

INDUSTRY UPDATE

Tel: **01562 756960** | www.industryupdate.co.uk | August 2022 | issue **239**

Follow us on Twitter  @inu_uk

Search for us on LinkedIn 

Inside this Issue



Quantex

Pump Technology
See them on page.....11



European Springs & Pressings

Springs & Shock Absorbers
See them on page.....13



EnviroChemie

Water, Energy & Environment
See them on page.....19



Interface Force Measurements

Test & Measurement
See them on page.....21

Contents

- 2-3** Editor Recommends
- 4** The Supply Chain & Logistics Expo Review
- 5** Logistics Service Provider Company of the Year
- 8-9** PPMA Total Show 2022 Preview
- 13** Springs & Shock Absorbers Company of the Year
- 14-16** Machining Update
- 18-19** Water, Energy & Environment Update
- 24** Cleaning Update

STANDARDISED, UNIVERSAL REACTORS FOR EVERY BUDGET. QUICK & EASY TO USE!



For

- CHEMICAL SYNTHESIS
- PROCESS DEVELOPMENT
- STIRRING, DISSOLVING, MIXING AND EXTRACTION
- AND OTHER

QUICK & EASY VESSEL EXCHANGE WITHOUT REMOVING THE UPPER SECTION

We offer complete solutions, including automation, thermostat, and dosing system.

LET'S TALK!

suurmond
engineered solutions

SUURMOND.COM

CPL ACTIVATED CARBONS

The Active Force in Carbon & Service

FiltraCarb® - Activated Carbons
Clean-Flo® - Mobile Carbon Filters
Regen-Sys® - Spent Carbon Reactivation
Engineering & Site Services Support
UK-based R&D/QA Labs

A complete range of purification solutions for the renewable energy sector

- Ammonia (NH₃) abatement
- Biogas purification
- Odour management

rwm Stand R-M290
letsrecyclelive 14-15 Sept

activated-carbon.com
01942 824 240
info@activated-carbon.com

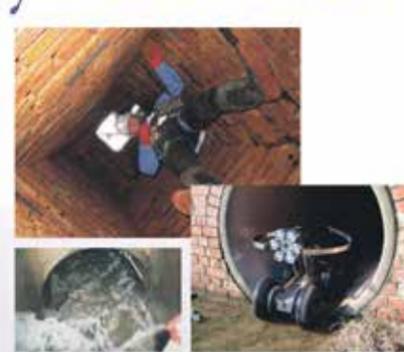
ISO 9001
ISO 14001
BUREAU VERITAS Certification



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

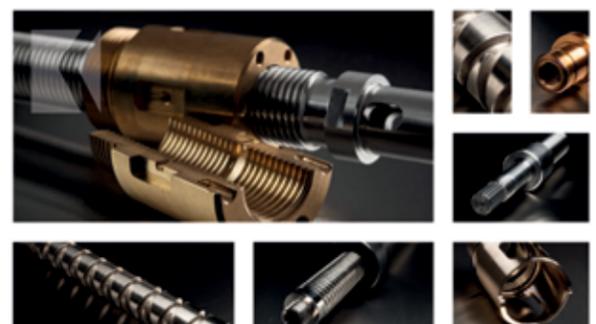
For more information visit our website: www.sewerage.org
or call Val Gibbens on 020 8330 0123

OVER 100 YEARS EST. 1919

KINGSTON ENGINEERING

Leading Specialist Manufacturer and Producers of Bespoke Power Screws

PRECISION ENGINEERING SERVICES



- Ex Stock Power Screws and Nuts
- Precision-machine Components
- Self-reversing Screws and Followers
- Specialist Leadscrew and Power Screw Products
- Accredited by Aerospace, Nuclear & Chemical Customers

+44 (0)1482 325676
sales@kingston-engineering.co.uk
Follow us

www.kingston-engineering.co.uk

Kingston Engineering Co. (Hull) Ltd. Pennington Street, Hull, East Yorkshire, HU8 7LD, UK



The entire content of this publication is advertorial based. To place an advertorial or an advert, please call 01562 756960.

High efficiency pumps for Aalborg District Heating, DK



The best pumps for the purpose!

These are some of the words formulated by Thomas Andreasen at Aalborg District Heating when questioning why DESMI centrifugal pumps were selected by Aalborg District Heating for the new pumping station.

DESMI was selected due to the following parameters:

- ▼ High efficiency
- ▼ Good price
- ▼ Compliance with the noise level required

At the pumping station, Stigsborg Bygade, in Nørresundby, Northern Jutland, DK four new DESMI centrifugal pumps are installed to supply district heating for a part of this area (7-8,000 residents).

On the basis of the different parameters, DESMI was selected due to the Total Cost of Ownership. "The efficiency of the pumps is high, as well as the performance is really good," says Thomas Andreasen.

The pumps are perfect for the low temperatures at which this district heating pumping station is operating. The circulation of the 60°C hot water is ensured by these pumps, which is low temperature level within the district heating business, and, which, among other things, is achieved by recirculating the return flow of cold water within the system.

www.desmi.com

Ecological cleaning brand wins Queen's Award

Professional ecological cleaning specialist Delphis Eco has been awarded The Queen's Award for Enterprise for Sustainable Development.



Her Majesty The Queen personally approves the winners, recognising and celebrating the ecological cleaning excellence Delphis Eco has achieved over the last ten years.

The perfect green alternative to cleaning, Delphis Eco is formulated to be kind to the environment without compromising on quality. It is loved by professionals and approved by the planet – known for its unparalleled performance by the heroes that put them to the test every day! Derived with renewable plant-based ingredients, Delphis Eco is the ultimate eco-friendly range that's biodegradable, toxin-free, vegan, has never been tested on animals and a certified B Corp. This means, when cleaning it's safe for the user, the people and the environment.

Not only that but Delphis Eco is packaged in 100% post-consumer recycled (PCR) and recyclable plastic from the nation's old milk bottles meaning by using Delphis Eco products, your purchase will be contributing to a circular economy, reducing Britain's carbon footprint, and taking plastic waste out of the landfill and the ocean – a win-win!

Today, the brand boasts the largest range of EU Ecolabel products providing over 100 professional products for palaces, hotels, and restaurants. A new refillable range will be available soon for use throughout the entire home. Products include surface sanitisers and cleaners, as well as bathroom, kitchen and floor products.

Find Delphis Eco products in Waitrose, Ocado, Robert Dyas or Amazon, or visit: www.delphiseco.com to purchase directly.

Pfeiffer Vacuum introduces new multi-stage Roots pumps ACP 90

- ▼ Oil- and particle-free applications
- ▼ Resistant to applications with light corrosive gases
- ▼ Large pumping of condensable gases

Pfeiffer Vacuum, one of the world's leading suppliers of vacuum technology, introduces new multi-stage Roots pumps ACP 90, which are designed for oil- and particle free applications in the pressure range between atmosphere up to 3×10^{-2} hPa. These vacuum pumps meet the requirements where clean and dry vacuum is needed like drying, sterilisation, coating as well as semiconductor and R&D applications.

With their unique design, these pumps are robust and can withstand frequent pump downs. Highly valuable materials render the pumps more resistant to light corrosive gases. ACP 90 is ideal when pumping large amount of condensable gases like in drying applications, high humidity environments or large insulating volume pumping.

As Jean-Philippe Briton, Product Manager at Pfeiffer Vacuum, explains, "We are particularly proud of the built-in intelligence that allows for high pumping speed at high pressure, which is important when pumping large volumes. With a very low power consumption of 2kw



at atmospheric pressure the ACP 90 is also an energy efficient solution for this type of use." In addition, the pump also fulfills CE and UL/CSA standards.

Find more information about ACP 90 here: <https://t1p.de/pfeiffer-vacuum-ACP90-en>

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

VENT-LESS²

Using automated technology to reduce and measure breather vent emissions for

ESG Reporting

info@assentech.co.uk

(+44) 01726 844707

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 NOX 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. Additionally, all nCLD-models are capable of a remote power down/up including a failsafe feature. nCLD AL2 and EL2 are TÜV approved, qualified according to ISO EN 14211 and 15267 1-3.

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

Snickers Workwear trousers: More than fit for purpose

Six Work Trousers families to satisfy every need on site – sustainably

Snickers Workwear's trouser families are suited to any kind of work on site. Delivering maximum functionality, comfort, protection and mobility, they're the products of choice among discerning professional tradesmen and women. For them, sustainable, street-smart, body-mapping clothing are key parts of their product choices.

Hi-tech fabrics, functionality and fit are the hallmarks of these market-leading products. The AllroundWork trousers are ready for any kind of work in any trade. FlexiWork trousers deliver superior freedom of movement. While LiteWork trousers keep you cool, dry and ventilated.



Then there's RuffWork trousers, reinforced and tough for the roughest work on site. ProtecWork protective wear for

hazardous environments and certified High-Vis trousers when personal visibility on site is a priority.

Snickers Workwear Trousers also deliver certified protection with the patented KneeGuard System for greater flexibility, comfort and durability. It's what makes them the optimal choice for craftsmen and women who need to get every job done comfortably and sustainably on site.

Getting information on the Snickers Workwear trouser families is easy. You can call the Snickers Helpline on 01484 854788, check out the website at: www.snickersworkwear.co.uk or email: sales@hultaforsgroup.co.uk

Say goodbye to leaky wastes with the Epson Basin Mate!

Epson, who are part of TYDE, are proud to announce the launch of their all-new Leak-Free basin waste seal kit called the Basin Mate.



Installing basin wastes has never been so easy! All of Epson's basin wastes now come complete with the LEAK-FREE basin mate seal kit. The Basin Mate Seal Kit is manufactured from high quality materials and includes a sealing ring, washer and seating – everything you need for a quick and easy installation. The Basin Mate is also available on its own as a perfect solution for a leaking waste that is already in place.

With the Epson Basin Mate there is no need for paint, putty or mastic!

Epson have been manufacturing high quality sanitaryware spares since 1961 and are committed to supplying market leading products to the plumbing industry. As a UK manufacturer they have complete control from design through to production and are always focused on offering the best customer service to their customers. The Epson range of wastes is comprehensive and offers the best choice when it comes to quality and style.

Paul Weddle, the Business Unit Director for TYDE, says, "The Basin Mate is a perfect solution to avoiding leaking wastes! During our product development process, we thought about ways in which we can make plumbing easier for our customers. Being easy and quick to fit, and supplied with everything you will need to make your wastes leak free, The Basin Mate meets that requirement."

EPSON is part of TYDE. A Thomas Dudley Business. You can visit the new TYDE website at: www.thomasdudley.co.uk/tyde

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

"Quite Simply... Labels"

E-mail us at: sales@datamarkuk.com

Call us on +44(0) 1482 506560 | 505101 to discuss your requirements or visit www.datamarkuk.com

PET recycling label innovation



CCL Label, the world's largest converter of pressure sensitive and extruded film materials for decorative, functional and information labels, has unveiled a new generation of their EcoStream® labels that support the recycling of PET bottles at a very high quality level. They are made from floating low-density polyolefin material that separates very easily from the heavier PET flakes in the sink/float process step at the sorter and recycler – which results in the yield of clean PET flakes that can be recycled back into new bottles, closing the loop.

"The official endorsement by both the European PET Bottle Platform (EPBP) and the Association of Plastic Recyclers (APR) in the United States underpins the performance of the label in the recycling process and the compatibility with existing recycling streams and technology," says Reinhard Streit, Vice President and Managing Director Food&Beverage Europe at CCL.

The EcoStream® SP (Shear Performance) clear and opaque white pressure sensitive label is a further development of the existing EcoStream version, that has been successfully supplied to the international beverage market for many years.

Freshly blown and immediately labelled bottles can induce folds or bubbles on regular labels. EcoStream® SP pressure sensitive labels are developed to keep perfect labelling through flexible properties in particular suitable on post-shrinking PET bottles.

All other valuable properties of basic EcoStream® labels are maintained unchanged and allow perfect and clean separation without contamination or discolouration neither of the washing bath nor PET-flakes.

