

# INDUSTRIAL PROCESS NEWS

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# IPN

## Could your business be eligible to claim thousands back in tax relief?

The HMRC Research and Development Tax Scheme encourages innovation and stimulates the economy by supporting firms to create new products and services.

Due to time constraints, lack of awareness and doubts around eligibility to claim, there are thousands of companies that are not currently taking part in the scheme, especially within the manufacturing industry.

Research and Development Specialists Ltd (RDS) is an expert in helping companies navigate the scheme. It has already helped to recover approx. £2.1 million for 75 manufacturing clients - including major players like Ultron Technologies Ltd, Brewbaker Engineering Ltd and Warmroof Ltd.

Eligibility is focused on the project over the type and size of business. Any UK limited business can claim, with slightly different processes for SMEs and larger firms.

Typically, an R&D claim can be submitted the current and previous financial year



- and should demonstrate how a project:
- Looked for an advance in science and technology
  - Had to overcome uncertainty
  - Tried to overcome this uncertainty
  - Could not be easily worked out by a professional in the field.

There is no rule that says you need to have a finished product or service; the research/development phase is often enough to qualify.

Mark Joyner, RDS Director says, "Manufacturing is an industry that is constantly innovating. We consistently see high value wins for our clients because R&D is such an integral part of the manufacturing process."

For more information, visit:  
<https://randdspecialists.co.uk>

## Filtration, transfer & purification of fluids

For over 60 years SIEBEC has designed and manufactured a large range of filters, pumps and liquid treatment solutions for industry. The products are sold globally but supported locally in the UK.

Technologies developed and supplied by SIEBEC include:

- Innovative airless agitation. The environmentally acceptable, efficient and cost-effective alternative to traditional air or mechanical agitation.
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- Comprehensive range of filter system from 100-80,000 lph for chemical processing. These modular systems are universal and offer a comprehensive range of filter media options including our patented large surface area reusable L-TECH filter media.
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- Filter media, all types and materials including filter bags, L-TECH pleated cartridges, extruded cartridges, wound cartridges, anode bag, block and carbon impregnated cartridges.
- Chemical pumps for solution transfer. Comprehensive range include mag-drive, mechanical seal, vertical pump, peristaltic pumps. Most pumps self re-priming.

New SIEBEC brochure - Dedicated



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[www.siebec.co.uk](http://www.siebec.co.uk)

## Quality alternatives for 95% of ALL passive components

With its latest franchised distribution agreements in place, BEC Distribution now offers quality alternatives to major brands for what it believes covers 95% of all passive components including TOKO/Murata, Sumida, TDK, Coilcraft, Cooper, Bourns, Tyco, Vishay, Würth, Panasonic among others.

Many well-known manufacturers currently have lead times of 18-26 weeks, often with product allocation policies. BEC's alternatives are available on 5-7 weeks delivery (excluding public holidays). Many products are ex-stock, with a low MOQ of just 10 pieces for samples. The policy of sourcing from different countries around the world ensures continuity of supply without compromising quality.

BEC is a franchised distributor of High Current Power Inductors, Power Inductors, Chip Inductors, Common Mode Choke, Line Filter, Transformers, Resistors, Terminal Blocks, RJ45 connectors and LAN Magnetics.

Samples and spec sheets are available on request. Sourced from established



manufacturers around the globe, the ranges offer high-quality alternatives, often at a price lower than the well-known manufacturers. Quality is key - for example, many products feature gold-plated contacts and robust, rugged designs, ensuring long life. Error-reduction designs have also been utilised in the components. A very recent BEC distribution agreement is the Itacoil range of Measuring Transformers. They offer very high precision with a typical measurement error of < 0.5%, suitable for frequencies from 50Hz to 400Hz with output voltages from 2.5V to 10V.

Contact  
T +44 (0)1844 275824  
[www.bec.co.uk](http://www.bec.co.uk)

## Colloids Ltd set to launch new advanced graphene 2D polymer composites

Colloids Limited is set to launch a new facility for bespoke polymer composites using its innovative graphene masterbatch technology called Graphanced®.

The company says Graphene is a wonder material that has gained widespread interest due to its unique properties; for example, it's the thinnest imaginable material at one atom thick but also the strongest. It also has exceptional mechanical properties (stiffness > diamond, strength = 130GPa).

Colloids has been working on its graphene R&D for over seven years, extensively collaborating with the world's top graphene producers analysing the different quality and grades. This work has enabled the formulation of novel polymer composites using this remarkable 2D material. As a result, Colloids is now able to offer bespoke solutions; such

as light-weighting and increased strength of polymer parts to its global customers.

Dr Marios Michailidis, Colloids New Product Development Manager, said, "Working on this project has not been without its challenges, but we are proud to have achieved some remarkable developments in this field and are now working with major customers in the commercialisation of these products."

T +44 (0)151 546 9222  
[www.colloids.com](http://www.colloids.com)



## The complete manufacturing solution

Taking place in-person at Birmingham's NEC from 14-16 September 2021, Subcon was co-located with The Engineer Expo and – new for 2021 – Manufacturing Management Show. The UK's leading subcontract manufacturing supply chain show came at a pivotal time as businesses of all sizes recover from the impacts of COVID-19 and adjust to operating outside the EU.



Subcon is the UK's premier subcontract manufacturing supply chain show. This is the must-attend event to meet and source new solutions from the very best of British manufacturing, and world-class suppliers from over 20 countries. Manufacturing professionals from all Industry sectors attend Subcon to benchmark new and existing suppliers and develop new manufacturing partnerships.

The Engineer Expo is dedicated to providing UK engineering professionals with the latest in-house manufacturing and design solutions, alongside cutting-edge developments in advanced engineering technologies. Brought to you by the UK's leading B2B engineering publication, The Engineer, the event combines a 3 day programme of free-to-attend educational content with a wide selection of world-class suppliers and extensive networking opportunities.

The Manufacturing Management Show brings you everything you need to know about running a successful manufacturing site – from 5S and lean strategy deployment to finding the right forklift truck. The show features a high-level conference brought to you by Manufacturing Management magazine and an exhibition of market-leading suppliers for you to explore.

All three shows return this year from 7-9 June 2022 at Birmingham's NEC.

[www.subconshow.co.uk](http://www.subconshow.co.uk)

## Flexible Machining Systems Ltd

Based in West Sussex, Flexible Machining Systems has been supplying multiple industrial sectors with precision engineering services for nearly 40 years. We meet the highest standards for all the components and systems we produce, as demonstrated by our AS9100D and BS EN ISO9001 certifications, delivering on time to your exact specifications.



We're proud of our heritage that stretches back to our foundation in 1982. In recent years, we have invested in people, processes and new capital investments to meet the latest requirements and standards of every industry we supply.

We're particularly proud of purchasing that latest 5 Axis automated CNC Machines and we have expanded FMS premises to house the operations of our sister company Horsham Sheet Metal, which was fully integrated into FMS during 2021. Being co-located on one site is clearly beneficial for all projects that use our combined services and we are extremely excited about the prospects this affords us and our customers going forward.

Many of our engineers and management team have a strong background in Lean and Six Sigma, so we are always driving a continuous improvement culture. Lean tools such as 5S, TPM, Setup Reduction, Root Cause Analysis and Process Management are frequently used to improve our performance.

We understand that performance and quality are critical for the sectors we supply and that is central to every order we work on. Please get in touch to discuss how we can fulfil your precision engineering, fabrication or project requirements, whatever your industry or timescales.

T +44 (0)1403 270466  
[sales@flexiblemachining.com](mailto:sales@flexiblemachining.com)  
[www.flexiblemachining.com](http://www.flexiblemachining.com)

## MMP Electrovibe UK Limited

MMP Electrovibe UK Limited is a specialist in the metal polishing and surface finishing of stainless steel. We provide subcontract services, such as Mechanical Polishing, Electropolishing, Pickling, Passivation and Bead Blasting and are preferred suppliers to major manufacturers serving UK and Global markets. We hold ISO 9001:2015 and ISO 14001:2015 accreditations and are members of the British Stainless-Steel and the Surface Engineering Associations.

In 2021, we launched an on-site product line

De-greasing and Passivation service, suitable for pharmaceutical, food and beverage products. We also have the capabilities of carrying out Oxygen Cleaning requirements for clients in need of this service.

With nearly 40 years of experience in the metal polishing industry, we can advise which services would best suit your product, providing a high quality, cost-effective solution for all your surface finishing requirements. All works carried out are



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[enquiries@mmpelectrovibe.com](mailto:enquiries@mmpelectrovibe.com)

### Our Core Competencies

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- Sheet Metal Fabrication
- Project Management

### Our Services

- Customer Design Support
- New Product Introduction
- New Product Development
- Project Management
- Supply Chain Management
- CNC Precision Engineered Parts
- CMM Inspection
- Ultrasonic Cleaning
- Sheet Metal Fabrication
- CNC Laser Cutting Technology
- Mechanical Assembly
- Electrical Assembly
- F.A.T

## Delivering excellence

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 Unit 2/3 Blatchford Road | Horsham | West Sussex | RH13 5QR  
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ISO 9001  
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015

AS9100  
AEROSPACE & DEFENSE

AS9100D CERTIFIED  
 BS EN ISO 9001:2015 CERTIFIED

# Inchcape celebrate 175 years as the world's leading maritime services provider

In this issue of Industrial Process News, we are pleased to announce Inchcape Shipping Services as our Maritime Services Provider Company of the Month.

Established in 1847, Inchcape Shipping Services (Inchcape) is the result of a gradual evolution of successful acquisitions and organic growth that developed it into a broad port agency network, helping customers to trade successfully and more efficiently in every port around the world. Today, Inchcape stands as one of the largest maritime services providers in the world. Headquartered in the UK, it has over 260 offices in 60 countries and a team of over 2,700 professional and committed staff.

Its worldwide infrastructure, extensive local knowledge and partnerships have enabled Inchcape to drive a positive change in the industry for 175 years. Inchcape offers a range of services orientate around delivering port calls that enable businesses to ship smoothly and trade successfully. As a leading local ships agent, its services cover everything from arranging crew changes, booking a slot in the port, arranging food and spares, to managing the process of customs and immigration so ships can come in and out of the jurisdiction. Given that 90% of everything we consume is delivered on a ship underlines the value and importance of these services in our current global economy. "It's crucial that our services are provided in the most efficient, timely, safe and compliant way. Certain moments in history, such as COVID-19, the global supply



Cruise port call in Santos, Brazil

chain disruption and the grounding in the Suez Canal prove time and time again just how important our services are as shipping is the lifeblood of the global economy," said Chris Crookall, Chief Commercial Officer.

The nature of its 175 years of history means Inchcape's physical network has grown extensively and now covers over 85% of all global ports. "The vast majority of all global ports are covered by an Inchcape office and in those places where we don't have our own offices, we have carefully selected partner agencies or partnerships with businesses that provide similar services in those locations," stated Chris.

Communication is key to co-ordination, and Inchcape believe its expertise, global leadership and future focussed attributes are essential to its industry leading position. Throughout its history, Inchcape has delivered uncomplicated working solutions that are reliable, cost-effective, operationally efficient, operationally consistent, sustainably minded and compliant. As well as being in accordance with global government standards and local legislation, it strives to deliver best in class service delivery no matter where its customers vessels call around the world.



Marine Survey and Inspection services in the Middle East



Inchcape Officers on Duty in Valparaiso

Furthermore, Inchcape also provide managed solutions for its customers which are more colloquially referred to as 'hub services'. "A hub solution is where we not only provide the local agency service co-ordination, but where we manage outsourcing on behalf of ship owners or charterers. Our services extend to some of the largest oil and gas companies in the world, as well as increasingly large traders and dry bulk companies who engage us as their potential hub agent meaning that we not only act as their agent in a local port, but we appoint the local agent on their behalf, be it Inchcape or another agency. We effectively become a global control centre for them, appointing agents to execute the port calls, ensuring service delivery KPIs are achieved, that disbursement accounts are correct and find ways to improve the customers profitability through vendor selection and strategic sourcing," explained Chris.

Since 2019, Inchcape has implemented operational changes to drive transparency across many areas. Through the marriage of having the right agents on the grounds of each port and industry leading technology and digital systems at its fingertips, this acts as an enabler to offer customers tangible costs and time savings, improved operational efficiency, accurate and pertinent information on demand, an increased collaborative approach to sustainability, and an overall peace of mind. "There is an increasing need for transparency in the shipping agencies business, and we deliver this through our governance, compliance, and through our huge investment in technology. Our World of Ports and Optic systems enable our customers to see in real time everything that is happening in ports around the world related to not only



Provisioning to Cruise Ship in Valparaiso



Chris Crookall, Chief Commercial Officer, Inchcape Shipping Services



Dry bulk operations in Mauritius

their vessels but also the wider port eco system in general," said Chris.

Inchcape's World of Ports platform is a digital, cloud-based solution that combines global port data provided by Inchcape's network of agents with AIS and geofence monitoring capabilities to boost operations performance, marine assurance and productivity while improving fixture profitability and competitiveness. World of Ports is the largest port intelligence platform with agent-verified data and provides real-time, historical and enhanced port data, integrated vessel tracking, a port cost estimator, competitive monitoring and more.

As the only Port Agency with a Marine Survey and Inspection division, Inchcape is also committed to providing reliable and trustworthy solutions in key locations globally. Its highly experienced marine survey and inspection team identify and mitigate risks, provide insight and create a safer industry for marine and land operations. The service allows customers to connect seamlessly to Inchcape's global network of Marine Surveyors and business partners through one single contact point.



Interacid Terminal - Mejillones

What makes Inchcape different is its complete remodelling of how shipping agencies should be run. "We make sure the vendors and the processes we use maximise the benefit to the customer. We enter into a true partnership with our customers to select these vendors. We are unique amongst the global agents in that we have a dedicated global strategic sourcing team whose prime focus is to manage and optimise the list of 7,000 plus vendors that we have around the world and make sure they fulfil strict compliance criteria but also fulfil cost optimisation and value criteria on behalf of our customers," stated Chris.

