

INDUSTRY UPDATE

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- ▼ Fully conforms to the requirements of TG20:21
- ▼ Tested to EN131:2015 + A1-2019, EN131-2:2010 + A2-2017 & EN131-3:2018
- ▼ Rated to a maximum load and duty rating of 150kgs
- ▼ Galvanised steel handrail also available
- ▼ 10 year manufacturer's warranty.



LFI are a Gloucestershire based family-owned business and have over 75 years of experience manufacturing access equipment.

The TuFF Steel is a great access partner to keep you safe when you're working at height.

With its TuFF design, built for the even harshest of industrial environments, The TuFF Steel is a speciality product created for use with scaffolding and comes available in lengths up to 8m*.

With users' safety LFI's priority, we've manufactured the TuFF Steel from cold-rolled, precision-engineered steel

with a hot-dip galvanised coil - inside & out. This process guarantees a maximum strength to weight ratio and offers maximum resistance to corrosion. Its coating is more durable than any paint or epoxy alternatives - you won't need caps to hide any rust!

The TuFF Steel also comes with a non-sparking finish.

This allows you to stay safe when working in highly flammable environments. Plus, with a 10 Year manufacturer's warranty, your guaranteed toughness that lasts.

For more information, please visit britishladders.co.uk or email info@lfi-ladders.co.uk.

*The TuFF Steel ladder must be tied off in accordance with Work at Height regulations.

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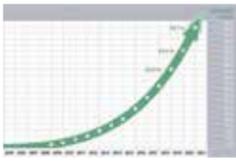
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Over 100 million PROFIBUS and PROFINET devices in use

Despite challenges brought about by the pandemic, products featuring technology from PROFIBUS & PROFINET International



(PI) have been very well accepted by users. With the total number of PROFIBUS and PROFINET products so far installed at plants has exceeded 104 million, an impressive threshold has been crossed.

On a yearly basis, PROFINET has beaten all previous records with a total of 7.3 million products placed on the market. The number of installed PROFINET devices rose by more than 22% in comparison to the previous year, reaching a combined total of 40 million. In 2020, a total of 1.7 million PROFIBUS devices were placed on the market, of which 0.8 million were used in process industry applications.

As for IO-Link, 5 million devices were supplied in 2020 – the largest number of any year so far. Even in tough times, IO-Link managed to achieve a growth rate of 31%, which proves that the technology is firmly anchored in the applications. The total number of installed IO-Link devices is now more than 21 million.

In 2020, 2.6 million PROFIsafe nodes were installed, narrowly beating out the previous year's figure. The total number of PROFIsafe nodes installed now stands at over 16 million.

Despite the constraints caused by the pandemic, PI continued to forge ahead with technology development and distribution at full speed to provide device manufacturers and users a good basis for the time when society and the economy return to business as usual or a new normal – hopefully in the foreseeable future.

www.profibusgroup.com

For all your drainage needs



Headquartered in Sleaford and serving Lincolnshire, Yorkshire and much of the East Midlands, Allerton is the premier off-mains drainage company covering sales, servicing, commissioning and repairs of all types of septic tanks, sewage treatment plants, sewage pump stations and soakaways.

As well as saving you money, the company will maintain your compliance with regulators, help you protect the environment and extend the life of your system.

Moreover, Allerton also does specialised pump stations for awkward situations. The company can accommodate specific requirements – such as if something very small, very shallow, or narrow is needed.

Although the company is making site visits, it will not enter the house or site, so you can rest assured it is COVID compliant.

To find out more, visit: www.allertonuk.com

Why Pipe Freeze is becoming more than an emergency back-up

Arctic Hayes have been market specialists in Pipe Freezing products for over 55 years and during that time, there has always been this preconceived notion that Pipe Freezer was solely used as a back-up in emergency repairs. More recently however, Arctic Hayes have invested significant resources in effectively communicating the benefits of using pipe freezer as a primary option in the plumbing and heating arsenal – and it's working.