For more information, contact us at: beverage@cclind.com

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 modular retractable barrier system launched by seton

A new retractable barrier system, named EasyExtend, has been launched into the market, offering unique features and benefits for use in industrial and outdoor spaces.

Developed by the health and safety solutions provider Seton, the new and rugged unit is designed to cordon off areas in warehouses, factories, distribution centres and construction sites.

It can span 10 metres – further than most other retractable barriers on the market – meaning a more efficient use of resources. It can be used with standard traffic cones, with its dedicated post and base system, or can be fixed directly onto walls or other surfaces.

The EasyExtend also uniquely stores all the components of the barrier inside the base, making it ideal for rapid and easy setup in the event of a hazard, as well as being possible to store in stacks with little space.

The barrier can be used in three different ways. The modular post and base system gives the choice of using single or dual-level tapes, allowing the user to create a more imposing boundary if they choose to.



Once erected, the base portion features an integrated weight for stability. For extra sturdiness in harsh weather or on uneven surfaces, the user can then fill the base with an extra 12 litres of water or sand.

An adapter can also fix the tape cassette, or clip tape ends, to the top of any standard traffic cone. This lets cones be used in place of posts, if needed, such as around large vehicles.

The same barrier can cordon between fixed objects or walls, rather than needing the posts. Special EasyExtend brackets hold the tape cassette, while a separate receiver clip holds the tape end. Both can be fixed

permanently or magnetically to walls, racking, store checkouts or even vans.

The design means a single barrier set can create cordons in different locations, without businesses needing to buy several versions of the same product. The EasyExtend is available with tapes in two colour sets – red and white or black and yellow.

Alex Hinton, product innovation manager at Seton, said, "We've created a strong and durable barrier that gets around the problem of many facilities needing to buy several versions of the same product.

"The market-leading 10 metre length and unique modular design of EasyExtend means that, as well as being quick and easy to transport and store, it can be used in a wide variety of settings. From tape combinations to traffic cones and walls, its versatility will be extremely useful for businesses.

"The fact that the barrier posts dismantle and fit easily into the base units, which isn't possible with any other product on the market, means that they can be stacked and stored on shelves or neatly in the back of a van.



"It also means that they are much faster and safer to take to a location to cordon off a particular area, which could make all the difference when dealing with a sudden or temporary hazard.

"Retractable barriers must be as easy to use as possible, to make sure that staff are happy to use them whenever they may be needed. This is an ethos that we continue to develop our barriers around."

For more about the Seton EasyExtend retractable barrier, visit: www.seton.co.uk/easyextend

The Supply Chain & Logistics Expo Review – Top Exhibitors

The Supply Chain & Logistics Expo

The Supply Chain & Logistics Expo took place at the Arena MK, Milton Keynes on 10 March 2022.

Over 1,000 senior supply chain & logistics management figures – from key sectors such as logistics, manufacturing, food, transport, health, tech, construction and retail – gathered at this event to keep up-to-date with the latest innovations, best practice and new technology solutions.

Visitors were able to understand the exponential growth in technology to re-imagine interactions with customers and consumers, improve processes in their stores and their business, and optimise their supply chain from product development to post-sale customer service.

Key topics included: Brexit, Blockchain, Demand planning, Software and IT, Business Intelligence and Analytics, Sales and Operations Planning, Warehouse Management, Sustainability, Procurement, Inventory planning, Freight Forwarding, Forecasting and Demand Planning, Cold Chain, RFID, Supply Chain Optimisation, E-Procurement, Sustainable Procurement, Internet of Things & Quality Management.



The Supply Chain & Logistics Expo 2023 will return to the Arena MK, Milton Keynes on 23 April 2023 and will be run in conjunction with the UK Manufacturing & Supply Chain Conference & Exhibition. Over 200 exhibitors, 200 speakers and 3,000 plus visitors will make it the most attend industry event of the year. This is our pick of the best exhibitors from this year's show, listed here in alphabetical order: European Springs & Pressings Ltd, FLAGS Software & Waizu. Further details can be found on this page.

www.supplychainandlogisticsexpo.com

European Springs & Pressings Ltd

European Springs & Pressings Ltd are leading experts in spring manufacturing and high speed press technology, providing a full design and manufacturing service for bespoke and standard pressings, wireforms, coil and gas springs.

Established in 1948, with three UK manufacturing sites, a standard product range of 12,000+ items and a dynamic balance of cutting-edge facilities, experienced engineers and thoughtful customer service, we are one of Europe's leading spring and stamped component suppliers.

We understand that no two jobs are the same; similar products often require the use of different materials, treatments, variable tolerances or specific heat resistance. This is why European Springs & Pressings invests in the latest technology and qualified toolmakers to ensure that we design and produce the very best bespoke stampings, springs and wire forms.

A custom-tailored manufacturing process and in-house design service – with CAD/CAM software and systems – means we can help clients realise a range of prototype ideas, individually cut using precision lasers for R&D testing or put into full production. Our fully-equipped tool room can design and build any production tooling needed, assuring



competitive pricing, consistent quality & dependable supply.

Our products are used in major industrial environments all over the world, so whether a client needs a conventional compression, tension, die, disc or torsion spring, or wants the most obscure spring clip or wire form imaginable, we are able to produce exactly what they are looking for.

T +44 (0)208 663 1800
info.bec@europeansprings.com
www.europeansprings.com



FLAGS Software

Established in back in 1989, FLAGS Software revolutionised the quality inspection process on a Jaguar production line. 30 years on, FLAGS Software is still developing quality management software that's helping leading manufacturers such as Aston Martin, Jaguar Land Rover, Princess Yachts, Brit-Tipp and Bentley streamline their quality inspection processes – improving production output, enhancing efficiency and giving integrated visibility across several operations.

FLAGS can check any production operation to ensure it is done to sufficient quality. We provide a smart quality control system within a smart factory. FLAGS integrates with other software to create efficient, user-friendly quality inspection, meaning issues can be tackled at up to a tenth of

the time it takes using traditional methods.

While FLAGS Software is based on people using touchscreens, 5G and augmented reality will offer huge opportunities in the future. Integrating FLAGS into wearable devices that can be accessed by voice command means managers and employees can work hands-free and inspect parts much more efficiently.

This commitment to technical innovation and helping manufacturing become more digitised led to the business winning the Digital Engineering/Technology Award at Insider's Made in the Midlands Awards 2021. A great achievement!

Be smart, adopt Industry 4.0 practices and visit: www.flagssoftware.com

MADE IN THE MIDLANDS
WINNER 2021
Winners of the Digital Engineering & Technology Award 2021

FLAGS SOFTWARE

Quality Inspection Software that drives improvements in Quality, Efficiency and Cost

- Reducing Rework
- Reducing Waste
- Reducing Manufacturing Costs
- Improving process control

+44 (0)121 746 5270 | www.flagssoftware.com

Reduce operational downtime with wiser device management from Waizu

Waizu, the UK's leading mobile device analytics platform, is committed to helping retail and supply chain businesses improve productivity and maximise efficiency through better mobile device management with the launch of its new Virtual Smart Cabinet dashboard.

Mobile devices are essential to the smooth operation of any business, especially within the retail and supply chain sectors. However, manually issuing shared devices, tracking device status and ensuring all devices get returned at the end of a shift can be an incredibly time-consuming task.

Understanding the importance of effective management of mobile devices, Waizu is helping businesses transform their operations, and its Virtual Smart Cabinet is the latest feature to join its ground-breaking platform.

The new feature allows operations teams to see user insights in real-time, ensuring they can easily see who has which device, how it is being used, and whether it has been returned at the end of the day. If not returned, its location will be shown on the Device Finder tool, while any devices missing can be immediately located and those devices that are returned will be automatically logged out.



For more information on the benefits of implementing Waizu, visit: www.getwaizu.com

To get in touch or book a free demo:
T 0333 5770 512
sales@getwaizu.com
www.getwaizu.com

Commitment, integrity, reliability and teamwork are at the heart of logistics company's culture



In this issue of Industry Update, we have selected Worldwide Logistics Group UK as our Logistics Service Provider Company of the Year.

Founded in 1998, Worldwide Logistics Co. is a US-based third party logistics service provider, and due to its success, the company has been able to develop several other sites across the world.

In 2018, the Worldwide Logistics Group opened its London office to enhance its logistics services across Europe where it specialises in E-commerce, warehousing and fulfilment. With the robust services of the US parent company, the office offers full service, end-to-end logistics solutions for major industries in Europe and around the globe.

Glenn Hayes joined together with Worldwide Logistics Group to head up its UK offices as the Managing Director. Headquartered in Dagenham, the other UK offices are based in Birmingham, Billingham, London, and Scunthorpe. WWL Group UK started off with a bigger mission in mind which was to service customers who were active in doing reworks and remedial.

"It was about adding value to the supply chain, and making sure waste wasn't ending up in landfill. There is a huge amount of waste in the logistics industry, and intrinsically because of the growth of E-commerce, its only getting worse. So effectively, we set up UK WWL Ltd in 2018 to service this need and since then we have grown dramatically. We now do huge amounts of 3PL and freight forwarding, so our mission statement has slightly changed from where we started to where we are now, but it still formulates a large part of what we do," said Glenn.

Worldwide Logistics Group UK is the fastest growing third-party logistics (3PL) service provider in London. While the market has been challenging, especially over the past year, the company has been very successful in navigating its way through it. Technology is the driving force behind countless industries and logistics is no different. Moreover, the company uses its own in-house developed Boom service, which allows consumers to easily book returns while allowing sellers to control returns costs and track quality.

As specialists in logistics and 3PL, the biggest competitive advantage Worldwide Logistics Group UK offer is its ability to be able to integrate with many different sales platforms. "We can seamlessly integrate various services and features into our customers' websites and still be big enough to be able to scale their business. We have found ourselves in a small niche where we can help many clients on the fact that we buffer a return to remedial service and offer a full scope of services across UK and Europe," explained Glenn.



Summer 2021 was a record period for the business which saw it expand its foot holding and add new warehouses to the portfolio. While 2022 has been slightly behind forecast due to factors including inflation and lower demand, this is typical of the E-commerce at present. Despite this, the company's agility has allowed it to adapt and create a fully functioning remedial, returns, and reworks centre in the Midlands, where it has opened a Brexit focused road freight team in Birmingham, and opened a warehouse in East Midlands.

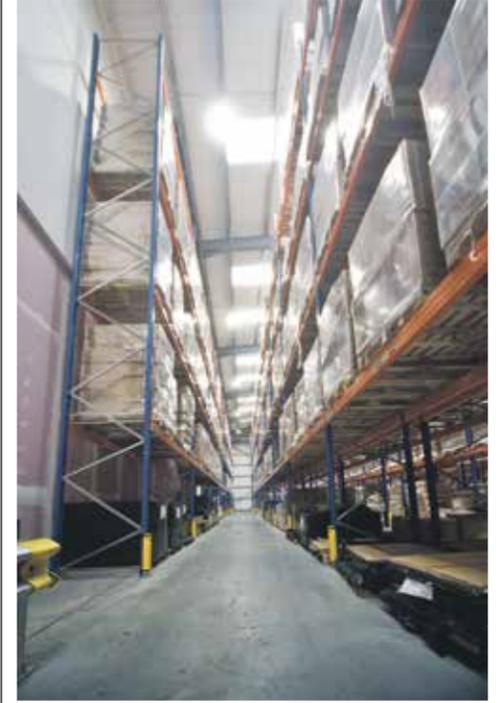
Worldwide Logistics Group UK has also opened a site in Myslowice, Poland, which boasts 125,000ft², and includes 10 dock doors, a large yard, 6T floor loading, and a 24/7 365 operation. The warehouse will be used for rework and remedial services such as refurbishment, relabelling, repacking, reprocessing, spare parts management and more. Its warehousing activities include Amazon fulfilment and drip feeding, and its pick



pack and dispatch services include seller fulfilled prime, fulfilment by merchant, double scan verification on every order, and integration with E-commerce platform.

