

INDUSTRY UPDATE

Tel: 01562 756960 | www.industryupdate.co.uk | May 2022 | issue 237

Inside this Issue



Abacus Flooring

Outstanding Achievement

See them on page..... 5



Vision Engineering

Engineering

See them on page..... 8



Surplex

Manufacturing

See them on page.....13



UNISIG

Machinery

See them on page.....19

Contents

- 2-4 Editor Recommends
- 5 Outstanding Achievement Award
- 8 Engineering Update
- 9 Test, Measurement & Monitoring Update
- 10-13 Packaging Innovations Preview
- 18 Process & Control Update
- 21 Electronics Update
- 24 Sustainable Materials Update

Green & yellow laser modules with new wavelengths



Besides the already well-known green laser modules from Lasence with the wavelengths 532nm & 545nm, new laser modules are now available with wavelengths 520nm, 555nm and 577nm. These laser modules from the GLM series are offered with output powers up to 1W, have a fast rise time and are very reliable.

The typical output beam has a diameter of 0.5mm with divergence ≤ 40 mrad. With dimensions of just 18mm x 55mm (Diameter x Length) they are very compact for this high output power.

There are plenty of applications in which these laser modules can be used:

- ▼ **Biomedical Applications:** Cytogenetics, Optogenetics and Intravital Imaging
- ▼ **Clinical Applications:** Photoluminescence Microscopy, Robotic Surgery and Endoscopy
- ▼ **Industrial Applications:** Agriculture, Food and Semiconductor Inspection.

Contact
sales@frlaserco.com
www.frlaserco.com

Regulations for Smoke and Carbon Monoxide alarms will change

The government has published the results of a consultation proposing amendments to the Smoke and Carbon Monoxide (CO) Alarm (England) Regulations 2015 and Approved Document J.



There are several amendments to the requirements for CO alarms.

Private and social landlords must install a CO alarm in any room of a property that contains a fuel burning appliance. Cookers are excluded, however, the use of CO alarms in rooms with fuel burning cookers is still recommended within BS EN 50292.

New build and materially altered properties in England must have a CO alarm installed wherever a fuel burning appliance is present (excluding cookers), and any CO alarm installed must comply with BS EN 50291-1.

Landlords can use battery or mains-powered alarms; there is however no requirement for CO alarms to be

interconnected with a property's existing Smoke alarms.

Social landlords will be required to install at least one Smoke alarm on each storey of their properties, where there is a room used for living accommodation. Any Smoke alarms installed must comply with BS EN 14604.

Landlords will be required to repair or replace alarms once notified of a fault, however regular alarm testing will remain the residents' responsibility.

Read more: <https://bit.ly/312dwgR>

T 01691 664100
enquiries@aico.co.uk
www.aico.co.uk



Save on waste costs with HSM Baling Presses!

Volume reduction up to 95%

Perfect HGV load utilisation

www.hsm.eu

HSM

Automatic flow limiting valves

Servicing Valve Model AFL

Accepts automatic flow limiting cartridge, inserted after installation

- > Balances flow of water to appliances
- > Saves water and energy
- > Prevents splashing
- > Applications: wash basins, baths and sinks, bidets, WCs (strainer), dishwasher and washing machines version



15 & 22 mm lever optional



8 flow limiting cartridges

“Equi-Flow”

Shower Flow Limiter Model AFL

Ensures even distribution of water to showers in multiple occupancy buildings

- > 4 available flow rates 0.07, 0.10, 0.13 or 0.17 Lt/s
- > Easy to install – no tools required
- > Saves water and energy
- > Double Check Valve version available providing Fluid Category 3 backflow protection



Arrow Valves

Tel: 01442 823 123
Email: marketing@arrowvalves.co.uk
www.arrowvalves.co.uk

Follow us on Twitter  @inu_uk

TIG welding between 230 A and 600 A: The new Tetric XQ series from EWM

Smart, robust and sophisticated with digital connectivity – EWM continues the XQ series success story, introducing TIG welding machines in the power



range from 230 A to 600 A. Whether modular or demodular, the configurable machines from the Tetric XQ series can be adapted to any task for a welding experience that's more digital, more universal, and more personal. The machines are also user-friendly and boast increased efficiency with lots of clever little details. The result: a new TIG welding experience that ensures optimum, reproducible results.

What makes the new Tetric XQ machines from EWM so special? The new machines are extremely energy efficient and offer high process reliability alongside improved operating comfort, allowing users to adapt to the relevant welding task. Users can also choose between various rated outputs from 230 A to 600 A for DC or AC/DC welding processes and take advantage of an above-average duty cycle. The Tetric XQ machines come with many different smart TIG and MMA functions to make the welder's everyday work across a wide range of applications even easier. They are also compatible with gas or water-cooled welding torches and extensive selections of accessories to ensure perfect configuration.

T +44 (0)1670 505875
info@ewm-morpeth.co.uk
www.ewm-group.com/uk

Plan maintenance to maintain hygiene standards, reduce downtime & maximise productivity

As winter draws to a close, now is the time to do some general checks on humidity control equipment to ensure it is



in good working order and any spare parts are in stock. For most environments, controlling relative humidity within 40-60% will improve both mechanical and human performance and wellbeing.

By setting up a Planned Maintenance contract, factory or facilities managers can have peace of mind that equipment will be regularly serviced and maintained, ensuring consistent performance and pre-empting breakdowns due to out of date or faulty parts. Providing stable and consistent conditions for modern manufacturing production systems, human comfort and staff wellbeing, means that production speeds are maximised and downtime minimised, helping you deliver increased productivity and profit.

Of particular focus are the potentially harmful hygiene implications from build-up of bacteria if equipment is not regularly serviced and maintained, and which is also likely to lead to increased costs down the line when having to work reactively to correct faults or outbreaks.

Planned Maintenance is a cost-effective way of keeping equipment working at its optimum throughout its life, reducing workload and worry for site managers.

T 01372 571200
www.humiditysolutions.co.uk

Baumüller Services UK

Baumüller Services UK have been operating as a member of the Baumüller group since 1986. Since the introduction of our service and support office in Surrey in 1992, we have undergone steady growth launching a further service workshop in Mossley, Lancashire in 2007 and upgrading to a larger workshop in Rugby Park Stockport in 2012. Due to market demand in 2018, we finally moved into our highly developed 20,000 square foot workshop with 40 ton crane capacity in Aurora industrial park in Stockport Greater Manchester.



The service unit of the Baumüller Group takes care of the repair and preventive maintenance of motors and generators from all manufacturers. We offer reactive, preventative and condition based energy saving

solutions from a single source, tailored to your needs and available 24/7.

Baumüller Services ensures the long-term supply of spare parts for not only Baumüller Drives and motors but other OEM products on demand. Our authorised dealers and stockist partnerships with Cummins Generators for Stamford AVK and Newage alternators, EMZ Germany for Medium & High Voltage motor supply and Crompton Greaves for Low Voltage AC induction motors, enables Baumüller Services UK to support the key markets and regions we serve.

T +44 (0)161 432 7824
www.baumueller-services.com/uk

National Sewerage Association

Working to Raise Industry Standards

- N.S.A.** Represents the interests of companies associated with the survey, operation, maintenance and renovation of sewers, drains and pipelines.
- N.S.A.** Acts as a forum for its members to ensure that technological developments go hand in hand with improved operational efficiency.

Standards
Pro-active in setting and maintaining training standards within the industry. Representation on standards and parliamentary committees and regular consultees on a broad range of Legislative and Regulatory matters.

Members
Our members range from sole proprietors to divisions of public companies providing services such as:

- CCTV Inspections
- Sewer Flow Surveys
- Systems survey and Mapping
- Drain and Sewer Cleaning
- Equipment Manufacture
- Training

For more information visit our website: www.sewerage.org or call Val Gibbens on 020 8330 0123

High Speed Doors

Aluminium Support Legs and Head meaning easier and quicker installation. Built in integral Windbar system giving excellent wind resistance, no need for additional add on wind bars.

Designed for external door locations where wind resistance is Key. Variety of activation options available, from basic push button, to remote handsets, movement detectors, pull chords and induction loops. Safety features as standard, Multi Light beam and electronic safe edge.

Email: sales@dpdoorsandshutters.co.uk Website: www.dpdoorsandshutters.co.uk

dp DOORS & SHUTTERS LTD

Tel: 01142 889464

Logos: dhf, VICES, CHAS, IPAF, MADE IN SHEFFIELD, Constructionline

Boost efficiency & profit with humidity control

Steam Humidifiers, Dehumidifiers, Adiabatic Humidifiers, Service & Maintenance

Stable humidity control...

- Keeps machinery running at optimal performance
- Increases productivity & profitability
- Reduces static
- Reduces business disruption
- Improves health and wellbeing

Get in touch with our experts
01327 571200
humiditysolutions.co.uk

HUMIDITY SOLUTIONS
Independently better

SCAN ME

interface
FORCE MEASUREMENT SOLUTIONS

Load Cell, Torque and Pressure Sensor Specialist

Interface's new Global Standard product line - The G Series

- Three load cell types – the load button, mini S-beam & threaded In-Line.
- Capacities ranging from 200 Newtons to 50kN.
- Stainless steel with an environmental protection rating of IP64 or better.

www.interfaceforce.co.uk

YOUR data, YOUR processes, ONE system

Happy with your operational management processes but just wish they were all in one system? Or that your processes were easier to access for all your staff, contractors and consultants? Or do you need to know that the data stored is YOUR data and not owned and operated by your suppliers?

With the upgrade of the Vision property management software system, new features and quicker accessibility to the software, either direct or via the Mobile Apps, are all part of the new-look Vision Pro Software.

Vision Pro Software allows clients and contractors to manage ANY process related to the management of



premises, whether one or multiple sites. From audits – with embedded assets – such as fire risk, legionella risk, building condition, OH&S, H&S, maintenance with job allocation

and compliance email alerts, to asset tagging and management, asbestos management, document storage and audit trails. Integrated and interactive Dashboards not only highlight your risks and compliance but list actions/remedials, costs and visuals at the touch of a button, and can also generate and download reports and spreadsheets.

This is YOUR data, YOUR processes but in one, easy-to-manage system. Going digital could not be simpler.

For an online demo, call: 0115 9220600, email: info@visionprosoftware.com or visit: <https://tinyurl.com/2p8mhepy>

ENGEL WORKWEAR's sustainable & stretch-comfort collections help save the environment

Alongside a continual policy of developing products to keep ahead of the highest comfort and protection standards demanded by their customers, Danish manufacturer, ENGEL WORKWEAR also focus on making a positive contribution to aiding the Global climate challenge.

With comfortable and functional clothing designed for almost every work situation and a wide choice of sizes for both men and women, the company's 'Safety Super-Stretch' High Visibility range incorporates 50% of regenerated polyester REPVEVE® eco-fibres which are spun from recycled plastic bottles. Combined with Engel's FE Super Stretch fabric, the fibres are woven together into a polyester and cotton mix; the resulting flexibility of this sustainable, hard wearing but light-weight fabric allows the wearer to be clearly seen in daylight or at night and to be able to work unrestricted even in the most confined spaces.

By the use of regenerated polyester in the manufacture, the Environment benefits from significant consumption savings on energy, water and greenhouse gas emissions. Verified numbers of recycled plastic bottles used to produce the fibres are typically 19 for a pair of trousers, 20 for a work jacket and 37 for a boiler suit; the range is available in a choice of 8 different colour combinations.

Continuing its support of the Green Environment, ENGEL WORKWEAR includes the versatile 'Galaxy'



Engel Workwear's High-Vis sustainable 'Safety Super Stretch' (left) & examples of Galaxy sustainable workwear (right) – both made with REPVEVE® regenerated polyester from recycled plastic bottles.

range amongst its collections which now combine a mix of 65% sustainable REPVEVE® regenerated polyester fibres with 35% cotton. Giving strong protection, with the emphasis on style and fit, the range includes slim-cut, functional trousers and jackets available in a choice of two-tone colour combinations plus soft-shell and winter jackets, a comfortable fleece cardigan, bib-overall and boiler suit. Most items incorporate many practical details such as several spacious pockets giving quick and easy access to tools and personal accessories, concealed buttons and zippers; the jackets have adjustable cuffs and are reinforced with CORDURA.

There is also a wide choice of Galaxy sustainable workwear specifically designed to be practical, comfortable and stylish for women.

For more details, contact Gareth Bladen at: gbl@f-engel.com, telephone: +44 (0)7759 520034 or visit: www.engel.eu/en



Yorkshire Housing visits Aico Headquarters for a Product Development Day



Yorkshire Housing representatives with Michael Wright, Aico Product Development Manager, Jordan Toulson, HomeLINK Product Manager & DPO, Daniel Little, Aico National Sales Manager, and Samuel Marston, Aico Product Development Executive

Aico, the European Market Leader in Home Life Safety, recently welcomed Yorkshire Housing, winners of the Inside Housing Innovation Week award to their headquarters. Part of the prize for winning the Inside Housing Innovation Week Award was £10,000 and support from Aico to develop their innovation idea, with Aico recently conducting a product development session within their Centre of Excellence for Yorkshire Housing.

The visit provided a selection of informative sessions led by Aico colleagues, as well as a tour of Aico's Centre of Excellence. A Product Development session guided Yorkshire Housing attendees through Aico's development process from a hardware perspective, showcasing many of Aico's product development journeys, including Aico's connected home products and the benefits they can bring to both Housing Associations and their tenants.

These sessions highlighted the uses of Aico's Environmental Sensors and Ei1000G Gateway to the Multi-Sensor Alarms, emphasising that all products supplied by Aico are thoroughly tested and designed with end users in mind. Creating accurate and reliable home safety systems, that are beneficial to all who use them.

HomeLINK's Product Manager & DPO, Jordan Toulson walked Yorkshire Housing through the development and innovation behind Aico's Internet of Things platforms, commenting, "It was great to welcome Yorkshire Housing to the CoE – as part of their prize for winning the Housing Innovation Week Award, we showed them how we go about innovating both our hardware and software products, as well as some sneak-peaks at upcoming products and features. It was great to hear what Yorkshire Housing are doing to make sure they are at the bleeding edge of innovation, too."

The day concluded with a Product Feedback session that enabled Aico to hear Yorkshire Housing's thoughts and opinions on their product development process and the products themselves. This offered insight into what housing associations want to see next when it comes to fire alarm safety systems and connected home offerings, enabling Aico to continue to lead the way in home life safety.

Lauren Hemmings, Yorkshire Housing's ICT Service Development Manager, reflected on their visit to Aico, "It was fantastic when Yorkshire Housing won the first Inside Housing Innovation Award, including the opportunity to visit Aico at their Centre of Excellence and get a peak behind the scenes of how products are developed and tested. The day was informative, interactive (including a demo of how devices work in reality) and opened up a chance to collaborate on future ideas for products that will enable our customers to receive insights via emerging technology. I cannot wait to see how Yorkshire Housing's customers will benefit from the feedback that Aico and HomeLINK use for future innovative development ideas."