"We have seen a dramatic increase in the number of plumbing and heating engineers (especially) who are making pipe freezer their first choice. We listened to

the end user and wider market and made pipe freezer both accessible and easy to use, in that we invested heavily in the professional production of detailed 'how-to' videos to instil greater confidence. That, coupled with our training and academy / college partnerships has seen a greater understanding of the range of benefits and use of the product(s)" – Arctic Hayes.

Arctic Hayes' Pipe Freezing Kits are suitable for freezing a wide range of pipe materials including:

- ▼ Copper
- ▼ Steel
- ▼ Lead

- ▼ Iron
- ▼ Plastic Pipes

Benefits Of Pipe Freezing Kits:

- ▼ Pipe freeze is quick and easy to use.
- ▼ Pipe freeze reduces job time by 85% on average.
- ▼ With pipe freeze, there is no need to locate the stopcock or service any valves.
- ▼ Pipe freeze reduces the potential for water spillage and property damage.

To find out more about Arctic Hayes Pipe Freezer product range or to watch the handy 'how-to' videos, visit: <https://www.arctic-hayes.com/Catalogue/Pipe-Freezing>



Environmental Science Group Limited (ESG) announces opening of new manufacturing plant in Nigeria

ESG is proud to announce the opening of a new 30,000 square ft. facility in Lagos, Nigeria that includes a production plant, offices, training centre and a laboratory. The new facility trading as Environmental Science Hygiene Limited (ESH, Nigeria) will go into full production during the second quarter of 2021.

ESG based in March, Cambridgeshire announced last year that the company was expanding and restructuring their business to move into the development, manufacture, and distribution of hygiene products.

Its subsidiary company ESH UK has now developed a number of high-quality alcohol-based Liquid, Gel and Foaming hand sanitisers that are safe and effective. The Palm Tree Foaming Hand Sanitiser is unique and different from other current products for the following reasons:

- ▼ Vegan friendly.
- ▼ The alcohol is naturally sourced.
- ▼ Sanitises and moisturises skin.
- ▼ The alcohol content is in excess of 60% as recommended by the WHO and the products conform to BS-EN1276 and BS-EN1500.

"We are very pleased to announce the opening of a new location in Lagos,



Nigeria. This is not only an opportunity to bring more jobs to the area, but it allows us to further expand our business and meet the growing needs of the African market" says Mr. Sam Awolosi, CEO of ESG.

Mrs. Olushola Adebawale, Managing Director of ESH Nigeria added "Our new facility allows for the first time in Africa the production of high premium, alcohol based foaming hand sanitisers which have not been possible until now. This is an exciting initiative for Nigeria".

For further information, please contact: Environmental Science Group Ltd, 3 Station Approach, March, Cambridgeshire PE15 8SJ
T +44 (0)1354 653 222
sales@envsciencgroup.com
www.envsciencgroup.com

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

The Dependable Choice in Drainage

In rural areas without a mains drainage system, and where septic tanks will no longer reach environmental standards, Allerton can provide the ideal solution. Trading since 1974, Allerton are leading specialists in efficient treatment systems. They pride themselves on their individual, problem solving approach to dealing with alternative means of treating and disposing of raw sewage.

The Allerton ConSept converts your existing Septic Tank or Cesspit into a fully functioning Sewage Treatment Plant.

Servicing & Maintenance on a wide range of Sewage Treatment Plant and Pump Stations by BRITISH WATER ACCREDITED ENGINEERS.

The Diamond Sewage Treatment range is suitable for either individual homes or small population applications

When Gravity Drainage is not possible choose Allerton Pumping Stations for Sewage or Dirty Water

Sometimes it's good to gloss over things

Bond It, which ranks as one of the fastest growing manufacturers of sealants, adhesives, fillers, waterproofing compounds and other building chemicals has recently launched a new High Gloss Block Sealer for enhancing and protecting concrete paving.