Worldwide Logistics Group UK has empowered its clients by rapidly deploying services to take them from bricks and mortar stores only, to the fully integrated online pick pack and delivery stores, with late cut-offs and next-day delivery across multiple sectors. The company is one of very few 3PLs that offer a returns and remedial service not only in the UK, but across the EU.

As Worldwide Logistics Group UK look to the future, the aim of the company is to consolidate its position in the logistics market. In 2023 it will then look to expand in the UK and Europe once again to offer clients more solutions. Worldwide Logistics Group UK is also keen to expand by taking on new sites in India and Africa while increasing its customer base.



Worldwide Logistics Group UK has been able to grow exponentially because it is a network of highly skilled logistics experts who are leaders in the industry, and also because of its commitment to customer service. The combination of its excellent customer service, superior knowledge of global logistics and supply chain management, and transparent communication would not work without the inherent dedication of the company staff. Worldwide Logistics Group UK runs a disciplined business that manages to a set of core values – commitment, integrity, reliability and teamwork.

Glenn commented, "The future is bright for both our company, and the logistics sector as a whole, and we are constantly striving to enhance our service offerings. It is an honour to be recognised for this award but the team at Worldwide Logistics Group UK are amazing and deserve all the success which is based on all their hard work and dedication."

T +44 (0)20 3900 2474
uksales@wwllmail.com
www.worldwidelogisticsltd.com



Rising fuel crisis could spark flame for electric utility vehicle demand

Soaring fuel prices which have rippled through the UK in recent months has resulted in a significant blow to businesses and organisations throughout the nation.

With prices reaching record breaking levels, the need to source alternative, cheaper options has been a high priority for those with a requirement for utility vehicles to support their operations according to Bradshaw Electric Vehicles – who say they have been inundated with enquiries from businesses & organisations searching for alternatives to traditionally powered vehicles that won't burn a significant hole in their pockets.

As of the end of May, petrol was 173.2p per litre, with diesel priced at 183.1p per litre – a steep rise when in the past six months alone prices for both have soared by 19% and 21% respectively, with concerns that this trend is not set to slow down over the coming months.

This is a staggering hike when compared to the price of charging an electric vehicle – making the cost of charging one of Bradshaw's Goupil electric vehicles, which cater for last mile distribution, waste management and local authority requirements, significantly cheaper over the long term than running a traditionally powered utility vehicle.

With the average cost of filling up a standard vehicle last week exceeding £100 for the first time ever, the upward inflationary pressure placed on fleet operators is becoming unsustainable.

According to Ramsy Labassi, Marketing Manager at Bradshaw, the business, which has been the UK's leading supplier of industrial electric vehicles since 1976, believes that rising oil prices will only serve to accelerate the shift to electric utility vehicles as the running costs of traditionally powered vehicles is quickly becoming wholly unsustainable – something that has been regularly reiterated in recent enquiries, especially by SMEs.

Ramsy said, "Demand for electric vehicles has been steadily climbing, even before petrol and diesel prices begun to skyrocket. The race to net-zero, more LEZs being introduced in towns and cities as well as the petrol and diesel sale ban already got the ball rolling with regards to electric vehicle uptake.

"With the added expenditure of rising fuel costs, which may not subside for some time, the move to electric not only provides potential users with the prospect of improving their environmental footprint, but in turn lowering their vehicle operating costs as well.

"The most commonly cited factors behind holding back on electric include perceived lack of range, the lack of readily available charging points and cost, however with fuel costs rising considerably, the perks of making the transition from traditionally powered utility vehicles to electric far outweigh the purported downsides.

"Despite the current rise in electricity costs, recharging an electric utility vehicle still

remains more cost-effective than fuelling its petrol or diesel counterpart, offering significant savings for utility vehicle operators over the long term.

"The cheaper price of running electric vehicles

may therefore encourage more businesses and organisations to make the switch sooner than originally planned – which is a significant positive as it will simultaneously contribute to cutting emissions and bring the country closer to achieving its net zero target by 2050."



Contact
T 01780 782621
sales@bradshawev.com
www.bradshawev.com



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

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

WORKWEAR RENTAL TAILORED FOR THE INDUSTRIAL MANUFACTURING SECTOR

CLEAN
 LINEN & WORKWEAR



Serving England and Wales, **CLEAN** can take care of your protective workwear, providing your employees with smart, freshly laundered garments on a regular schedule. **CLEAN** can also provide on-site garment lockers, floor protection mats, washroom supplies, and more so manufacturing businesses are able to stay focused on what matters most – producing great products for their customers.

CLEAN are all about great service and tailored solutions, provided by real people; that's why they are one of the UK's most trusted laundry companies.

Additional Services



Logos and Embroidering

Customise garments with heat sealed or embroidered logos, slogans, job titles or individual names.



Locker Valet Service

We will deliver your laundered garments directly to each wearer's personalised locker.



Floor Protection Mats

Keep your work environment dirt free, clean, and safe with our mats that can be customised with your design or logo.

YOUR CONTACT
Marta Suska
 Sales Consultant

07787 280043
 marta.suska@cleanservices.co.uk
 01276 983268

cleanservices.co.uk/industry

Handling & Storage 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 0330 332 6312

PPMA Total Show 2022 set to provide a platform for innovation

PPMA TOTAL Show 2022, the UK's largest processing and packaging machinery, robotics and industrial vision event, is returning to the NEC Birmingham this autumn, and will take place from 27 to 29 September. The three day event will provide a platform for innovation and live demonstrations of production machinery, act as a central hub for networking, expert knowledge and information share as well as present a rich showground of discovery for visitors seeking new solutions to enhance business performance.

Comprising over 350 exhibitor stands, representing 2,000 brands and

incorporating major exhibition brands Pakex and Interphex, visitors to Hall 5 will have unparalleled access to the most comprehensive collection of industry-leading production machinery and smart manufacturing equipment all under one roof.

Showcasing the very latest in production-efficient technology, robotic and vision systems combined with state-of-the-art materials, containers and packaging design, the event caters for visitors from a wide range of sectors, including food and beverage, pharmaceutical, toiletries, building supplies, pet care, FMCG and contract packing.

PPMA Total Show 2022 will also play host to the PPMA Group Awards.

Celebrating the best in machinery innovation, smart manufacturing and business acumen, the awards will be presented to winning and highly recommended companies during the final day of the show.

PPMA Total Show 2022 is free to attend and visitor registration is now open. To pre-register your interest and receive your FREE visitor entry pass, go to: www.ppmashow.co.uk or visit: www.ppma.co.uk for more information.



Service & Calibration Solutions

SCS (UK) Ltd are looking forward to exhibiting at the 2022 PPMA Total Show from 27th to 29th September.

We will be exhibiting the C80 Combo Unit which integrates the Teltek C80 Checkweigher with the highly renowned Cassel Multi-Frequency Metal Detector for even those difficult products or metalised film packs. High precision meets high speed – this is the perfect solution for your inspection needs. The unit is designed and manufactured to the highest engineering standard with reliability and longevity for use in tough hostile environments. A range of belt sizes and reject devices are available to suit customer's specific needs.

You can also view an X-ray machine. Undesired foreign bodies in food, pharmaceutical or other non-food products represent a big problem. Many foreign bodies cannot be detected with a simple metal detector. Because of this Cassel offers X-ray inspection systems as the perfect solution. This way Cassel preserves your product quality and provides reliable protection of your brand. All Metals can be easily detected, Teflon, Stone, Wires down to 1.2mm.

Why not visit us on **Stand A20** where our team will be happy to discuss your specific needs and provide information on our full



range of products and services.

Contact
T 0161 222 6361
sales@scsuktd.com
<https://scsuktd.com>

Marking 25 years of excellence

For a quarter of a century, Rotech have been providing innovative coding and marking solutions to manufacturers and producers within the packaging industry, not just in the UK but worldwide.

As part of our birthday celebrations, we will be exhibiting at this year's PPMA Show with a new approach to showcasing both our range of feeding systems and printers, as well as a fresh look and feel to the stand.

On-line, off-line, every time

Part of what makes Rotech unique in the coding and marking arena is our ability to cater to both on-line and off-line applications, for both start-ups and international brands. Our combined 156 years of industry knowledge allows us to fully address the customers unique pain points and present them with a cost-effective solution that fits their exact needs.

Our **Stand A31** will be split into two, with one side highlighting our British-made feeding systems, designed for handling and coding a range of packaging in its flat form, and the other presenting our range of compact printing technologies, ideal for easy integration into existing lines, with minimal disruption.



Both our on-line and off-line equipment consistently produce an excellent end product – a perfectly printed date code, batch number, QR code or even full product information – plenty of live samples will be available to view at the stand. We hope to see you there.

For any further information on Rotech, or any one of our solutions, visit our website at: www.rotechmachines.com

Complete Leasing Solutions

Supporting UK business for over 15 years, Complete Leasing provides flexible & tailored finance solutions. Our dedicated team has a wealth of industry experience and will ensure a seamless, efficient experience.

Complete's comprehensive network of Funding Partners and Own Book resources includes Finance Lease, Hire Purchase, Business Loans and Cash Flow Injection Solutions. Available to all companies, from infant businesses right through to international corporations.

Finding the perfect relationship is essential to your business. As a service driven organisation, our



success is measured by delivering the peak outcome for you and all of our customers.

With the ever-fluctuating economy our funders' lending appetite remains healthy. Many businesses investing in new equipment will benefit from the Chancellor's 130% Super Tax Deduction.

Our customers choose a complete finance solution for the benefits to their businesses:

- ▶ Finance Lease payments are 100% allowable against Pre Tax Profits.
- ▶ Hire Purchase agreements benefit from 130% Super Tax Deduction... until the end of March 2023.
- ▶ Valuable cash remains in the business for future growth.
- ▶ Flexible underwriting.
- ▶ No upper lending limit.
- ▶ Flexible terms from 12 to 60 months.

Find us on Stand K19.
Contact: Sarah Milnes
M 07803 328113
sm@completeleasing.co.uk

All-Fill International Ltd

All-Fill International Ltd is a world leading supplier of auger based powder and granule filling machines for food, pharmaceutical and chemical/agrochemical sectors. Its manufacturing operations have embraced the latest technologies and are ISO9001 accredited for design, manufacture and after-sales support.

The company has been established for nearly 40 years and is one of the largest producers of auger-based filling equipment in the World. The extensive range of its products can be seen on its website at: www.allfill.co.uk

Good design, quality components, precision engineering and years of experience are the hallmarks of a good product. This winning combination gives All-Fill its technical edge, confirmed by a formidable growing list of 'blue chip' customers. Its wealth of experience and commitment to innovative engineering and quality make All-Fill the definitive source for powder or granule filling solutions.

In addition to its range of auger-based filling machinery, All-Fill is able to offer turnkey packaging line solutions.



At PPMA 2022 on **Stand A36**, All-Fill International will be demonstrating its Series 10 Volumetric semi-automatic filler, able to dose an extremely wide range of products and fill weights, from 1gm up to 25kg; alongside will be its Series 1 Micro filler, filling from 10mg very accurately via fully integrated high precision balance.

T +44 (0)1767 691100
info@allfill.co.uk
www.allfill.co.uk

All the tools you need at one place to automate more

The OnRobot product range features a wide assortment of tools and software for collaborative applications including electric, vacuum and magnetic grippers, the award-winning Gecko gripping technology, force/torque sensors, a 2.5D vision system, screwdriver, sander kits and tool changers.



Supported by the free, Learn OnRobot e-learning platform, OnRobot makes it easy to deploy collaborative automation on tasks such as packaging, quality control, materials handling, machine tending, assembly, and surface finishing regardless of skill level or previous robotics experience. Perfect for small and mid-sized manufacturers who are looking to optimise their processes and grow their business, OnRobot's solutions have been tried and tested in the industry for over a decade.