Inchcape strongly promotes sustainability as it believes providing the right agent is key to making the port environmentally efficient. Inchcape can work with you to reduce overall carbon emissions by reducing wait times at ports and by utilising its data and co-ordination services that have been proven as the industries finest for 175 years.

For more information, please see below: [enquiries@iss-shipping.com](mailto:enquiries@iss-shipping.com) [www.iss-shipping.com](http://www.iss-shipping.com)



Inchcape launch boats in the Middle East



Ships in line at the Port of Rotterdam

# Print Perfection with Resino

**Resino is an expert in reactive inks for flexographic printing and delivers a wide range of high-quality inks, in particular water-based, solvent-based and UV curing inks, for special requirements.**

With an impressive and unique history, Resino was founded in 1957 as a manufacturer of publication gravure printing inks. However, due to national strikes Resino could not survive in the publication gravure market and was reduced to bankruptcy in 1982. The former laboratory technician in Resino, Finn Cederstrøm, sees a potential in Resino and decides to buy the company at auction.

Leading on from this new takeover of ownership, Finn decides to focus exclusively on the market of meat casings, which turns out to be a huge success. The hard work throughout the years pays off and Resino expands its business to several markets, including food packaging and non-woven hygiene printing.

"The focus on expert research, advanced technology and carefully selecting raw materials leads to Resino becoming world leader in printing inks for meat casings, and the company exports printing inks to five continents and over 64 countries," said Niels Nielsen, V.P. Commercial Director.



Resino develops and delivers ink solutions for both traditional and specialised applications. The company offers inks that are suitable for direct and in-direct food contact and can be used for informative and/or decorative purposes. In addition, Resino also delivers printing ink for non-woven diapers and other hygiene products and offers both solvent-based and water-based 1k and 2k inks.



"We are proud of our global leading position in inks for meat casings, and we enable our customers to perform high quality fine print decoration on all types of meat casings. We offer 2k water-based and solvent-based systems, plus UV curing inks. Our inks for meat casings have great adhesion, low migration risk as well as boiling and sterilisation resistance," Niels noted.

In terms of recent developments, there is a new legislation that has come into force within the EU, which bans the use of plastic for disposable tableware (European Union's Single-Use Plastics Directive). Resino has worked in close cooperation with customers to find a solution.

Niels explained, "We have developed varnishes, based



on acrylic binders as well as natural materials, which can replace the plastic coating. With the increased focus on reducing plastic consumption, there is also a great need in the market to reduce or eliminate plastic-coated food packaging, and many companies desire to switch from plastic to paper and board. However, plastic has protective functions, which does not appear in paper and board packaging. Therefore, we support our customers in finding an alternative barrier to take on this protective function."

As the company looks head, Resino is getting ready for the future. Under Signe Cederstrøm's direction since her appointment as CEO of Resino in 2019, Signe has great ambitions for Resino, and she focuses



on modernising and digitalising the company to strengthen the global position even further.

Resino plans to further challenge the world and expand its global presence and is looking for distributors in the segments: food contact materials, hygiene non-woven, in-mould labels, lidding films, lami-tubes and specialty packaging.

"If your company already offers complementary products or has contacts in these segments, then being a part of Resino's global network of distributors could be very interesting to you," Niels stated.

**For more information, please see below.**  
T +45 44 97 34 88  
[www.resino.dk](http://www.resino.dk)

# RESINO

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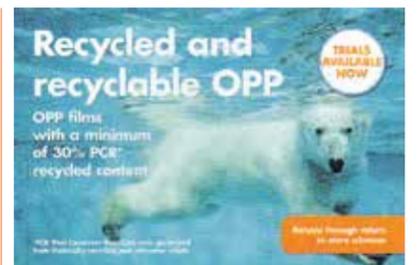
Available in a full range of clear, white, matt, metallised, PVdC and acrylic coatings as well as low temperature seal options

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post-consumer waste.

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## Nutty about plant based and recyclable film

**M**et Foods, the award-winning plant based, dairy-free people are an AA BRC allergen free facility, with two separate factories producing a range of gut-friendly coconut and almond based yoghurts and spreads for food service.

A family owned, British business, Met Foods Ltd are passionate about creating dairy-free products that prove dairy-free doesn't have to be bland or boring. Made with the finest ingredients sourced from ethical suppliers to create free-from products that not only taste good but are good for you too.

They have been revolutionising plant-based products since 2011; launching the UK's first ever coconut milk yoghurt to market followed by the UK and Europe's first almond milk yoghurt, giving consumers a healthy and delicious product that wasn't soy or dairy based.

When Met Foods Ltd wanted to make their



packaging more environmentally friendly, they worked closely with National Flexible to launch recyclable yoghurt alternatives for Nush and COYO Organics.

"We are really pleased with the packaging; not only does it look bright and eye catching it is recyclable. Sustainability is important to us and



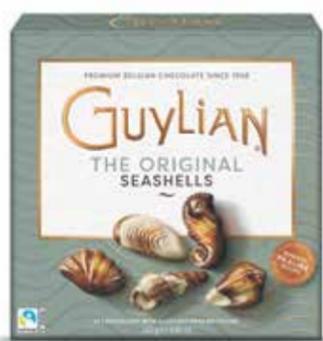
our customers, we want to ensure our products are easily recyclable and as kind to the planet as possible. National Flexible helped us make this as easy as possible for our customers wanting to reduce their packaging waste."

T 01274 685566  
[www.nationalflexible.co.uk](http://www.nationalflexible.co.uk)

## Guylian: The world's famous Belgian Chocolates

**G**uylian, world famous for its chocolate sea shells, is carrying out a thorough modernisation. The chocolate with hazelnut praline, now comes in new packaging and with an upgraded recipe. Guylian is taking its responsibility regarding sustainability seriously and has the ambition to be the sustainability leader in the chocolate industry.

As one of the most influential names in the Belgian chocolate industry, Guylian also has a responsibility to strive for a better planet for future generations. "We want to set the tone for all chocolate brands with these developments," says Tom Snick. "Guylian consciously chooses a pioneering role by going completely



for sustainability in terms of raw materials, packaging, CO<sub>2</sub> emissions and Fairtrade."

Guylian commits to working 100% with Fairtrade cocoa. It offers its suppliers a guarantee of a fixed cocoa price and, in one fell swoop, becomes the largest global brand of Belgian Fairtrade chocolate in the world. In addition, all new packaging has been designed to be fully recyclable. Since the start of this year, the production site in Sint-Niklaas is fully carbon neutral. Finally, in an attempt to help the fight against deforestation, palm oil and soya are no longer used in the production process.

<https://www.guylian.com>

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MTM Products continuously invest in both people and equipment and have world class facilities for the manufacture of custom labels, graphic overlays, and nameplates. This enables us to offer high quality, reliable lead times and great customer service at competitive prices. We have a culture of continuous improvement which ensures we maintain our position as one of the UK's leading industrial graphics manufacturers.

Our plastic and metal digital printing equipment is ideal for **sequential numbering, barcodes, QR Codes and GS1 Data Matrix Codes.**

MTM Products work in partnership with our customers. We can share over 40 years' knowledge and experience to ensure the optimum labelling solution for your application. Our customers range from large multi-national to small start-up original equipment manufacturers in the UK, EU and worldwide and all of them benefit from our expertise and friendly customer service.

**We service many sectors including automotive, electrical, construction equipment and aerial access, life safety and medical.**

MTM Products offer eco-friendly material options, where the application allows, and only purchase materials from approved suppliers who offer consistently high quality and reliability and who are committed to sustainability and ethical sourcing. We have an integrated management system and are certificated to **ISO9001:2015** and **ISO14001:2015** standards. We are a **UL authorised label supplier** and can advise on material combinations that are UL969/CSA compliant.

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Tel : +44 (0)1246 450228

www.mtmproducts.co.uk

# Find the right activated carbon for your application

In this issue of Industrial Process News, we are pleased to announce Carbon Activated Europe as our Activated Carbon Company of the Month.

Established in 2011 initially in the UK, Carbon Activated Europe is the European Division of Carbon Activated Corporation USA that is headquartered in Los Angeles, CA. Carbon Activated Corporation has grown to become the largest privately-owned activated carbon company in the industry today. Similarly, Carbon Activated Europe has grown to have three locations in Thornbury, Bristol UK, Dortmund, Germany and Gdansk, Poland.

Carbon Activated Europe provides quality activated carbon for applications in air, water and many other industries. As the first choice for activated carbon products and services, Carbon Activated Europe specialise in manufacture and supply, of coal, coconut shell and wood-based materials, impregnated activated carbons, granular, extruded pellets and powder, activated carbon reactivation, on-site filter changeouts, testing and expert advice. We spoke with Will Downie, Managing Director, who explained the role of Carbon Activated Europe in more detail, "We manufacture, distribute and supply activated carbons for applications in purifying drinking water, industrial wastewater treatment, air



and gas filtration, purification and manufacturing. We also manufacture and supply highly specialist activated carbons for use in electronics for example, for the manufacture and production of ultracapacitors and batteries which are in everything from your mobile phone to the latest electrically powered vehicles and trucks."

With over 1,000 existing applications for activated carbons across multiple industries, "We focus exclusively on ensuring that we specify for our customers the correct carbon for their specific application. We provide genuine industry knowledge and expertise to ensure value for money for the customer," mentioned Will.

Do you purify or use water within your business or every day life? Are you involved in the filtration, purification or manufacturing of gases? Are you manufacturing ultracapacitors or batteries? – if so,



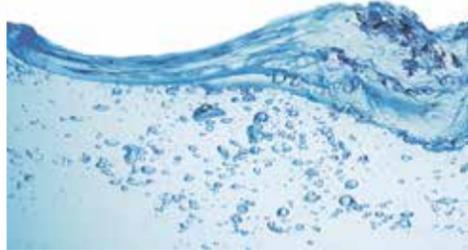
Carbon Activated Europe offers a complete range of activated carbons to fit the unique needs of any project or application including air treatment, automotive, biogas, catalyst support, chemical manufacturing, drinking water, food & beverage, medical applications, electronics, personal protection, wastewater, and many more.

Activated carbons vary significantly in technical specification and application. As customers are becoming more aware of the benefits of choosing the right carbon to address their specific needs, Carbon Activated Europe knows selecting the right carbon measurably improves performance,

decreases the frequency of carbon exchanges, and helps lower overall operating costs. Will explained how the company has reacted to the recent accelerated growth in the demand of PFAS and PFOS GAC products. "Our current focus is on expanding our reach geographically in Europe and into more specialist products for major emerging contaminants e.g. in water for PFAS and PFOS. These contaminants are in all water systems worldwide and require special activated carbons to remove them – which we have developed."

As the company continues to grow, the need for more great people and distribution partners to support is vital. Being part of a global forerunner in providing an extensive range of activated carbons is one of many attributes to Carbon Activated Europe's operations. In closing Will detailed some future plans for the company. "In addition to our geographic expansion, we are constantly adding new lines of innovative products in Europe. We are also expanding our process capabilities to include activation and re-activation technologies."

For more information, please see below:  
**T 01454 546547**  
**info-europe@activatedcarbon.com**  
**www.activatedcarbon.com**



## Plastics & Rubber

### Growth through adversity for Gloucestershire Engineering Firm

Following a period of impressive growth through an uncertain climate, Stratos Precision Engineering Ltd are celebrating a number of key achievements as the go-to plastic and aluminium CNC machining specialists in the UK.

Established in 2012, Stratos is an ISO 9001:2015 accredited CNC engineering company based at Waterwells Business Park in Quedgeley, Gloucester, and has seen considerable growth through what has been a time of global uncertainty for many businesses. With two awards under its belt as a direct result of work with Rolls

Royce Consortium led Ventilator Challenge UK during the start of the Coronavirus pandemic, Stratos has played a key part in business growth in the county through adversity.

Stratos Engineering has made a number of strategic investments since incorporation, the latest of which includes the installation of a 1,000+ sq. ft. mezzanine factory floor to create space for new top-of-the-range CNC machinery. A second Citizen CNC Sliding Head machine (L20 with LFV technology) allows for 7-axis precision machining from Ø3mm – Ø25mm, and a new

Co-ordinate Measuring Machine, the Aberlink Axiom Too CMM, gives accurate 3D measurement and 0.1µm scale resolution; perfect for quality-critical parts such as those used in the medical sector.

To find out more about Stratos and the services available call: 01452 840422, email: sales@stratosengineering.co.uk or visit: https://www.stratosengineering.co.uk/contact-us



### Magog Industries offer their latest range in coatings and materials

Magog Industries offer their latest range in coatings and materials, designed to further enhance longer life and greater resistance in demanding processing where increased proportions of glass reinforced and recycled material is used.

"We constantly strive to offer solutions from optimal design to reduce wear to offering a wide range of surface technologies, explained John Allsop, Director and General Manager. "We design everything in-house but also work closely with specialist partners to meet our customers' specific processing and production requirements."

Enhanced coatings specification include: Thin Dense Chrome (TDC) to enhance wear with low friction and is FDA Approved for food process environments.

Ceramic Seal coatings reduce porosity and increase plating/coating life 4 to 10 times longer in corrosive environments.

In addition, HVOF (High Velocity Oxygen Fuel) that is thermally sprayed applied provides a crack-free 98% density with hardness of 62 to 72 HRC. This scratch-resistant coating, earlier demonstrated at Interplas has gained much interest among plastics moulders. Also, through hardened D2 tool-steel and high-performance alloys such as Hastelloy (nickel-molybdenum) and Incoloy (nickel-iron-chromium) are available from Magog for both screws and barrels.

Further enhanced specifications for barrels include Hot Isostatic Pressing (HIP) to reduce porosity and increase the density of the barrel



surface and can be used as an alternative to Hastelloy or Incoloy when processing, for example using PTFE or Fluoropolymer material.