To compliment the Drive Alive range of surface treatments and enhancers, we have now developed a ready-to-use, high gloss, solvent based sealer to provide a clear, glossy protection barrier against oil staining and weed growth. Suitable for use on paving, blocks and patios, the sealer boasts a list of added benefits:

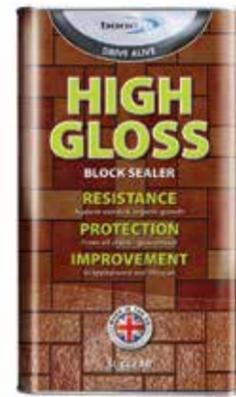
- ▼ Protects against staining of oil and water
- ▼ Resistant to chipping and peeling
- ▼ Hard wearing and durable
- ▼ Long lasting and weather resistant
- ▼ Unaffected by UV, water or ice

- ▼ Enhances colour of weathered and new paving
- ▼ Gloss finish for enriched colour

Resists weed and grass growth between joints. Once cured the sealer enhances the look of the substrate, offering a glossy enriched colour finish. It also stabilises between the sand joints which reduces weed growth meaning less interim maintenance is required.

Supplied in 5L tins, High Gloss Block Sealer is a simple application by brush, roller or squeegee, it is quick curing and can be applied all year round. Its deep penetrating properties provide a long lasting protective finish for up to 2 years and will maintain the performance life of the substrate.

T 01422 315300
www.bonditgroup.com



Are your premises COVID-secure and ready for reopening?



The Health and Safety Executive is carrying out spot checks and inspections on all types of businesses in all areas to ensure they are COVID-secure, essential with new strains and outbreaks occurring as schools and businesses start to open up.

One UK entrepreneur, Jeff Cox, felt so passionate about helping to stop the spread of COVID-19 and other common viral infections such as colds and flu, frequently spread by touching surfaces, he invented his own hands-free handle through one of his businesses in Bristol, Euro Moulding 3D Solutions.

He was then able to install the 'AV Arm Pull Handle' on corridor, toilet and kitchen doors throughout his New World Business Centre suite of serviced offices. The AV Arm Pull Handle fits common pull handles with a diameter of between 19 and 22mm, making it ideal for doors leading into and out of corridors, toilets, stairwells as well as in and out of buildings, dramatically reducing transmission of viruses and bacteria.

As the word spread, Jeff manufactured enough handles to ensure other businesses around the UK could benefit from installing his invention in their own business settings.

Jeff explains, "To my mind every responsible business should be purchasing one of these for their pull handle doors. I have deliberately kept the price as low as possible at just £13.95 ex VAT with reductions for larger quantities, as I believe this is a genuine contribution to helping with the fight against the global COVID-19 pandemic and beyond."

T 0117 965 0631
www.handsfreehandle.co.uk

Magog Industries

Established in 1964, Magog has evolved to offer full design, manufacture and supply of processing, mixing and conveying screw and barrels for extrusion, injection moulding, ISBM and blow moulding, along with fabrication services for machine parts.



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 PTFE or Fluoropolymers.

"We've been focussing on looking at measures, particularly surface treatment for abrasion and potential corrosion to increase resilience and longevity specifically in ceramic and chrome seal coatings for demanding applications such as blown film extrusion." John explained,

T 01920 465201
enquiries@magog.co.uk
www.magog.co.uk

"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 per cent density with hardness of 62 to 72 HRC. Through hardened D2 toolsteel and high-performance alloys such as

Advansor launches new energy efficient refrigeration rack with unique split design

Advansor newest product, ValuePack II, is designed for split in 3 on site. It can even fit into elevators and with its narrow design of only 800 mm it can pass through regular doors. Even with a nominal effect of up to 136 kW, the core module only takes up the same floor space as a euro pallet.

Latest technologies for higher energy savings - also in warm climate ValuePack II includes the latest technologies. The low-pressure ejector boosts the capacity up to +30% with the same compressors, which makes ValuePack II very energy efficient.