OnRobot is pleased to announce it will be exhibiting at this years PPMA Total Show 2022 at the NEC, Birmingham on 27-29 September. You will find OnRobot at **Stand B110** where it will be showcasing all its latest Processing Equipment including sorting equipment, vacuum equipment & components, and processing IT systems. Visitors can also find out more on the company's Packaging Machinery including Unscrambling machines, vacuum packaging machines, pallet lifters, pallet stacking machines, palletising machines, pick and place machines, and end of line bagging systems.

T +45 53 53 57 37
info@onrobot.com
www.onrobot.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

integratedAIR

integratedAIR is showcasing its new range of BlueClean® stand-alone filter units and full turnkey solutions offered by its Filtration division. integratedAIR Filtration's experience in both the design and manufacture of dust extraction filter units and systems means that your solution will exceed legislative standards and provide you with a bespoke system that optimises your dust control requirements. The company prides itself on its customer-focused approach and works closely with clients to deliver the most efficient BlueClean® filter unit that matches the LEV requirement.

It is perfectly positioned to serve the LEV needs of the UK and worldwide, backed up by its proactive service department. integratedAIR offers total peace of mind, including carrying out LEV COSHH testing in line with HSG 258 and offering spares and servicing for its own as well as other branded dust extraction filter units.

Since 2002, integratedAIR Systems has been delivering high-quality air conveyance systems to manufacturing industries worldwide. Continuing success has enabled



it to expand to four sites in the UK with the recent development of a Filtration and Services division. Make integratedAIR Systems your dust extraction partner and it will do the rest. Visit **Stand H44** to find out more!

Find us at PPMA on **Stand H44**.
T 0161 488 4992
sales@integratedair.co.uk
www.integratedairfiltration.co.uk

Bespoke materials handling solutions

CJ Waterhouse Company Ltd provides the design, manufacture and installation of a variety of bespoke materials handling solutions including: material storage & discharge, automated weighing, material elevation & dosing, pneumatic and mechanical conveying, screening & separation, packing & palletisation and automation/process control solutions.

Our equipment ranges from individual standalone machines to full turn-key installations incorporating mechanical, electrical and software solutions.

We have extensive experience working with a wide variety of raw materials from fine powders & pellets to viscous oils and supply to numerous manufacturing industries such as:

- ▼ Food & Beverage
- ▼ Chemicals
- ▼ Pet/Animal Feeds
- ▼ Aggregates
- ▼ Rubber & Plastics
- ▼ Recycling & Waste

We are exhibiting at this year's PPMA Total Show where we shall be unveiling our Smart Cart AGV System, the automated guided vehicle micro ingredient batch weighing and bagging solution.



We are also delighted to announce that one of our partner companies, Cidiesse, will be joining us on the stand to demonstrate its range of swing bin bucket elevators.

Should you have any current project requirements or simply wish to discuss what we can offer in the future, please pay us a visit on **Stand E42** or call 01636 610792 or email: sales@cjwaterhouse.co.uk or visit our website at: www.cjwaterhouse.co.uk

Industrial and clean area lifting and handling solutions from Palamatic

Palamatic boasts over 35 years of experience in materials and powder handling, placing it at the cutting edge of lifting and handling solutions for all manufacturing industries.

As a leading expert in handling solutions, Palamatic offers an extensive range of equipment, which includes vacuum tube lifting systems, support gantries, automatic sack opening machinery and bespoke handling solutions for the pharmaceutical and healthcare industries. In addition to this, Palamatic also keeps spare parts in stock for standard systems.

This excellent product range is supported by an exceptional end to end service, from sales enquiry through to after sales services. Highly experienced staff are available to offer help and advice at all stages of the process, and Palamatic can assist with parts, servicing and annual certification requirements to ensure customers' equipment provides many years of active service.

Find us on **Stand E22**.
T +44 (0)1246 452054
sales@palamatic.com
www.palamatic.com



Harford MES: Collect and turn data into actionable information

To help manufacturers eliminate risk, improve efficiency and reduce cost

Harford Control is a market-leading manufacturing execution system (MES) provider with over 45 years of experience in food and beverage, FMCG, cosmetics, and healthcare manufacturing.

The Harford system is built to scale across your entire factory, from goods-in to despatch. With Harford's MES solution, all production-related information is available within a single system. All collected data is analysed, prioritised & distributed to networked PCs, laptops, tablets and mobile phones, in real time, so your operators can make adjustments immediately.

As an end-to-end factory floor management system, Harford MES provides the options of:

- ▼ Weight Control (Average Quantity Law)
- ▼ Paperless Quality Control & Quality Assurance
- ▼ Line efficiency & OEE
- ▼ Automated coding & labelling compliance
- ▼ Wastage Control
- ▼ Live Reporting
- ▼ Vision Inspection
- ▼ Automated Short Interval Control
- ▼ Laboratory Analysis

All options can be modular or fully integrated.



We will showcase our leading edge developments and client stories at the PPMA Total show. Come to **Stand C82** to see how we help our clients to focus on continuous improvement and retain their competitive advantage.

Interested in what we can do to drive your manufacturing performance? Please send an email to: info@harfordcontrol.com or call +44 (0)1225 764461.



Quality Food Grade Materials Handling Equipment Designed For You

EQUIPMENT RANGE:

- Vacuum Tube Lifters
- Automatic Sack Opening Systems
- Mobile Lifting Trolleys
- Post Hoists
- Drum Tipplers
- Customised Solutions
- ATEX Solutions
- PalCare After Sales Service and Spare Parts Team

PRODUCTS HANDLED:

- Sacks
- Barrels
- Boxes
- Drums
- Reels
- Pallets
- Panels

sales@palamatic.com
www.palamatic.com

Penmann to showcase air handling expertise

Penmann Climatic Systems is a leading provider of bespoke air handling and cooling technology solutions. The company's clients are amongst the UK's most significant and well-respected national brands.

Penmann has 25 years' unique experience of Displacement Air Handling technology which is at least 5 times more effective than conventional mixing systems at removing and diluting potential internal contaminants in a production area, resulting in considerable benefits. The correct distribution of air also reduces energy and CO₂ usage, something that Food Producers are placing at the top of their 'shopping lists'. In addition, Penmann's technical excellence has saved costs for many



manufacturers by upgrading existing mixing systems to avoid hefty investment on new plant.

Food manufacturers who rely on rapid cooling solutions for palletised products will be able to view the viable alternative to blast chilling and see a live demonstration on stand. The Clauger Cooling Cell system forms a tight seal around product therefore ensuring all the air and energy goes directly into cooling product.

Talk to the Penmann team on **Stand F101**.
Contact: John Kirwin, Sales & Marketing Director, Penmann Climatic Systems
T 0113 202 7300
www.penmann.co.uk

Landfill Alternatives

Landfill Alternatives has over 20 years of experience in the waste management industry. During this time we have established ourselves as a leading supplier of Vertical & Horizontal Balers, Waste Compactors, and dry waste recycling equipment.

We specialise in designing bespoke solutions for a whole range of businesses. We've worked with corner shops through to large multinational retailers.

Our market leading machinery can process metal, cardboard, paper, foam, abattoir skins, film and rigid plastics, wood, and general waste.

We can tailor a waste handling system to



your specific and unique requirements. Our machinery is meticulously designed and engineered to be safe, easy to operate and

efficient to keep your business running smoothly. This enables your business to minimise waste sent to landfill and generate recycling rebates.

Systems can be stand-alone, or part of a large 'turnkey' system using conveyors, bin tipplers, and dust/extraction systems. Come and chat to us at the PPMA show at **Stand A93** to discover what equipment is right for your business, or check out our waste configurator at: www.landfillalternatives.co.uk

Contact
T 01295 816733
info@landfillalternatives.co.uk
www.landfillalternatives.co.uk

REM-B Hydraulics improves offshore wind turbine base quayside lifting safety with Enerpac XC Pump

Belgium based, REM-B Hydraulics has developed self-contained, remote-controlled hydraulics powerpacks for connecting and releasing 1,000 tonne, 85m high, offshore wind turbine bases during quayside lifting onto a pontoon, for leading international steel construction company, Smulders. Based on a cordless, Enerpac XC-Series hydraulic pump, the hydraulic shackle release powerpack is a safer alternative to dangling long lengths of hydraulic hoses connected to a quayside pump.

Lifting 85m high fabricated turbine bases from the quayside on to a barge for shipping offshore uses shackles to attach the turbine base to a three-point lifting frame and crane. Engaging and releasing the shackles is done using a double acting valve arrangement powered by quayside pump connected by long hoses. Smulders was looking for a simpler and safer method of engaging and releasing the shackles without the need for long hoses.



Attached to each leg of the lifting frame, the REM-B Hydraulics' system removes the requirement for long hoses by using a battery-powered, Enerpac XC pump to operate a bi-directional valve connected to a cylinder that moves the pin connecting the shackle. The entire system is contained in a compact metal case with an external aerial linking each unit to a wireless controller. For increased safety, the shackle pins are activated sequentially.



REM-B Hydraulics remote-controlled hydraulics powerpacks for lifting 1,000 tonne, 85m high, offshore wind turbine bases powerpacks on the three point lifting frame

The large ring crane can lift up to 3,200 tonnes. The completed Morey East jacket weighs up to 1,000 tonnes and is approximately 85 meters tall.



Weighing 9.9kg, the Enerpac XC-Series hydraulic pump is equipped with an efficient electric motor powered by an industrial grade 28-volt, Lithium-Ion battery, delivering exceptional speed and run time. It is an ideal pump solution for remote outdoor locations.



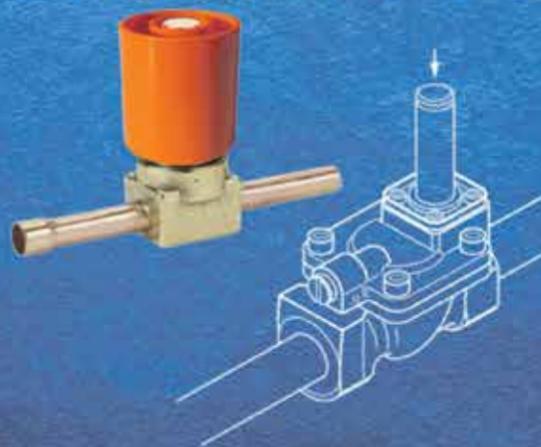
Detail showing the REM-B Hydraulics hydraulics powerpacks on the three point lifting frame

"The remote controlled powerpack is the ideal solution for lifting and positioning offshore structures, thanks to the power and portability of the Enerpac XC pump," says Sam Briels, Enerpac product specialist, REM-B Hydraulics. "It simplifies the use of hydraulic shackles by removing the need for long hoses as well as improving lift safety."

For more information on the Enerpac XC Pump, visit: www.enerpac.com
For more information on REM-B Hydraulics, visit: www.rem-b.com



www.fridgenius.co.uk



If you need to operate a solenoid valve manually, you need a Solenoid Valve Operating Magnet!

Solenoid Valve Operating Magnets

02380 323745

enquiries@fridgenius.co.uk

Leading the way in recyclable pump technology



In this issue of Industry Update, we have selected Quantex as our Pump Technology Company of the Month.

The first Quantex pump was invented by Quantex Founder, Dr Paul Pankhurst, to create a less expensive, more accurate alternative to a peristaltic pump. Several years of R&D and customer collaborations, led to the successful development of several off-the-shelf, recyclable pumps with varying flow-rate ranges. In June 2021, Quantex was acquired by PSG, an operating company of Dover Corporation and now sits alongside 13 other pump and flow measurement brands.

Quantex headquarters is located in Hammersmith, London, UK, with a dedicated manufacturing plant in High Wycombe. Through PSG's acquisition, Quantex is now a part of PSG Dover, providing Quantex with clean room manufacturing facilities in Duisburg, Germany, where Quantex is supported by fellow PSG pump brand; Quattroflow.