For more information, contact Magog Industries: 01920 465201, email: enquiries@magog.co.uk or visit: www.magog.co.uk



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**Process Experience Manufacturing Expertise Engineering Excellence**

# Quality, innovation and continuous development

In this issue of Industrial Process News, we are proud to announce that we have selected Brunel Engraving Company as the recipient of our Commitment to Excellence Award.

Brunel Engraving Company (BEC) is an industry leader in the field of etching and engraving. Regarded as a pioneer and engraving specialist, the company has extensive skills and knowledge, to carry out small one-off electrical requests to large production runs for power stations or international airports or operational panels for controlling trains. BEC has worked with some of the biggest brands in the industry, across the UK and internationally.

"The role of BEC is to offer an extensive range of products that can support all industries. Technically we would class ourselves as engineering and manufacturing experts, providing a bespoke product range of labels, asset tags,

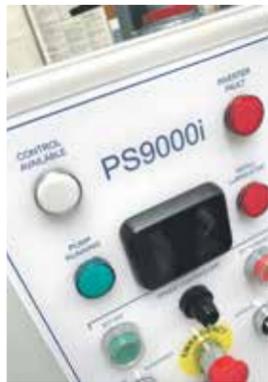


machine nameplates, control panels and much more to a large spectrum of businesses," mentioned Tom Pycock, Sales Director.

One of the main advantageous of using BEC's services is its agility and range of services. "Unlike other engravers, we do not just engrave. We have taken on numerous different processes to provide an all-round service, these include anodic, dye sub & wide format printing, chemical etching, laser cutting & engraving as well as traditional engraving services," said Martyn Wright, Managing Director.

Tom added, "The company's ability to be diverse is one of our main USP's, being a one stop shop to our customers, BEC uses its large range of specialist equipment to manufacture products to bespoke requirements. We are able to quickly identify the customers' needs and provide inhouse solutions to suit all environments. Without the need to rely on third party supplies; we control our own lead times often working to extremely tight deadlines."

As an innovator, the company consistently adapts and develops its range to strengthen and broaden its product offering. BEC has built a reputation on quality and attention to detail, through this ethos BEC ensures that while it consistently searches for new products, that quality is maintained throughout. This is further supported by its resourceful, skilled and talented workforce and BEC always looks to attract the best personnel and help continue their journey, to enable them to



progress and become the most skilled and talented team in the industry.

In terms of recent developments, BEC has recently invested in laser cutting & engraving and anodic printing

equipment. The two new laser cutters include the CO<sub>2</sub> 80 watt laser profiling machine and the 1.5 kW fibre laser metal profiling machine. The anodic printer contains the most up to date technology and is the one of the first to arrive in the UK.

"We have introduced a new laser cutting machine which allows us to work in a different way to our competitors; This has enabled the company to work in a much more cost-effective way whilst improving the quality and reducing our production lead times. It will also allow us to move into new areas such as metal & acrylic cut profiles," stated Martyn.



BEC is currently looking into plans for an expansion to its premises, as the company's continued success over recent years, has meant that the current 5,000 sq. ft. premises, is no longer big enough to accommodate the increasing workload. A change will allow the company to also streamline some of its operations at the same time.

Showing its commitment to excellence throughout its operations, BEC has always maintained a commitment of excellence to its customers, and believes this is one of the main factors supporting its continued growth. Tom added, "From the first customer contact to the dispatching of goods, and even any after care contact needed, we ensure our staff are fully trained to understand the high quality that our customer's expect. Our ISO9001 accreditation means that every job, no matter how large or small goes through the workshops with this expectation level, and the continuous amount of 5 stars we receive on Trust pilot, highlights this commitment"

For more information, please see below:  
T 01275 871720  
www.brunelindustrialengraving.co.uk

## Electro-Mechanical Engineering Company of the Month

# Award winning ADC Electrical

In this issue of Industrial Process News, we are pleased to announce ADC Electrical as our Electro-Mechanical Engineering Company of the Month.

Established in 1974, ADC Electrical was initially formed to provide a repair/rewind service of industrial electric motors to the shipbuilding repair and engineering businesses in the North East. However, as the company grew, its services expanded across many other industries. Today, its main service is to maintain and repair rotating electrical equipment including motors, fans, pumps, and more. Ensuring your pump and/or motor is repaired to the highest quality, ADC Electrical's engineers are trained to the highest level and carry experience and expertise that are trusted in the industry. Its pump range covers all major pump manufacturers and types such as Grundfos, Wilo, Flygt, Lowara and Centrifugal, Submersible, Positive displacement and more.

Providing the best possible repairs for its customers, ADC Electrical's inhouse services include all types of AC and DC motor repairs, generator repairs, pump repairs, transformers repair and manufacture,



solenoid coil rewind, fans and blower unit repairs, baker surge testing, dynamic balancing, and VPI varnish facilities.

ADC Electrical's core business has extended over the years to include the supply of new electric motors and the manufacture of air-cooled transformers, iron and air chokes. ADC Electrical can supply new and replacement motors from a wide range of manufacturers to meet your specific needs. With the customers best interest at heart, it can supply off-the-shelf solutions from its range of standard metric frame 3 phase high-efficiency motors and motor flanges should you need a standard motor fast.

ADC Electrical has been manufacturing and repairing LV air cooled transformers and chokes for over 40 years. Offering a more cost-effective solution to dismantling an old transformer and rewinding it, ADC Electrical can manufacture replacements for a more efficient process.

Its inhouse engineering services take place from the company's separate 2.5-acre mechanical engineering workshop facility based in Washington, Tyne and Wear. Maintaining the highest standards, the workshop meets both ISO9001 management and ISO14001 environmental standards.



As specialists in the repair and maintenance of rotating equipment, Andy Patten, Business Development Director, explained why he believes the company is such a success. "One of our main advantages is our size, we are not too big but not too small. Our engineering facilities mimic that of some of the UK's largest companies in the industry, however, our size allows us to offer a more personal relationship with our clients and respond quicker with more precise communication compared to larger companies. Our set up allows clients to deal directly with the right person for the right job ensuring smooth, clear and concise communication between us and our clients."



2021 evoked much celebration and success for ADC Electrical as it won Service Centre of the Year 2021 at the AEMT Awards and nominated as finalists for the Product of the Year 2021 category. In continuation of its late success, this year, ADC Electrical will be expanding its workforce by introducing a new team of pump engineers who will inevitably add value to the business and contribute towards its growth plan. "We are also looking to bring in new technology for condition monitoring which we hope will bring a more modern approach to condition monitoring. Still in the planning stages, we are also looking to work closely with local schools to establish projects that encourage young children to further their knowledge of the engineering industry with the hope of aspiring many to enter the industry as a career," stated Andy.

Of course, COVID-19 affected everybody on some level, however, ADC Electrical was able to support hospitals and the NHS throughout with its services and facilities, which as a result has developed new connections with potential clients they once would not have come across. Always striving for more, ADC Electrical has the capabilities, skillsets and knowledge that give an excellent platform to build upon.

For more information, please see below:  
T 0191 416 5222  
enquiries@adc-electrical.co.uk  
www.adc-electrical.co.uk

## Industrial Process Technologies

# Venue changed and agenda updated for PROFINET, PROFIBUS and IO-Link Scotland seminar



**Aerospace Innovation Centre,  
Glasgow Prestwick Airport  
Date: 24th March**

This free-to-attend seminar will now take place at the new Aerospace Innovation Centre in Prestwick, which is located within Spirit Aerospace's grounds.

The event addresses the key practical issues arising from the use of digital communications technologies in automated manufacturing and process industry applications, with particular attention being paid to Industry 4.0 and the Industrial Internet of Things (IIoT).

Covering key application areas such as control systems and energy management, pulp & paper, chemical, utilities, pharmaceutical, packaging and printing, mechanical handling and logistics, robotics, automotive engineering, electrical and electronics assembly, it focuses on the practical aspects of using PROFINET, PROFIBUS, and IO-Link, from system design and safety & security considerations through to fault-finding and maintenance.

### Live demonstrations

Supported by an exhibition with demonstrations of actual tools used in configuration and maintenance, the seminar will be of great value to Designers, Production/System Engineers, Instrument Technicians/Engineers and C&I Engineers involved in the design, operation and maintenance of modern automated factories and process plant.

If you would like to reserve a place and be kept updated, **please do register now.**

**More information and online registration  
Scotland, 24 March 2022:  
<http://bit.ly/PIUKScotland>**

**Note: all dates are of necessity provisional, but registered delegates will be kept informed of changes and will be assured of a place at the event of their choice.**

**Places are limited so don't delay – book today!**

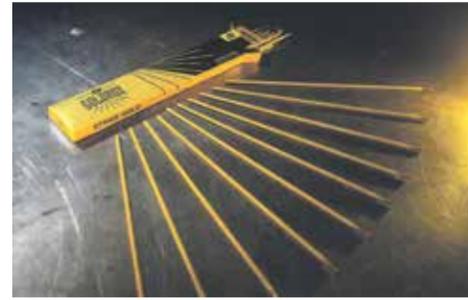
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**[www.profibugroup.com](http://www.profibugroup.com)  
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# ESAB OK GoldRox Rutile MMA Electrode offers superior performance, convenient packaging

ESAB's OK GoldRox all-position rutile electrode offers easier arc striking and re-strikes, has a stable arc that leaves almost no spatter and yields a flat bead profile with fine ripples and good appearance. The slag removes easily with minimal effort for faster clean-up.

OK GoldRox works with AC or DC current and creates a softer arc that works well for light to medium-penetration



welding. It produces particularly satisfying results for overhead welding of fillet welds, as well as lap joints and sealing runs. Good arc stability coupled with decent puddle flow also helps in situations with poor fit-up. Typical applications include sheet metal, general fabrication on mild and medium steels, auto and truck bodies, root pass pipe applications, farm and construction equipment, repair and maintenance.

General purpose rutile electrodes are the mostly widely used MMA electrodes in the world, and OK GoldRox sets the industry's gold standard for superior welding performance. OK GoldRox is available in 2.0, 2.5, 3.2 and 4.0mm diameters and comes in convenient 1kg packages for smaller jobs and less waste, as well as 2.5kg packages, which is one-half the size of standard packages available in the market.

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# New tech, new capacity & new capabilities at William Hughes

Advanced assembly, forming and fabrication assets from Sertec's recently closed springs and wire forms division have been given a new lease of life at Dorset-based William Hughes Ltd.

When the assets became available, Engineering Director at William Hughes Ltd., Emma Burgon, spotted an opportunity to not only bolster her company's existing capabilities, but also introduce new ones.

"We've been able to increase our welding capacity," she explains, "Growing from eight weld cells to 12, and we will be adding a further four bending machines, taking us up to 10 in total. We're also planning



**Expanded production area at William Hughes**

to move some plant to our facility in Bulgaria."

Some of the machines are upgrades too. "We already have Itaya machines, but they are 10 years older than the Sertec machines, which also have

some added functionality, so we are just going to swap them out and put the older machines into storage. We picked up some extra coiling machines too, so five new coiling machines will be coming through the door."

The new assets have almost immediately resulted in new business too, with the company recently winning significant business for welded assembly work and contracts for six new wire frames for two of the world's leading tier one automotive suppliers.

**T 01963 363377  
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[www.wmhughes.co.uk](http://www.wmhughes.co.uk)**

# Bostik extends Born2Bond™ MRO offering with the industry's widest range of Not CLP Classified Anaerobic Adhesives

Bostik, an Arkema company, has recently launched in EMEA a safer and more sustainable WL\* range offering within its Born2Bond™ Anaerobic Adhesives portfolio of Engineering Adhesives, with seven alternatives to the standard high-performance products.

It provides the maintenance, repair and overhaul (MRO) industry with the widest-ever range of anaerobic engineering adhesives that do not carry hazard labels, significantly enhancing the safety and comfort of their use while reducing environmental impact. The seven WL Born2Bond™ Anaerobic Adhesives are available in two pack sizes and include low, medium and high strength threadlockers, medium strength pipe sealant,



instant and flexible gaskets, and a high strength retainer.

Not classified as hazardous substances/mixtures under the Classification, Labelling and Packaging of substances and mixtures (CLP) Regulation, the range

has been specifically designed to enhance the work environment and ease the EHS assessment of a new product without compromising performance.

**Bostik hosted a webinar in EMEA on February 16th, 2022 to showcase the benefits and industry uses of anaerobic adhesives, and to introduce the new WL product range. Further details, including the recorded webinar, will be available at: [Born2Bond.Bostik.com](http://Born2Bond.Bostik.com)**

**T +33 149 007 502  
<https://www.bostik.com/global/en>**

\*Available in selected regions only. Not classified as a hazardous substance/mixture under the Classification, Labelling and Packaging of substances and mixtures (CLP) Regulation (EC) 1272/2008 in EU.

# The Green Revolution: How Microfactories can change the face of fashion



by Mark Sollman, Product Manager EMEA, Mimaki Europe

**With the all-important COP26 Climate Change Conference having taken centre stage in November, there is no time like the present for the fashion world to rally together in stepping up sustainability efforts and getting carbon emissions under control. Globally, the fashion industry is now estimated to account for around 10% of greenhouse gas emissions and 20% of wastewater<sup>1</sup>, making the pursuit of greener production methods more pertinent than ever before. Thankfully, we are seeing a new era of production enter the fashion arena, with the increasing emergence of technologically advanced, highly automated microfactories.**

Along with reducing unnecessary waste through on-demand production, microfactories have a smaller ecological footprint than traditional garment production and require no water use during the production process, making it not only a faster solution, but a greener one too.

Last year's FESPA saw Mimaki team up with Fashion Designer, Carolina Guzman to bring her designs to life in real time at the show, setting up its own working microfactory live on-site to take her designs from screen to garment within just a day.