"It is the first time the market is offered this. Ejectors gives higher efficiency, but until now it has only been available on larger racks with a much higher complexity. On the ValuePack II we have succeeded in making ejectors low cost and easy to work with combined with permanent magnet motor and cylinder

unloading technology", Kenneth Bank Madsen, Technical director at Advansor, states.

The lift of the ejector gives an up to 7 bar higher suction. This combined with the high-efficient compressors and low part load gives an energy saving of approximately 15 % in a warm climate.

Find specifications and prices
www.advansor.com/valuepack_ii

Contact sales@advansor.com for a quote



Dealing with Mud at Site Exits



Construction, quarrying and landfill sites are legally required to take measures to prevent mud and contaminants being tracked out onto the roads around them. If they don't comply they can be shut down.

Ecogreen Plant Hire's DriveOn V-Tech waterless wheel cleaning system is a raised grid device, that vehicles exiting such sites cross to remove mud. It needs no water, power or supervision, and no ancillary equipment hires such as lances, bowsers, pumps or bunds. It can't break down, dry out or freeze up. It can't contaminate water courses, or generate any emissions and it definitely can't create more mud, and leave you with more of a mess than you started with.

Unlike other dry, raised grid types its unique construction means that it has up to 60% less surface area for displaced mud to sit on - the transverse bars are just 30mm wide (but will support up to 50 tonnes) and they are spaced at 200mm. So, there is much more vibration and tyre flex and the mud that is stripped off falls through and not on.

All of which means that you can comply with planning requirements, keep your neighbours happy, save money on road sweeper hires and make less impact on the environment.

www.ecogreenplanthire.co.uk



MAGOG

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Screws, Barrels and Precision Components for the Plastics and Rubber Industries

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To discover more about our products and services, contact us:

Magog Industries Ltd,
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Process Experience Manufacturing Expertise Engineering Excellence

Waterless Wheel Cleaning System

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The DriveOn V-Tech Dry Wheel Cleaning System saves your time and money

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- Keeps mud dust and contaminants off the roads
- Reduces the need for road sweepers
- Suitable for construction, landfills or quarries
- No breakdowns or freezing in winter
- Significant, proven environmental benefits
- Available for hire or purchase

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Three is a magic number for Subcon 2021



Subcon is the UK's premier subcontract manufacturing supply chain show. With an impressive and vast history, for over 40 years' the show has continued to deliver high-quality content and hosts a variety of UK and international exhibitors.

Providing a hub of resources and information, this is a must-see event that provides unmatched opportunities to meet and source new solutions from the very best of British manufacturing, and world-class suppliers from over 20 countries.

Versatile and varied manufacturing professionals are in attendance from all Industry sectors, to obtain new and existing suppliers and develop new

strategic manufacturing partnerships.

This year, Subcon will be co-located with The Engineer Expo and the Manufacturing Management Show. Creating a unique partnership event, together this collaboration will deliver a unique and relevant event for the manufacturing and engineering industry. Bringing the best suppliers, latest innovations and practical advice together in one not-to-miss show to help build new partnerships and optimise business strategies. All visitors will benefit from free access to all three events.

Make sure you add Subcon to your calendar, at the Birmingham NEC Tuesday 14th September – Thursday 16th September 2021.

For any further information, please see the details below.

www.subconshow.co.uk

Lapping Services Ltd

Our business is based on the ethics of first-class quality, value, service, and our firm belief in British engineering.

We have been offering sub contract lapping and polishing services to our clients for over 35 years. When you work with us, we promise to provide the fastest possible delivery, meet your production schedules and work with the capabilities of our equipment.

Lapping Services Ltd offers the well-established sub contract lapping and polishing services that our clients have come to expect and which have served the marketplace for over 35 years.

Our aim is to continue our expansion within this specialist business sector, making available a range of processing options at a competitive price. Our excellent facilities, unrivalled expertise and flexibility allow us to cater to our client's requests quickly and easily.

Our clients benefit from our experience by receiving time and cost-saving services, including;



▼ Four-way double-sided lapping as our machines are designed and built to constantly achieve extreme tolerances for flatness, parallelism, and thickness.