"Quantex is the leading provider of recyclable pump technology, where, instead of the pump being a part of the fixed equipment, it is attached directly to the

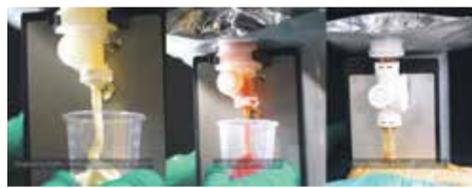


liquid packaging – similar to the way a tap is already connected to a bag in box of wine. But instead of pressing the tap and allowing liquid to dribble out using gravity, the pump is clipped into a motor drive in the fixed equipment, and the product is dispensed accurately, at a

range of precision flow rates suitable for all kinds of liquids. When the product supply is finished, you simply replace the bag and pump with a new bag and pump," stated Gillian Harding-Moore, Director – Marketing.

Quantex's system is extremely hygienic and requires no costly cleaning or maintenance. The Quantex pumps also maintain vacuum capability which equips them with the ability to handle high viscosities such as mayonnaise, hair conditioner, or glue, and can evacuate the bag by 98%.

"The pumps can also reverse cycle which is widely used for cleaning the nozzle at the end of each dispense by



sucking the product back into the pump. Another very exciting capability is its in-pump dilution option, where it can pump high-ratio concentrates, and accurately mix them with water at the point of dispense. This takes water out of the distribution channel, saving the customer both money and carbon emissions from shipping their products around the world," added Gillian.

With the drive to save single-use plastic waste, the wealth of benefits of using Quantex pumps has been recognised by UK and European supermarkets, who have been attempting to trial refill stations, where consumers bring their reusable bottles to refill in stores instead of using single use pre-packaged goods. Dispensing liquids has been proving to be too expensive and labour intensive for shop-floor staff.

"Quantex technology provides the key enabler for scaling up refill in supermarkets, with a low maintenance, low cost and flexible solution that can be standardised for dispensing virtually any fluid. Quantex is working



with several refill equipment manufacturers, who are designing their next generation of dispensers around the Quantex system." Gillian continued, "Several global brands and retailers are excited by the early prototypes that allows product replenishment to be 75% faster, with no cleaning or maintenance, and no drips that cause dangerous slip hazards in supermarket aisles. The aim is to provide a better refill experience for consumers and therefore, encourage more refill adoption. The first machines are planned to be in European supermarkets trials from October this year, with a roll-out scheme planned for 2023. It is an exciting market to be in, as it is just the beginning of a big change to the way we shop, and Quantex is sitting at the heart of the movement."



As the company looks ahead, in addition to Refill, Quantex is moving into the Biopharma market, and aligning with other Dover brands; Quattroflow®, em-tec, Malema®, and CPC®. Gillian added, "The alignment will strengthen our PSG offering, providing pumps, flow measurement solutions and connectors that serve cell and gene therapy and bioprocessing needs from early process development through to upstream and downstream applications."

T +44 (0)20 8735 5880
www.quantex-arc.com

High performance wrapping solutions



In this issue of Industry Update, we are pleased to announce Excelerate Ltd as our Packaging Supplier Company of the Month.



Founded in 2017 by Tina Kitchener and Andy Chinnery, Excelerate Ltd are specialists in high-performance, sustainable pallet wrapping solutions. Offering unrivalled industry knowledge, specialist film solutions,

innovative products and a team that is truly passionate about all things pallet wrap, the company serves a large customer base across the UK and the world.

"We supply both perforated (breathable) and solid stretch films. We work in close partnership with an array of industries to help them achieve great results with regards to cost, efficiency, plastic reduction and much more. As part of our service, we provide initial audits on end-of-line packaging which enables us to identify key areas for improvement," said Guy Kitchener, Sales & Marketing Manager.

Over the years, Excelerate Ltd has been developing its technologies and materials in order to be at the forefront of innovation for many industries including manufacturing, logistics, horticulture, and warehousing. "We virtually work with any company that despatches their products on pallets, or uses stretch films at any point throughout their operation," stated Guy.

In recent news, Guy explained one of the company's latest products that has just launched. "We recently launched a range of recycled perforated and solid stretch films, containing a genuine, traceable source of post-consumer plastic waste. This not only eliminates the new packaging taxation, but also contributes towards sustainability of operations. These films provide amazing performance compared to anything else currently on the market and can reduce plastic usage by

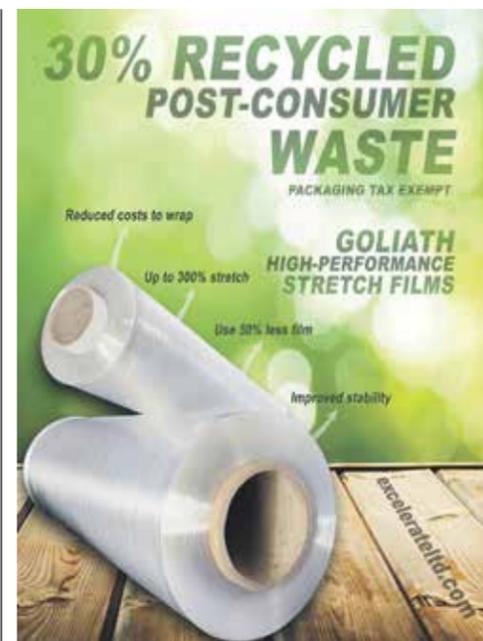


up to 70% while lowering costs to wrap by over 50%. Alongside this we have made improvements to its efficiency as perforated films allow goods to cool in half the time and dispel moisture in transit, meaning no condensation and zero damages to packaging."

As a response to the UK Government's Plastic Packaging Tax that came into effect April 1 2022, Excelerate Ltd has created a solution that is packaging tax exempt called Goliath PCW. Boasting a 300% stretch using 50% less film, Goliath PCW is their strongest, most sustainable stretch film to date. Marked as the simplest way to reduce your wrapping costs and plastic volumes, the product is also 100% recyclable and can form part of circular economies within a multitude of industries.



Available in hand, machine, standard, and power pre stretch, it is made with superlative materials designed to tackle any given task. With business thriving, we asked Guy how the company is accommodating such growth and what plans it had



for the future. He answered, "We are rapidly growing our employee headcount to deal with the extra demand for our specialist products, which will enable us to service more areas and industries. Short-term we plan to expand on our market-leading innovations and product range, however, long-term, we are potentially moving into new facilities, which will allow us to run training courses, in-depth wrapping demonstrations and much more from our headquarters."

If you're interested in learning more about Excelerate Ltd and Goliath PCW, see below.

T 01604 644100
info@exceleratelttd.com
www.exceleratelttd.com

Watlow signs agreement to acquire Eurotherm from Schneider Electric

Watlow, a designer and manufacturer of complete industrial electric heating systems, is pleased to announce that it has signed an agreement to acquire Eurotherm® from Schneider Electric, the global leader in the digital transformation of energy management and automation. The terms of the transaction were not disclosed.

Eurotherm is a premier global provider of temperature, power and process control, measurement and data management equipment, systems, software, and services for global industrial markets. The company's headquarters are in Worthing, UK, with core manufacturing operations in Łędziny, Poland, and a headcount of about 650 people worldwide.

"Watlow is excited to invest in this innovative product portfolio and professional team," said Rob Gilmore, Watlow's CEO (pictured). "Combining Eurotherm's complementary controls technologies with Watlow's focus on thermal systems, our shared engineer-to-engineer sales models and our focus on common markets, will allow Watlow and Eurotherm to better serve all of our respective customers. We are impressed with Eurotherm's heritage in the controls industry and strong reputation for innovation and quality, so we are



looking forward to welcoming the Eurotherm team to Watlow."

Gilmore continued, "Watlow is investing aggressively right now, including development of our operations in Europe and Asia to ensure we can support and respond to our customers wherever they need us. This acquisition will help us expand our presence in Europe and extend our electronics and controls capabilities globally."

www.watlow.com

Mitigating arc flash events in process heating applications

An arc flash is an electrical explosion that occurs when there is a short circuit in a system, which can be caused by a build-up of corrosion or conductive dust. If the voltage is high enough, and if there is a path to ground or a lower voltage, the resistance of the air is overcome and results in an arc.

There are three main strategies for minimising the effects of arc flashes, including increasing the distance from the potential source of an event, reducing the available fault current and decreasing the duration of the event. All strategies can be combined to ensure maximum safety, but this is not practical when considering overall project cost. That said, the duration of the event is the most viable influencer to reduce damage and has the largest impact on the total amount of energy released.

There are two key approaches to compare: arc-resistant cabinets and arc mitigation technologies. Arc-resistant cabinets aim to reduce exposure to arc events by encasing the system in a metal-clad cabinet with a venting system. The heated gas and pressure is redirected through a duct, reducing the energy that could potentially explode. However, a drawback lies in the fact that the cabinet must be closed for the arc-resistant cabinet to work, as many arc events occur during maintenance, when the doors are open.

Arc mitigation technologies also reduce damage to equipment, as it can function even when the doors are open and maintenance is being performed. For example, in the Watlow



POWERSAFE™ thermal system, sensors can be placed within the thermal controller, SCR node single contact or node, which are protected by a feeder. When the sensor senses an arc flash event in any compartment, the feeder shuts down the lineup to limit damage caused by the arc.

As medium voltage process heaters become more popular, they must be designed with safety in mind. Arc flash mitigation technologies represent the best approach here, as they decrease the duration of arc flash events and hence the energy released, helping to minimise the risk and damage involved.

www.watlow.com

TMR 12WI Series

Ultra compact 12 Watt DC/DC converters (SIP-8) for industrial applications

- ▼ Ultra compact 12 Watt converter in SIP-8 metal casing
- ▼ Highest power density of 4.73W/cm³
- ▼ Wide 4:1 input voltage ranges
- ▼ I/O-isolation 1,600 VDC
- ▼ High efficiency (up to 90%) for low thermal loss
- ▼ Operating temperature range -40°C to +85°C
- ▼ Fully regulated outputs
- ▼ Remote On/Off control
- ▼ Indefinite short circuit protection
- ▼ 3 year product warranty

The TMR 12WI series is a new family of isolated 12W DC/DC converter modules with regulated output, featuring wide 4:1 input voltage ranges. The product offers a very high power density of 4.73W/cm³ in an ultra-compact SIP-8 metal package occupying only 2.0cm² (0.3 square inch) of board space.

An excellent efficiency of up to 90% allows for an extended operating temperature range of -40° to +65°C without derating under natural convection conditions



(see recommended PCB layout). Further features include remote On/Off control, continuous short circuit protection and an I/O isolation voltage of 1,600 VDC. The very compact dimensions of these converters make them an ideal solution for many space critical applications in communication equipment, instrumentation and industrial electronics.

Contact: Florian Haas
T +41 43 311 45 11
F +41 43 311 45 45
f.haas@tracopower.com
www.tracopower.com

Heating equipment manufacturer celebrates 100 year anniversary

Industrial heating technology manufacturer Watlow, which specialises in electric components for complete thermal systems, has reached its 100 year anniversary milestone. The company, which was founded in 1922 in Missouri, USA, is now a global electric heating specialist with over 1,000 patents and 4,200 employees working across locations in North America, Asia and Europe.

Watlow began manufacturing electric heating elements for the shoe industry, before widening its product offering in the 1930s to introduce electric immersion heaters to replace steam pipes and fire-hazardous gas. Then, in the 1980s, Watlow expanded its global reach with the opening of sales offices in Italy, France, the UK and Taiwan.

Since its founding in 1922, the company has developed into a highly regarded industry heating technology manufacturer, holding more than 1,000 patents and employing over 4,000 people working in nine manufacturing facilities and five technology centres across three continents. Additionally, Watlow gains sales coverage in 178 countries.

The 2010s became the most productive and significant period of the company's journey so far. Within just eight years,



Watlow introduced ten new products including the FAT process controller with touch-screen technology, OPTIMAX® heat exchanger and the range of FLUENT® in-line heaters. Now, the company serves any application that may use industrial process heating such as semiconductor processing, energy generation and medical and food service equipment.