Aico's Product Development Manager, Michael Wright, comments, "We were delighted to welcome colleagues from Yorkshire Housing to Aico. It was great to be able to share in an involving and dynamic day, discussing all aspects of product innovation within housing to bring safer and healthier homes for residents."

Find out more about Aico's connected home offerings and home life safety systems that benefit so many housing associations and their tenants: www.aico.co.uk/products

Find out more about Yorkshire Housing and the services they offer within the affordable and social housing sector: www.yorkshirehousing.co.uk



RMIG Solutions

we make ideas come to life





RMIG is the world's largest manufacturer and supplier of perforated metal and its related products.

We know our customers' requirements for price and quality and meet their demands with uncompromising service.

Not only do we offer standard and bespoke perforated metal sheets, we are able to offer you a range of secondary operations as detailed below.

Complete solutions
With a continued investment in the latest equipment and a network of professional partners we are able to produce prime quality products and solutions – from a simple perforated sheet to the fully formed and coated custom made part.

For more information please contact us tel: 01925 839610 | email: info.uk@rmig.com | www.rmig.com

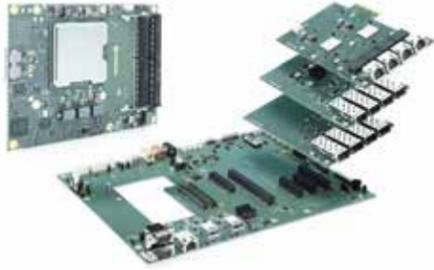
Cutting
We can cut and shape perforated sheet to meet the needs of your final application.

Levelling
For some applications a high degree of flatness is required, we have processes in place to ensure our perforated coils and sheets meet with your most demanding requirements.

Rolling and forming
We can roll, bend and form perforated sheets to match your design.

Aesthetic finishes and protective coating
We can offer powder coating and hot dip galvanizing solutions to meet your specifications.

New Kontron COM Express® Basic Type 7 Module with Intel Xeon D-1700 processor family



Server-class performance with PCIe Gen4 and 10 Gbit network connectivity

Kontron, a leading global provider of IoT/Embedded Computer Technology (ECT) is expanding its extensive Computer-on-Modules portfolio with the COM Express® basic type 7 module COMe-bid7 featuring Intel Xeon D-1700 processors (former codename Ice Lake D). In addition, Kontron also introduces a new COM Express® type 7 evaluation carrier.

The COMe-bid7 with scalability from 4 to 10 cores on a small form factor and SKUs for industrial temperature range of -40°C up to +85° as well as 24x7/10 years reliability allows robust, space-constraint implementations in harsh environments and extreme conditions.

The module accommodates up to 4x SO-DIMM sockets for a max of 128GB memory. As storage medium, a soldered NVMe SSD onboard with up to 1 TByte storage capacity is optionally available.

16x PCIe Gen4 plus 16x PCIe Gen3 lanes and 4x 10GBASE-KR interfaces provide an ideal support for high data throughput requirements in demanding I/O and network structures.

The 10GBASE-KR design allows for maximum flexibility by defining the physical interface – KR for backplane connectivity, Copper (RJ45) or fibre (SFP+) – on the base board.

Complemented by real-time capabilities such as low latency and determinism with Intel Time Co-ordinated Computing (TCC) and Time Sensitive Network (TSN), the platform is highly suitable for the usage in high-performance IoT edge computing.

“The Computer-on-Module design targets applications in embedded IoT for Industry 4.0, use cases such as test & measurement, autonomous vehicles & robotics as well as numerous potential applications of AI workloads. Applications in the network edge include use cases such as multi-access edge computing (MEC) or 5G RAN,” says Peter Müller, VP Product Centre Modules.

The Kontron COMe Eval Carrier T7-Gen2 offers a complete set of standard interfaces and the freedom of choice regarding the according Ethernet interfaces via a set of various adapter cards; thus optimising the design-in and evaluation tools for the COMe-bid7.

The Kontron COMe-bid7 module and Kontron COMe Eval Carrier T7 are available as of April 2022.

For more information, please visit: <https://www.kontron.com/en/products/come-bid7/p171588>

<https://www.kontron.com/en>

Master of deep-hole drilling insists on NSK products

NSK's ground ball screws, linear roller guides and super-precision ball bearings are helping IMSA to consolidate its position of excellence in the field of specialised deep-hole drilling machines, which are particularly popular for mould-making applications in the automotive sector.

Deep-hole drilling is a complex machining operation due to the absolute precision and productivity required by today's market, particularly (but not exclusively) in the automotive mould-making industry.



The moulds used for the manufacture of medium and large-sized plastic components require deep-hole drilling to create long and precise cooling ducts, some measuring up to 1,500mm and beyond.

IMSA is an Italian company that has become a world leader in specialised machining centres for deep-hole drilling. Over more than 30 years of activity, IMSA has introduced numerous technical innovations which, besides consolidating its position, have led to the installation of more than 500 machines that are

currently operating in Italy and the rest of the European Union, as well as Canada, the USA, Brazil and Mexico. The company has a particularly significant market share in the automotive mould-making sector.

IMSA has always been able to anticipate market needs by providing its customers with new concepts capable of making a quantum leap in the performance and productivity of deep-hole drilling. These include its exclusive autofocus system for the optimal movement of steady rests developed as far back as 1996, and the concept of independent axes for drilling and milling, which arrived the following year. In 2000, IMSA unveiled a vertical gantry structure for the column that provides 16 times more rigidity than traditional solutions.

Please visit: www.nskeurope.com



MECHANICAL FITTER/TECHNICIAN

Cambridgeshire, Hertfordshire, Essex



Based at home working in the field or based in our West Bromwich factory

This is an excellent opportunity for a Mechanical Fitter/Technician to join a company which provides a stable and long-term career move, product training and an interesting job role.

The role will suit experienced Mechanical Fitters/Technicians who are familiar with working on rotating machinery, separators and decanter centrifuges.

The business is a successful and growing company in many industries including the Water Utilities, Food, Drink, Chemicals, Brewing & Pharmaceuticals.

The company supplies, installs and commissions several different types of equipment to clients around the UK and provides continuous after

service, breakdown support and refurbishment.

Successful applicants will be self-motivated, well-organised, confident, and reliable.

A competitive salary is offered (with suitable vehicle and accommodation for those working in the field) and other benefits.

Euroby Ltd

New Dawn House, Gorse Lane, High Salvington, Worthing, Sussex BN13 3BX

T - 01903 69 44 00 F - 01903 69 44 77

E - sales@euroby.com www.euroby.com

The world's first 100% recycled white plastics flooring systems

In this issue of Industry Update, we are proud to announce we have chosen to present Abacus Flooring Solutions with our Outstanding Achievement Award for its Specialist Resin Flooring Solutions.

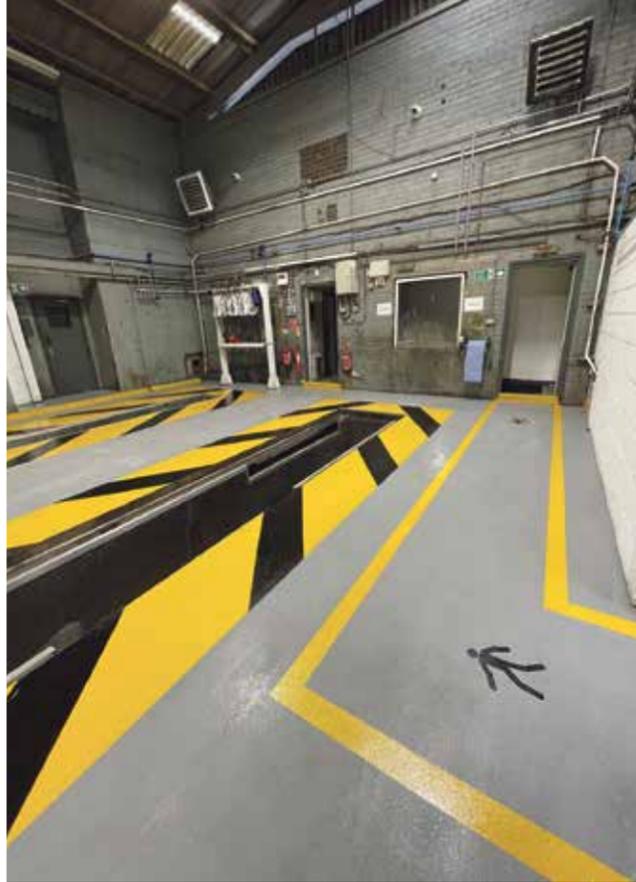
Abacus Flooring Solutions has received a number of awards and accolades over such a short time and its award portfolio boasts many remarkable achievements for the company and all involved. Going above and beyond for every single customer, both in terms of service and quality of work delivered, Nick only had positive things to say about their success. "It's great to be celebrating today with another award, we have won two awards in our first two years and this time it's for Outstanding Achievement. This award is only made possible with the support of our wonderful customers, staff and suppliers. We are consistently searching for the highest levels of customer care every day and, on every project, and this award is a great reflection of the work undertaken to entrench our position as an outstanding resin flooring specialist."

For over 30 years, Nick has been involved in installing industrial resin flooring across a wide range of commercial and industrial environments. It's this experience that has ensured its market leading position, offering the latest products, technologies and bespoke solutions to its customers.

"We have built up a fantastic portfolio across all industries, however, the British Manufacturing Industry will always be a key sector for us," stated Nick Megson, Managing Director at Abacus Flooring Solutions. Nick joined the industrial resin flooring industry in 1989, working for resin manufacturers and resin flooring contractors where he gained a great deal of knowledge and experience in both parts of the industry. Over his career, Nick has worked tirelessly to promote sustainability and the diversion of trade waste from being sent to landfill. After winning the industry's first environmental award in 2005, Nick went on to receive a number of other awards, with three of those being bestowed at the Houses of Parliament.

Nick established Abacus Flooring Solutions in July 2020, to offer resin flooring solutions across the UK. The company has enabled Nick to continue striving towards delivering environmentally friendly systems as all Abacus flooring systems are manufactured using up to 48% post-consumer recyclates.

The company has grown quickly over the past two years, to which its employees and customers have contributed greatly towards. "Caring, Service, Future. We care for our employees, sub-contractors, and customer's needs. We offer a service where each member of our customer care team is trained to not leave customers waiting and will return quotations within 24 hours. We will endeavour to continue to



build a business that we can leave for the next generation, so they all have a future," stated Nick.

Based in Leicestershire, Abacus Flooring Solutions is geographically best placed to reach customers from all over the country. Being able to offer such a unique service underpins the reason why customers stay with the company for many years. "I believe our continued customer service is quite unique, moreover, I'm proud to state we are the only company in the world who can offer a flooring system made using 100% recycled white plastic. That fact really sets us apart from any competition," said Nick.

Nick researched and designed a floor screed that can be used in the resin flooring industry, which instead of using silicone aggregates, is made from recycled white plastics. Compared to silicone aggregates, its less eco-friendly alternative, Abacus's recycled solution instead creates

an epoxy self-smoothing screed that works extremely effectively and is made from items such as toilet seats and light switches. By using white plastics otherwise destined for landfill, Abacus were able to form a screed which has since revolutionised the industry. Marked as a world first innovation and a very proud landmark for Nick and his team, sustainability will always remain at the heart of the company. "As the Industry Ambassador for Recycling since 2005, and a Director of our Industry Governing Body, FeRFA, I feel I provide a large amount of my time helping and advising, marking the company as a real asset to our industry," stated Nick.

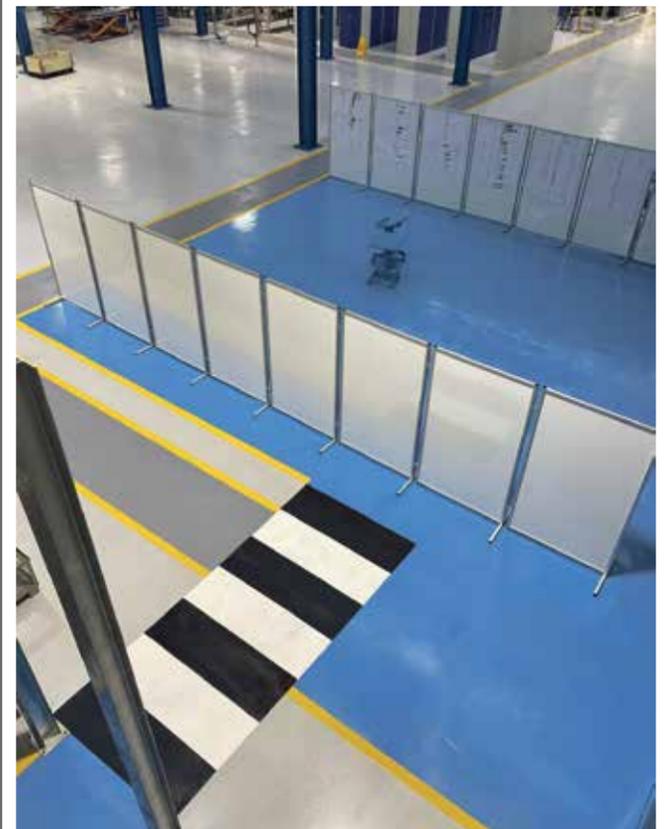
Starting the business only four months into COVID-19, Abacus Flooring Solutions has gone above and beyond just survival and has surpassed with evidential ongoing growth. From such turbulent times however, Nick believes the company has learnt some valuable lessons that have evidently been reflected through its recent success. "Starting the business only four months into the biggest pandemic known, meant we could sympathise with customers and learn to be patient. I feel that COVID-19 has made everyone a bit more patient and understanding."

Abacus Flooring Solutions offer a resin floor installation that you can rely on. From preparation to installation and after care, its team of highly skilled and fully trained professionals are on hand to provide the advice and value required from initial contact through to a complete after care service.

From supplying coloured, high build coatings for light manufacturing areas, to busy, pedestrian filled food halls in retail environments, resin flooring can be applied to a range of industries. Abacus Flooring Solutions offer a full range of different systems from coating through to screeds that are specific to the environment to which it will be installed into. What's so unique about its flooring system is that it uses recycled plastic in lieu of quarried materials, which are good, safe materials that would usually just be going to Landfill. This sustainable system negates the need to dig up more land when looking for minerals to be used in the flooring. However, customers can certainly expect more than just a delivery of a resin floor. Nick has served on the Resin Flooring Association (FeRFA) Council for a number of years, making him uniquely placed in the industry to bring a wealth of knowledge and invaluable experience to every project.

In closing, we asked Nick what the plans for the business were going forward, he answered, "To build the business so it is sustainable whereby 50% of the business can be employee owned."