▼ High speed single-sided lapping, giving high throughput and retaining sub-micron flatness on many products

▼ Single-sided diamond polishing, single and double-sided pad polishing

Contact
www.lapping-services.co.uk

MIE Solutions UK



and worldwide. MIE's portfolio of products and services also expands into shop floor data capture, web based applications, and implementation support. MIE Barcoding, MIE Kiosk, and MIE Warehouse are now accompanied by two additional forms of SFDC - MIE Kiosk Lite and MIE Field Service, all of which are designed for different manufacturing environments and will be on show during Subcon 2021.

MIE Solutions UK are exhibiting at Subcon 2021 at the NEC in Birmingham, which spans from 14th - 16th September. The company, who are based in Redditch, have been providing ERP software for over 30 years which has been specifically designed for subcontractors and manufacturers.

The show will provide a platform for the company to showcase MIE Trak Pro ERP - a complete, quote-to-finance solution that is used by thousands of users throughout the UK

Recent enhancements also include MIE Web Dashboards - a web based version of the popular Dashboard and QuickView report modules.

If you would like to find out more, MIE Solutions will be located on stand A31, or they can be contacted directly.

Contact
T 01527576 444
sales@mie-solutions.co.uk

Desman Engineering

“Strive for perfection in everything you do. Take the best that exists and make it better. When it does not exist, design it” - Sir Henry Royce

Desman Engineering Operates from its site in Blidworth, Nottinghamshire, We are dedicated to providing our customers with products that conform in all respects to their expectations and a service that meets the requirements of AS9100D and EN ISO9001:2008.

we carry out large sub-contract CNC machining and general precision engineering. As an example, we can vertically turn components up to of 2.4m Diameter but we also have a wide range of other machine tools.

Our 5-axis machine is a wonderful piece of equipment and is complemented with a range of other turning, milling and boring equipment. We have manufactured components for different sectors including automotive, Rail, Marine and aerospace. This has given us the experience to machine



materials from aluminium to Nimonic, super duplex and Titanium.

Once manufactured we have a temperature-controlled inspection facility equipped with a range of equipment including a LK CMM with a 2000mm table for final component verification. Skilled personnel are able to offer a full FAIR service as required by our customers.

T 01623 499965
www.desman-engineering.com

3D Rapid print

Hello from all of us at 3D Rapid Print. We are a one stop shop 3D printing and scanning bureau with links to several other companies so that we cover the full range of 3D printing technologies and 3D Scanning.

We specialise in FDM with our fully loaded Fortus 450mc that can print in ABS, ASA, Polycarbonate, Nylon CF and ULTEM. We also have Polyjet, MJF, SLS and SLA technologies to print with.

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We're looking forward to exhibiting at Subcon21 and meeting new clients face to face again. Visit us on stand E68. If you would like to book an appointment during the event please call Adrian on 07798 731011.



Services offered:

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Contact
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Endless possibilities with Watlow

Industry Update is proud to announce that Watlow® has been selected as the recipient of our Industry Excellence Award.



Commemorated as an industry leader, Watlow provide a wealth of knowledge and experience to numerous industries. Alongside designing and manufacturing industrial heaters, temperature sensors, controllers, supporting software and all the components of a thermal system, Watlow also partners with its customers to optimise thermal performance, decrease design time and improve efficiency of their products and applications.

Since its establishment in 1922, Watlow has grown considerably. The company was founded by Louis Destoge Sr., who originally started Watlow to manufacture electric heating elements for the shoe industry. Based in St. Louis, Missouri, Watlow is named after the reference 'low-watt' heaters which is used to replace steam heat, and the company went on to produce its first heaters later that year.

Over the years, Watlow has built an empire serving multiple industry applications such as semiconductor processing, environmental chambers, environmentally-friendly energy



solutions, lifesaving medical and clinical equipment diesel emissions and food service equipment. The company now has over 2,500 employees working in nine manufacturing facilities and three technology centres based in America, Mexico, Europe and Asia.