Contact
www.watlow.com

Quiet fans making noise in the industry

One of the common requirements for fans is low noise, selecting the correct bearing in the fan is key to minimising noise levels. The low cost choice is usually Sleeve bearing, which initially should offer low noise levels. However after some time of operation, due to the nature of the bearing, the fan will become gradually noisier.



At a higher price is Ball bearing, this bearing is preferred for high end applications requiring faster speeds (higher airflow), longer life expectancy and the freedom to mount in all orientations without the risk of premature failure. Ball bearing is however not renowned as the lowest noise option. If low noise is the target there are alternate bearings available.

One example is Sunon patented MagLev bearing, a near frictionless bearing system. One of the key features of this is the use of a magnetic plate to remove the contact between the impeller and the bearing wall. This versatile bearing offers life expectancy closer to a Ball bearing at a cost closer to Sleeve. If located in a harsh environment, then added levels of protection should be considered for the fans. These can start from simple IP21 to fully enclosed IP68 rated fans.

Sunon can also offer environment specific protection, such as GR47 Salt Fog for marine applications. If the correct level of protection is not considered, then the life expectancy of the fan will be compromised. If there is concern regarding fan failure, most are now available with additional wires for Tacho Feedback or Locked Rotor Detection which can alert to any issues.

www.gelec.co.uk

Tell me about JTAG/boundary-scan!

The advertisement features a central graphic with a blue background and a globe. At the top, it says "Tell me about JTAG/boundary-scan!". Below this, a horizontal flowchart shows the stages: Design & Development, Prototyping NPI, Testing (structural and functional), Production (Device Programming, System level testing), and Service & Repair. A central green box labeled "JTAG" is connected to these stages. Below the flowchart, there are images of various electronic components and test equipment. At the bottom, there are three icons labeled DESIGN, PRODUCTION, and SERVICE. A QR code is located in the bottom right corner, with the text "DOWNLOAD FREE WHITE PAPER" below it. The JTAG logo and website "www.jtag.com" are also present.

Spring manufacturers

In this issue of Industry Update, we are pleased to announce European Springs & Pressings Ltd as our Springs & Shock Absorbers Company of the Year.

"We are delighted to have been selected as the Industry Update Company of the Year for Springs and Shock Absorbers for 2022. At European Springs & Pressings Ltd we are proud of the way we work with our



**Stuart McSheehy,
Managing Director**

clients to provide bespoke parts and solutions for their manufacturing processes, and have enjoyed building our profile at exhibitions and across print and social media outlets. At European Springs & Pressings Ltd we understand that the needs of our clients vary from job to job, therefore we endeavour to work with them to overcome all their manufacturing challenges. No two jobs are the same; similar products often require the use of different materials, treatments, variable tolerances or specific heat resistance. This is why we invest in the latest technology, qualified toolmakers and engineers to ensure that we design and produce the very best bespoke stampings, springs and wire forms," stated Liam Bland, Marketing Manager.

European Springs & Pressings Ltd have the UK's widest range of springs including compressions springs, tension springs, torsion springs and gas springs. Manufacturing out of its dynamic spring facility based in London, the company supports a vast range of customers in the automotive, telecommunications, aerospace and defence, hydraulics, domestic appliances, nuclear, electrical switch gear, lighting and controls, scientific medical and pharmaceutical industries.



For over 70 years, European Springs & Pressings Ltd have been at the forefront of industrial machinery manufacturing. It is this experience that has ensured its market leading position, offering the highest quality springs, technologies, customer service and technical expertise.

After facing certain restrictions and difficulties during COVID-19, Liam explained how over the past 12 months



the company has begun to return back to normal. "Last summer we had just started getting back on the road again, as we were finally able to attend exhibitions and visit clients again. It felt great to finally be meeting our industry clients and colleagues again. Although we had adapted well during lockdown, adopting and adapting our work processes to maintain our business connections and continue to meet customer needs, it was brilliant to meet up and trade in person. UK manufacturing is going from strength to strength and we are very much benefitting from this when it comes to achieving budget. In business terms, the last 12 months have been healthy, as the industry has bounced back with force. Even with the ongoing issues involving material shortages and supply chains, there has been a noticeable hunger in manufacturing to reclaim lost ground and get manufacturing back on track."

As proud members of the Institute of Spring Technology and the Institute of Sheet Metal Engineering to which both support its registration with BSI to ISO9001, European Springs & Pressings Ltd is consistently developing new ways to innovate and adapt its product and service offering based on the needs of its customer and the demands of the industries to which it serves.

One noticeable service available is the company's ability to offer a custom-tailored manufacturing process and in-



house design service using CAD and CAM software and systems. Liam expanded, "This offering ensures that we can help our clients realise a range of prototype ideas, individually cut using precision lasers for R&D testing or put into full production. Our fully-equipped tool room can design and build any production tooling needed, assuring competitive pricing, consistent quality and dependable supply."

The company has a dedicated team of reliable engineers that work with you to ensure the right product is chosen at the most economic price. After initial



EUROPEAN SPRINGS & PRESSINGS

engagement, European Springs & Pressings Ltd will help design a product that is fit for function achieving all technical and quality requirements. These aspects also take into account the repeatability of manufacture including tolerances, the product life, the ease of production assembly and the most economic method of manufacture. "One thing we can offer our clients is the assurance that we understand their requirements and will deliver on our promises. Whereas stock suppliers and manufacturers with less capability might offer less than ideal options, or farm the order out to another company, our engineers work with the client to assess their needs and supply the solution that best suits them," said Liam.

Amid the ever-changing industrial industry, investing both in its machinery and its people has and always will continue to be at the forefront of the company's focus. Liam described some recent developments within the company, "Over the last year, we have bolstered our capability with the addition of a number of machines, including a Bruderer BSTA 410-110B2 high speed precision press which increases our production capability and a Bodor i5 laser cutter which has enabled us to improve on both our capability and capacity when laser cutting. We have also purchased a number of Wafios coilers and a further FMU 4 to strengthen our wire production."

Of course, what is a company without its employees and European Springs and Pressings Ltd believe its staff is its greatest resource which is why it is currently looking to add to its ever-growing base of customer service experts and experienced engineers. "Whether we are employing experienced engineers looking for a new challenge or offering eager apprentices and trainees the chance to start their careers in manufacturing, we see ourselves as a career for life employer and are proud to offer a lifetime home for many workers, or a first step into the industry for others," added Liam.



Delivering a high-quality and consistent service, European Springs & Pressings Ltd's products offer a solution that has been tried and tested for many years. However, there is still much more to come as Liam explained. "In the short to mid-term we are going to be investing a number of new Multislide machines to enhance our offering on the pressings/stampings side of the business. Ongoing from this, we will continue our investment policy in plant personnel and equipment. We are also engaged in a joint program with our sister group of companies in the UK to further extend our offering across heavy springs, gas springs and industrial furniture such as locks, latches, and slides."

Contact
T 0208 663 1800
info.bec@europeansprings.com
www.europeansprings.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

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.

UNISIG is exhibiting at the AMB show in Stuttgart, Germany, 13 - 17.09.2022, Hall 9, Stand C11.

Contact
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 was to





UNISIG

is the leading producer of gundrilling and BTA deep hole drilling machines

Our industry-leading customers around the world rely on UNISIG® deep hole drilling technologies for powerful, intuitive capabilities. We engineer our machines to handle a complete range of applications, and support them with our high level of expertise and service.

Standard Gundrilling Machines: Job Shops & Production Drilling



Production Deep Hole Drilling and Automation: Modular Machines for Production Drilling



UNISIG is exhibiting at the AMB show in Stuttgart, Germany, 13 - 17.09.2022, Hall 9, Stand C11. For more information, please visit our website: www.unisig.com

Machines • Tools • Automation

UNISIG machines, engineered and manufactured in the USA



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.

UNISIG is exhibiting at the AMB show in Stuttgart, Germany, 13 - 17.09.2022, Hall 9, Stand C11.

Contact
www.unisig.com



Our proven process: How UNISIG leverages experience & expertise to solve customer challenges



For over 40 years, we've helped our customers achieve success in deep hole drilling, providing them with the machines, automation and support they need to be competitive and profitable.

We have found that the initial energy we and our customers spend at the beginning of a quoting process pays off throughout the entire project, from inception to installation. We take a systemised approach not only during this critical phase but also throughout the entire sales process. This ensures there are no surprises and that our customers know exactly what they can expect when starting discussions with UNISIG about their gundrilling and deep hole drilling needs.

This is our approach at UNISIG:

1. We listen to our customers, ask questions and understand what they need. This may seem obvious, but often the temptation is there to just skip to a quote because we think we know what is needed after a brief discussion. Sometimes that is true, when the application is straightforward and familiar, or it is something we have a packaged solution for. We always try to make the quoting process quick and efficient, but there are times when the application deserves a more in-depth conversation. Our salespeople and engineers listen very carefully and often pick up on small details – a specific tolerance, material condition, process requirement or a future need for flexibility – that may change our recommendations.

When it makes sense, our experienced sales team or engineers will visit a customer to see what is needed firsthand. Whether a site visit or just a virtual

meeting, this initial investment of time to clarify the need saves the customer money and provides them a truly valuable solution.

2. We first identify a standard solution from our product line that can be applied at the lowest cost and shortest delivery possible.

At UNISIG, our product development mindset is to systemise solutions from our experience in many different industries, make them automation ready and embed application flexibility whenever possible. We invest millions of dollars annually in our product line and related spare parts, giving us a strong starting point for new applications. Our standard product line encompasses much more than machines, including standard automation, workholding, accessories and tooling that we can offer as part of the solution.

Once we have identified a standard machine as a starting point, our engineers seek out smart, practical ways to meet the customer's application needs. The goal is to innovate within the machining operation planning, work holding or automation, as opposed to engineering a completely special solution without first exhausting opportunities to solve problems with standard products.

For our customers, this approach provides them a reliable, standard machine that can be used for many years and that has the built-in flexibility for easy re-tooling to adapt to future needs. For us, initially working within the boundaries of our catalogue cultivates new ideas that can then be applied to improve our standard products as well as help us direct future research and development budgets.

3. If a standard solution isn't available, we consider a customised solution and we stand behind it.

UNISIG is very good at building customised machines, and we do so often. Once we and our customers agree that a special solution is needed, we move forward with a great deal of confidence and experience. We start by evaluating how we might approach the design using standard modules or proven concepts, thus eliminating long debug cycles and/or high costs. Then we use our mechanical and electrical engineering disciplines to virtually test the new machine before we build it.

One of the key reasons our customers are confident moving forward with a UNISIG custom machine is that they know we will stand behind it and that we have substantial capabilities to ensure it always exceeds their production expectations. We approach these special projects with the mindset that a custom machine will be used for decades in production, which is why we provide the same documentation and long-term technical support for all our machines whether standard or custom.



4. If a commodity solution is readily available, we recommend that rather than upsell a machine the customer doesn't need.

We build machines that can gundrill or BTA drill deep holes that are impossible to drill on machining centres. Even if it may be possible to drill some deep holes on a CNC machining centre, our machines have the power, speed, dimensional accuracy, spindle density, coolant systems and process control that will improve productivity, tool life and reliability.

Typically, though, when a customer comes to UNISIG with a specific part need, at that point they've most likely already struggled with a conventional machine and realised that a deep hole drilling machine is obviously the way to go.

However, our team knows how to identify whether or not an application would truly benefit from a UNISIG solution. When it wouldn't, we will suggest viable alternatives. It's not that we don't want to sell a machine. But the fact is that our experience has shown that at some point the alternative-solution direction becomes obvious, and we want to make that apparent early on in the process so as to avoid wasting a lot of our customer's time.

Our customers expect the best from us, and we believe that our proven process ensures we never disappoint. Our goal is to leverage our core values to serve our customers as best we can and build strong, productive relationships for years to come.