For more information, please see below:
T 01530 432790
nick@abacusflooringsolutions.co.uk
www.abacusflooringsolutions.co.uk



Expanding capabilities with storage



From creating the space to store hundreds of tonnes of Pampers nappies to protecting Stella McCartney's couture archives, there is no better name than Whittan to handle all your storage solution needs.

Whittan is an accumulation of eight trusted companies put together through acquisition to form one unified group which for the past five years has been trading under the brand name the Whittan Group. The associated trusted brands include Apex, Link51, Probe, LinkLockers, PolypalUK, HiStore, Storage Direct, and LinBins. From Apex which was founded in 1937 to LinBins who were the latest addition to the group in 2016, each brand has years of experience in the industry and are reliable and trusted amongst customers. Operating out of its five factories across the UK, Whittan also has one other factory in Spain.

The Whittan Group takes pride in being members of the Made in Britain organisation and has been supporting British business and British people for over 70 years. "Our business is split with 75% in the UK and 25% in Western Europe and further afield. We are proud to have such a vast and flexible range of storage solutions that have been manufactured and designed here in the UK. Our trusted brands are well-known and trusted within the UK industry and what unifies us is our reliable service and expertise to create the most efficient storage solutions for our customers," said Jon Templeman, Chief Executive Officer. As a leading UK B2B manufacturer of storage products, including pallet racking, shelving, personal storage lockers, cupboards, plastic containers and workbenches, Whittan design solutions for both industrial and commercial environments including offices, schools, warehouses, and retail environments. All products are manufactured in the UK to ISO 9001, 14001 and 45001 quality and environmental standards.

Whittan also provide a complete service solution including project management, expert installation, maintenance, training and inspection. Every employee of Whittan is trained to an extensive level offering customers an unrivalled quality of service. "Whether it's a whisky company or something completely different such as fashion, we can guarantee we have experience in working with companies from every sector. Our expertise allows us to make measured decisions and offer customers the best solution to optimise their space. Sometimes conventional pallet racking systems are not the most efficient solution. For example, we have worked with various fashion retailers where we have completely transformed the configuration of their storage space by implementing automated garment hanging solutions," said Jon.

A complete rebranding has been important in widening the company's appeal to offer scalable solutions and opportunities for growth to every customer and every environment. With the recent growth of e-commerce since COVID-19, moving into the digital realm was inevitable for Whittan. "Storage Direct joined us in 2001, and we have recently revamped our e-commerce structure. Storage Direct provide a quick, efficient way of ordering your everyday requirements. We noticed a shift in people's buying behaviour and with the advancement of online ordering we believe Storage Direct will be invaluable to business going forward," explained Jon.

After a recent investment into its facilities in Milton Keynes, further investment is going to be key in making future operations more efficient. "After our recent rebrand last year, there are certain areas where we are keen to expand into next; we want to increase our repair and maintenance service, specifically to large building products wholesalers, as they have hundreds of installations in their stores put in by us and others that need continuous upkeep, as well as seeking to grow our business in parts of Europe. We are very excited for the next five years as we begin to see the fruition from the decision to combine all our storage brands, products and solutions within one group," stated Jon.

For more information, see below:
T 01952 682251
enquiries@whittan.com
www.whittan.com



Anord Mardix improves network capacity at UK sites

World-leading electrical engineering and manufacturing company Anord Mardix has improved wireless network performance at three of its UK production facilities with high-performance WiFi from Redway Networks. The new Cambium cloud-networking platform is providing uninterrupted communications between Anord Mardix's in-house operations software and over 1,000 mobile devices used by its workforce for scanning equipment on the shop floor.

Due to Anord Mardix's continued expansion and adoption of the latest technology and mobile devices its existing WiFi couldn't support its connectivity demands and its workforce was experiencing WiFi dropouts.

Toby Turner, Group IT Director at Anord Mardix, says, "Our existing WiFi was delivering inadequate coverage which was delaying



getting products out of the door. This highlighted the need to upgrade our existing WiFi to a more up-to-date, resilient wireless

network that would improve efficiencies and future proof the business."

Redway Networks recommended Cambium as its robust cnPilot WiFi technology is 'watertight' & ideal for warehouse environments.

Toby says, "Cambium has given us much better network reliability and we now have great coverage in all our facilities with no black spots, which has definitely improved warehouse productivity. We have one pane of glass for all our network monitoring which has given us more visibility and saved considerable time. I'm really impressed with Cambium and Redway Networks delivered an exceptional service throughout the whole project."

Read the full case study on our website. For more information, contact: info@redwaynetworks.com.










Automated Sorting Solutions

Concepts for E-Commerce, incoming and outgoing goods, cross docking and returns. Separate or combined.

We know what it takes; small, large, odd-sized and different packaging materials, we have a solution for your automated sorting requirements.

Call +31 (0) 88 205 60 13 or e-mail: info@distrisort.com

DistriSort Projects B.V. | De Boomgaard 2 | 1243 HV 's-Graveland | The Netherlands | www.distrisort.com

Bradshaw releases third-generation T800

As the leading four-wheel 8-tonne tow tractor on the market, the T800 has been a popular model for over 25 years. Used in airports for baggage towing, line feed in manufacturing, waste movement for bin towing, and many more applications. The T800 is a versatile and robust workhorse.

The new T800 retains its robust build, durability and reliability that has made it a firm favourite. The third generation 8-tonne tow tractor from Bradshaw now features electronic steering, enhanced suspension, a new front axle, larger wheels, new brakes, a redesigned cab, and

sharp modern looks that provide operators with a market-leading level of ride, comfort, and handling.

Electronic power steering replaces hydraulic steering, offering enhanced steering performance, making it easier for the vehicle to turn and manoeuvre at lower speeds. The use of electric motors over hydraulic systems eliminates the need for a pump, hoses, and hydraulic oil, helping simplify maintenance. The removal of the hydraulic pump has made the vehicle considerably quieter, reducing vehicle noise by 20dB. Furthermore, the T800's steering advancements paves the way for an automated tow tractor!

The leaf spring suspension has been re-configured providing the firmness required for towing applications while providing a smooth and comfortable ride. The new larger pneumatic profiled soft solid puncture-proof tyres provide greater stability, traction and handling.

From the outside, the differences between the second and third generation T800s are obvious. The mark II's curvaceous panels have been replaced with a strong and angular design, matching the design ethos of modern-day automotive design. A redesigned sturdy wrap-around bumper plate protects the vehicle against impacts and damage.



Inside the vehicle, the changes are instantly notable. The soft touch control panels and instruments enhance the working environment, which now includes USB connectors for keeping phones and electrical equipment charged and integrated cup holders.

T800s are available with a range of cab options; uncabbed, cabbed with no doors, cabbed with PVC doors, and cabbed with twin slam doors, allowing the T800 to be configured for a wide range of indoor and outdoor operations.



Efficient towing performance

As standard, the T800 is equipped with a 20mm pin multi jaw tow hitch with various size options, making the 8-tonne tow tractor compatible with multiple trailers. The T800 includes inching buttons as standard to assist coupling, offering ease and precision when aligning tow tractor and trailer.

Batteries

The T800 utilises a powerful 48-volt system, with the choice of four standard batteries; 240Ah, 315Ah or 375Ah lead-acid batteries or a 255Ah gel maintenance-free.

For standard run-time operations, a lift-out battery suits many applications. For extended run-time applications where battery change is an operational requirement, the T800 has the option of a side exit by either forklift or roller bed.

Electronic braking and speed control

Five individual braking systems protect tow tractor and operator. The T800 features new responsive hydraulic drum brakes to all four wheels and offers increased durability, maximising productivity and reduced servicing costs.

The T800 also includes electronic regenerative braking under deceleration, automatic hill hold, and automatically applied transmission park brakes for greater safety assurance.

The T800 incorporates an AC control system enabling a high level of controller setup, while dynamic speed sensing prevents over-speeding in all directions.

Robust build

The T800, with its solid frame construction and reliable components, ensures long-term reliability and durability. The low maintenance AC traction motor offers more power and performance while simultaneously reducing operating costs, and the built-in thermal protection minimises service downtime.



THE NEW BRADSHAW T800 TOW TRACTOR

Towing just got easier with the new Bradshaw T800 with improved ride, handling, comfort and maintenance.

Fully electric, the T800 8-tonne tow tractor delivers efficient towing performance for all your factory handling solutions.

01780 782 621
WWW.BRADSHAWEV.COM
ENQUIRIES@BRADSHAWEV.COM

BRADSHAW
ELECTRIC • VEHICLES

Contact
T +44 (0)1780 782621
enquiries@bradshawev.com
www.bradshawev.com

World leaders in ergonomic microscopy, digital 3D visualisation and metrology solutions

Vision Engineering (Stand F70) is at the Engineering Expo (8th-9th June 2022) to help you to improve the speed and accuracy of your inspection and measurement routines.

Pay a visit to the Vision Engineering team on Stand F70 and explore our digital zone where we are introducing VE Cam and Makrolite 4K, as well as demonstrating our well-known EVO Cam II digital microscope.

The compact, competitively priced VE Cam is all about productivity, with quality optics and precise lighting for great image quality, plus 10 user programmable presets, hotkeys and graphical overlays offering speedy assessment of components.

Immediate information capture and share ensures efficient reporting and improved decision making, whilst the compact footprint of VE Cam allows for easy integration into shop floor work areas.

If you are looking for exceptional image quality, the 4K resolution and wide dynamic range of Makrolite 4K is worth a look.

It provides fine detail particularly in shadow and highlight areas.



This is ideal for challenging inspection routines, including reflective subjects such as metal components or complex parts where raised areas create confusing shadows.

Connecting Makrolite 4K to a PC with our dimensioning software, ViPlus, extends its capabilities to include image capture, annotation, on-screen measurement, live overlays to create a comprehensive data and image report.

There's also some exciting innovation when it comes to our ground breaking 3D digital systems. The product combination of Vision Engineering's DRV-Z1 and Nikon's SMZ25 & SMZ18 stereo microscopes create a new, innovative, hybrid high zoom and high magnification digital 3D high definition stereo imaging system, with the largest optical zoom ratio of 25:1 available today in stereo microscopy.

Users are now able to view their subject in stereo digitally via Vision Engineering's Deep Reality Viewer (DRV), and then capture and share the digital stereo image to colleagues, supply chain partners, or customers anywhere, in real time.

In another collaboration, we have DeepFocus 1 on show, which combines Vision Engineering's technical, and design expertise with Zeiss' new Visioner 1 long depth of focus digital microscope head. Extended Depth of Focus (EDoF) view shows the top down view of the subject with all details in focus. Height-map view displays height data from the subject aiding visualisation of monochromatic samples and understanding of height. Topographic view shows a simulated 3D visualisation of the subject which can be rotated and manipulated.

If automating your measurement routines is a priority, bring along a sample and see how Deltron and LVC200 measure up. Deltron is a robust CNC CMM with compact footprint for high levels of measurement accuracy. LVC200 and the larger LVC400 fully automated 3-axis measuring systems have the power and versatility to meet the needs of demanding manufacturing environments.



Finally, our stand would not be complete without our award-winning Mantis and Lynx EVO systems. These ergonomic inspection systems provide exceptional operator comfort the depth perception offered by 3D allows operators to understand depth and texture, simplifying defect detection on complex precision parts.

Our team are looking forward to welcoming you to Stand F70 and helping you solve your inspection and measurement challenges.

For more information, please visit: <https://www.visioneng.com>



Handling & Storage Update

DFL **CLARK**
THE FORKLIFT
DAVISON FORKLIFT LTD

YOUR MATERIAL HANDLING PARTNER

FORKLIFT HIRE - FORKLIFT SALES
SERVICE & MAINTENANCE

CLARK
THE FORKLIFT

THE RIGHT SOLUTION FOR EVERY APPLICATION



WE PRIDE OURSELVES IN SUPPLYING A PROMPT RELIABLE AND HELPFUL SERVICE

davison-forklift.co.uk T. 01952 915060 sales@davison-forklift.co.uk

The active force in carbon & service

In this issue of Industry Update, we are pleased to announce CPL Activated Carbons as our Carbon Technology Company of the Month.

Formerly known as CPL Carbon Link, CPL Activated Carbons is a leading manufacturer and supplier of activated carbons and related services that has enjoyed strong growth in the environmental and industrial purification markets thanks to its global sourcing capabilities, broad product range, active R&D programme, and many more unrivalled offerings.

"We are a supplier of purification solutions based on activated carbon technology. In addition to the supply of FiltraCarb® activated carbon filtration media, we also supply a range of



Clean-Flo® HF20V VOCSorber® units



Bulk carbon delivery to CPL's reactivation facility

Clean-Flo® mobile carbon filters, and can recycle 'spent' carbon via our Regen-Sys® process," stated David Reay, Marketing Manager.

Established in 1990, CPL Activated Carbons celebrated its 30th birthday in 2020, and has been part of the CPL Group since 1999. Headquartered in Wigan, CPL Activated Carbons also has a carbon recycling facility at CPL Industries' site in Immingham, North East Lincolnshire, as well as an engineering subsidiary CPL Icon located in Chesterfield. Also active in Europe, it has a subsidiary in Madrid, Spain, called CPL GalaQuim and a sister company in Paris called Puragen Activated Carbons.

As a supplier of activated carbon-based purification solutions, the company is a one-stop-shop for businesses that require an activated carbon purification step in their process. "We are the only UK-based carbon company that can supply a full range of activated carbons, in-house production of mobile carbon filters, spent carbon reactivation and full engineering/technical support," said David.



Site Services support at a landfill gas facility

In recent news, CPL Activated Carbons has



Spent Carbon Reactivation Kiln

launched a new flagship mobile carbon filter, called the HF20V VOCSorber®. Marked as a High Flow vertical carbon filter, it's ideal for any air or gas treatment application where the flow rate is too high for a standard deep-bed design, or where there is insufficient footprint space for a horizontal HF vessel. The unit is typically used for larger-scale VOC abatement and odour control applications and "is produced in-house by CPL Icon and delivered to customer sites on our dedicated tipping trailers," commented David. Filled with its high quality FiltraCarb® activated carbon, it comes ready for connection to existing pipework, with a choice of two Inlet (or outlet) ports.

The major sectors to which CPL Activated Carbons supply include: the water industry – drinking water purification; renewable energy – biogas/biomethane scrubbing; the waste treatment sector – flue gas treatment at energy-from-waste facilities; the chemicals and pharma sector – general water and air treatment; and the food and beverage industry – odour management, decolourisation of beverages and brewery supplies. Its multifaceted

capabilities have enabled the company to become a respected name within the market, and a brand that its customers and fellow industry professionals immediately recognise.