Watlow's broad experience spans across many applications and allows the company to solve many challenging thermal problems. It leverages its own experience to solve new challenges and this enables the company to have a broad standard product offering, resulting in rapid prototyping and fast cycles of learning. Watlow take a systems view versus trying to optimize just one component and this is why customers come to Watlow because they understand the regulatory environment its clients must operate in. As an example, when talking to a new customer, Watlow do not ask what type of heater, sensor or controller they are interested in. Instead, the company first explores their strategy for dealing with challenges at the device level.

In recent events, Watlow was on hand to aid a leading medical device company through a global technology summit. Watlow was asked to help share its advanced capabilities and jointly discuss technology roadmaps. Watlow's global footprint allows for them to support customers globally by having in-person representation to answer technical



questions as well as product demonstrations in all five locations. As the summit happened concurrently across two locations in Europe, two in America and one in Asia, the appreciation for Watlow's sustainable sales channels approach was applauded.

Earlier this year, Watlow launched a new product called the New 1/32 DIN PM LEGACY™ Controller.



These are the first in the market to incorporate Bluetooth® wireless technology. Bluetooth® is used to enable EZ-LINK™, which is Watlow's mobile app for setting up, monitoring and adjusting PM PLUS™ and PM LEGACY controllers. The product comes off the back of the introduction of its 1/16 DIN version which is part of the umbrella product line created for ease of use and simplicity for its customers. The LEGACY SERIES controllers feature a SMOOTH-TOUCH™ keypad which eliminates contamination points on the front of the controller, creating a better seal on the front panel as well as a function key for simple, one-touch operating of user-defined, repetitive activities.

Continuing Watlow's recent progression, in February, Tincum, L.P. and affiliated funds managed by Tincum Incorporated announced its acquisition of controlled interest in Watlow. The transaction with Tincum will preserve Watlow's legacy while accelerating investments to supporting growth with its global customers. This will coincide and run adjacent to Watlow's future plans which include international expansion, key technology advancements driven by Industry 4.0, the addition of strategic products and capabilities through acquisitions and enhancement of operating capabilities and capacity.



The COVID-19 pandemic has affected all businesses across the UK, however the damage has not all been equal and Watlow has managed to find a way of making it work to suit its employees and the industry. Watlow has placed many of its employees in a remote setting, having many of its work fleet still working from their homes. The company has maintained the highest safety standards, and despite facing uncertain times, Watlow was able to obtain CRC, Inc. of Santa Clara, CA, USA, maintaining vital support for its semiconductor business. Its recent partnership with Tincum, also saw Watlow incorporate some organisational changes to adapt to the current times.

In light of COVID-19, some of Watlow's products have reigned supreme within the medical industry. The ULTRAMIC advanced ceramic heaters is a product of Watlow that has been used by a medical device manufacturer to help treat COVID-19 patients, and has been a raving success. The

treatment is proving effective in aiding patients steer clear of mechanical ventilators, this resulting in a faster recovery. This recent success only echoes the incremental past 12 months which has seen Watlow increase many of its previous existing sales records.



Looking towards the future, Watlow will look to improve and capitalise on its already sterling start to the year. The company will be continuing its strong relationships with both existing and potential customer bases but will also leverage its capabilities in new areas such as Industry 4.0. Watlow's journey to become an industrial technology company is at the forefront of the company's overall growth plan. Its focus for the future is a strategic one as it looks to delve deeper into the semiconductor, medical/clinical/analytical industries as well as energy and environmental technologies, including medium voltage and energy storage.

Relative to Watlow's previous years forecast, its dedication to see continuous growth and development is crucial. The next 12 months bring excitement, but carries an extreme importance to ensure an impactful increase in sales occurs. As Watlow continue its outstanding work within Europe, America and Asia, the quest to be the best is near completion.

If you would like any further information on Watlow's services and products, please see below.

watlowleads@watlowleads.com
www.watlow.com



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.