UNISIG is exhibiting at the AMB show in Stuttgart, Germany, 13 - 17.09.2022, Hall 9, Stand C11. Please contact us at: www.unisig.com

Leakage testing of medical-pharmaceutical vials by laser drilling ensures highest quality standards for medical companies

Innovative solutions are needed to quickly and cost-effectively check the required hygiene and quality standards in order to ensure access to high-quality, safe medical and pharmaceutical equipment in the future. Various essential quality and stability tests are already carried out during the manufacturing and processing process of products such as syringe cylinders, vaccine vials or infusion and transfusion bags. Thereby, the control mechanisms used have to reliably detect even the smallest variation and damage in the material, to exclude contamination in the context of the application. Therefore, GFH GmbH offers manufacturers of medical and pharmaceutical products a laser-based solution. A cost- and time-saving opportunity is offered to validate this quality test, which works particularly flexibly and gently on materials by drilling high-precision leak holes of just 5µm to 50µm diameter into individual specimens of a production line. While the hole sizes can be kept very accurately, no cracks or pressures will arise around the drilling site.



With the drilling of high-precision leakage holes in individual copies of a production line, a cost- and time-saving option for validating control mechanisms used in production is offered. Source: GFH GmbH

As a result of the ongoing pandemic the demand especially for so-called 'leakage drilling' in Syringe cylinders increases rapidly. During manufacturing, these deliberately selected samples are intended to exclude defects in the material of the vials and cylinders for example to prevent subsequent contamination of the transfusion or leakage during usage. Increasing demand for such control procedures is due not least to global vaccination campaigns and the associated increased demand for flawless medical and pharmaceutical products. Manufacturers therefore need reliable methods that can carry out random quality check with high precision in a time- and cost-saving way. For this purpose, laser technology is a predestined method due to its very precise and non-contact processing beam, which is why some well-known manufacturers have already approached GFH GmbH regarding the generation of leakage drills.

The Bavarian laser experts have developed a process, which allows the drilling of high-precision leak holes validating the control mechanisms used in production without much effort.

The resulting (defective) products with micro drill holes are then integrated into the manufacturing process of the medical device manufacturers. These 'prepared' products then form the control group for the quality- and leak test. "The ultrafast laser serves as an excellent tool to equip the glass vials with leakage holes which are very small and precise, but still do not damage the material around the drill hole," explains Andreas Reitberger, Sales Manager at GFH GmbH. "There are numerous reasons for this: on the one hand, the ultrafast laser pulses that hit the material prevent tensions and cracks in it by means of so-called 'cold ablation'. On the other hand, there are no limits to the variety of materials used in laser processing. This enables even hard-to-machine materials such as glass or special medical plastics to be processed with high precision."

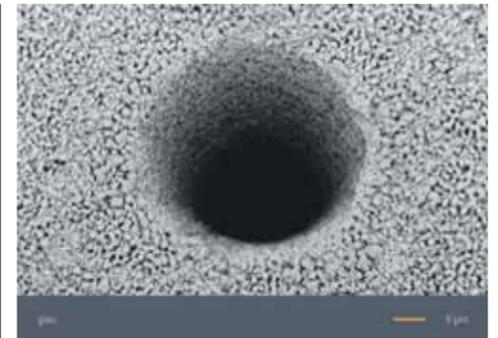
Micro-drilling without additional material stress
For the aforementioned process application of the leakage holes, the laser beam is positioned on the workpiece via two mirrors

with a scanner. As only small masses need to be moved through these optical axes, highly dynamic and flexible processing is possible. The laser beam is therefore focused on an extremely small area and thus drill holes with a minimum diameter (lower limit 5µm) can be made. In addition, laser processing does not result in tool wear which is why the processing can be repeated at any time. Post-processing is also no longer required for laser micro-machining. "With this technology, the manufacturer benefits from the micrometer-precise adjustment of the drill and the almost unrestricted flexibility of the laser," Reitberger adds.

The medical-pharmaceutical glass containers usually have a wall thickness of only one millimetre. Depending on customer requirements, the high-precision percussion holes have a diameter of 5µm to 50µm. With a tolerance of just ±2.5µm, the drill holes are characterised by an extreme precision that would hardly be possible with conventional mechanical drilling methods. Based on the high-precision measurement methods by optical microscopes used at GFH, a test protocol is created for each individual hole after laser processing, which guarantees that every hole is certified and validated in a high accuracy.

Laser processing saves several settings
Besides processing, the products must also be precisely labelled or marked for further certification and tracking, particularly in the medical and pharmaceutical sector. In conventional machining processes this usually requires several plants, as the workpiece is clamped several times on different processing machines. However, this is different for laser processing: The use of this modern machining method eliminates several clamping operations at once, since drilling and labelling can be carried out in a single operation. Combining these two processing steps significantly saves time and costs.

The long-standing know-how in laser micro-machining and in the construction of series-production machines enables GFH to manufacture or process these particularly demanding products for manufacturers in the pharmaceutical and medical technology sector in its own precision production. In addition, the company can even develop its own laser system according to the specific



Scanning electron microscope image of the leakage hole generated by means of an ultrashort pulse laser in a glass vial (side view of the 20µm hole). Source: GFH GmbH

requirements on request. "If the customer has a specific wish to purchase such a machine, the suitable GFH series model is selected together with him and equipped with modular hardware and software solutions for the specific application," explains Reitberger. All GFH series machines are equipped with an ultrashort pulse laser from well-known manufacturers. In addition, GFH can offer customised solutions. As part of this consultation, the technicians also provide information about possible special solutions as well as other machining processes that can be implemented in the systems – from laser cutting to laser ablation to laser turning. "We are pleased that we have already been able to help many well-known manufacturers secure their supply chains with the help of our established drilling process for special requests that arise at short notice, such as leakage drilling. Thus, drilling leakage holes with the ultrashort pulse laser in syringe barrels has become a permanent feature in our precision manufacturing," Reitberger concludes.

www.gfh-gmbh.de

Electronics Update

CML INNOVATIVE TECHNOLOGIES
WHERE INNOVATION COMES TO LIGHT
A Grupo Antolin Company

 LED LAMPS	 CUSTOM BUILD	 CONTRACT ASSEMBLY	 PANEL MOUNT INDICATOR
 CUSTOM SOLUTIONS	 TOWER LAMPS	 KITTING FACILITY	 STOCK HOLDING

Contact CML customer service **now** to discuss your requirements or for Stockist information.

CML Innovative Technologies Ltd.
69/70 Eastern Way, Bury St Edmunds,
Suffolk, IP32 7AB, United Kingdom
Tel: +44 (0) 1284 714700 email: uksales@cml-it.com
www.cml-it.com

Women in utilities



At Lanes Group, one of our most important principles is making sure that all staff members are welcomed and treated fairly and equally, and that nobody joining our team is ever made to face additional barriers as a result of their identity. As such, we consider it a top priority to ensure that women engineers and other female staff members are given every chance to succeed here.

We employ a large number of women in various roles across our entire organisation, from field-based engineering roles through to office-based administrative positions. Gender is no barrier to a long and successful career at Lanes, and our female staff speak positively of the supportive environment and equal opportunities they have received in their time with us.

No matter what kind of role you are seeking at Lanes as a female candidate, you will be valued as an equal member of the team. You will also have ample opportunity to build your skills and take on leadership roles at the UK's largest privately-owned specialist drainage and wastewater contractor.

You can find out more about the work we do to support women engineers and female staff in our workplace on our website. You can also browse our full range of job opportunities today to start your professional journey with Lanes Group.

<https://careers.lanesgroup.com/>

ACI Group achieves UK first with Social Value Quality Mark

ACI Group, a leading distributor working with some of the largest global food, pharma, industrial and road businesses, has become the UK's first distributor to achieve the esteemed Social Value Quality Mark (SVQM) – an award that aims to cultivate and recognise the highest known standards in values-led business.



To mark its journey towards a sustainable business model, the Berkshire-based company has announced recently that it will redefine what sustainability means under its distributor as a service model.

As part of a series of pledges for the SVQM, ACI Group aims to positively disrupt the market by taking pivotal steps to demonstrate its commitment to both people and the planet.

"We are passionate about service and sustainability in the supply chain – and we want to start making a difference in our customer supply chain today," comments Karsten Smet, Director at ACI Group. "Consumers want demonstrable proof of sustainability claims from the brands they purchase from, they want to understand where their products have originated and how they are made. At ACI Group, we want to help our customers and suppliers ensure that any sustainability claim is measured from the outset."

For further information about the Social Value Quality Mark, please visit: www.socialvaluequalitymark.com

To find out more about ACI Group and its activities, visit: www.acigroup.biz

Recycling UK Limited

Recycling UK is one of the largest independent Recycling companies/traders in the United Kingdom.

From its head office at Tarporley, Cheshire, and associate processing plants throughout the UK & Ireland, it can cover most recycling needs. It also has office/joint ventures in Mumbai, India, and Waterford, Ireland.

It is a trader of all grades of waste paper & plastic in the form of bulk loose, baled, or

palletised material, surplus or damaged reels & redundant stock of paper and plastic packaging and supply material to customers in the UK, Europe, India and throughout Asia.

Its wholly owned subsidiary OWP Ltd processes over 1,500 tonnes per week at a dedicated plant at Oswestry situated on the England/Welsh border with material collected by various means within a 150 mile radius.

It also collects material throughout the UK and



Ireland using trailers for delivery to Oswestry or to one of our associate processing plants.

Please contact our commercial team on +44 (0)1829 732471 or email: commercial@rukgroup.com or visit: www.rukgroup.com

RUKGROUP.COM

EXPERTS IN RECYCLING

UK RECYCLING & GLOBAL TRADING

 <p style="font-size: 1.2em; color: #0056b3;">Industry leading service since 1998</p>	 <p style="font-size: 1.2em; color: #0056b3;">National collections by trailer, container or multilift bins</p>	
 <p style="font-size: 1.2em; color: #0056b3;">Local and national security destruction</p>	 <p style="font-size: 1.2em; color: #0056b3;">We can supply compactors & balers</p>	
 <p style="font-size: 1.2em; color: #0056b3;">We buy baled waste paper & cardboard</p>	 <p style="font-size: 1.2em; color: #0056b3;">We buy palletised surplus paper & board</p>	 <p style="font-size: 1.2em; color: #0056b3;">Consulting & facilities management</p>

Tel: +44 (0) 1829 732471

10 Portal Business Park, Eaton Lane, Tarporley, Cheshire, CW6 9DL

Visit our website www.rukgroup.com

Email: Generalinfo@rukgroup.com Sales/Trading/export@rukgroup.com

Delivering low carbon solutions with modular technology

EnviroChemie UK has recently signed a contract with Abbey Ecosse Ltd to design and build an Anaerobic Digestion system at the Forss Business and Energy Park in Scotland. The plant will treat waste products from whisky distilling, producing biogas, which will be converted to bioenergy, to be utilised in the site's 'decentralised smart energy network'. The plant is part of the Ecosse North Coast Energy Network (ENCEN) project working alongside other green technologies to produce low carbon heat and power for the business park.

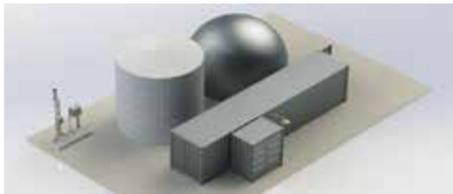
EnviroChemie has established a reputation for energy and resource efficient technologies for water and wastewater treatment and recycling, specialising in developing and implementing sustainable customised solutions in different industries.



We offer a holistic range of 'Made in Germany' branded products and services based on biological, membrane filtration and chemical-physical processes, whose pedigree relies on its long list of research achievements and patents. EnviroChemie adopts a partnership approach in which client specialised needs and characteristics form the basis for individual design, planning, engineering, building and commissioning of treatment plants.

Plant solutions for water treatment and resource recycling or biogas production save valuable resources and energy. We continuously develop the technology lines for physico-chemical, biological and membrane technology water treatment, created in our own research department. Customer-specific solutions can be tested in our own technology centre or in pilot plants.

EnviroChemie is a member of the EnviroWater Group, a network of companies with specialists in the solution of a broad range of requirements for sustainable water treatment.