We asked David what plans the company had for the future, he answered. "It's all about strong ongoing growth of our carbon and service business. We will continue our impressive growth trajectory, particularly with our mobile carbon vessel business. This includes further growth into mainland Europe, where

we already have one service centre in northern France, as well as warehouse facilities in France, the Netherlands and Spain. We have three exhibitions coming up at the NEC in Birmingham – ChemUK in May, the World Biogas Expo in June, and RWM in September. The CPL Activated Carbons team would love to meet visitors at these shows and discuss their purification requirements."

For more information, please see below:
T 01942 824240
info@activated-carbon.com
www.activated-carbon.com



Test, Measurement & Monitoring Update

The world leader in force measurement

Interface Force Measurement Solutions (Interface) is a UK company specialising in the supply and distribution of high-quality sensors and associated electronics and displays for a wide variety of industries. Working previously with clients such as Airbus, BAE Systems, and Formula One Teams, we spoke with Tony Rokins, Business Development & Pressure Mapping Specialist, who explained some of the companies well known products.



"Our product portfolio is applicable to many industries. For instance, we are well known for our high-quality pressure mapping systems that are used by many of our automotive and motorsport customers. Our sensors deliver highly accurate, repeatable measurements and many of our load cells are used by calibration houses as calibration reference devices. Our high-quality, yet competitively priced 3 and 6 axis load cells are used for many R&D, renewable energy and robotic applications."

Reflecting on last year, Interface has faced much adversity from COVID-19. Fortunately, its sturdy business model and reliable service has enabled the company to pick up the pace and continue projects that were left postponed. "Trading conditions have been tough, but business levels picked up strongly towards the end



of the year. I think we came out of it stronger than we could have reasonably expected."

In terms of recent developments, Tony continued, "We've taken some time to review our business model, how we operate on a day-to-day basis. Being responsive to our customer's needs and being able to offer a high-quality product with strong product knowledge at a competitive price with the best possible lead times is our number one priority."

2021 also welcomed the launch of the G-Series Load Cells. The range comprises of miniature and small sensors for industrial applications, with capacities starting from just 4.5N Newton up to 200kN with metric threads. "These are high-performance devices but aimed at more cost-conscious applications. This is a new market for us, but we are seeing increasing interest. We are launching an e-commerce website for the G-Series in the next couple of weeks. Competitive pricing and availability from

stock will be key to this new venture's success," stated Tony.

In the future, Interface is keen to continue its growth trajectory for 2022. We asked Tony how he felt receiving the award and what their plans are going forward, he answered, "We work hard for our customers to offer the best measurement solutions. The recognition is greatly appreciated. Long term, we are strengthening our position with our customers in our more traditional markets of aerospace, automotive, motorsport, Universities and alternative energy research.

We are also working on new, wireless force and vibration sensors for remote monitoring in systems such as luggage carousels. One more area we are pushing for growth is with XSensor's pressure mapping systems, particularly in the Hi-speed systems designed for high-speed impact or crash testing and tire foot-print research. These systems are capable of capturing data up to 2,500 frames per second. The tire sensor can be driven over at speeds of up to 140kph. I believe this is a unique capability we can bring to the industry."

For more information, please see below:
T 01344 776666
info@interfaceforce.com
www.interfaceforce.com



Packaging Innovations Preview

The future of branded packaging and technology

Packaging Innovations & Empack is the largest annual event connecting packaging specifiers and buyers with the suppliers, new materials and formats and the expert knowledge to create the future of their brand's packaging. Packaging Innovations & Empack opens the doors to the UK's essential annual event driving business and innovation across the whole packaging journey from primary packaging, secondary packaging, contract packing and fulfilment, labelling and printing and packing and processing technology. Together, these two events give a unique vision of the whole packaging journey, from concept to production.

For 2022, there will be a strong focus on innovation, sustainability, packaging machinery and automation. Expect to meet hundreds of suppliers all eager to share 1,000's of new solutions that will define your next product launch. Plus, there will be a whole host of interactive features, free-to-attend seminars, and networking opportunities with the top UK brands and buyers.



The free-to-attend seminars will bring together thought leaders from all corners of the packaging supply chain to tackle your packaging issues, from big brands including Ocado, Nestle, Pret, HP, Waitrose, and many more.

Packaging Innovations & Empack 2022 will be on the 25th-26th May, Hall 1 at the NEC, Birmingham.

This is our pick of the best exhibitors that will be exhibiting in this year's show.

Further details can be found on this page and the next 2 and a half pages.

For more information, please see below: www.packagingbirmingham.com

Spectra Packaging exhibiting at Packaging Innovations

Spectra Packaging will be exhibiting at Packaging Innovations Birmingham in May. The show will provide them with an opportunity to meet visitors for the first time since 2020 due to the pandemic.

At this year's event, they will be focussing on a number of subjects. These include the firms recently commissioned independent Life Cycle Analysis (LCA), which shows that plastics are less harmful to the environment than their glass or aluminium counterparts in a like-for-like survey.

Other highlights will include the company's new PCR30 initiative, which sees 30% recycled content



added to its bottles, perfect for brands needing to navigate the government's new UK plastics packaging tax. The UK based rigid plastics converter will also be spotlighting the environmental benefits of open and closed-loop recycling and explaining the advantages of their innovative MYSPECTRA portal, which provides added value benefits, unavailable to

casual visitors to their website.

Spectra will also show some of their extensive off-the-shelf product designs, available in PET and HDPE, custom tooled customer packs, environmental packaging in PCR and bioplastics, and innovative decoration examples.

Spectra will be on Stand E32.



Contact
T +44 (0)1986 834190
sales@spectra-packaging.co.uk
www.spectra-packaging.co.uk

Reduce the carbon footprint of your packaging with BOPP films

Innovia Films is focused on producing new BOPP flexible films that aid the reduction of the carbon footprint of packaging, while providing technical performance, simplifying structures, and maintaining full recyclability.

At Packaging Innovations, Innovia will be presenting examples of their solutions to:

- ▼ Reduce the use of fossil resources
- ▼ Enable on pack recycling label
- ▼ Extend shelf-life – less food waste
- ▼ Simplify pack structures
- ▼ Facilitate material substitution
- ▼ Contain post-consumer recycled waste
- ▼ Maintain food contact compliance.

Stephen Langstaff, Business Development Manager, Packaging at Innovia Films highlights, "Last year's COP26 summit reminded us of the importance of reducing our carbon footprint. Food production is a major contributor to global warming and resource efficient packaging plays a vital role in reducing the carbon impact by reducing waste and extending shelf life. The carbon footprint of packaging is usually comparatively small when compared to the product it is wrapping. This is one of the big advantages of flexible packaging. Due to its light weight, it is far more resource efficient than cans, bottles, tubs, or trays."



Encore REF30cn is a carbon neutral BOPP film that also provides the required technical performance for this application

The misconception that flexible packaging cannot be recycled is leading some to poor environmental choices, fortunately, things are changing.

Come to Stand F82 in Hall 1 to discuss your current packaging challenges.

T +44 (0)1697 342281
filmsinfo@innoviafilms.com
www.innoviafilms.com

Worldwide logistics Ltd

Worldwide logistics is the fastest growing 3PL service provider in London. Our facilities and warehousing options are outfitted with warehouse management system



technology. Technology is the driving force behind countless industries and logistics is no different. With UK, European, and USA hubs along with single points of contact while leveraging our intercompany network. Innovation is the core principle behind our success. We are adaptable to our client's needs by understanding buyer behaviour and therefore providing unparalleled support to optimize their supply chain. Deploying a Fully integrated multiple courier solution that adds

value by selecting the right courier for our client's product profile. We have empowered our clients by rapidly deploying our services to take them from bricks and mortar stores only to fully integrated online pick pack and delivery stores, with late cut-offs and next-day delivery across multiple sectors. Our agility has allowed us to adapt and create a fully functioning remedial, returns, and reworks centre in the Midlands and Poland. Using our own in-house developed Boom service which allows consumers to easily book returns while allowing sellers to control returns costs and track quality. The future is bright for Worldwide logistics and our sector by constantly striving to enhance our service offerings.

Please visit Stand number D82.

Contact Glenn Hayes,
Managing Director (pictured),
T 020 3900 3039
M 07495 835061
www.worldwidelogisticsltd.com

S Murray & Co: Your UK manufacturing partner

Founded in 1915, S Murray & Co is a long-standing British manufacturer of re-usable plastic packaging, laboratory glassware and medical devices.



Privately owned and managed for four generations, we are committed to the quality of our products and the manufacturing processes behind them.

Ever mindful of our carbon and environmental impact, we have long been exploring the use of both PCR and bio-based materials, with a focus on the sustainability and end-of-life of plastic packaging, to help find a positive solution for the future.

Custom-made enquiries ranging from 7ml to 1 litre capacities are welcomed, whilst regular stock lines include foamers, plain round, tall, flat oval and square bottles. Often in white or natural as standard, we also offer black and bespoke colour options, together with a wide range of fitments, to help create your unique product experience.

With production run volumes from just 5,000 to 100,000 units or more, we would be delighted to support you; from conception, to launch, and beyond.

Visit us at Stand A-120, Hall 1.

Please call: +44 (0)1483 740099,
email: sales@smurray.co.uk or
visit: www.smurray.co.uk for more details.

S MURRAY & CO
MANUFACTURING EXCELLENCE

Made in England
Est. 1915
Stand A-120, Hall 1

+44 (0)1483 740099
sales@smurray.co.uk
www.smurray.co.uk

Global Experts In
LOGISTICS

Worldwide Logistics offers supply chain services in key industries but our work doesn't stop there. We offer customized cargo logistics to meet our customers needs.

Logistics Solutions

- Sea Freight
- Air Freight
- Haulage Logistics
- E-Commerce & Fulfilment
- Warehousing & Distribution
- Cross Trade
- PO Management
- Customs Clearance
- Contract Packing & Assembly
- Pallet Distribution
- Processing
- Recycling & Decontamination

Worldwide Logistics
Learn More..
+44 20 3900 2474
www.worldwidelogisticsltd.com
uksales@wwlmail.com

The ENFLEX Model F-11-Duplex Horizontal Form-Fill-Seal Sachet Machine



On their Stand B32, in the EMPACK machinery section, PROPACK Automation Machinery will have on Show an ENFLEX Model F-11-Duplex Horizontal Form-Fill-Seal Sachet Machine, equipped with twin auger feeders, ready-made to pack powdered or granular products, at speeds of close to 200 sachets per minute.

After the show, the Machine will be installed at a UK Contract Manufacturer's Cheshire site, to pack a range of preserving and cleaning products in powdered form.

Sachet and Pouch Packing Machines are widely favoured by both brand owners and

contract packers. The pack style finds suitable applications in almost every industry, from smaller sachets for tissues, wipes and swabs, to many other healthcare applications, while also encompassing personal care, foodstuffs, both wet and dry, food supplements, confectionery, household chemicals and many others.

When considering display or shelf-ready packaging, the sachet style is always a good option, where the product is suitable. Those Sachets and Pouches have wide front display panels, which give perfect exposure for SRP presentations, especially of stand-up pouches.

Contract Manufacturers in particular love

sachet machinery and ENFLEX is a favoured supplier. Sachet machines are operator-friendly, allowing easy change-over between formats, which confers elements of user-friendliness, in combination with a wide range of dosing and metering systems, giving unrivalled future proofing in a changing market.

A display of typical sachet and pouch packs is shown and attached.

Contact
T 024 7647 0074
office@propack.co.uk
www.propack.co.uk
www.enflex.es

TERRA, a line of sustainable paper packaging solutions

In a world where environmentally-friendly packaging is becoming the new standard, it is time to switch to packaging with better recyclability options and reduced carbon footprint.



Neenah Coldenhove proudly introduces its new product line Terra.

The Terra product line consists of a range of repulpable, compostable and therefore recyclable papers equipped with high barrier properties.

Terra papers offer excellent barrier properties against water, moisture and grease. In addition to that packaging produced with Terra are heat sealable and printable.

Terra endeavor is replacing PE coated papers with more sustainable solutions. Using Terra for your packaging can lower the impact on climate change with 35% compared to PE coated packaging.

Further, the product is certified with the OK Compost S1378 certification.

It is our responsibility to design and manufacture products with the lowest possible impact on the environment, be it in the pre-use, use and post-use phase. With our partners, we strive for sustainable manufacturing of high-tech barrier papers with the best recyclability options. Terra finds its applications in food on the go markets like bake-off and fast food. Further in agricultural applications like packaging of flowers, vegetables and fish.

For more information about Terra, please visit: www.coldenhove.com/products/terra

Propack Automation Machinery Ltd

Your future-oriented partner for shelf-ready concepts

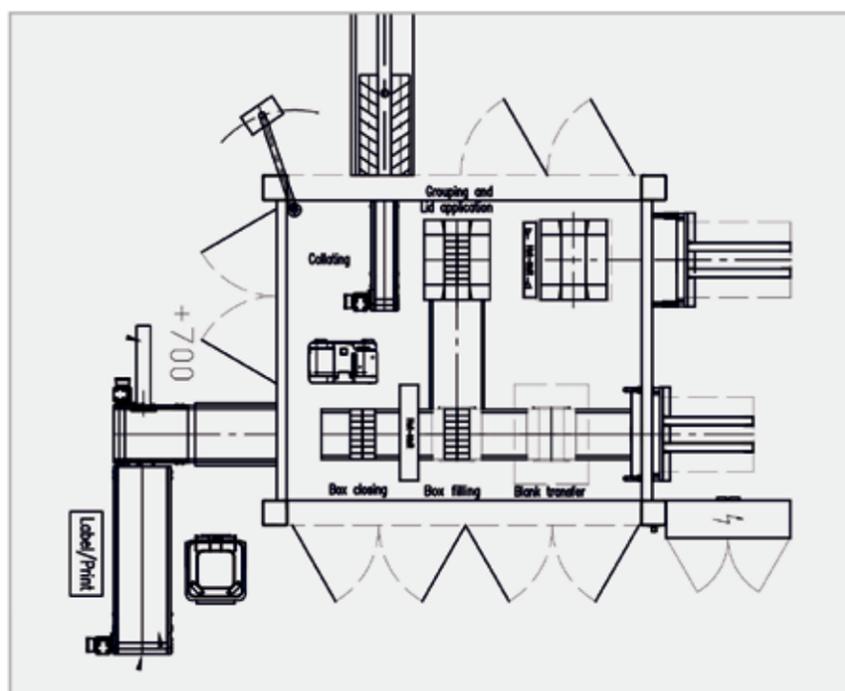
Propack has more than 35 years experience in designing and presenting solutions to handling and packaging projects.

Our machinery range gives us the facility of working in many areas, from personal care to medicinals, to foods.

We have vast experience in filling machinery and in supplying complete filling lines, including downstream automation and packaging. We have a strong interest in special projects.