Guzman's designs were created using Mimaki's TS100-1600 Sublimation Printer, before being transferred



**Carolina Guzman on show at FESPA 2021**



**Traditionally, apparel manufacturing has centred on a production chain model of sourcing materials and producing garments in bulk, microfactories are now enabling on-demand, on-location production**

to textile, digitally cut and finally pieced together. Devised with a string of ethical and environmental objectives threaded throughout, the microfactory also exclusively utilised eco-friendly Greentex fabric, and any remaining material was donated to Sheltersuit: a wind and waterproof coat that can be transformed into a sleeping bag, which is provided free of charge to homeless people and refugees.

Through working with a number of strategic partners – including transfer printing expert, Klieverik; paper solutions specialist, Neenah Coldenhove; and digital cutting equipment provider, Summa – Mimaki was able to produce a collection of unique, high-quality garments live on the stand during the tradeshow, demonstrating to visitors from more than 100 countries some of the key reasons that microfactories seem set to change the future of fashion.



**Mimaki's latest sublimation printer, the TS100-1600**

### Unparalleled speed and versatility

Where traditionally, apparel manufacturing has centred on a production chain model of sourcing materials and producing garments in bulk, microfactories are now enabling on-demand, on-location production, making it possible to create everything from unique, one-off pieces and samples right through to entire product lines – all at unprecedented speeds. This means greater flexibility and customisation, enabling designers to modify or update designs and respond to market trends as they occur.

### Simplified supply chains and minimised risk

The microfactory setup brings production in-house and on-demand, minimising the cost of not only storing stock, but also of shipping it and responsibly disposing of unsold items. Where recent geopolitical events have highlighted the fragility of global supply chains, microfactories offer a unique independence from these systems, empowering garment manufacturers to future-proof their businesses,

become less reliant on external systems and suppliers, and reduce the risk of disruptions.

### A boosted bottom line and a greener future

Facilitating savings in a whole line of resources, from physical storage and production space to time and energy, microfactories ultimately have the potential to significantly increase profitability for garment manufacturers, with the additional benefit of being easily scalable as production increases. Perhaps even more compelling, however, are the environmental considerations. Demonstrated on a small scale through Mimaki's recent project, the environmental benefits inherent to microfactory production will have an even greater impact as it becomes more prolific and commonplace throughout the fashion world, with the potential to effect meaningful environmental change as adoption increases in the years to come. In short, watch this space!

### Contact

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[clare@bespoke.co.uk](mailto:clare@bespoke.co.uk)**

**<https://www.mimakieurope.com>**

**Mimaki is holding its online event, Global Innovation Days, from 2nd-4th March 2022 with exclusive new products launch and live webinars for the sign, textile, 3D and industrial markets. Register for free on: [innovationdays.mimaki.com](http://innovationdays.mimaki.com)**

<sup>1</sup> <https://www.worldbank.org/en/news/feature/2019/09/23/costo-moda-medio-ambiente>

# Free white paper explains the implications of Brexit for machine builders in all markets

Hold Tech Files Ltd has published a new white paper, 'The implications of Brexit for machine builders in the UK, the EU and the rest of the world.' This is essential reading for machine builders, system integrators and suppliers of safety components, as well as manufacturing companies that create assemblies of machines.

The white paper looks at the full range of scenarios now the UK has left the EU, including UK machine builders serving the home market, and machine builders exporting to the UK from the EU or anywhere else.

Machinery placed on the market in Great Britain (ie England, Scotland and Wales) now has to be UKCA marked instead of being CE marked. The white paper highlights the differences between these two marking regimes and explains why Northern Ireland still uses CE marking.

In addition, the white paper discusses how 'designated' standards have replaced 'harmonised' standards for UKCA marking, and the change to 'Approved' bodies from 'Notified' bodies.

As well as the issues relating to UKCA/CE marking,

the white paper also introduces the rules of origin, which relate to customs declarations, and the new EU Regulation 2019/1020.

Download the free white paper at: <https://www.holdtechfiles.eu/links-and-resources>

Contact Derek Coulson, Hold Tech Files Ltd, T +353 899 581453 [derek@holdtechfiles.eu](mailto:derek@holdtechfiles.eu) [www.holdtechfiles.eu](http://www.holdtechfiles.eu)



## British Adhesives & Sealants Association



BASA is one of the most active technical adhesives and sealants associations in Europe, providing high value and contributing to business performance for its members.

With membership increasing each year, we provide an extensive library of information and advice on the importance of regulations and standards for the adhesives and sealants industry in the UK and Ireland. This is underpinned by active technical and business programmes and every year more than 600 staff from member companies participate in BASA activities and more than half the membership are involved with our working parties.

The aim of BASA is to be the umbrella organisation for adhesive and sealant manufacturers in the UK and Ireland, including the supply chain and service and equipment suppliers to the industry. BASA supports its members by representing and promoting the industry, offering guidance on technical and compliance issues and providing networking opportunities for members. A free Croner business helpline, REACHReady discounted membership, insurance, finance, recruitment and testing benefits and FEICA affiliation are part of your subscription each year. Members can promote their business through the BASA website, with a free company profile listing in the online directory, at exhibitions and through sponsorship at events.

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Visit the website to find out about the costs and benefits of joining the Association.

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## Carbon Activated Europe



Carbon Activated Europe is the European operations of Carbon Activated Corporation, one of the largest, global leaders in the manufacture, distribution, reactivation and service provision of activated carbon.

With a large amount of expertise backed by the company's over 50 years' of experience in activated carbon production, sales and services, Carbon Activated Europe is well positioned to be able to supply the highest quality activated carbon at competitive prices, to various industries and customers. Carbon Activated Europe have their own offices, operations and warehousing in Germany, Poland and the UK.

In terms of its range of services, Carbon Activated Europe manufactures and supplies: coconut shell activated carbon, coal activated carbon, wood activated carbon, catalytic activated carbon, impregnated activated carbon, granular activated carbon, powder activated carbon, pelletised activated carbon, site services, reactivation services and OEM manufacturing service.

The company places the utmost pride on providing high-quality, great-value products and services, ensuring it consistently meets the highest standards from manufacturing and distribution to change-outs and reactivation.

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# UNISIG – Time to rethink sharpening your gundrills



**The modern gundrill is an engineering marvel, a well-designed piece of equipment that does one thing exceptionally well. A new gundrill will produce round, straight holes with enhanced cylindricity even at its deepest points. And it does all this while simultaneously providing a fine I.D. finish and excellent tool life.**

Like all tools, gundrills wear out, typically after drilling around 1,000". While a talented operator can still drill a hole with a worn gundrill, it will more often result in a loss of hole tolerance and finish at best. As gundrills wear, they require more thrust and torque while producing more run-out and experiencing greater drift. A dull cutting edge will produce irregular chips, which in turn cause spikes in coolant pressure – sure signs that failure is imminent.

Unlike some tools, gundrills are excellent candidates for sharpening. When performed correctly, the same gundrill can be sharpened to perform as well as a new drill as many as 8 to 10 times. The only significant difference between a sharpened gundrill and a freshly produced tool from the OEM is a slight back taper, an issue only for shops that require tolerances far beyond most manufacturers' needs – all other shops can simply account for the ever-so-slightly reduced tool diameter. Otherwise, the only visible difference will be seen in the length of solid carbide on the gundrill's tip.

Even coated drills can be sharpened. Naturally, this will reveal the raw carbide on the face, but this does not impact performance. The coating will remain on the wear pads and continue to improve the gundrill's size control and ability to leave behind a finished surface. Tool life will be impacted, but the only other option is having it fully sharpened and re-coated by the OEM, which will likely be less cost-effective. Manufacturers have several options for sharpening their gundrills. For specialised gundrills, such as twin-flute tools and those intended for ultra-high-feed applications with chipbreakers below a coating, sharpening is something that only a gundrill's OEM can do. A local sharpening service will likely have the proper equipment, but this requires having redundant tooling and factoring in lead time and transportation costs.

However, both of these methods result in a loss of process intelligence. The grinding process can offer valuable information manufacturers can use to optimise their gundrilling applications. As a result, more manufacturers that use gundrills are choosing to sharpen their tools in-house.

The main risk of performing sharpening operations in-house is poorly sharpened gundrills. Without the correct tip geometry, gundrills do everything worse: size control, roundness, cylindricity, finish, chip control, straightness and depth all negatively impact workpiece quality and result in significantly diminished tool life. This will cause operators to reduce feedrates or change out tools more frequently to achieve the necessary tolerances and out of fear of catastrophic tool failure.

Modern gundrill grinding systems make it easy to avoid these consequences. For the greatest advantage, one needs the full system. That means a grinder, the appropriate gundrill fixture and equipment for calibrating and inspecting the drill tip.

A basic, high-precision manual tool grinder is used as a platform for these systems, though the length of some gundrills necessitates a reinforced table for sufficient accuracy. Choosing a fixture can be more complicated, as gundrills can be ground in two different ways. Sweep grinding leaves behind a gradual transition between elements of the tip's geometry, while facet grinding creates distinct geometry. UNISIG typically recommends

facet grinding, because the slight increase in tip strength produced by a sweep grind is outweighed by the repeatability and greater ease of inspection offered by facet grinds.

The final piece of advanced gundrill grinding systems involves a digital inspection camera capable of viewing and storing magnified images. Ideally, this will allow the user to perform measurements and identify flaws without taking the tool out of the fixture. In addition to allowing for highly precise grinding, this inspection is vital for process optimisation.

Process optimisation capability is the real added value

conferred by performing gundrill sharpening in-house. Frequent inspection allows for the maximisation of tool life.

Shops become familiar with the wear patterns created by a given application and may find they are replacing gundrills too often. If a gundrill tip has even wear across its entire cutting edge, it could easily have many hundreds of inches of life left, something that will only become apparent with repeated inspections.

In-house gundrill sharpening also ensures that shops can obtain the best tip geometry for their given applications. Whether it is uneven or unexpected wear,

or the sudden appearance of chips in the cutting edge, once a shop identifies an irregularity, they can then adjust speeds and feeds to optimise the process.

The inspection equipment even makes working with tooling OEMs easier, since shops can send them a measurement set and picture of a tool when asking for advice on how to improve the geometry.

**Further information on all machines and the complete UNISIG machine program is available at: [www.unisig.com](http://www.unisig.com) or follow the company on LinkedIn and Twitter (@UNISIG).**



UNISIG.COM

# UNISIG

## UNISIG TAKES YOUR GUNDRILLING PRODUCTION FURTHER

### Gundrilling and BTA deep hole drilling for highly productive shops.

Whether your shop needs on-center or off-center holes, specialized job shop work or fully automated production, UNISIG has a deep hole drilling solution with the accuracy and performance you need.

Take your shop's production further - learn more at [UNISIG.COM](http://UNISIG.COM).



## Machines • Tools • Automation

UNISIG machines, engineered and manufactured in the USA

# UNISIG

DEEP HOLE DRILLING SYSTEMS



## TW Metals' Laser Cutter is a 'Game Changer'

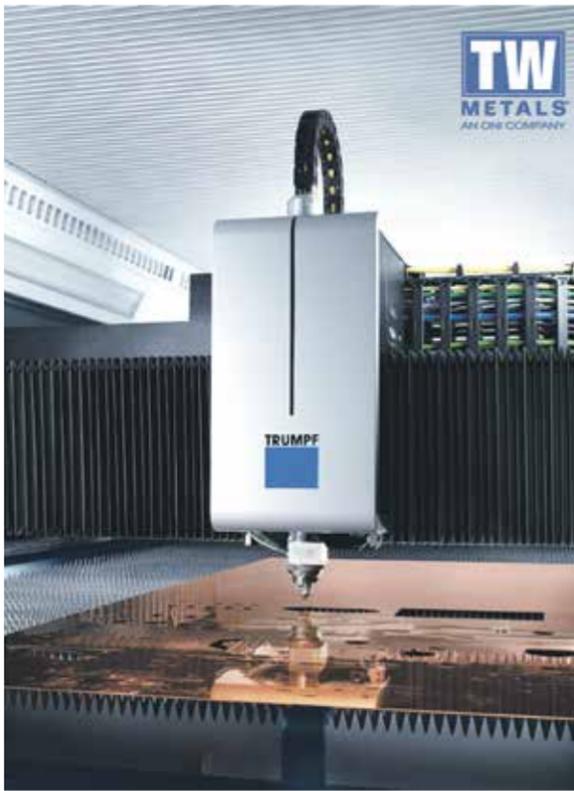
TW Metals, a global supplier of high-performance metals, has recently invested in a new TRUMPF TruLaser 3060 Fiber Laser Cutter at their Birmingham (UK) facility. Featuring a large 6m bed, the company describes the technology as a complete 'Game Changer' thanks to its ability to eliminate the time/cost issues associated with using subcontract resources.

Transforming their processing capabilities, the laser cutter has enabled the company to increase its machine availability and fulfill next-day delivery demands. What's more, their investment has paved the way for a more sustainable future, owing to the machine's ability to reduce industry waste and consumption of resources, up to 60%.

Supporting the nuclear, petrochemical, oil and gas, and automotive industries (separate unit for the aerospace industry), the Speciality Distribution unit of TW has a particular focus on materials for critical and hazardous environments. Committed to investing in the very latest technology; adding the laser cutter to its service portfolio was the next natural step for the company.

With demand for first-stage components becoming an increasingly common request, service is top priority. Mike Street, TW's Vice President for Europe – Speciality Distribution, explains, "Increasing the speed in which we can process material in-house is essential for our continued growth. Our plasma cutter had too many limitations and left a finish needing additional processing for our customers – a laser is an ideal replacement for processing our corrosion-resistant and heat-resistant nickel alloys, which extend from thin-gauge sheet up to 30mm thick. It also enables us to add to our product range, with the introduction of Stainless and Aluminium sheet, and gives us intricate cutting abilities, which the plasma lacked. Above all, it has increased the speed in which we can service our customer's needs."