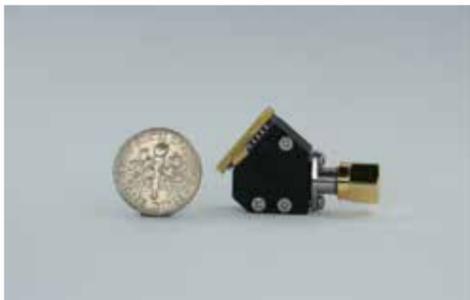
The demand for Interface products designed and manufactured in the International System of Units (SI), has been evident for several years. Interface's new Global Standard product line, known as the G Series, is designed for an international buyer and user.

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.

<https://interfaceforce.co.uk>

Ibsen Photonics Launches PEBBLE VIS-NIR – Ultra Compact Spectrometer Modules for Instrument Integrators



Ibsen's PEBBLE VIS-NIR spectrometer is an addition to the PEBBLE platform of mini spectrometers with a form factor of only 20mm x 15mm x 8mm, high resolution and sensitivity, as well as environmental ruggedness. PEBBLE VIS-NIR is based on the same proven diffraction grating technology used in all other Ibsen spectrometers. This ensures that PEBBLE can be manufactured in high quantities with small unit-to-unit performance variation.

The core of PEBBLE is a highly effective transmission grating manufactured in-house at Ibsen. Furthermore, PEBBLE utilizes a fast and very sensitive CMOS detector array with 256 pixels. When combined with a large numerical aperture of 0.22 PEBBLE provides amazingly high sensitivity for such a small spectrometer.

A key benefit of using a transmission grating inside PEBBLE is a high resolution of 8nm across the full 500–1100nm wavelength range. Furthermore, the pure transmission-based optics inside PEBBLE ensures a very good thermal stability, and make it ideal for real time measurements in the field.

PEBBLE VIS-NIR offers a cost-effective and low-risk solution for integrators of handheld and portable multi-spectral instruments for biophotonics, medical, food, and precision agriculture applications based on fluorescence or absorbance measurements.

For more information, visit www.ibsen.com/PEBBLE-VIS-NIR

DELTRON: Compact, robust, accurate and repeatable shop floor CMM

Vision Engineering has moved shop floor CMM design forward with the new DELTRON, featuring a delta mechanism, and delivering a unique combination of compact dimensions, accurate measurement and ease of use.

Designed for robustness, reliability and ease of use, the new Co-ordinate Measurement Machine (CMM), DELTRON is a robust shop floor hardened non-Cartesian CMM with an innovative delta robotic mechanism, supporting a high level of measurement accuracy.

DELTRON will run 24/7, making it ideal whether it is positioned next to a machine tool, in a manufacturing cell, or used in a dedicated inspection area.

DELTRON features fully sealed recirculating bearings, delivering four key benefits – no dirt ingress, no gearbox,

no compressed air requirement and smooth, fast operation. Together these deliver exceptional accuracy, simplicity and reliability. Scale resolution of 0.1µm and volumetric accuracy of (2.6+0.4L/100) µm combined with weight-saving carbon fibre arms deliver a high level of confidence in the measurement output – speed and accuracy you can rely on.

Güven Türemen, Vision Engineering's Group Commercial Metrology Manager, said, "We are delighted in adding Deltron to our growing metrology product range, we know how important it is to have a robust and easy to use CMM in the heart of our machine shop to ensure consistent quality and compliance. Our emphasis has always been on ergonomics and ease of use in a production environment."

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A Bond that can never be broken

Industry Update is proud to announce that Bond It Group has been selected as our Chemical Building Manufacturer Company of the Month.

In 2002, Seal It Services Ltd formed as a partnership between David Moore and Laydex to purchase the assets of Bond It. Since then, the company has seen on average, year on year double digit growth. Seven years ago, Laydex sold its shares to Astral Ltd making Seal It Services a multi-national group. Seal It Services Inc formed as a wholly owned subsidiary of Bond It UK in 2017.