- Unit machines to complete lines
- Careful project planning
- Installation and commissioning
- Remote maintenance
- Training and maintenance planning
- Comprehensive customer service program



See us at the Packaging Innovations Show, Stand B32, NEC, May 25th-26th 2022

PROPACK
 AUTOMATION MACHINERY LTD.

Propack Automation Machinery Ltd
 10 Hill Wootton Road, Leek Wootton, Warwick CV35 7QL
 Tel: 024 7647 0074 Email - office@propack.co.uk
www.propack.co.uk

Big enough to cope, small enough to care



MDP is a family run business, and we believe we offer innovative pump and packaging solutions.

We value our customers new and existing, big, or small we will work closely with our customers at all points to help grow their business.

We strive to provide the best customer service along with great after care.

Micro Delta Packaging Ltd can offer a printing service on containers and closures, by using these printing methods, we can help you achieve a unique look whilst helping you develop your ideas or work with imagery you may already have, our printing is high quality and value for money.

Round containers can be printed by silk screen, one colour can be printed on all standards, where the container can be registered, and a second and third colour can be added. Minimum order quantities are required.

Micro Delta Packaging's new warehouse is now fully functional, and we are ready to fulfil, call off orders for our customers.

Our Dip Tube cutting machine is now up and running, lead times available on request.

We will be exhibiting at the NEC Birmingham, Stand E12.

Contact Kayleigh Russell, Sales Manager,
 T 01553 310020
www.microdeltapackaging.co.uk

Packaging Innovations Preview

ROPAC® UN Liquid and Solid Certified Pails

ROPAC® UN Liquid and Solid Certified Pails offer unrivalled certification and quality to protect your product and the environment too. The ROPAC® range of solutions enable the transport of high-value or dangerous goods by road, sea or air and meet the high-quality level requested by its customers.

ROPAC® packaging solutions provide safe protection for high value products and hazardous liquids and solids. With their tough design and unique sealing system, they provide a protection from costly and dangerous leaks and spills. With an integrated tamper evident feature, it is the most innovative, market leading high performance and UN certified plastic packaging in the industry.



As part of the Schoeller Allibert Group, ROPAC® has been based in Romont since 1968. The plant in Switzerland is well-known for the production of UN containers under the brand name ROPAC® and has been awarded with a Swiss and World Star Packaging Award for the design of its 5L UN liquid pack.

To request your FREE 5L solid of liquid pail, simply contact ROPAC® with your requirements or if you would like to see the company for yourself, ROPAC will be exhibiting at the Packaging Innovations & Empack show at the NEC Birmingham, on the 25th-26th May 2022 at STAND: B76.

T +41 26 651 9211
www.ropac-packaging.com

Neville and More customers now have more packaging options and enhanced customer support

UK-based rigid packaging leader Neville and More has been acquired by global packaging leader TricorBraun. The move means access for Neville and More customers to expanded services, including flexible packaging and other stock options. Customers will also have access to TricorBraun's Design and Engineering team, which has a long track record of developing award-winning custom packaging solutions that delight customers and help create brand loyalty.

Established in 1902, TricorBraun serves consumer packaged goods companies from cutting-edge startups to the world's most iconic brands. The company



has more than 1,700 dedicated team members working in more than 75 locations across the Americas, Asia, Australia, and Europe.

The acquisition comes at a time when global supply chains are being pushed

to the limit. The move gives Neville and More customer's access to TricorBraun's robust supply chain network of over 1,000 vendors, along with contractual relationships with shippers and other freight companies. Customers will also gain access to TricorBraun's supply chain management programs for handling all aspects of their operational needs from warehousing and shipping to forecasting and quality control. Celebrating 70 years in business, Neville and More will now operate as Neville and More, a TricorBraun company.

T 01403 732290
www.nevilleandmore.com

Unboxing Agfa in the packaging market

Agfa is a market-leading global imaging company with a comprehensive portfolio of solutions for the printing industry.

We are on a quest to develop innovative technologies for the packaging market that add value by streamlining the prepress process and standardising printing quality. We help printers and converters meet brand owners' demands with powerful software solutions, computer-to-plate systems, and offset printing plates.

We understand how to create agile workflows that optimise your business, so you can deliver best-in-class packaging for the widest variety of markets. Building on our 25 years of knowhow and experience with Apogee Prepress workflow software, Amfortis is a dedicated all-in-one solution with integrated PDF editor that covers all prepress and job management tasks, with automated preflighting and step&repeat, and patented screening and ink saving technologies.

Whether your challenge is lower margins, higher costs, or sustainability, Amfortis is a single unique workflow system for offset packaging printing with one interface that can manage your entire production.



T +32 3 444 3932
graphics@agfa.com
www.agfa.com

Target Net Zero

We are all aware that the food packaging industry has a responsibility to its customers and stakeholders to reduce its environmental impact.

National Flexible believe that this is not only in supplying packaging that can help reduce CO₂ but that we need to work in a sustainable manner along with our other social and environmental responsibilities. To this end, we are, wherever possible, developing our working practices to enable us to improve our business management in these areas.

In 2021, we helped our customers reduce their carbon footprint by 1,010

tonnes CO₂ through packaging reduction, plastic reduction, emission free printing and carbon neutrality. This is equivalent to 2.5 million car miles or 774 long haul flights.

We have reduced our own carbon footprint by 709 tonnes CO₂ through initiatives like the installation of solar panels, creating a Climate Positive Workforce and tree planting. This is equivalent to 1.8 million car miles or 543 long haul flights.

In total last year, we saved 1,719 tonnes CO₂.



We have also successfully gained ISO 14001 which is the international standard that specifies requirements for an effective environmental management system (EMS).

Come and see us on Stand D52 at Packaging Innovations NEC.

Contact
T 01274 685566
www.nationalflexible.co.uk

Grip Systems to showcase the original Manual Stretch Film Dispenser

Here at Grip Systems, we design and create all our products with the operator in mind. With a focus on improving the efficiency of your operations, we have a range of different products that work together as a system to maximise your packing process.

We are beyond excited to be launching our all new, most innovative and unique product at the upcoming exhibition, where we will also be showcasing the original Manual Stretch



Film Dispenser. In amongst a whirlwind of plastic packaging taxes and raw material price increase, Grip is here to simplify it all and show you how you can not only save money, but also valuable time and resources. Our clients have estimated an average 40% savings when switching to the Grip systems.

Stand C90 at the Packaging and Innovations show will be buzzing with hands on demonstrations and exciting new product

launches. Don't forget to come and collect your free bag of gifts too! When it comes to maximising the efficiency of your packing processes, we've got all the solutions and we can't wait to share them with you.

For more information, send us a message at: sales@grip-systems.com or give us a call on: +44 (0)1543 227954, alternatively, please visit our website: www.grip-systems.com

Get to know tray to tray rPET from Hordijk Packaging: 100% circular

Tray to tray rPET is filtered from household waste using an innovative technique, Magnetic Density Separation (MDS), and reused by Hordijk Packaging in the Netherlands for the production of transparent food packaging.

The MDS technique works as follows: plastic household waste is washed and ground very finely. In this way, the different types of plastic are separated from each other. Then the plastics with magnetic density separation are separated into four different plastics in one process step. These varieties have a purity of



>99%. We use the tray to tray rPET for new, transparent and food-safe packaging. Fully circular and unique in the food packaging industry. In March 2022, the first packaging with a tray-to-tray rPET share was launched on the market.

Hordijk Packaging is market leader fresh sliced vegetables and fruit and antipasti.

Winner Rethink Award Recycling with tray to tray rPET. We are member of Plastic Pact and ISO 14001 certified supplemented with CO₂ reduction management. Our packaging is highly efficient, transparent and safe, EFSA approved and fully recyclable.

Interested? Meet us at Empack in Birmingham (Stand K18).

Contact
T +31 756536353
info@hordijk.nl
www.hordijk.nl



Excelerate: High performance wrapping solutions

We are a specialist global supplier of high-performance, sustainable and innovative pallet wrapping solutions. Working in partnership with manufacturers, distributors, and producers, we help them to reduce their volumes of plastic, costs to wrap and increase overall efficiency. We are at the forefront of pallet wrap development, continually releasing new products that provide an array of benefits. Our latest development is our range of Goliath nanofilms and ExcelAir breathable films, which now include 30% post-consumer waste, factoring in the new taxation on plastics. These have been developed under the most stringent manufacturing process, ensuring mind-blowing performance whilst keeping the weight of materials as low as possible – our ethos is



thinner, yet stronger. We collaborate strongly with our customers to achieve truly great results, creating a highly effective, cost-effective, reliable, and consistent pallet wrapping operation.

Please come and see our team of experts at the Packaging Innovations & Empack show at the NEC Birmingham, on the 25th-26th May 2022 at Stand A8 to understand how investing in your end-of-line packaging can have a range of advantages, and to see our films in action.

Contact Guy Kitchener, Sales & Marketing,
T 01604 644100
M 07377 059044
guy@exceleratelt.com
www.exceleratelt.com



With nearly 40 years experience in the industry, Patrico is proud to be able to offer the most friendly, reliable and comprehensive service for your packaging needs



Steel Drums | Tinplate Drums
H.D.P.E Jerry Cans, Bottles and Poly Drums
4G/4GV Cartons | Intermediate Bulk Containers
UN Approved Buckets | P.E.T Bottles & Jars

WE SELL IN BULK AND SMALLER QUANTITIES
Deliveries are made daily in our own fleet of Trucks and Vans from our centrally located purpose built facility based in Tewkesbury.

Tel: 01684 299212 | www.patrico.co.uk

Patrico Ltd, Northway Lane, Tewkesbury, Gloucestershire GL20 8JG, United Kingdom

Quantex™: Enabling the future of liquid refill dispensing for supermarkets

Quantex, a PSG® brand, will be showcasing its unique and patented recyclable pump technology at Packaging Innovations 2022, Birmingham. The technology is exciting many bulk-dispense equipment manufacturers, brands, and retailers, and is expected to be the 'Intel Inside' the next generation of refill IoT platforms.



Quantex pumps use a positive displacement rotary action and form part of the fluid packaging: imagine a wine tap on a bag in box, except dosing is automatic, highly accurate, drip-free, and can be measured based on the number of pump rotations. Since no product travels through the fixed equipment and a new pump is replaced with every new liquid pack, cleaning and maintenance is virtually eliminated, and product replenishment times are

dramatically reduced. These are key requirements for retailers who have so far, been limited by systems that require far too much time for shop-floor staff to service.

The pumps only requires a standard motor drive and small air-pump to operate, therefore the cost and size of dispense equipment is reduced compared with peristaltic and other popular

pump systems. Quantex can not only successfully dispense highly viscous products like condiments/spreads or hair conditioner for example, but there are versions of the pumps available that can mix thick concentrates with water inside the pump so that diluted, ready to use products can be dispensed. This means that brands can save carbon emissions and costs by shipping less water, adding an attractive environmental prospect for the future of the retail supply chain.

Visit Quantex, a PSG brand, on Booth C20 and experience some exciting, game-changing machines that are already enabled by Quantex pumps.

For more information, please visit: www.quantex-arc.com

Introducing Zip Core packaging software

Zip Core Packaging Suite is a CAD/CAM packaging software from Vivid Laminating Technologies that has been created to optimise every aspect of packaging design from start to finish.

Sales and Product Manager, Lewis Evans said that Vivid is very excited to be launching the new product.

"Our software will provide businesses with a wide range of tools that speed up and automate the everyday jobs of packaging designers, graphic designers and salespeople involved in the creation and production of packaging," he said. "This will result in jobs being produced at a much faster rate. There are endless packaging templates to choose from within our library of designs, giving the customer the opportunity to create an infinite choice of projects with absolute simplicity."

"There are two bundles to choose from: Zip Core Design and Zip Core Design Pro. Compatible with both desktop and cloud solutions and integrated with Adobe Illustrator," he continued. "Meaning you can apply graphics to your packaging designs whilst being able to view a 3D model of the structure before production. Saving you both time and money."

Zip Core packaging software has been developed by Vivid to



enhance the use of their Veloblade Volta and Veloblade Nexus range of digital die cutting systems.

Vivid will be exhibiting at Packaging Innovations on Stand C75, where they will be demonstrating the new Zip Core Packaging Software alongside its other products and services.

For further information about Zip Core Packaging Suite, please visit: www.vivid-online.com

Emba Protec: Europe's leading manufacturer of retention & suspension packaging solutions

Emba Protec will be exhibiting at the Packaging Innovations/Empack 2022 Show at the NEC, Birmingham (Hall 1, Stand A40) on Wednesday 25th & Thursday 26th May 2022.

Emba Protec are Europe's leading manufacturer of retention & suspension packaging solutions. We will be highlighting our standard range of products including Emba Flex, Emba Quick and Emba Swing. We will also be demonstrating the Emba TrayTec automated retention system.

Headquartered in Bad Oeynhausen, Germany, we combine R&D, Production and Logistics all under one roof. With modern machinery and a lean administration, we manufacture standard & bespoke protective packaging



solutions, tailor-made for our customer's needs.

Over 500 standard sizes, the markets largest, and a choice of film qualities which include PE, PU, Anti-Static & VCI. This standard product range is available ex stock with low MOQ's.

More than 10,000m² of storage space,

and a modern high bay warehouse with 6,500+ pallet spaces, we can guarantee optimum service.

Recently, we have opened an on-site design studio, allowing our customers to join us virtually to optimise their packaging solutions. Within this facility, you can see products and designs become a reality, all whilst talking with our designers. Enabling the customer to discuss the designs, make alterations, and see new ideas all in a short space of time. With a wide range of fade in functions, and different camera views, clients can see their ideas just as if they were live on site.

T +49 5731 308880
info@emba-protec.de
www.emba-protec.de

Berry's quality PCR meets CSR and legislative requirements

As businesses increasingly seek to incorporate post-consumer recycled (PCR) material into their plastics packaging, both to support their own CSR objectives and to meet forthcoming legislation such as the UK's Plastics Tax, Berry M&H and Berry PET Power can offer PCR solutions for all their standard and custom products made in HDPE, PET and PP, in quantities from 30%, subject to availability.

Importantly, the companies have secured consistency of supply for the recycled material, while its high quality means packs incorporating the material remain fully functional and fit for purpose.



In addition, with HDPE and PET being widely recycled while PP is recyclable where local collection facilities exist, packs can be recycled again, closing the loop to provide an ideal demonstration of the circular economy.

Berry M&H and Berry PET Power offer an extensive choice of bottles, jars and closures for a wide variety of end markets including personal care, food and beverage, healthcare, homecare and commercial.

To discuss your PCR requirements or find out how to incorporate more recycled content into your products, contact our team on: 01502 715518 or visit: <https://mhplastics.com>

Manufacturing Update

The bridge between online business and traditional machine trade

Only insiders knew that world-famous organs were built in the idyllic small town of Weikersheim (Germany). Now the industrial auction house Surplex has auctioned off all the machines and operating equipment of the tradition-rich organ builder all over the world. It is a success story, representative of many international auctions of used machines that find a new owner via Surplex.com.