David Ellis, Head of Operations – Europe, adds, "We



looked at nine machines, ultimately shortlisting two, one of which was the 10kW TruLaser Fiber Cutter. During demonstrations of the two machines, the TruLaser stood out. Certain nickel alloys are notoriously difficult to cut, but in the trials, the laser simply programmed the parts and cut them without any subsequent tweaking of parameters. From a customer service point of view, the laser is a game-changer – previously we were relying on a 3rd party subcontractor," concludes Mr. Ellis. "And most subcontractors that we used didn't share the same values as TW, in terms of service. The arrival of the laser machine has changed all that."

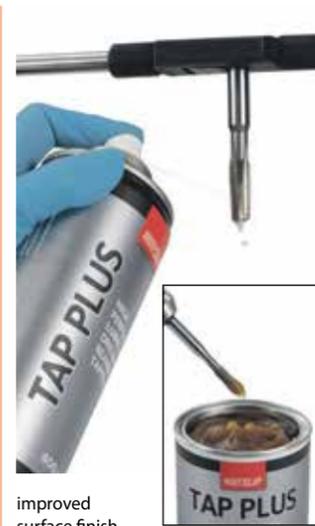
**For more information about TW Metal's laser cutting or raw material capabilities, contact their sales team on:**  
**T +44 (0)1214 113150**  
**infobirmingham@twmetals.co.uk**  
**www.twmetals.co.uk**

## New TAP PLUS range for lubricant leader Molyslip

Leading global lubricant manufacturer Molyslip has launched a new TAP PLUS range of hand applied metal cutting lubricants. The new range employs an advanced additive package to deliver over 40% improved performance over competitor products. This cutting-edge technology has been developed to withstand severe metal working operations such as drilling, reaming and tapping.

Andrew Cunningham, General Manager, Molyslip says, "The TAP PLUS range offers exceptionally high-performance – resulting in outstanding surface finish as well as significantly improved protection of tooling from wear and damage. In customer trials, the new metal cutting range has delivered outstanding performance whilst maintaining the highest levels of operator acceptance alongside minimising the environmental impact."

The performance benefits include



improved surface finish, minimised tool breakages with improved productivity resulting in reduced downtime and greater metal

removal rates. TAP PLUS can be used on a whole range of tools from reamers, taps, drills, milling cutters to dies, saw blades and broaches. It is suitable for CNC machining centres and lathes as well as milling and drilling machines. The range is available in liquid, spray and compound.

Molyslip is part of the Bishopdale Group, a private holding company for a group of industrial lubricants brands – Metalube, Molyslip and UOP. The company exports 95% of its production to over 90 countries worldwide and has offices in Manchester, Dubai, Mumbai, São Paulo and Shanghai. From its headquarters in Irlam, Manchester the company has a fully integrated lubricant manufacturing facility, including new state-of-the-art laboratories.

**Contact Andrew Cunningham,**  
**T 0161 804 4700**  
**andrew.cunningham@molyslip.co.uk**  
**www.molyslip.co.uk**

## Services for the sheet metal industry

PressCare UK Limited is a West Midlands based engineering company predominantly operating in the fields of power presses, coil handling equipment & automation systems. We offer a comprehensive range of services to the sheet metal industry including servicing, safety inspections, electrical & mechanical repairs, preventative maintenance programs, installations, commissioning, guarding solutions & CE marking. We offer a comprehensive range of ancillary equipment including tool protection (load monitors, component/misfeed detection, etc), strip lubrication, scrap removal & energy saving systems.

One of our specialities is the design & integration of machine control/safety systems, ranging from minor safety upgrades to complete rewires. From a modern multi-press line to an older ring frame machine, we can design, manufacture & integrate a new state-of-the-art control system to bring your press shop equipment into line with the latest safety standards.

We have a number of global manufacturing partners allowing us to tailor an individual process



solution to your requirements. We provide a comprehensive service from initial advice on the correct equipment for your application to installation, guarding & commissioning, warranties, after sales technical support & ongoing preventative maintenance. We also carry an extensive range of spare parts here in the UK.

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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**

**email@kirkhamengineering.co.uk**

**www.kirkhamengineering.co.uk**

## Something to shout about

Setting itself up to be in prime position for the expected manufacturing upturn, Skelmersdale subcontractor Kirkham Engineering has invested in three new multi-axis turning/milling machines in the past 12 months.

The new machines include two Citizen sliding head turning centres – an L32-X 8-axis machine and an L20-VIII machine upgraded to 25mm. Both are fitted with Citizen's LFV (Low Frequency Vibration) system to improve cutting performance and swarf control on difficult materials.

The third machine is a fixed head Nakamura AS200L MYSF twin-spindle single turret turning centre. This joins a similar AS200 that was purchased new in 2017.

Founded in 1955, Kirkham Engineering established its reputation as a specialist in the production of repetition turned parts on CNC fixed head and sliding head machines. With a focus on the oil and gas industries and petrochemical sectors it produces everything from simple to complex parts in material types from ferrous and non-ferrous metals through to exotic nickel alloys such as Duplex, Monel, Inconel, Hastelloy, Titanium and Stellite.

As well as investing in new machines, Kirkham has built up a fleet of high-quality, high technology used machines including 5 Nakamura WT250 twin-turret, twin-spindle machines, 14 Citizen sliding head machines, 6 Miyano turning centres, including twin-turret, sub-spindle machines, and two Traub TNC 42 DGY machines that came direct from Rolex in Switzerland.

**T 01695 727401**  
**www.kirkhamengineering.co.uk**

# The successful return of the PPMA Show 2021

The UK's largest processing and packaging machinery event, The PPMA Show, returned to the NEC Birmingham last year for what turned out to be another highly successful gathering.

Following the postponement of the 2020 show, from 28-30 September 2021, the leading UK event for processing and packaging machinery, robots and industrial vision continued its reputation for being one of the most anticipated events in the exhibition calendar.

Hailed as a great success by exhibitors and visitors, the event welcomed over 250 exhibitors and 1,250 brands showcasing the latest innovations in smart manufacturing, processions equipment and packaging solutions.

The show received a number of positive responses from attending exhibitors who marked the show as 'another well organised show,' and 'nothing beats being able to engage with customers and prospects face to face.' The show attracted senior representatives from both CMEs and large corporations as well as industry professionals and like-minded visitors.



Save the date for next year's event which will take place on 27-29 September 2022 at the NEC, Birmingham. This is our pick of the best exhibitors from last year's show, listed here in alphabetical order: Advanced Dynamics, Autopack, Boplan, BST Detectable, Excel Packaging Machinery Ltd, Fountain Food Machinery, Lechler, TAWI, Timbermark, Wolf Packaging & Yamaichi. Further details can be found on this page and the next page and a half.

Contact  
[www.ppmashow.co.uk](http://www.ppmashow.co.uk)

# Autopack: Industrial Packaging & Processing Machinery

Autopack provides UK based sales and service for a range of semi and fully automatic packaging machines supplying to the food, beverage, pet, chemical, personal care, home care and automotive industries.



We supply two categories of packaging machines either for flexible packaging materials or rigid containers. The flexible machines include VFFS, HFFS, sachet, pouch machines either pre-made or from film on the reel which can be tailored with zippers, spouts, and custom shapes.

On the Containers, we supply de-palletising, un-scrambling and rinsing systems for bottles, jars, tins, and containers along with the associated conveyors. We also provide a wide range of filling machines (Single head up to 12 head) capping solutions such as screw on, pilfer proof and vacuum twist capping machines.

The high-speed labellers are designed to handle self-adhesive, wet glue and hot melt.



Autopack have moved into a brand new 600m<sup>2</sup> facility with a dedicated show room, which allows customers to test their products and packaging on the equipment before ordering.

Having a production line build area and new service centre has allowed us to increase both pre and after sales customer service.

With many machines in stock, lead times can be dramatically reduced, providing the customer with much needed machinery quickly and allows for continued production and minimal downtime.

Autopack are the innovators with passion, who listens,



learns, and works with our distributors to bring our customers the most sustainable eco-friendly solutions.



Taking on the responsibility of delivering results.

Autopack supplied an innovate solution consisting of an Automatic 8 head gravity filler, 3 head Rotary capper and wraparound labeller, designed and supplied into the medical industry, resulting in the improvement of their capabilities to supply.

See link for a short video presentation on the solution provided, shown in our recently acquired testing and trials facility: <https://www.youtube.com/watch?v=syXvf9RXs5E> or [https://www.linkedin.com/posts/autopack-limited\\_visitus-testingequipment-medicalindustry-activity-6892484485762686976-Pbap](https://www.linkedin.com/posts/autopack-limited_visitus-testingequipment-medicalindustry-activity-6892484485762686976-Pbap)

"Autopack have supplied a new filling and capping line to Cell Path this year. The advice and support have been excellent right through from the initial design stage to testing, installation and commissioning. We continue to have reliable support and we are working on new projects with Autopack to continue to improve our process capabilities."  
Cell Path, Operations

T 01432 677000  
[www.auto-pack.co.uk](http://www.auto-pack.co.uk)  
Follow us on LinkedIn <https://www.linkedin.com/company/autopack-limited>



# The hungry, like the WOLF

The increased demand for home delivered ingredients boxes that include a frozen



bag of either salted or chlorinated water to maintain the freshness of chilled goods during transportation is creating another success story for Wolf Verpackungsmaschinen GmbH. This has whetted appetites and fuelled interest in a key machine from their portfolio – the **LiquidMaster**. With high seal reliability and capable of speeds up to 100 bags per minute, the **LiquidMaster** provides a unique solution for the dosing of liquids into flexible packaging.

The **LiquidMaster** can either be offered as a standalone machine or partnered with Wolf's HV Flow wrapper to provide a fully integrated system that seals the inner bag inside a paper outer bag. See an example in this short video: <https://www.youtube.com/watch?v=xtFIZKFXyHQ>

Renowned for its technological innovation, reliability, intuitive operation and low cost of ownership, the **LiquidMaster** is the primary choice of many companies worldwide.

As part of The Packaging Group of companies, Wolf UK are also able to offer machinery from HDG and FAWEMA. Please check out their video portal: <https://the-packaging-group.com/videoportal>

The Wolf UK office offers full sales and service support and welcomes the opportunity to present how they can provide the answer to all your chilled packaging needs.



Wolf Packaging UK Ltd,  
T +44 (0)121 222 5370  
[info@wolf-packaging.co.uk](mailto:info@wolf-packaging.co.uk)  
<https://fawema.com>  
<https://hdg-packaging.com>  
<https://the-packaging-group.com>  
<https://wolf-pack.de/en>

# Thermal Inkjet: The low-maintenance, high resolution printing solution

Thermal inkjet (TIJ) printers are the perfect solution for those looking to dispense with the high maintenance demands of continuous inkjet printers. Offering a high-resolution mark suitable for the fine detail of barcodes and logos as well as the variable data of date, time and batch codes, TIJ printers offer a low maintenance printing option by having a printhead integrated into every ink cartridge. Any problems with the printhead can be solved by replacing the cartridge rather than calling out a specialist service engineer.



Timbermark ID Systems is a core distributor of TIJ printers from Sojet Electronics in China and offers a range of low-cost, high-resolution printers with from one to six printheads.

The Elfin E1S printer is the smallest in the range, which uses a single remote printhead and is programmed via a touch-screen controller. It can be used to customise pre-printed labels with variable data. Using either solvent or aqueous-based inks, it can print date and batch code information onto metal, plastic and glass as well as wood and cardboard.

Timbermark has a new distribution centre in Belgium so can supply landed, duty-paid stock from its UK or EU bases.

T 0870 803 1877  
[www.timbermark.co.uk](http://www.timbermark.co.uk)  
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## Sojet's Elfin E1S printer

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FAWEMA HDG WOLF

## ALWAYS PERFECTLY PACKED

Introducing the newly re-modelled **EPS II** which offers an optimal integrated solution to the packaging of snacks products including potato crisps, corn chips, nuts, extruded snacks and all other types of snack foods at speeds in excess of 120 filled bags per minute.

### Better design, improved performance, lower costs and greater efficiency

Specifically designed with performance and ergonomics in mind, the **EPS II** utilises industry recognised components and brands throughout its manufacture. This high specification offering combines user friendliness and design simplicity to provide a performance driven snacks solution.



Wolf Packaging UK Ltd  
Innovation Centre  
1 Devon Way  
Longbridge Technology Park  
Birmingham. B31 2TS

T +44 (0)121 222 5370  
[info@wolf-packaging.co.uk](mailto:info@wolf-packaging.co.uk)  
[www.the-packaging-group.com](http://www.the-packaging-group.com)



FAWEMA  
HDG  
WOLF

## Advanced Dynamics

The Bradford-based company has been built around one simple philosophy – to be the most proactive and supportive business in the packaging industry. It has moved from simply selling labelling machines to offering complete turnkey line capabilities with a full package of service, support and technical expertise to business' operating in industries including food and beverage, medical, pharmaceutical, chemical, cosmetics and many more.

Speaking on face-to-face interactions at exhibitions such as PPMA, founder and executive chairman Malcolm Little feels that it doesn't matter how many data sheets and feature lists you study, be it for a car, a TV, or indeed a filling machine, the decision to buy will always be crystallised by our limbic brain.



That is to say, gut feel. That gut feel is influenced by two things, physical sight of the equipment, and the relationship with the person and company from which you will buy. Nowhere brings these two essential things together in razor sharp focus, quite like a face-to-face exhibition.

**T 01274 731222**  
**info@advanceddynamics.co.uk**  
**www.advanceddynamics.co.uk**

## Push-Pull Connectors for future-proof industrial applications

*Push-Pull: One technology in three connector series – developed and produced by Yamaichi Electronics*

### The standard: M12 Y-Circ M with space-saving internal Push-Pull locking mechanism

The Push-Pull version with inner locking of the M12 connector is the first M12 Push-Pull design to be implemented in an international standard (IEC 61076-2-012). The system only requires as much installation space as M12 connectors with screw locks. However, the classic screw lock is still available. Moreover, M12 sockets can be completely integrated into the end device.