The EnviroChemie solution for ENCEN incorporates established anaerobic technology with innovative membrane separation. This will convert a high proportion of the organic waste to Biogas, and produce a high-quality water for discharge, both reducing the sites carbon footprint and minimising the environmental impact.

The solution will be delivered in a modular format, with the majority of the technology being built offsite. This will mean a quicker installation and commissioning phase but also allow for repeatability of the solution at other locations.

The project is being developed under the Scottish Governments Low Carbon Infrastructure Transition Programme (LCITP) and will contribute to the region's pathway to 'Net Zero' carbon emissions.

Neil Robertson of Abbey Ecosse said, "We selected the EnviroChemie technology solution after an extensive technology assessment by Ricardo Energy and Environment based on the options available in the market at this scale. Working in partnership with EnviroChemie has produced a highly innovative solution to achieve our net zero requirements."

The EnviroChemie WaterExpert™ digital platform will also be incorporated, as part of the ongoing plant operation.

The WaterExpert™ app offers an easy and convenient



way to help monitor and optimise plant operation. Using a smartphone, tablet or desktop computer, you can get a remote overview of the status of the entire plant with:

- ▼ Real-time data monitoring, including trend graphs and performance analysis
- ▼ Remote monitoring (optional)

- ▼ Digitised plant inspection rounds and checklists
- ▼ Customised alarm and maintenance management

This means you can minimise the amount of work required on site, reduce costs and even optimise operation to make it more efficient.

To use your water resources more efficiently, seek practical advice from our advanced water treatment specialists.

For more information, please contact Lester Young at: lester.young@envirochemie.uk

Or visit our website at: www.envirochemie.co.uk



Technology for Water
ENVIROCHEMIE

Using Water & Resources sustainably

Water Recycling • Re-use • Biogas Production

With customized plant solutions & services

- Saving resources & energy
- Reducing operating cost
- Optimizing CO₂- and water footprint



EnviroChemie UK Ltd
Lily Hill Court, Lily Hill Road,
Bracknell, Berkshire RG12 2SJ
United Kingdom
info@envirochemie.uk
envirochemie.co.uk

International:
Austria · BeNeLux · Brasil · Bulgaria · Denmark · Finland
Germany (Headquarters) · Great Britain · Maghreb
Middle East · Norway Poland · Russia · Sweden · Switzerland



Worthington Creyssensac



Industrial compressed air brand, Worthington Creyssensac, has launched the new 'Class Zero' oil-free compressors for the UK & Ireland markets. Certified to be 100% free of any traces of oil or other contaminants, the new OF 20-75V range has been designed for use in pharmaceutical, biotechnology and chemical sectors, where production of air quality to the ISO 8573.1:2010 class is essential to maintain high standards of manufacturing.

As there is no lubrication in the compression cycle of the machine, this new generation of compressors replaces previous oil-injected machines, that rely on downstream filtration to achieve the required high levels of air purity. As well as further enhancing product safety, oil-free technology enables pharmaceutical and chemical producers to save time and money by dispensing with monitoring, cleaning, and maintenance of oil filters, the removal of which will help to achieve lower operating costs.

With climbing production energy costs in mind, Worthington Creyssensac implemented variable speed drive (VSD) compressors in its new oil-free models to help offset the rising costs. A VSD compressor matches the power consumption to the air demand, especially when the production process is not constant, varying its speed and thus reducing the energy consumption during low usage periods to maintain outlet pressure to ± 0.1 Bar. By selecting a VSD compressor, the manufacturers can meet their fluctuating air demand profile, reducing overall energy consumption by as much as 35%.

Learn more here: www.worthington-creyssensac.com/en-uk/products/oil-free-compressors/of-range

Highly sensitive Arsine sensor



A sensor to measure arsine gas in the ppb range

With the AsH3/C-1 and the AsH3/M-1 MEMBRAPOR presents two extremely highly sensitive sensors, which allow the highly toxic gas Arsine to be measured in the ppb range.

Despite its past as a component in chemical weapons, Arsine is now a common technical product in the semiconductor industry. Arsine is used as a doping gas on a large scale and in significant quantities in the context of thermal doping of silicon in the diffusion process and in ion implantation. To ensure safety, all processes need to be controlled and monitored with electrochemical Arsine sensors.

Contact
www.membrapor.ch/arsine-sensor

Interface Force Measurements: Force, torque and pressure measurement

Interface Force Measurements has been supporting UK industry with the highest quality force, torque and pressure sensors for more than 25 years.

You can benefit from our experience whenever you contact us about your next measurement application, experience gained helping designers and engineers across multiple industrial sectors.

We'll use our experience and product knowledge to help you select the best sensors for your application from our wide range of sensors from some of the world's best sensor manufactures, including:

- ▼ **Interface Inc** – single, dual, 3 and 6 axis load cells and torque transducers
- ▼ **AMTI** – six-axis load cells and force plates
- ▼ **GP50** – pressure and temperature sensors for oil/gas, aerospace, automotive food/ beverage and general industry
- ▼ **DDM** – miniature pressure sensors for automotive R&D
- ▼ **XSensor** – pressure mapping systems for bed/ mattress, seating, automotive R&D, tire testing applications and impact testing for seats, airbags, helmet and protective equipment

We can also help with your data collection needs with our

interface
The World Leader in Force Measurement

range of amplifiers, displays and software what will work with our and other manufacturers' sensors.

So, if you have a force, torque or pressure measurement challenge that you'd like our help with, please contact us.

Contact
T 01344 776666
info@interfaceforce.co.uk
www.interfaceforce.co.uk

SAVING INSTRUMENT DOWNTIME
SAVING LIVES
SAVING THE PLANET

DD Scientific

LONG LIFE LEAD FREE
OXYGEN

WWW.DDSCIENTIFIC.COM

interface
The World Leader in Force Measurement
Automotive R&D
Whatever you need to measure
We have the sensors



FORCE • TORQUE • PRESSURE



+44 (0)1344 776666
info@interfaceforce.co.uk
www.interfaceforce.co.uk

esi
ESI Technology Limited

HYDROGEN COMPATIBLE PRESSURE MEASUREMENT SOLUTIONS

H₂ Compatible with Hydrogen based environments

Pass tested to ISO11114-4:2017

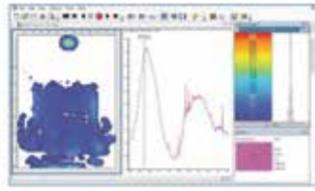
Superior Silicon on Sapphire sensing technology

Made from specialist titanium alloy and stainless steel material

DNV·GL Ex

www.esi-tec.com

The world leader in force measurement



yet competitively priced 3 and 6 axis load cells are used for many R&D, renewable energy and robotic applications."

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,



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

interface
The World Leader in Force Measurement

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."

T 01344 776666
info@interfaceforce.co.uk
www.interfaceforce.co.uk



Springs Update

An in-depth look at the skills gap troubling the industry



Manufacturing is a highly professional industry that requires its workers to earn particular qualifications, leading to the current skills gap shortage troubling the sector. Recruiting skilled engineers and other production team members is a constant issue to fill all the current vacancies, but there are ways to fix this.

What is the manufacturing skills gap?

The manufacturing industry plays a prominent role in the UK's economy. With over 270 thousand businesses in the manufacturing sector across the UK, it's recognised as one of the most significant contributors to the UK economy.

Any business needs to adapt to thrive & evolve, including STEM industries. By implementing intelligent technologies such as big data, Cloud computing and industrial IoT, managers can more accurately optimise their work processes & identify those areas that need improvement.

The skills gap is partially due to the rapid advances in smart technologies and automation that are helping increase the efficiency of the industry. However, whilst investing in these new technologies is a great idea, many people do not have the experience or qualifications to use them.

Unfortunately, there are many working positions unfulfilled across manufacturing and other STEM sectors. These vacancies are known as the skills gap. The manufacturing skills gap is not just a buzzword for

low employment numbers; it is, in fact, a complex reality that many spring manufacturers face as there are more open positions than applicants to fill them.

Manufacturers national contribution

Pressing manufacturers such as ourselves are among the many companies in our sector to account for 9.7% of the total UK economic output in 2021 (gross value added). At the start of 2022, manufacturing output was 0.8% higher than the previous month but 1.6% below the beginning of 2020. All of this was achieved with this sector 7.3% of the jobs positions available in the UK.

Current state of the industry

The British chamber of commerce, early this year, reported in their quarterly recruitment outlook that there are record highs in recruitment difficulties. In addition, 79% of companies shared that they have problems filling positions. Companies have reported a broad range of issues that have contributed to this, such as the effects of Brexit and the pandemic.

Head of people policy, Jane Gratton, believes that these results highlight the continuing difficulties employers face in accessing the skilled labour they need and that such a loss will impact the country's economic recovery. For example, as more compression spring manufacturers struggle to fill their skills gap, it will create a knock-on effect on their ability to provide products. This effect will continue adding struggles to an already pressured supply chain battling supply and demand.



EUROPEAN SPRINGS & PRESSINGS

Upskilling your team

One short term solution to the skills gap problem is to upskill your current workforce. Re-training and developing new skills is an excellent way to grow your existing team and address those areas with gaps. Additionally, focusing on automating easier processes will free up those team members to address the more complex parts of your business.

Another practical method for filling skills gaps with upskilling is implementing personal development plans (or PDPs). These help companies set goals for each employee and encourage their development as they learn the skills required.

By upskilling your team to your new equipment and procedures, companies are building well-rounded, multi-skilled workforces capable of filling those missing positions and increasing their businesses' overall efficiency.

Investing in young people

At European Springs, we believe that investing in new engineers supports us and benefits the industry as a whole. In addition, by increasing awareness of the advantages of STEM careers to students through various existing programs and apprenticeship schemes, the talent pool will be increased dramatically.

Continuing to promote our excellent apprenticeships is crucial to us as a company. We offer incredible schemes that follow the mechanical manufacturing apprenticeship framework and award BTEC Level 3 certificates in Engineering operations and maintenance.

Filling the skills gap

The way manufacturing companies react to this labour

shortage will be an essential factor in deciding the future of the manufacturing industry. In order to prosper, the sector must embrace the initiatives already in place to attract new skilled people to enjoy a profitable career in STEM.

Scholarships, bursaries, and apprenticeships are all fantastic ways of increasing this awareness and are proving to address the skills gap successfully. In addition, male and female postgraduates students can apply for funding opportunities that will help them explore a career in manufacturing or any other sector under STEM.

Brunel University in London offers a mentoring programme called Women in Engineering and Computing (or WIBEC) that encourages and supports female graduates and undergraduates to begin a fulfilling career in manufacturing.

The UK is home to many prestigious universities well known for innovation, research and creativity. This has created a reputation for top-ranked UK universities globally and has been providing STEM education in many forms for centuries. In addition, this positive relationship between these institutions and manufacturing companies has created a supportive network for job hunting or apprenticeship applications that makes it much easier for employers to find people to fill their skills gaps.

T 0208 663 1800
info.bec@europeansprings.com
www.europeansprings.com



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



ON DEMAND PACKAGING

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



ON DEMAND PACKAGING

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
- NAACP, 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 Certificated

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 8983 1900 or email us at: sales@europesprings.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

Tel: +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.

More information: jacob-uk.com

Glue Gun Services



Proflex
Shaped Hot Melt

Packaging Glue Sticks & Glue Guns

Passfield Business Centre, Lynchborough 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

WE HELP YOU GET BACK TO BUSINESS



A suite of premium UVC LED hygiene products validated in independent laboratories to kill COVID-19 and other viruses, bacteria and fungi.

PHONES, TABLETS,
LAPTOPS,
CONTROLLERS
& MORE

The Star Series



WEAR HEADSETS
AND HMDS SAFELY

The CX Series



KEEP YOUR
MASKS CLEAN

The CleanDefense Series



WHY CLEANBOX?

- We use high power UVC LED grids
- Operating at the sweet spot of 265nm wavelength
- Lab validated at log 5+ in one minute
- Multiple B2B solutions
- Made in the USA