Surplex record: Bidders from 73 countries at one auction

In February, a two-day auction by industrial auction house Surplex.com of more than 1,100 lots from a renowned organ builder ended. A large selection of quality machines attracted a record-breaking nearly 1,600 potential buyers. In the end, over 27,000 bids were placed by 1,543 active bidders from 73 countries. From the small town of Weikersheim distributed all over the world. The basis for this success was the combination of the extensive range of high-quality equipment, a good price and the internationally active Surplex network.

Surplex had initially taken over the entire inventory at a fixed price, which provided the company with immediate liquidity. In Weikersheim, twelve Surplex employees were involved on-site. "We first looked at everything very carefully for seven days," says project manager Thomas Reichelt. The entire inventory was catalogued, machines measured and the weight estimated. The portfolio included various woodworking and metalworking machines (e.g. CNC lathes, machining centres and punching machines) as well as other machine accessories and workshop equipment.

The high-quality equipment from the woodworking and metalworking sectors was auctioned off for the company's own account. This also included large-scale marketing



that appealed to potential buyers around the globe. The organ builder's good international reputation also contributed to the sales success. Currently, the machines sold are being handed over to the customers. Once everything is settled, the empty premises will be handed over to the owner.



From location X into the wide world

Surplex is a local contact for an international market. The machinery dealer currently has locations in 15 European countries – more than any other industrial auction house in Europe. Each branch is headed by experienced country managers. They are specialists in the market potential of used machinery and know the special features of the national machinery markets inside out, including the rules for logistics, customs and taxes. Personal contact is the basis of cooperation: currently more than 20 languages are spoken at Surplex. The approximately 200 experts throughout Europe relieve and support sellers and buyers in all phases of the buying and selling process.

Act locally and think globally: A steadily growing base of registered buyers is accessed via the worldwide Surplex network. This gives sellers direct access to the world's most interesting markets and thus optimal revenues. More than 200 Surplex employees at locations in 15 countries offer full service in over 20 languages.

The 15 Surplex locations are:

- ▼ Düsseldorf, Germany
- ▼ London, Great Britain
- ▼ Barcelona, Spain



- ▼ Torino, Italy
- ▼ Paris, France
- ▼ Mysłków, Poland
- ▼ St. Pölten, Austria
- ▼ Biel (Bienne), Switzerland
- ▼ Budapest, Hungary
- ▼ Breukelen, the Netherlands
- ▼ Hofstade, Belgium
- ▼ Belgrade, Serbia
- ▼ Galați, Romania
- ▼ Porto, Portugal
- ▼ Brno, Czech Republic (and Slovakia).

Surplex Customer Care,
T +49 211 422737 20
info@surplex.com
www.surplex.com

UNISIG Deep Hole Drilling Systems: Perfection is never an accident

UNISIG produces deep hole drilling machines that are used around the world by nearly every industry imaginable – and at UNISIG, striving for perfection has never been an accident. To secure long-term success, the company decided to further invest in machining its own precision parts rather than subcontracting components, as some of the most critical parts they produced have tolerances and complexity that cannot be made by most machine shops.

To machine their own parts while continuing to grow and develop new products, UNISIG embarked on a new approach to machining which would allow for industry-leading CNC machine tool accuracy and performance to be



which required a change in thinking by the team's engineers, programmers, and machinists. To harness this new direction, UNISIG put in the time and energy to secure the best manufacturing resources

was to move away from classic CNC boring mills and adopt the higher productivity potential of CNC horizontal machining centres with twin pallets. After consulting with credible industry sources and leveraging their internal team's knowledge, the MB-10000H horizontal machining centre from Okuma was selected for medium-sized, high-accuracy part machining.

One of the most important factors in this capital investment was the need to trust the machine accuracy enough to program from its centre of rotation and let the machine run without stopping and manually verifying the machining process many times during the cycle. The Okuma MB-10000H installation was a success and reinforced UNISIG's wisdom to focus on automated machining – and the benefits were so extraordinary that UNISIG continued to look to additional Okuma solutions to bring its strategic vision to life.

UNISIG's next target was large-part machining. Previously, to hold the finished machine tolerances, extensive hand scraping was necessary which added a lot of time and expense to produce these machines. UNISIG established a set of machining accuracy parameters that would eliminate much of this handwork to achieve tolerances.

Working directly with the local distributor,

Morris Midwest, UNISIG was able to engage with Okuma America and Okuma Corporation's technical leadership to tailor the specification of an Okuma MCR-A5CII 35x10 double column machine for the exacting geometry and overall volumetric accuracy needed.

The collective Okuma team ensured the MCR-A5CII machine tool specifications were defined and perfect for UNISIG's application. A quick-change fixture system was developed by UNISIG to allow two parts up to 3m (10ft) long to be machined simultaneously and removed for setup offline. The results after installation were very impressive, allowing lights-out automatic machining of parts previously not possible for UNISIG to manufacture.

With two machines from Okuma running and performing to expectations, one more opportunity identified for upgrade resulted in the new MA-12500 machine. The OSP Control common to these three Okuma machines was a big value to the programming and simulation group at UNISIG. "This baseline trust in Okuma is what allows UNISIG to excel at advanced manufacturing," said Mr. Fetting.

In addition to offline tool presetting and modular workholding on all machines, UNISIG uses a variety of Okuma's Partners in THINC suppliers including: Mastercam, Vericut® and Renishaw. Using a layered approach to technology and understanding the benefits of eliminating the gaps between engineering, design, and manufacturing, UNISIG has differentiated itself as a machine tool builder. The company's long history of achievement is one Okuma and Morris Midwest are proud to be a part of – especially in helping UNISIG achieve their goal of capitalising on the full potential of automated machining.

**For more information, see below.
T +49 7125 9687590
www.unisig.com**



coupled with new technology that would ultimately eliminate manual intervention in machining that prevails in many shops.

"The deliberate connection between engineering, design, and machining improves our product. Our ability to rely on very high accuracy and productivity from our internal machining capacity allows UNISIG to provide more advanced solutions and value to its customers," quoted Anthony Fetting, CEO of UNISIG.

Automated machining was the goal,

available, including several Okuma machine tools.

To begin, UNISIG devised a plan to combine modular fixturing, offline tool setup, and full simulation of the machine, workpiece, and tools to provide a platform of innovation within their machine shop. The team's intent was to radically improve spindle uptime and exploit the full potential of automated CNC machining, even when the batch size would be only one part.

The first step of the UNISIG strategy



**UNISIG**

UNISIG TAKES MOLDMAKERS FURTHER

Increase your mold manufacturing versatility using the power of gun-drilling with the leaders in deep hole drilling, UNISIG. Offering complete solutions for everything from simple to complex mold components, UNISIG machines help moldmakers improve efficiency, throughput and precision with outstanding part-processing versatility at an exceptional value.



**TAKE YOUR MOLDBAKING OPERATIONS
FURTHER WITH UNISIG TODAY.**

Find out more at www.UNISIG.com

Components suitable for an AGV



What is an AGV?

AGV is short for Automated Guided Vehicle. AGVs are automated and computer-controlled transportation robots that can be used for a range of tasks. Common types of AVGs include Automated Guided Forklifts and Automated Guided picking robots.

You typically see AGVs in manufacturing and warehousing but can also be used for inspection, transportation, military and exploration applications.

Let's look into some of the components and some of the highly recommended brands that go together.

Vision:

Cameras

For your AGV to see, you must give it eyes. Cameras can be used to capture objects and scenes in 3 dimensions and are highly useful in logistics and AGVs. This means that you can get 2D and 3D images in high resolution within a small compact system, which can generate depth data and measure distance.

Barcode readers

Traceability improvements lead to performance improvement, transforming all capabilities in logistics and increasing productivity. You would typically see 1D and 2D barcode scanners in a warehouse and on an AGV. These help to track information and data, helping you keep track of what is happening.

Traceability is the biggest advantage of using a barcode scanner on an AGV, achieving higher productivity. Some are faster than ever and have great visual quality. Not forgetting they can be extremely configurable.

Sensing and detecting

Being able to sense and detect is one of the most practical, time-saving and efficient purposes of an AGV, which eliminates the use of labour.

Safety laser scanner – A safety device

Safety laser scanners can be mounted onto AGVs, and warning zones can be programmed to automatically change the vehicle's position, speed and direction. Additionally, there are versions with encoder inputs to allow safe measuring of the speed of the vehicle. The purpose is to ensure staff safety, whilst improving efficiency and is what makes the AGV so special and innovative.

LIDAR guidance scanner

LIDAR (Light Detection and Ranging) uses laser-based time-of-flight (ToF) technology to construct a 360° view for the guidance of AGVs. This guidance scanner is used purely for guidance and navigation of AGVs and can also measure distance, making them super important in terms of manoeuvring the robot in the right direction.

Control panel components:

Emergency stop solution

Safety is a priority! Emergency stops must be a part of any AGV, and you must have a completely reliable stop device. Safety is of utmost importance, and this is a simple but essential device that can be pulled/turned or key-controlled depending on the product.

An emergency stop solution consists of a mushroom head designed to 'push' with the action of a sufficient force to open the contact and triggers an irreversible locking of the opening. Then, an emergency stop signal gets cancelled only by deliberate manual resetting of the mushroom head.

Signalling beacon

A beacon should be visible on an AGV to show signals. A regular beacon would be suitable for this and is designed for maximum signalling effect, and it is also very easy to mount. There is also an option for a beacon and sounder combo for maximum effectiveness.

Cable glands

Cable glands suitable for use on AGVs provide EMC shielding that achieves an effective contact to the cable screen.

Motors:

Motors and gear motors

A simple DC powered gear motor may be used for applications such as internal flaps, doors, or movable dividers that present a low power requirement, up to fully networked high power brushless traction drive motors. Depending on the type of AGV you have, it is best to work with us to find the right components that you need.

Linear actuators

Linear actuators can be used for many operations on and within AGVs. We can provide 35mm long miniature

linear actuators to operate an internal door or camera lens cover, up to a large capacity unit for lifting components or replacing hydraulic lifts – all depending on the type of AGV you have.

Solenoids and electromagnets

Solenoids and electromagnets are used to lock compartments and security bolts. You'd use these for interlocks, holding doors/panels/dividers and cage locks.

A mere insight into a few of the components that make an AGV what it is today. Logistics, manufacturing and distribution are becoming unimaginable without Automated

Guided Vehicles. Say bye to inefficiency, human error and time-consuming processes!

Email information@oem.co.uk if you would like more information about AGVs and the components required.

OEM can help you with all industrial automation application enquiries.

T 0116 214 9454
sales@oem.co.uk
www.oem.co.uk



Outstanding Laser Products!

Raman Lasers for Fruit Quality Control

Raman spectroscopy is a new method to control the quality of fruits. It allows a non-destructive investigation of the freshness of fruits and to sort out those fruits that are no longer attractive to consumers. Another application is the non-destructive, rapid and accurate detection of pesticide residues on the surface of fruits. FLC offers a great variety of Raman Lasers for Raman spectroscopy in the visible and near infrared wavelength range.

Line Laser Modules for Alignment of Fruits

Sorting and quality inspection of fruits is still a time-consuming task because of the low level of automation. Natural products exhibit a greater variance compared to manufactured products regarding quality and dimensions, which complicates their automated processing. By means of a red line laser like a laser from the ML2040-Series or the HAML-F in combination with a color CMOS camera and a specially trained Convolutional Neural Network it is possible to determine the orientation of fruits. The accuracy of the orientation prediction is approximately 5 degrees, which presents very promising results for the automation of fruit packing systems.

See technical details on www.frlaserco.com

Contact: +49 (0)6172 27978-0 or email sales@frlaserco.com
 Frankfurt Laser Company, An den 30 Morgen 13, D-61381 Friedrichsdorf, Germany

New SCARA robot range provides OEMs with integrated control solution for robot, motion and machine automation

The motion-first automation control manufacturer, Trio Motion Technology, has launched a robot range that provides machine builders with a fully integrated control solution. The launch gives OEMs high performance robot control, motion control, and machine automation from a single controller. Trio's new robot range will speed up development time and increase reliability for machine applications that require robotic integration.

Trio's new SCARA (Selective Compliance Assembly Robot Arm) robot range has been designed to optimise productivity and control for applications including pick and place, assembly and dispensing. This makes the range highly suited to industries including electronics manufacturing (3C), packaging and material handling.

The range comprises four SCARA robots that extend from a 400mm arm range and a 3kg maximum load capacity,

through to a 700mm arm range and a 6kg maximum load capacity.

"Integrating robot, motion and machine automation into a single controller enables faster development for the OEM," says Tom Alexander, President, Trio Motion Technology. "Crucially, it means reduced field downtime for their customers, giving machine users increased productivity."

www.triomotion.com



Kempston Controls becomes Midlands distributor for Bürkert valves



Electrical component distributor, Kempston Controls, has become Bürkert's official distributor for the Midlands region. Based in Northamptonshire, Kempston Controls now supplies end-users across the region with Bürkert's range of process valves and flow control components. The main sectors of coverage include food & beverage as well as hygienic applications.

The new agreement means that Kempston Controls will supply a range of Bürkert products including process and control valves as well as solenoid valves. The distributor will also stock Bürkert's range of WRAS-approved material valves to demonstrate UK regulations compliance of water fittings that transfer water to and from the public mains supply. Kempston Controls will stock Bürkert products on-site and also provide 24/7 cover to support customers out-of-hours.

As a distributor, Kempston Controls will receive expert project support from Bürkert to optimise the design, implementation and commissioning of customers' process control projects. This includes technology such as Bürkert's FLOWave volumetric flow meter for high accuracy measurement of pharmaceutical-grade water and ultra-pure media applications.

Kempston Controls will also have access to food & beverage solutions such as the tank blanketing system that enables the automated control of pressure and atmosphere inside a tank. The solution is deployed in applications such as brewery buffer tanks to maintain the desired conditions and prevent bacterial growth.

Having been a reseller of Bürkert products for several years, the formalised distribution agreement will enable Kempston Controls to expand its presence in the process sector. Thomas Steele, Midlands Area Sales Manager at Bürkert explains, "The agreement increases the support Bürkert can provide to customers in the Midlands with greater speed and availability of valves and associated process control components. It also enables our system design engineers to be more involved in projects, particularly within the food & beverage sector and hygienic applications."

"Significant growth for Kempston Controls is taking place within the process sector and we're serving an increasing amount of customer projects. For our customers, Bürkert's support means very high-quality valves with rapid availability," says Kempston Controls' Sandeep Sarpal, Commercial Manager of the company's Process Division.

"Bürkert's backing also means support for process system design and Kempston Controls can directly integrate with the company's flow control engineers. Our future growth plan is to offer a complete solution from design through to field support, and this agreement is the start of that," Sandeep adds.