### The industrial connector: Y-Con RJ45

Y-Con was developed for harsh industrial applications. Hence the new Push-Pull version is designed for IP protection class IP67/IP68/IP69K and is 100% backwards-compatible with the Y-ConCover-40-PP, which has been established for years but has been revised and slimmed down. The system still offers the well-known shock and vibration resistance, which was already implemented into the former product. Additionally, cables with M12 (Y-Circ M) or metal Push-Pull connectors (Y-Circ P) are available.

### The better all-rounder: Y-Circ P circular Push-Pull connector

The metal circular Push-Pull connector Y-Circ P with patented half-shell design is used, for



example, in measuring and test equipment. With its robust Push-Pull locking mechanism fast and easy contacting and release is possible. Thanks to the unlocking aid, even in small spaces.

**Contact Laurence Gaitskell,**  
**T +44 (0)7808 493377**  
**laurence.gaitskell@yamaichi.co.uk**  
**www.yamaichi.co.uk**  
**https://www.yamaichi.de/about/v/3-push-pull-connectors**

## The UK's leading supplier of detectable products

In today's safety and hygiene conscious world, it has never been more important to ensure your company is displaying due diligence in every area of the food supply chain.



B S Teasdale and Son Ltd are the world's original pioneers when it comes to detectable products and have been dedicated to the development and supply of detectable products after introducing the concept to the food industry over 35 years ago.

BST's unparalleled detectable products are designed to be of the highest quality, metal detectable, x-ray visible, food-safe, strong and shatter resistant with the aim of increasing food product safety and decreasing product recalls caused by foreign body contamination. A range of BST products also come in a variety of bright colours for visual identification and organisation.

From stationery to engineering, traceability to PPE, BST has what you need to increase product quality and food safety. We will work with you to develop new products to your requirements and produce a detectable, durable, dynamic solution.

Now that restrictions have eased we are able to arrange site visits. We pride ourselves on our relationships with our customers and partners and can't wait to get back to communicating face-to-face on a regular basis again.

This is why it has been so rewarding to attend the PPMA show and see old friends and meet new people to gain insight into what is needed for the next phase of improving the functionality and safety of the food industry.

**Contact**  
**T 01302 775208**  
**sales@bst-detectable.com**  
**www.bst-detectable.com**

## TAWI: Lifting equipment for all manual handling needs

The PPMA Show 2021 was a fantastic way for TAWI to round off the first year back at exhibitions. We really enjoyed greeting both old and new faces on the stand, where we showcased our trolleys, mobile vacuum lifters and hoists. We pride ourselves on maintaining our position as market leader in ergonomic handling and lifting equipment, and we'll constantly strive to help you achieve higher staff satisfaction levels, improved productivity and higher ROI with an investment into ergonomics.



Get in touch today to arrange a site visit, where we'll assess your current lifting processes and advise you about where in your workplace our solutions can be utilised. By visiting you and your team, we leave with a full understanding of your needs and your working processes, allowing us to make the best proposal for you. We provide ATEX rated and stainless-steel versions of all equipment so that it isn't limited to use in specific areas. Please join us at Intralogistex over the 29th & 30th March. We will be

on stand 302 with our range of lifting aids suitable for all industries.

**Get in touch with TAWI on: 01604 591120, email: bethany.freeman@piab.com, or visit our website at: www.tawi.com**



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standard product range offers the right nozzle for every spraying task – whether pneumatic atomizing nozzles, hollow cone nozzles, full cone nozzles, flat fan nozzles, solid stream, air nozzles or tank cleaning nozzles.

Thanks to our high product quality and innovative solutions, we are constantly developing ourselves and our markets. It is not without reason that we are the technological leader in the market for precision nozzles and nozzle systems and



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## Excel Packaging Machinery Ltd

Excel Packaging Machinery are meeting current market requirements within key UK pharmaceutical companies with automatic lines for COVID-19 testing kits which helped the NHS meet its huge demand during the global pandemic.

They also reacted to enquiries from the Vaping industry and together with their Italian partner Omas, launched their new POD filling machine for the E-liquid and CBD industries for disposable pods which started to become highly popular around the world.

As well as the development for the E-liquid, Omas has launched an advanced Modular Build Liquid Filling Line, the 'Uniflex'. The Uniflex concept allows full flexibility and



the ability to build up the line as customer requirements increase. With contract packing and multiple-product filling in mind they have designed the line with minimum change-over and the ability to fill and cap a wide range of bottles and caps.

Finally, Excel has also launched their brand-

new range of Semi-Automatic Volumetric Filling Machines, EX-FILL-S, a digital liquid filling machine. The EX-FILL-S range is ideally suited for first-time user or within a busy production environment where flexibility and accuracy are required.

Excel remains a leading supplier of packaging machinery within the UK constantly adapting to the ever-changing manufacturing market and its needs.

**Please contact our Sales Team, Call 01865 400489**  
**Email info@excel-packagingmachinery.com**  
**http://www.excel-packagingmachinery.com**  
**Linkedin https://www.linkedin.com/company/excel-packaging-machinery-ltd**

## PPMA Show Review – Top Exhibitors

### BOPLAN® UK Ltd

BOPLAN® UK Ltd are excited to be exhibiting our health & safety products at the PPMA Exhibition 2022.

We will be sharing our passion for a health and safety culture, and provision of products offering multiple layers of protections for your staff, clients, and assets.

Our industry experts and enthusiastic team both in the UK and our HQ will be focused on providing a level of interactive consultation to overcome the daily challenges faced across your business and industries.

It's a fantastic opportunity to interact with our innovative products, giving us the chance to network with health & safety officers, buyers and specifiers who oversee the protection of the day-to-

day operations and safety of dedicated personnel.

The UK operation based in Wolverhampton will be presenting its market leading products for warehousing, manufacturing, distribution, engineering facilities, public sector transport (Airports, shipping, terminals), food and beverage, automotive, aerospace, parking to name a few...

Our services offer a complete consultation, design, supply, installation, and active facilities support for the flexibility your business needs in current economic and safety driven society – as it should be.

**Contact Steven M Dunn,  
UK Business Unit Manager,  
T +44 (0)1902 824280  
s.dunn@boplan.co.uk  
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BOPLAN® designs, develops and manufactures sustainable and highly effective fall and collision protection for the most demanding environments. All our safety products have only one goal: the protection of people, vehicles, buildings and infrastructure. For the production of our security products, we exclusively use high-quality and very high-performance plastics with properties that far surpass those of traditional materials.

BOPLAN® Designs and manufactures Polymer Traffic Barriers, Handrails and other Safety Products with a focus to offer protection to people, buildings and other infrastructure

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### Fountain Food Machinery, No 1 for all your machinery needs

Fountain Food Machinery is the UK's largest stockist and suppliers of new and used Food Processing & Packaging Machinery.

Since the company's inception, over the years Fountain Food Machinery has become renowned as one of the leading UK buyers and sellers of quality used food processing and packaging machinery. For over 10 years, Fountain Food Machinery has created a growing reputation as a leading food machinery business.

Offering an abundance of services and benefits including: sales, rental, calibration, bespoke design, refurbishment and upgrades, independent haulage, spare parts and training packages.

From the company's large purpose built storage and workshop facility located in Nordelph, a small village in Norfolk, Fountain Food Machinery provides a comprehensive service for used food machinery. Fountain Food Machinery is equipped with the ability and experience



to assist with all aspects of food machinery including sales, servicing and training.

**For any further information,  
please see details below:  
sales@fountainfoodmachinery.co.uk  
www.fountainfoodmachinery.co.uk**

## Handling, Storage & Logistics

### 5 Star launches new range of custom-designed packing crates

For the past 40 years, 5 Star Cases has been manufacturing world-class flight cases that are already trusted by a vast range of industries, ensuring the safe transport of vital equipment around the world, even in the most challenging of environments, safely and securely.

Taking its four decades of experience and expertise, 5 Star is now producing a new range of custom-designed packing crates, which can be used as a cost-effective alternative when flight cases are not required, or as an added level of protection when they are.

Using the same advanced production techniques and extensive

infrastructure at its dedicated manufacturing facility in the heart of the Cambridgeshire Fens, 5 Star packing crates are constructed with strength and durability in mind. They can be used for storing and transporting products across different industries and applications, from AV, entertainment, engineering and motor racing to medical and catering equipment.

5 Star's packing crates are constructed from high quality 18mm durable Oriented Strand Board (OSB) which comes from sustainable sources. OSB panels are produced by bonding layers of various wood chips and strips with adhesives, which are then laminated together using pressure and heat to create exceptional strength and durability. Plywood and composite



**L-R: Justin Locks, Managing Director and Ingus Lasinskis, Operations Director at 5 Star**

wood blocks are other materials being used, meaning Phytosanitary Certificate is not required.

As with all its flight cases and foam inserts, 5 Star packing crates are CNC-machined for accuracy and repeatability. The crates feature specially designed sprung metal clasps to secure the individual panels to each other, making them easy to assemble and take apart. Crates can be stored flat-packed for space saving purposes and reused again and again.

**T +44 (0)1945 427000  
info@5star-cases.com  
https://5star-cases.com/crates-by-design**

### Orion MIS: Experts in automation, engineering and integration



At Orion MIS, we are independent experts in automation, engineering and integration. With over 20 years' experience, we are renowned for finding the right solution for our customers by bringing together the best software and hardware solutions to enhance the operation. This is achieved by designing, building and integrating each project as a bespoke solution, whilst still provided from



our modular designs that allow for the scope to increase in the future, should this be required. Our vision is to deliver unrivalled customer support and enhance the customer experience each time that they interact with Orion.

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# Bradshaw releases third-generation T800

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

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

a new front axle, larger wheels, new brakes, a redesigned cab, and sharp modern looks that provide operators with a market-leading level of ride, comfort and handling.

Electronic power steering replaces hydraulic steering, offering enhanced steering performance, making it easier for the vehicle to turn and manoeuvre at lower speeds. The use of electric motors over hydraulic systems eliminates the need for a pump, hoses, and hydraulic oil, helping simplify maintenance. The removal of the hydraulic pump has made the vehicle



considerable quieter, reducing vehicle noise by 20dB. Furthermore, the T800's steering advancements paves the way for an automated tow tractor!

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

From the outside, the differences between the second and third generation T800's are obvious. The mark II's curvaceous panels have been replaced with a strong and angular design, matching the design ethos of modern-day automotive design. A redesigned sturdy wrap-around bumper plate protects the vehicle against impacts and damage.

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

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

#### Efficient towing performance

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

#### Batteries

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

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

#### Electronic braking and speed control

Five individual braking systems protect tow tractor and operator. The T800 features new responsive hydraulic drum brakes to all four wheels and offers increased durability maximising productivity and reduced servicing costs. The T800 also includes electronic regenerative braking under deceleration, automatic hill hold, and automatically applied transmission parks brakes for greater safety assurance. The T800 incorporates an AC control system enabling a high level of controller setup while dynamic speed sensing prevents over-speeding in all directions.

#### Robust build

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

#### Contact

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## THE NEW BRADSHAW T800 TOW TRACTOR

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

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# Electrical testing, the future

**“Cost of ownership, for facility management firms, has always been a prime consideration in the design of our electrical testers,”** said Brendan Beaver, the Manager of Metrel UK Limited based in Epsom in Surrey. **“Our design teams have, for the last sixty years, brought innovative designs to market, not always under our name but as design sub-contractors for better known brands.”**

“However since we have been selling under our own name, Metrel has been quite disruptive in the market. Rather than using the conventional custom liquid crystal displays we have used dot matrix screens. This has allowed us to adopt a much more flexible approach to testing, whether it be PAT testing or electrical installation testing, permitting us to respond to new and changed regulations without the need for our customers to purchase prated testers.”

#### Always up to date

“Four years ago when we launched our class leading multi-function testers, MI 3152 and MI 3155, which both have full colour touch screens, electric vehicle supply equipment (EVSE) or car chargers were almost unknown, let alone a protocol for testing them both electrically and functionally. However, Metrel’s product managers and engineers trawled the standards to understand the requirement for testing and set to work building the first EVSE adaptor. Because it mimicks an electric vehicle, it gives access to the whole electrical charging system, without opening the box, giving access for electrical testing. Standards required a CD to protect the system and the choice is to use an expensive B type or combine some form of DC protection breaking the circuit at 6 mA with an A type RCD. The vast majority of EVSE manufacturers have opted for the latter, so a special DC RCD trip test had to be devised, as well as a good, repeatable stable loop test. A test sequence was written of functional test, voltage measurement, a suite of earth loop and fault current measurements and a full auto CD test on both the AC and DC breaker and loaded in the firmware of the new instruments.” “Rather than behaving like other tester manufacturer, we did not say



to early purchaser of the testers, ‘unlucky get another tester’. Instead Metrel has a policy of making instrument upgrades available FREE. And not when the user takes the tester to be calibrated but immediately it is released using the Metrel website.”

#### Familiarity saves money

Brendan continued, “Our new tester, be they multi-functional tester, PAT testers, power quality analysers or earth testers are all designed on the same firmware platform, so that when a user move from one machine to another, is familiar with not only the look and feel of the tester but also the way it works. This familiarity saves time and reduces errors. Additionally, the Metrel electrical safety management software (MESM) can handle all the testers’ results.” “Our multi-function testers do all the tests you would expect; voltage, insulation resistance, continuity, RCD testing, a high current and an enviably repeatable non-trip earth loop impedance tests, in which user have every confidence. These can be accessed through the single test menu or can be initiated through the memory management system for consistent testing regimen. The test results can be stored on-board, but more of that later.”

#### Some special tests for you

“More unusual tests pertinent to FM applications, this more than capable pair of testers can perform are functions like illumination measurement for work stations and emergency lighting using one of a pair of light meter accessories. The results can be committed to the memory for your records.”

