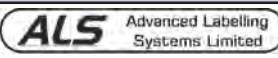


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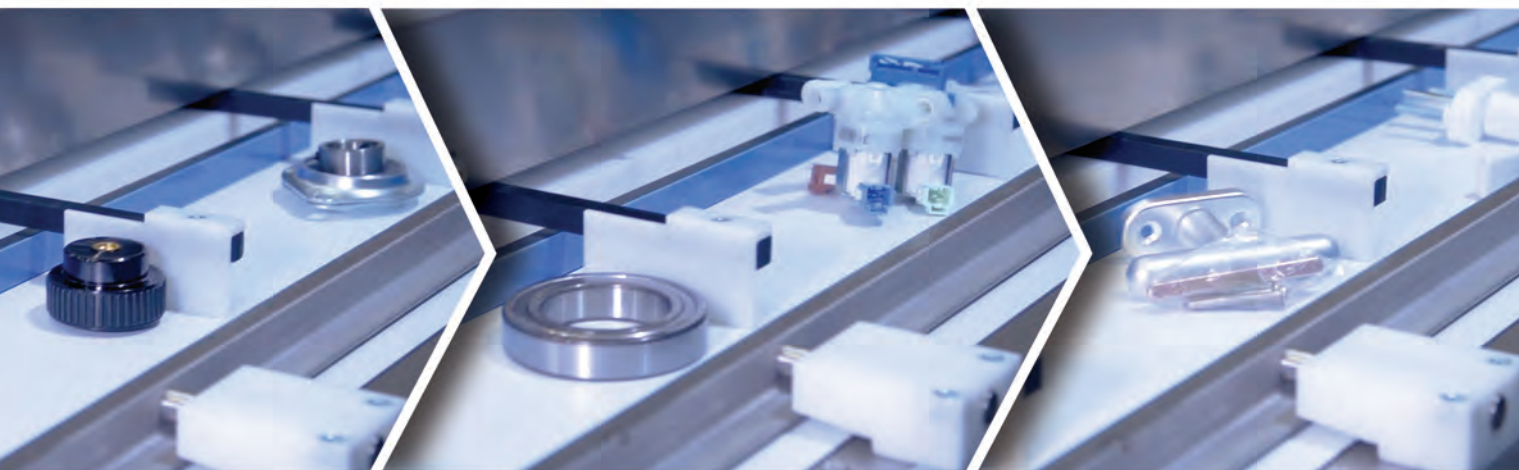
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