Kempston Controls is committed to finding you the ideal solution for your application. Call us today on: +44 (0)1933 411411, email us at: sales@kempstoncontrols.co.uk, or alternatively visit: www.kempstoncontrols.co.uk, we will be happy to help.

ECO PHYSICS nCLD "Facelift" boxed solutions

AL, AL², EL S, EL, EL²



Measurement of:
NO · NO₂ · NO_x

The one- and two-channel chemiluminescence based NO_x analyzers of the nCLD "Facelift" box-solution analyzers detect NO, NO₂ and NO_x at concentrations ranging from 5 ppm to 5000 ppm with minimal detection limits averaging from 0.4 ppb to 0.5 ppm. They hereby focus on two main application areas, Ambient Air (AL, <50ppm) and Emission/Process (EL, <500ppm; EL S <5'000ppm) monitoring. The one-channel nCLD AL, EL and EL S feature an external pump, while the two-channel nCLD AL² and EL² include an internal pump. The nCLD "Facelift" boxed solutions consist of five, fixed and preconfigured analyzers. The nCLD AL (Ambient Level) and EL S/EL include a standard NO/NO_x measurement, with an optional NO₂ add-on, while AL² and EL² include, due to the two-channel set-up, a standard NO₂ detection. The slightly modified front panel has been equipped with an additional Power-button and a new internal PC. Additionally, are all nCLD-models capable of a remote power down/up including a failsafe feature.

- Compact analyzer with external or integrated pump
- "Toggle mode" NO₂-feature for One-Channel instruments
- Intuitive graphical user interface
- Internal data logger and status recorder
- Remote operation/control, Power DOWN/UP
- USB, HDMI, LAN/WLAN, Bluetooth, RS-232, Analog I/O



ECO PHYSICS AG · POB · CH-8635 DUERNTEN · TEL +41 55 220 22 22 · FAX +41 55 220 22 55 · E-MAIL INFO@ECOPHYSICS.COM · WWW.ECOPHYSICS.COM



The World's Leading One Stop Shop for Collaborative Applications

The OnRobot food-grade Soft Gripper is able to pick a wide array of irregular shapes and delicate items in food and beverage, cosmetics and pharmaceuticals production, as well as manufacturing or packaging.

"Our Soft Gripper is challenging existing solutions for picking hard-to-grasp, delicate and odd-sized items," says CEO of OnRobot, Enrico Krog Iversen. "Unlike proprietary solutions, the Soft Gripper offers seamless integration with most collaborative robots and light industrial robots through our One System Solution."

Soft Gripper

Explore new automation possibilities with certified food-grade soft gripper

- Easily handle a wide array of irregular shapes and delicate objects with flexible silicon-molded gripper
- Safely handle fragile and delicate objects for higher production quality and reduced waste
- No external air supply means no dust, no noise, no complexity, and no additional costs



For more information, visit our site at: www.onrobot.com or contact us at: north-europe@onrobot.com

Ewellix



Ewellix has developed a smart electro-mechanical actuator with extended functionality, for use in demanding applications such as agricultural and construction machinery.

Compared with earlier models, the smart actuator CAHB-2xS offers four new or enhanced features – in control, accurate position sensors, built-in monitoring/diagnostics and communication. It also offers a typical MTTF (mean time to failure) of 75 years.

“The CAHB-2xS adds smart control functions, sensors and communication to equipment and machinery, says François Ducourant, business development manager at Ewellix. “It’s the first in a family of new products that are part of the Ewellix SmartX digital platform to help customers in their journey towards digitalisation.”

The actuators have a wide range of potential applications. These include agricultural equipment, construction machinery and materials handling equipment. They can also be used in work platforms and scissor lifts, and in electric vehicles such as utility task vehicles (UTV), road-sweepers and buses. One example is an autonomous mobile robot (AMR), which could use four actuators to lift heavy loads in a horizontal plane. Alternatively, a combine harvester might use dozens of actuators – connected to an electronic control unit (ECU) to ensure correct process control, information feedback, and onboard diagnostic function.

uk@ewellix.com

Take the stress out of monitoring noise with Cirrus Research

Monitoring and measuring noise doesn't have to be difficult or complicated. At Cirrus Research, we do everything we can to make monitoring noise as straightforward and stress-free as possible, that's why we've taken sound to the cloud!



Quantum Outdoor is a complete cloud-based noise monitoring system that is designed to make long-term noise monitoring easier and more accessible than ever before.

Cloud connectivity means that Quantum Outdoor instantly sends all your noise data directly to an online account, where it can then be viewed and analysed remotely from any location and device.

As Quantum Outdoor is accessed remotely, it's well-suited for any organisation that requires constant noise monitoring, and its easy-to-use interface makes it incredibly straightforward to get to grips with.

With other features such as automated alerts, the ability to map locations of the monitor and with cloud access anytime, anywhere on any device, you can truly be in control of your noise impacts.

Start your Quantum journey today!

T +44 (0)1723 891655
sales@cirrusresearch.com
www.cirrusresearch.co.uk

British Rema solution for Genesys International

Leading innovator in reverse osmosis (RO) membrane chemicals for the water treatment industry, Genesys International, turned to British Rema to help bring an outsourced powder manufacturing process in-house. With a view to generating new business, increasing operational efficiency and sustainability and to create new jobs at the company's facility in Middlewich, Cheshire, the company opted for bespoke Ribbon Blenders to optimise production in-house.

British Rema is a global leader in powder processing equipment and provides specialist technical and engineering knowhow to a variety of industries. The brief from Genesys International was to provide a solution for blending batches of the company's existing range of anti-scalants, cleaners, flocculants and biocides to the required powder specification at optimum output.



To analyse the feasibility of the project and to optimise the process and agree the final scale of the equipment, the two companies worked in partnership to conduct mixing trials on a scaled version of the proposed Ribbon Blender design at the British Rema test facility in Chesterfield.

Following the success of the trials, the British Rema technical team designed a system comprising two 1,250 litre capacity ribbon blenders and proposed a further access platform option to offer additional blending capacity. This would offer Genesys the ability to run the blenders autonomously and enable each unit to produce a different (discrete) formulation if required.

The official opening of the new plant was held on 15th March 2022 and Genesys International welcomed local dignitaries, customers and suppliers to the Middlewich, Cheshire facility.

Contact
T +44 (0)1246 269955
knowhow@britishrema.com
www.britishrema.com
www.genesysro.com

Powder processing with added know how.







In 1927 we began learning how and over the years we have developed our knowledge and expertise in powder processing and rotary engineering. Today, our knowledge is derived from our experience and determination...and if we don't know the answer...we'll do our very best to find it for you.

British Rema – A global player in contract powder processing, powder processing equipment and rotary vessel engineering.



Powder processing

Process equipment

Rotary engineering

British Rema, Image Works, Foxwood Close, Chesterfield, Derbyshire S41 9RB Tel: +44 (0)1246 269955
Email: knowhow@britishrema.com Visit: www.britishrema.com

Medical Shops achieve surgical precision with deep hole drilling automation

Medically speaking, cutting people open is dangerous. Today, physicians get around this problem by using modern surgical instruments to perform minimally invasive procedures, which make major operations into simple outpatient appointments. But to accomplish these feats of surgical science, manufacturers in the medical industry have to drill small-diameter holes through the entire length of slightly larger instruments. Thin part walls, intricate features, high surface quality and concentricity requirements, and extreme depth-to-diameter (D:d) ratios make these parts a challenge in production.

A typical laparoscopic surgical instrument is designed to direct tools, cameras and other devices into the body through the instrument using a guide wire. And to ensure smooth, reliable and accurate performance during procedures, highly precise hole concentricity is required at D:d depth ratios well above 100:1, a challenge even for dedicated deep hole drilling equipment.

With these challenges, it's no surprise that many manufacturers try to skip the deep hole drilling process altogether by farming out the work, but going

to outside suppliers brings its own problems. Pre-drilled blanks might solve the deep hole drilling problem, but they have to be fed into the machine one by one, defeating the whole purpose of using automation-ready Swiss-style machines. Meanwhile, cannulated bar stock allows shops to continue using their bar feeders, but it's very expensive – and the hole quality and O.D./I.D. concentricity rarely meet the needs of medical manufacturers anyway.

To overcome these challenges, medical manufacturers are turning to dedicated deep hole drilling equipment to finish instruments started on the Swiss-style machines. With an experienced gundrill operator, careful setup and a bit of finesse, the hole quality can be excellent, and it allows the Swiss-style machines to remain fully automated. The only remaining problem is part handling and transfer which introduces significant risks when the accuracy requirements are so high, and if the part has to be flipped to drill a stepped bore, that introduces more setup operations and more risk of human error.

What medical manufacturers need is a truly end-to-end automated process that allows for an efficient single-piece workflow for surgical instruments – and some deep hole drilling OEMs, such as UNISIG, have engineered all the technology required to meet this goal. The result is a complete system that offers easily automatable, on-demand deep hole drilling processes for the most demanding surgical instrument applications: the UNE6-2i.

As a twin-spindle machine with two independent drilling axes, the UNE6-2i inherently has the capabilities manufacturers expect from a high-performance deep hole drilling machine. Counter-rotation, specialised workholding and superior alignment and precision allow shops to confidently hold concentricity tolerances and minimise mismatches, even at the extreme D:d ratios common in the medical industry. In addition, the UNISIG Smart Control Interface simplifies operation, while an innovative flow-based coolant system automatically reacts to pressure changes for effective chip evacuation and high process security.

What allows the UNE6-2i to truly shine as a part of the surgical instrument production process, however, is the in-machine automation. After the front

spindle drills the first hole, a robot takes it out of the spindle, puts the hole onto the second spindle, and loads another fresh blank into the first spindle. The robot's perfect repeatability ensures the highest hole quality – and the only human labour required for the process is loading bar stock into the Swiss-style machines, preparing the blanks for the UNE6-2i's robot and sending the finished parts on for post-processing.

The UNE6-2i's capabilities also give manufacturers significant production flexibility. Two holes with two different diameters could be simultaneously drilled in a single part, or two parts could be in-process simultaneously to allow operators or robots to load and unload the machine without stopping. Alternately, this twin-spindle configuration can be used to drill halfway through a part from one end with the first spindle and allow the second spindle to finish the hole from the opposite end.

Contact
www.unisig.com



Storage Solutions Update



STORAGE PROBLEMS?

We've heard it all. Better yet, we've solved it all. Get in touch with our Business Services team today to book your **FREE** consultation.

Scan me



BiGDUG

WWW.BIGDUG.CO.UK 0800 141 3380

DCR Inspection Systems

DCR is home to the UK's largest fleet of drain inspection cameras for hire. We also have drain cleaning and repair equipment for hire, with every item on our fleet – along with everything else a drainage professional could ever need – available to purchase in our drainage superstore. Our team of experienced engineers can also repair and service all models of drain camera.



We began trading in 2007 – repairing and servicing electrical drainage equipment – and quickly became known for the quality of our work and exceptional service. Identifying a gap in the market, we reinvested profits back into the company: purchasing drain cameras and making them available for hire. This allowed our clients to take advantage of this technology, undertaking more advanced, profitable work without high up-front costs.

Devoted to providing our customers with an exceptional service, we help them access the equipment they need to complete jobs quickly and to the highest standard.

Doing so consistently, we have established ourselves as a leading provider to the drainage industry. We've continued to reinvest in the company, adding new items to our hire fleet and developing products such as the innovative ManUp Key, a seal breaker for releasing seized access covers.

Contact
 T +44 (0)1443 841540
 hire@draincamerarepairs.co.uk
 www.draincamerarepairs.co.uk

Every breath you take



As the One-Stop-Shop for surface preparation, the expert teams at The Preparation Group work hard to ensure every breath you take on-site is a safe one: dust. If not controlled, dust presents a major hazard to operators of machinery, trades in the local vicinity and the general public.

With our wealth of knowledge, over 30 years' professional experience, and fleet of efficient, innovative machines; The Preparation Group offers dust extraction and filtration solutions that will contain toxic and hazardous dust, debris and/or airborne particles on every project – from 5m² to 50,000m².

Selecting the best equipment is a challenge. Our on-hand teams advise and guide you to secure the most effective equipment to make sure that potentially harmful dust can be dispersed, purified, eliminated and/or contained correctly throughout the duration of your project.

Our smart, high-performance vacuums can be matched to all models of equipment/tools, and efficiently defend against exposure to harmful dust. The Preparation Group is always improving its fleet of innovative equipment, growing our knowledge and experience to ensure you can trust us to guide and advise you to deal with dust safely, diligently and effectively – no matter the project.

Contact our expert team today and start tackling dust on: +44 (0)1522 561460.

www.ppcgroup.co.uk

Guardtech Cleanrooms

Guardtech Cleanrooms are an industry-leading provider of bespoke controlled environments and laboratories, delivering custom cleanroom design and construction solutions alongside comprehensive commissioning services. We've supplied the Life Science and High-Tech Engineering industries throughout Europe since 2000.

Offering turnkey solutions for clients looking to create, improve, upgrade or relocate a critical environment, Guardtech manage the design and installation of all structural, mechanical and electrical elements of all projects to provide a hassle-free experience for clients.

With in-house Designers, full-time specialist Installation Engineers and dedicated Project Managers, Guardtech provide expert advice based on a 20-year history and varied



portfolio of successful cleanroom projects. Guardtech focus on delivering the best possible value to clients and excel in balancing client specification and application requirement

against project limitations, to deliver cleanrooms that exceed expectations, not budgets.

Guardtech provide cleanroom installations for all applications and budgets, ranging from standard modular cleanrooms, softwall cleanrooms and ISOPODs for small to medium scale applications through to entire turnkey cleanroom design and construction.

Guardtech also supply a wide range of standard and bespoke cleanroom equipment & furniture, in addition to cleanroom validation, service & maintenance, testing and cleaning.

T 0330 113 0303
 sales@guardtech.com

Effective Decontamination for Every Problem

- HPC - Industry Leader & Innovator
- Many Year's Experience
- HPC Design and Build Ultrasonic Atomising System

● COVID-19	● PSEUDOMONAS
● INFLUENZA A & B	● LISTERIA
● NOROVIRUS	● SALMONELLA
● SARS	● MOULD

Contact the HPC Team to find out more...
0800 0248090
 www.hygieneproclean.com

Say goodbye to nasty microbes.
 Breathe easy. Be together

99.9% EFFICACY
 VIRUSES | BACTERIA | MOULD | FUNGI
 UVC ASTM E3139-18 CERTIFIED

AIR is a desktop, UVC LED air sanitising unit that destroys 99.9% of all viruses, bacteria, mold and fungi in the air and on surfaces.

Contact us on: **0121 562 1952**
 to order AIR by Atmos-Clear.