“Another really useful function is cable tracing not just when fault finding but also on those occasions when one is expected to change an office layout at the drop of a



hat. The multifunction tester acts as the signal generator while a detector accessory traces the cable runs around the walls and floors. On this occasion the results can’t be recorded on the machine but in the real world.”

“Power quality is another suite of tests you would not expect on a multi-function tester; however Metrel let your technician watch the power drawn by a circuit, and the harmonics and the load current to improve the balance. Using the current function with a clamp you can also measure the earth leakage current by placing the lines and neutral with in the jaws, a simple and subtle method of problem solving.”

“The combination of 3-wire and stake-less earth electrode resistance measurement is extremely useful on first installing an earth stake and then for monitoring its ongoing performance to ensure there is no risk to the machine operators. I could go on and talk about other tests but I don’t want to bore you.”

#### Memory like no other

“I do want to finally to tell you about the incredible memory management system on both these touch-screen testers,” said Brendan. “It out classes any of the storage and downloading system found on any other testers. For the last twenty plus years, tester manufacturers have been trying to sell the merits of

downloading instruments. It is only now that the Metrel machines allow the operator to actually abandon their pencil!”

“You build a schematic of each job, from a complete premises electrical system, the output from one distribution board, to a single circuit that you are modifying, either on the tester itself or in the software package that comes with the tester.”

“Testing can then be done in one of two ways, Firstly it can be done a test at a time from the single test menu and the result stored against the point in the circuit for later use. Or much more powerfully, when building the schematics of the electrical system from the drawing, the electrical test manager can decide which tests they want done on what and prescribe the tests against parts of the system.”

“The operator can see the testing to be done, and do it in any order they fancy. If they can’t remember the connections to make, touching the ‘?’ on the screen will display the help diagrams so they can get ahead. Because the testers hold all the latest edition of the Wiring Regulation tables in memory, it can advise whether the test is a pass or fail. Of course, that decision is finally left with the engineer, if it is satisfactory it can be stored at the press of a single button, and a full keyboard allows notes to be made against it too. The machine shows what tests are still to be done and where there are failures to investigate further.”

“Once back in the office the tester is connected to the MESM software via a USB connection, you hit the ‘get data’ button and tell the system which IET certificate you want filled, Installation, EICR, Minor Works or EVSE.”

**“When the visionaries mooted downloading test instrument, this how they meant it to be.”**

**T 01924 245000**  
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## G-Series

Interface is pleased to announce the launch of the G-Series – a new, fully metric line of load cells and load buttons for industrial applications.

The demand for Interface products designed and manufactured in the International System of Units (SI), has been evident for several years. Interface’s new Global Standard product line, known as the G

Series, is designed for an international buyer and user.

Starting small, the series includes three load cell types – the load button, mini S-beam & threaded In-Line. With capacities ranging from 200 Newtons to 50kN. They are all fully stainless steel with an environmental protection rating of IP64 or better.

Each sensor is supplied with individual calibration certificates. So, even with their highly competitive price, you can be sure that like all Interface products, the G-Series are built to the exacting standards that Interface are world-renowned for.

**Contact**  
**https://interfaceforce.co.uk**



## New Additel 673 Advanced Digital Pressure Calibrators

Chamois Metrology Introduce the New Additel 673 Advanced Digital Pressure Calibrators to Provide a Smartphone Like Experience coupled With the Ability to Simultaneously Measure Pressure and a Transmitter or Switch for Pressures up to 60,000 psi (4,200 bar)

Chamois Metrology introduce the new ADT673 Advanced Digital Pressure Calibrators which include a smartphone like touchscreen and graphical interface for a completely new way of interfacing the calibrator. The ADT673 Advanced Digital Pressure calibrators come with a built-in barometer and are available in pressure ranges from ± 2.5 mbar to 4,200 bar and come standard with Wi-Fi and Bluetooth

wireless communications, as well as a type-C USB port and cable (RS-232 and 4-20mA output communications are optional).

Additel 673 calibrators provide an accurate pressure calibration solution for gauges, transmitters, and switches. Each calibrator contains a built-in barometer sensor which allows for the pressure reading to display in gauge pressure or absolute pressure with a simple menu selection. The ADT673 series contains HART communication capabilities and can measure in mA, or V, and supply 24V loop power. It has a dual readout display showing the pressure on one display and mA, V or a pressure switch on the other display. Each calibrator comes with an



ISO-17025 accredited certificate of calibration. It is compatible with Additel’s Link mobile app and 9502 Additel/Log II software, which enables the ability to monitor and display the real-time pressure measurements in a table or graphically.

**The Additel 673 Advanced Digital Pressure Calibrators are available now. For more information, visit: www.chamois.net or contact us for a virtual or in-person demo on: 01926 812066 or email: info@chamois.net.**

## New Table Top and Floor Mounted Scanning Electron Microscopes

Lambda Photometrics Ltd have announced it has completed a distribution partnership agreement with EmCrafts Co Ltd. South Korea’s leading Scanning Electron Microscope manufacturer. Scanning Electron Microscopy, SEM, is an essential instrument for applications including material science, biotechnology & nanotechnology.

Commenting on the agreement, Lambda Photometrics Managing Director, Ian Ramsay, said, “We welcome EmCrafts to Lambda Photometrics and are really looking forward to working together. After establishing the Sales,



Service & Applications support of a previous SEM manufacturer, we are in an excellent position to determine what works and what doesn’t. We took the decision some time ago, after listening to customer feedback, to offer a more cost-effective, open architecture Table

Top SEM as well as Floor Mounted systems, Lambda can now offer a better Table Top machine and industry leading Floor Mounted systems providing the best resolution and sample size options available. The Table Top Cube II offers the best resolution, reliability and value, the Genesis Compact Floor Mounted and the Veritas full size Large Chamber range of Scanning Electron Microscopes offer everything required of entry and mid-range floor-based systems at very competitive prices.”

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- Stainless steel with an environmental protection rating of IP64 or better.

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## NEW suurGLASS unit

Suurmond UK Limited recently attended the CHEMUK 2021 event at the NEC in Birmingham. A main feature of our booth was our NEW suurGLASS unit. suurGLASS is a standardised, universal reactor system for process development, chemical synthesis, stirring, dissolving, mixing and extraction. The custom design of the support frame means that the vessel can be changed easily while the top cover remains securely mounted to the support. The quick action clamp can be operated with one hand allowing the user

to support the vessel for easy and safe vessel changes. With our system the top cover and all the accessories connected to it can remain in place. Because our system is designed specifically for basic chemistry, we are able to offer a highly engineered solution at a lower price point than might be expected.

**Basic specification:**

- Volume reactor vessel: 1-5 litres, using the same cover plate

- Vessel materials: Type I, Class A borosilicate glass
- Drip tray material: Standard in 316L
- Stirrers: Anchor, propeller, impeller, turbine
- Temperature: Up to 200°C
- Pressure: -1 to +1 bar
- Options: A wide range of glass accessories like burette, cooler, dropping funnel, various sensors

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## DD-Scientific lead free oxygen sensors move market forward

Whilst oxygen sensors with metal lead inside currently enjoy an exemption from Restriction of Hazardous Substances (RoHS) legislation, this is due to be lifted in 2024 and from that point equipment manufacturers may no longer be able to sell new instruments using lead based technology.

Fortunately, DD-Scientific has spent considerable time and effort in developing a lead-free alternative solution delivering compliance with legislation as well as significantly enhanced performance and sensor working lifetimes. The lead-free technology from DD-Scientific works in a similar way to traditional toxic electrochemical sensors which means that OEMs do not need to develop additional complex drive circuitry. Their design makes them inherently stable over a long period of time, potentially more than 8 years and unlike lead based sensors are unaffected by use in acid gas streams.

They are available in our standard 4 Series general purpose industrial package and more recently in a miniature DceL package to enhance the portability of personal gas monitors. They are also available in the DD-Scientific 5 Series package for use in emissions monitoring and combustion gas analysis.

To learn more about our exciting new range of long life sensors, contact: [sales@ddscientific.com](mailto:sales@ddscientific.com).

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## Oil, Gas & Offshore

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## Trico's innovation in the handling, storage and dispensing of lubricants

Trico's new Spectrum Bulk Oil Storage System, the easy way to identify, store, dispense and transfer lubricants.

Trico, experts in lubrication management with over 100 years of experience, have built a total package to provide its customers with complete control over their lubrication needs. Front and centre of this package is the new Spectrum Bulk Oil Storage and Dispensing System.

The Spectrum facilitates best practice in lubricant storage. Its mobility allows you dispense lubricants close to point of use, thereby increasing efficiency and its compact footprint assists in space

saving. Its colour coding system prevents cross contamination and its integral oil usage monitoring systems prevent unforeseen shortages.

**Key features:**

- 65-gallon tanks
- Modular, expandable system
- Colour coded identifiers
- Self-closing brass dispensing valves
- Robust heavy gauge racking
- Spill containment and dispensing area
- Desiccant breathers
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## Digital Edge Subsea

Digital Edge Subsea supplies the oil and gas industry with its digital video recording system.

The company, established more than 10 years ago, has nurtured strong customer relationships that has allowed for honest customer feedback, and this has been incorporated into the development of the Version 5 Edge DVR.

Conversations continue and now Digital Edge are pleased to be able to offer further software that will help their customers to serve their clients better.

**Data Archive App**

Digital Edge will soon release a data storage and back-up solution that uses an integral app within Edge architecture, to avoid needing a 3rd party app. Edge Archive handles the transfer of data from the internal DVR drives to Client storage,

either on a NAS, a Raid, or a phased delivery to multiple external hard drives.

Being a Native app, the data transfer ensures that the quality of Live recordings are not impacted by a 3rd party program trying to access the same file that the DVR app is currently using. Ensuring recorded data integrity and quality is of the highest importance.

Archive can act as a Simple data mirror of the correct internal drive data folders, or can be used to create multiple simultaneous backups of Client Deliverables. This can be done in continuous backup or a phased approach, ie. after each dive.

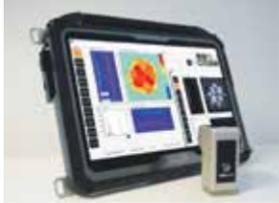
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## Test, Measurement & Monitoring

### MxTTU™ and Dolphicam2 makes non-destructive testing far simpler

Dolphicam2 represents the next generation of digital ultrasonic imaging and data capture for structural inspections. Our matrix transducers technology brings a step change in the way we 'see' through materials and structures which is easy to use. Our approach is changing the face of mission critical NDT inspections for composites, metals, and bonded structures.



For manufacturing to in-service inspection, we provide an unbeatable platform to inspect and detect damage, degradation, and defects in mission-critical assets. The platform can be set up in as little as 60 seconds and lets the operator focus on the data generated. The user-friendly system also means that technicians of all experience levels can generate analysis-ready images of materials in real time for quick decision making.

Dolphitech's latest innovation MxTTU™ combines advanced non-destructive testing technology with all the benefits of current TTU offerings. It is the only portable device in the world that offers the conclusiveness of through transmission ultrasound and the efficiency of matrix array evaluation. This means you can achieve reliable inspection of challenging materials in an easy-to-use, handheld platform allowing you to move the TRMs not the material.

So, whatever you need to inspect, from multiple-bond layers to honeycomb or foam cores, MxTTU™ and the Dolphicam2 makes non-destructive testing on complex structures and materials far simpler.

sales@dolphitech.com  
www.dolphitech.com

### Industrial Technology Company reveals new temperature controllers

Industrial temperature controller manufacturer Watlow has released its LEGACY™ SERIES panel-mount (PM) temperature controllers, which are designed to optimize performance using a simple control and menu functionality. The range includes the industry first 1/32 DIN controller, which incorporates Bluetooth technology to enable EZ-LINK™, Watlow's mobile application for setting up, monitoring and adjusting its temperature controllers.



The LEGACY controllers, which can be used in medical, clinical, analytical and food industry applications, simplify the complexity often associated with PM controllers. The controllers offer many benefits including proportional integral derivative (PID) auto-tune for fast and efficient startup, a touch-safe package for increased operator safety, SMOOTHTOUCH™ keypad to eliminate contamination points and create a better seal on the front panel, while a function key provides simple, one-touch operations of user defined, repetitive activities.

All LEGACY SERIES controllers are compatible with Watlow's EZ-LINK mobile app that connects via Bluetooth. This includes the sophisticated PM PLUS™ controller, designed to enhance user experience with an interface enabling easier set up, programming and readability, as well as the first 1/32 DIN controller.

"There was a need in the market for a simple controller for basic applications, so we developed the LEGACY SERIES to fulfill that void," said Andy Borkowski, Product Manager at Watlow. "Earlier this year, we introduced the 1/16 DIN and now we can offer the 1/32 DIN, the first of this size in the industry to incorporate Bluetooth technology."

For more information on Watlow's range of industrial temperature controllers, visit: [www.watlow.com/products/controllers](http://www.watlow.com/products/controllers)

### Precise, durable and versatile – Spectrophotometer NANOCOLOR® Advance and VISOCOLOR® Powder Pillows

MACHEREY-NAGEL's proven product range of powder pillow reagents is now also available on our new spectrophotometer NANOCOLOR® Advance. The combination of VISOCOLOR® Powder Pillows and spectrophotometer NANOCOLOR® Advance is a precise, durable and versatile match for optimal results in mobile and laboratory-based water and wastewater analysis.

**Precise:** MACHEREY-NAGEL launches the first real icon-based touch screen spectrophotometer for mobile water analysis and your daily laboratory work with the new spectrophotometer NANOCOLOR® Advance. It combines premium high-tech optics with outstanding usability. With its intuitive, icon-based menu guidance, this innovative spectrophotometer can be used like

a smartphone or tablet. The clearly arranged, high resolution 5" touch screen display makes your daily measurement routine a real pleasure. On the technical side, the NANOCOLOR® Advance impresses with clever mechanics and optics.