For more information visit: airbyatmosclear.com

the preparation group
 Est. 1991

The One-Stop-Shop for all your Surface Preparation Requirements from 5 to 50,000m²

www.ppcgroup.co.uk | +44 (0)1522 561460 | sales@ppcgroup.co.uk

Introducing the GS4400

We are excited to announce our latest in product development, the GS4400. This GENSPEC pressure transmitter is designed to meet the operational requirements of demanding pressure measurement applications where good quality, fast delivery and low cost are of the highest priority.

Providing a half-duplex digital RS-485 output signal and 0-5V analog output, the GS4400 provides high stability and repeatability. It can suit a multitude of applications and with proprietary RS-485 protocol, can operate up to 32 devices on the same BUS. The unique

Silicon-on-Sapphire sensor technology provides outstanding performance and gives excellent stability over a wide temperature range.

The advanced sensor design consists of a piezoresistive silicon strain gauge circuit, which is epitaxially grown onto the surface of a sapphire diaphragm to form a single crystalline structure.

The sapphire sensor is then molecularly bonded to a titanium alloy sub-diaphragm, enabling the sensor to endure higher over-pressures and providing superb corrosion resistance,

virtually no hysteresis and excellent long-term stability. Applications for the GS4400 include the continuous monitoring of hydraulic systems with oil, gas, water and other process liquids, industrial, medical and aerospace industries. Also ideal for the measurement and control of pressure in refrigeration, pneumatic, compressor, HVAC and engine monitoring systems.

T +44 (0)1978 262255
 sales@esi-tec.com
 www.esi-tec.com
<https://www.facebook.com/pressuremeasurement>



NOTE Windsor invests in a new SMT line and 3D Zenith Alpha HS+ AOI



Following on from last year's investment, NOTE Windsor continues to invest with another SMT line and the latest 3D AOI Zenith Alpha HS+ from Koh Young.

April saw delivery of another SMT line which brings the total to five automated SMT lines in the Windsor site. Business growth, together with the demand to meet new technology requirements has driven the investment as they continue to support existing customers and provide capacity for new customers.

This cements NOTE's continuing efforts to be at the forefront of manufacturing technology and to deliver quality results to all customers.

With more capacity and enhanced 3D measurement capabilities using AI technology the 3D AOI system utilises 5 projectors to provide true measurement up to 25mm high of the profile and shape of components and solder joints to IPC-610 standards, overcoming the limitation of 2D AOI systems which are often prone to false calls.

Managing Director, Karen Heath states, "The investment expands both the manufacturing capability and capacity for NOTE Windsor. As we continue to deliver high-quality complex PCBAs and seek to partner with new customers, these systems position us ready to support future technologies that new and existing customers may require."

For more information, please visit:
<https://www.note-uk.co.uk> or
<https://www.note-uk.co.uk/2022/03/16/note-windsor-invests-in-latest-3d-aoi-technology>

Smartening up temperature control

Integrating a smart power controller with other automation equipment allows process variables to be monitored remotely and allows operators and line maintenance personnel to quickly locate problems.



Watlow's range of thermal systems, including its ASPYRE power controllers, is frequently used by industrial companies in petrochemicals, heat treatment and power generation. The ASPYRE model is available between a range of 35 to 2,100 amps to support a wide variety of applications.

Andy Selvy, chief system designer at industrial technology company Watlow, explained more:

"Smart power controllers are a sensible choice because the temperature controller and power controller work together.

"The temperature controller measures the temperature with a sensor and determines how much of the available power is necessary to achieve set point. The power controller interprets the output from the temperature controller and controls the delivered power accordingly. Finally, the power controller adjusts the power delivered for voltage fluctuations and to the best of its ability when there is a partial failure of the heater.

"The smart power controller measures the line voltage and the current through the load. With that information it calculates the load resistance and how much power is being delivered by the heater. Power controllers can help companies monitor the load parameters during equipment installation and compare the profile with previous known good start-ups. By doing this, they can receive warning of issues localised to the heated zone, allowing preventative action to be taken before a failure occurs."

For more information, visit: www.watlow.com

ESi Technology Limited

HYDROGEN COMPATIBLE PRESSURE MEASUREMENT SOLUTIONS

- Compatible with Hydrogen based environments
- Pass tested to ISO11114-4:2017
- Superior Silicon on Sapphire sensing technology
- Made from specialist titanium alloy and stainless steel material

www.esi-tec.com

PM LEGACY™ Panel Mount Controller

The Watlow® PM LEGACY™ series panel mount controller is an industry leading PID controller that allows optimal performance utilizing simple control and menu functionality without complex features.

- Simplified menu
- Touch safe package
- PID auto-tune
- Agency approvals
- Standard bus communications
- Three-year warranty

Ideally suited for basic applications or usage levels

Powered by Possibility

Contact your local Watlow representative or visit www.watlow.com to find out more

Classifieds

Key Replacement

ORDER KEYS ONLINE – SIMPLE AND SECURE



KEYS PLEASE
The key replacement service

Simply quote the numbers & letters stamped on the lockface and we can usually send the keys the same day

020 8343 2943

SALES@KEYSPLEASE.CO.UK
WWW.KEYSPLEASE.CO.UK

Sustainable Packaging

Smart, Automated & Sustainable Packaging

uk.packsize.com



Magnets



Metal Detection Magnetic Separation

MASTERMAGNETS.COM

Permanent Magnets Magnetic Sweepers

GLOBAL. MAGNETIC. FORCE.™ 01527 65858

PC Instrumentation

130 different digitizers 55 different AWGs

PCIe – PXIe – LXI / Ethernet



SPECTRUM INSTRUMENTATION

www.spectrum-instrumentation.com

Engineering



Telephone: 02825 656406
Email: info@ges-group.com

www.ges-group.com

Force Measurement



FORCE MEASUREMENT SOLUTIONS

Load Cell, Torque and Pressure Sensor Specialist

www.interfaceforce.co.uk

Ultrasonic Cleaning



Units 1-4, Cashel Road, Wirral, Merseyside
Tel: 0151 639 6020 Fax: 0151 334 7407
Email: sales@hilsonic.co.uk
Web: www.hilsonic.co.uk

Packaging

Smart, Automated & Sustainable Packaging

uk.packsize.com



Tanks & Drums



NEW AND RECYCLED DRUMS.

The Tank and Drum Experts.
Collection/nationwide delivery available.
Visit www.smd.co.uk or call on 01594 833308.

3D Printing

Incremental Engineering
Incrementalengineering.com

Fast Production End Use Parts

Meshes & Filtration

Specialist in filtration equipment, media, metal, nylon meshes and technical fabrics



+44 (0)151 647 4579
karl@plastok.co.uk www.plastok.co.uk

Hinges



Quality hinges for over 200 years

01827 63391
sales@goldwassalhinges.co.uk

Plastic Products



Looking for an alternative to Cardboard?

Plastic Core Tubes & Cutting Sleeves
Manufactured in the UK

- Vast range of diameters
- Various wall thicknesses
- Wide range of materials
- Specific lengths available

Significant Cost Savings when comparing Life-cycle costs to other materials

Direct from manufacturer

T: 0121 522 0290
E: specialistplastics@naylor.co.uk

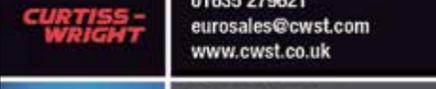
Cylinders & Systems



Design & Manufacture Of Hydraulic Cylinders & Systems

01822 833111
www.interfluid.co.uk
sales@interfluid.co.uk

Surface Technology



01635 279621
eurossales@cwst.com
www.cwst.co.uk

- Controlled Shot Peening
- Laser Shock Peening
- Thermal Spray Coatings
- Dry Film Lubricants
- Organic and Inorganic Coatings
- Parylene Ultra-thin Conformal Coatings
- Superfinishing
- On-site Processing
- Material Testing and Analysis
- NADCAP, ISO 9001:2008, ISO 13485, AS9100 Rev D

Solenoid Valve Operating Magnets



www.fridgenius.co.uk
Solenoid Valve Operating Magnets

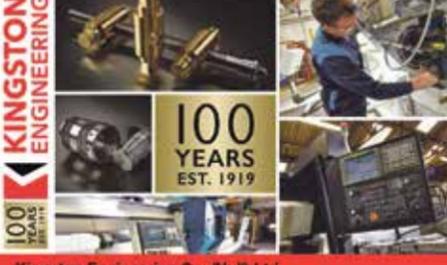
Sewage Treatment



SEWAGE & EFFLUENT TREATMENT SYSTEMS

Freephone: 0800 328 5492
Email: sales@allertonuk.com
Website: www.allertonuk.com

Engineering



100 YEARS EST. 1919

Kingston Engineering Co. (Hull) Ltd
Pennington Street, Hull, East Yorkshire HU8 7LD
Tel: +44 (0)1482 325676
Email: sales@kingston-engineering.co.uk
www.kingston-engineering.co.uk

Pressure Technology



Pressure Measurement Solutions

01978 262255
sales@esi-tec.com
www.esi-tec.com

SUCO GROUP Suco WORLDWIDE esi

Valves




01684 275752
inquiries@uk.ari-armaturen.com
www.ari-armaturen.com

Turned & Milled Products



qualiturn
Products Ltd
BRITISH SUBCONTRACT SUPPLY
OF TURNED & MILLED PRODUCTS

WWW.QUALITURN.CO.UK 01992 584499

Waste Balers & Machinery



Presona
See a world where recycling just works!

Presona is the leading supplier of waste balers and recycling baler machines in the UK, supporting your business in being more effective and sustainable.

T 01278 444527 www.presona.co.uk

Repetition Turned Parts



Kirkham Engineering Co. Ltd.

14 - CNC Sliding Heads up to 32mm; 13 - CNC Twin Turret Fixed Heads up to 65mm; 11 - Twin Turret Twin Spindle; 2 - Twin Turret; 5 - CNC Single Turret; 3 - CNC Single Turret Twin Spindle also 65mm capacity

Fixed Heads up to 6" Billet. Centreless Grinding & T/rolling. All materials - Stainless Steel; Nickel Alloys and other exotics a speciality.

01695 727401
www.kirkhamengineering.co.uk

Labels & Nameplates



MTM Products
www.mtmproducts.co.uk

The Industrial Graphics Specialist

- Product, model & safety labels
- Graphic overlays
- Pre-spaced vinyl cut lettering
- Engraved labels
- Aluminium brand, serial number & rating plates
- Labels & nameplates with variable barcode, QR or data matrix

Tel : +44 (0)1246 450228
ISO9001 & ISO14001 Certified

Handling Equipment



TAWI

Quality ergonomic handling and lifting equipment. Suitable for all industries. Bespoke builds, ATEX & stainless steel available. Call us today to arrange a free, no obligation site visit and a member of our team will visit you to discuss your needs in person.

01604 591320
www.tawi.com
eh.info@plab.com

Springs & Pressings



EUROPEAN SPRINGS & PRESSINGS
a company of LESJÖFORS

Complete service support from design to manufacture

We offer full design and production of standard and bespoke metal components in a comprehensive range of materials. Our products range from tension, extension, compression, torsion and gas springs, to wire forms and metal pressings.

For all enquiries please call us on: +44 20 8663 1800 or email us at: sales@europeansprings.com

Air Conditioning TM44 Inspections



CUBIC APPLE

Cibse TM44 (ACEA) UK Wide
#1 Independent Specialists
ATHERSTONE WARWICKSHIRE CV93AD

Tel: 01827 713 870
Email: accounts@cubicapple.co.uk
CUBICAPPLE.CO.UK

Dosing and Control Systems



SEKO

Your Global Partner for Dosing and Control Systems

01279 423550
www.seko.com

Leak Detection & Repair



Leaks aren't always obvious

...until you use **GloLeak UV**

PRIMALEC

CONTACT US NOW TO SAVE MONEY & MESS

Call us today +44 (0)1622 816955
customers@primalec.co.uk | www.primalec.com

Chemical Labelling



Custom made multi layer labels, Digital flexible films printing & more

Offset & Print Management
EUROPA BV

labels@opm-europa.com
www.oenpm-europa.com

Dual Pumps



dual pumps

www.dualpumps.co.uk
Call 01664 567226

Vacuum Lifting



Palamatic
Handling solutions designed for you

Vacuum Lifting Specialists

CONTACT US TODAY FOR A FREE NO OBLIGATION SALES VISIT

+44 (0)1246 452 054
sales@palamatic.com
www.palamatic.com

Monitoring



FARADAY PREDICTIVE

Vibration Monitoring, Electrical Monitoring, Energy Monitoring and Optimisation, all in one go.

www.faradaypredictive.com
0333 772 0748

Drum & IBC Heaters



THERMOSAFE LTD

Industrial Heating Technology for drums, IBCs, tanks & containers

www.lmkthermosafe.co.uk

Test & Measurement



Test and Measuring specialist for over 60 years

METREL

01924 245000 www.metrel.co.uk

Lighting Equipment



WOLF SAFETY

WORLD LEADING MANUFACTURERS OF HAZARDOUS AREA ATEX & IECEx CERTIFIED LIGHTING EQUIPMENT

T: +44 (0)114 255 1051
E: info@wolfsafety.com
WWW.WOLFSAFETY.COM

Pipework Systems



JACOB
NO. 1 IN PIPEWORK SYSTEMS

SAFE. VISIBLE. READY TO GO.

FIRST-CLASS HYGIENE:
When it comes to sensitive goods such as food or pharmaceutical products, the highest standards apply. The JACOB FOOD GRADE line fulfils the requirements of EC 1935/2004 and the FDA.

FOOD GRADE

More information: jacob-uk.com

Glue Gun Services



Proflex
Shaped Hot Melt

Packaging Glue Sticks & Glue Guns

Passfield Business Centre, Lyndborough Road, Passfield, Hampshire GU30 7SB
Telephone: 01428 751 755 Email: enquiries@adco.co.uk
www.adco.co.uk

Labels, Regalia & Badges



WWW.GIBSONPLUS.CO.UK

Fast, friendly, efficient service from a local supplier you can trust. All items made to your specification.

10% OFF
Just mention this advert to receive 10% off your first order!

- Plastic Labels
- Vinyl labels
- Serial Plates
- Switch Plates
- Valve Tags
- Valve Charts
- Name Plates
- Legends
- Photo ID
- Mimics
- Health and Safety Signage

028 9181 8801
ADMIN@GIBSONPLUS.CO.UK



Choose life, Choose wood

Go to vandecasteele.be and discover why wood is the only sustainable construction material...



2025 – our aim is to trade in Certified timber only from 2025 onwards



Using timber tackles climate change



Calculate your environmental impact

Photo © Dieter Dejonghe

Using timber is good
Using certified timber
is wonderful

Contact
Bergstraat 25
8511 Aalbeke
Belgium
vandecasteele.be

genevieve@vandecasteele.be
+32 56 43 33 00
dave@vandecasteele.be
+44 15 94 83 43 32