**Durable:** VISOCOLOR® Powder Pillows for chlorine and other parameters combine easy dosing of reagents with long-term stability. Every powder pillow contains the exact amount of reagent, which is needed for one determination. No contamination of reagents is possible.

**Easy:** VISOCOLOR® Powder Pillows are available for many different parameters, which are important in drinking water, wastewater and water analysis in general.

**Available parameters:** Ammonium, Chlorine free, Chlorine total, Iron, Nitrate, Nitrite, Ozone, Silica, Sulfate, pH and Phosphate. All VISOCOLOR® Powder Pillow parameters are preprogrammed on the NANOCOLOR® Advance. All methods have pre-stored blank values and therefore, do not require a blank measurement, which is timesaving.

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## Compact and versatile: PS216-Q200/-Q210 pull-wire switch

The Schmersal Group launches a new pull-wire switch that can be used as a signal generator to start machines, open electrically operated guard doors and gates and as a light switch in lift shafts. Key benefits of the new PS216 switch are its compact dimensions and extreme versatility, enabled thanks to high degrees of protection under EN 60529 and suitable for use in a wide range of temperatures.

Thanks to IP66 degree of protection, the PS216 pull-wire switch is protected against dust and strong water jets and thanks to IP67 degree of protection, is also protected against temporary submersion in water. The switch can be used in ambient temperatures ranging from -30°C to +80°C.

Another practical benefit is that the PS216 operates according to the 'start/stop principle' in that it remains switched

on after initial actuation and subsequent release. Only when the switch is actuated and released a second time is the latch released and the switch switched off.

The PS216 pull-wire switch comes in two versions – the Q200 has a holding force of 45N and is suitable for wire lengths of up to 50m, while the Q210 has a holding force of 70N and can be used with wires stretching up to 100m. Pulling on the pull

wire actuates the switch function in the pull-wire switch.

Other distinctive features of the PS216 include cable entry via M20 or M12 connector and six different NC/NO contact variants.

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## Engineered Fixed Systems

Gas detection is critical to the safety of those who work in dangerous conditions. But what do organisations do, when they need to monitor dangerous gases, the environment means they cannot use standard products or systems?



Often, the answer is, 'call Crowcon's engineered fixed systems (EFS) team.' And now that team is coming to more general public attention, with the launch of a new web space that explains exactly what – and how – this highly experienced team of gas hazard specialists can do to make even the harshest and most challenging environments safe to work in.

Crowcon's EFS team designs, engineers, manufactures, installs and maintains customised solutions for gas detection challenges that cannot be addressed with standard products. The team is long established, but its work is at the cutting edge of modern engineering and crosses multiple operating environments and industrial sectors.

If you would like to find out more about the engineered fixed systems and how the team might help you, you can visit their new landing page by visiting: <https://www.crowcon.com/engineered-fixed-systems>. That page includes an online contact form and links to several case studies, which show how Crowcon EFS solutions have made potentially lethal environments safe enough for use, in sectors from manufacturing and power generation to scientific research.

T +44 (0)1235 557700  
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## Molecular Property Spectrometer™ Flammable Gas Sensors

NevadaNano, the world's leading innovator in gas detection sensor technology, announced that Crowcon Detection Instruments Ltd. is using the Molecular Property Spectrometer™ (MPS™) Flammable Gas Sensors in its Gasman flammable gas detection product, making it the industry's first viable personal single-gas detector to create safer work environments.



NevadaNano offers a range of unique gas detection sensors for flammables, which deliver unprecedented reliability and accuracy. Unlike traditional sensors, the MPS sensors accurately report 0-100% LEL across 19 flammable gases with a single factory calibration and no field maintenance over their lifetime. This capability addresses the need for a flexible sensor platform suitable for complex industrial environments and offers life-saving accuracy in environments with blended combustible gases.

Integrated, real-time measurements and built-in compensation for temperature, pressure, and humidity enhance the accuracy of the MPS flammable gas sensors. Gas concentration readings are accurate across the entire environmental range, including rapid environmental transients, delivering best-in-class false-positive accuracy. The company's MPS sensors are inherently immune to drift, decay, or poison.

For more information, contact NevadaNano at: [info@nevadanano.com](mailto:info@nevadanano.com), visit: <http://nevadanano.com> or connect on LinkedIn: <https://www.linkedin.com/company/nevada-nanotech-systems-inc>. For more on Crowcon, visit: [www.crowcon.com](http://www.crowcon.com) and connect on Twitter: <https://twitter.com/Crowcon> and LinkedIn: <https://www.linkedin.com/company/crowcon-detection-instruments-ltd>

## Drives, Controls & Automation

# TF Automation support Really Useful Products with process automation solutions for over 15 years

**T**F Automation was approached by Really Useful Products (RUP) over fifteen years ago to support with automation in the company's production processes. RUP has expanded and evolved into a fully integrated lean manufacturing business now across two sites in West Yorkshire.

Really Useful Products, design, manufacture, market and distribute their own range of innovative storage solutions including plastic boxes, drawer units, dividing trays, folding boxes and racking.



The TF project design team were tasked with designing a machine to fix two handles and apply a bar code label to RUP's range of 0.14L boxes. The machine was required to align the handles in the correct way so as to enable the machine to attach a handle to each side the boxes and then apply a bar code label. The machine consists of a bowl feeder into which

the moulded handles are added, this then aligns the handles and conveys them into the machine to enable fixing to the boxes, using a rotary to access each side of the box. The boxes then have the bar code automatically applied as they exit the machine to be packed.

This machine fits seamlessly in the production process as the boxes come straight off the moulding machine, along a conveyor and into the box assembly and labelling machine, and out the other end straight on to packing and despatch.

Prior to this the handles were fitted onto the boxes manually which was extremely time consuming and a difficult and awkward job and was very labour intensive. The machine dramatically improved throughput of the finished items to keep up with increasing demand.

We have manufactured and supplied three box assembly and labelling machines to carry out this task and in recent months all three machines have been returned for refurbishment bearing in mind they have been in continuous production for around 15 years. The machines have been stripped down and cleaned and reassembled and have been returned and



are now fully reinstalled and working efficiently.

The TF design team are delighted that the machines are still performing to enable improvements in efficiency for RUP and take pride in the fact that their design and engineering solution is still valid and current several years later.

RUP has a number of Engel moulding machines producing the

various size of storage boxes and we have worked in a three-way partnership successfully over the years ensuring RUP achieve production efficiencies in a cost-effective way. To support this partnership, TF Automation has designed and supplied 'end of arm' tooling, which is attached to the robot arm to take the finished boxes out of the mould machine and convey to packing and despatch. The TF team also designed an in-mould labelling machine for RUP's rainbow desk tidy to add branding to the box.

TF continues to support RUP with their ongoing continuous improvement program to increase efficiencies in production by providing cost-effective process automation solutions.

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The pictures show the valve in development with a complex flow diagram.

At the same time, we continue to receive orders for bigger more complex systems such as the emergency gas slam-shut system. Originally developed with ball valves which failed due to cross port leakage. The RSV solved an important safety issue and has proven to be a robust and reliable solution in this low temperature critical gas safety system.

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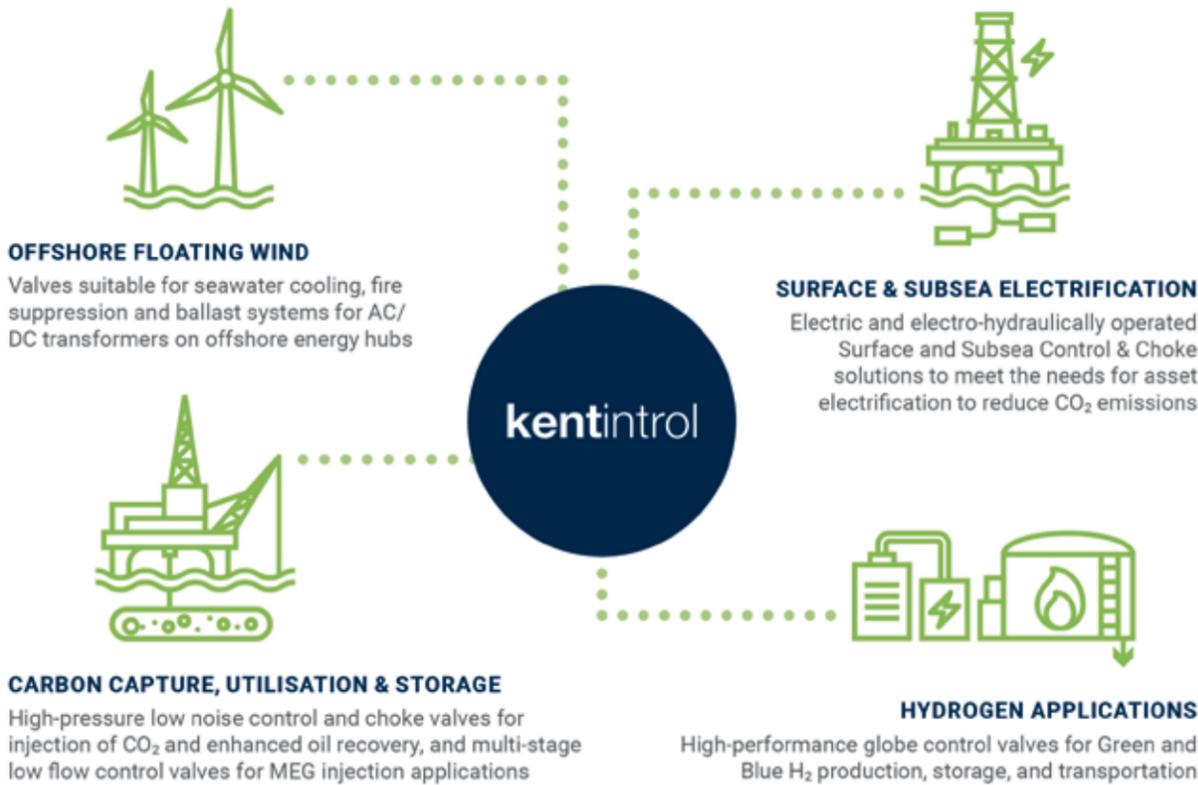
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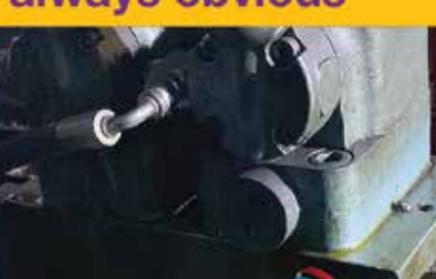


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# Flow meter and level sensor specialists



In this issue of Industrial Process News, we are delighted to announce iCenta Controls Ltd as our Precision Engineering Company of the Month.

iCenta Controls is a Wiltshire based distributor and manufacturer of flow meters, sensors and associated systems, founded by Managing Director, Paul Gentle, in 2002. iCenta's customer base ranges from industrial organisations to Process, Energy, Scientific, Medical and Research Facilities providing applications for use in most applications and environments.

iCenta Controls supply high-quality precision engineered instrumentation backed up by a dedicated, experienced, and knowledgeable team. A large range of 'off-the-shelf' products are offered and iCenta Controls work closely with each customer to design a bespoke solution for their specific application. "There are numerous flow meter suppliers and a few good independents in the market, but I genuinely feel that we have a very high-quality offering in our portfolio. Some of our suppliers offer a three-year warranty and that



brand. British manufactured, precision engineered and highly accurate, the Metri Measurements range consists of robust and highly durable Paddlewheel and Turbine Flow Meters with multiple product options for complete versatility. These are often combined with partner products such as the Fluidwell F-Series Display/Totalisers, providing cost-effective, reliable solutions.



With an extensive product portfolio and proven technical support service, iCenta offers customers quality products supported by a team of experienced engineers which are easy to use and maintain and remain accurate and reliable. Alongside flow meters, level sensors, and displays and controllers our service extends to on site commissioning and verification.

Instruments are suitable for use with a wide range of fluids including water, fuels, hydrocarbons and other liquids as well as across a variety of gases, such as Hydrogen, Oxygen, Argon.



iCenta Controls engineers ensure they understand the unique requirements of each specific application and offer services to suit. As an ISO9001:2015 accredited company, iCenta's customer support team is confident in providing the most efficient and accurate service; so much so, that if a selected product has been chosen for you by a member of the support team, iCenta Controls will guarantee the performance of this in your application, making your decision as risk free as possible.

iCenta's versatility was demonstrated when a leading airport terminal called upon its services to deliver instruments to effectively measure the efficiency of its energy centre. The products supplied now provide vital energy consumption data relating to water, mains water and wastewater usage at the energy centre, resulting in a demonstrable reduction in energy consumption whilst meeting EU CO<sub>2</sub> targets.

State-of-the-art calibration equipment allows iCenta to calibrate a wide selection of flow meter types and sizes. Calibration



fluids used include water, diesel/kerosene, alcohol, hydrocarbons, biofuels, methanol and synthetic or non-synthetic oils. Specific temperature and/or viscosity requirements can often be accommodated. Regular servicing and calibration are essential in keeping instrumentation in perfect working order whilst increasing longevity. Bookings for calibration or recalibration can be made via iCenta's website: [www.icenta.co.uk](http://www.icenta.co.uk)

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speaks volumes about quality. We also put a strong emphasis on customer service and support through the life cycle of equipment, from initial survey, specification, quotation, commissioning and after sales service to annual calibration (where possible) using our in-house calibration facility. This, combined with our in-depth knowledge and experience with instrumentation, often enables us to supply system packages, so I guess you could say we offer a holistic approach to flow instrumentation," stated Paul.

iCenta has some of the industry's finest manufacturers as partners: Vögtlin, Oval Corporation, Siemens, Fluidwell, Comac Cal, and +GF+ whose products help in providing a solution tailored to the requirements of each customer. iCenta Controls also has its own in-house manufactured Metri Measurements