As one of the leading suppliers of high-performance building chemicals and sealants to the trade industry, Bond It Group offers an impressive range of over 600 product lines. All of which is manufactured in the UK and in the USA. The company's UK manufacturing facility is based in Elland, West Yorkshire while the USA branch resides in Sandford, North Carolina.

Bond It Group manufacture products for the building and construction industry and offer a diverse product portfolio. We had the chance to speak with Bond It Group CEO, David Moore who explained, "We supply an array of markets and trades and our expertise cover both the public and the private sector across the spectrum of



building markets including commercial, industrial, leisure, residential, educational and health."

Whether it be a specific architectural project or working with the local authorities, Bond It Group is well-equipped to assist, and manufactures its own-brand products. Quality is continually optimised, supported by its global brand presence by professionals and DIY enthusiasts. "We never compromise on quality." States David.



"Bond It Group identify as manufacturers of building chemicals and our product range has grown over time. We now encompass a multitude of products from construction adhesives to waterproofing compounds and landscaping. We are synonymous with quality and have recognised brand names such as Gripbond, Rescue Tape,



Mega Foam, Pro range, Glue Monsters and Superheros, to name a few." Said David.

As all its products are made in the UK, stock availability is good, and its products can always be sold at competitive prices.

As Bond It Group look ahead, it seems evident that there is a growing market in Hybrid Technology. A benefit of hybrids is they are free from solvents, isocyanates and silicones and is therefore non-hazardous and safe. "With hybrid products, new applications can be replicated on building sites. The launch of EasiSeal was a revolutionary step for us into the roofing sector. Off this success, we then developed the new Seal It One Coat Roof Seal which we launched in 2019." Mentions David.

Noticing evolving concerns within the industry, Bond It Group provides a greater understanding of environmental

issues and current legislation influences. From product development to recycling within the manufacturing processes; reducing carbon footprint is paramount.

With its dominating global presence, the company has now successfully launched the Bond It Group brand in North America. As for the future, it will continue to develop its manufacturing capacity both in the UK and the USA. It will look to introduce at least one new product to its range each quarter as David mentions, "We believe we are well placed within the industry to further build upon and strengthen our partnership with our existing customer base, as we look to continually promote our British products in worldwide markets."

For more information, see details below.
T 01422 315 300
salesuk@bonditgroup.com
www.bonditgroup.com

Commitment to Excellence

Sanitation Specialists

In this issue of Industry Update we have selected Lee Sanitation Ltd as the recipient of our Commitment to Excellence Award.

Lee Sanitation Ltd has over 30 years' experience in the sanitation business, originally starting in the Leisure Marine

market, the company has expanded significantly, branching into Sewage Pumping Installations and Commercial, Domestic and Industrial Equipment.

Close to major transport links, Lee Sanitation Ltd's warehouse is 6,500 ft² and holds an extensive and

vast range of products. Lee Sanitation Ltd has broadened their solutions and offer an impressive selection of sanitation solutions adaptable across a multitude of different industries including marine, automotive, welfare, leisure and many more. Some of the facilities that Lee Sanitation Ltd provides



sanitation solutions for, ranges from mobile vehicle and canal boats to horse boxes, cabins and other portable facilities.

MARINE ONE STOP PUMP SHOP Only LeeSan truly specialise in toilets

Incineration toilet adapted for when nature calls
T: 01295 770000

The 'LeeSan' brand of high quality products is available from the company's stock and Lee Sanitation ensures that it keeps a large range of spare parts and accessories from all major manufacturers. In addition, the company also maintains an impressive range available via its LeeSan online store, which is the largest single source of marine sanitation equipment, parts, and service kits on the internet. Many of the products on the website also display recommended accessories, which have been carefully selected to enhance the performance and longevity of a customer's sanitation equipment.

Since its inception, Lee Sanitation Ltd has built a reputable, solid reputation for its fast, efficient and friendly service, positioning them as the number one choice for sanitation solutions for a growing number of industries. Not only showcasing its strength and expertise through its product range, Lee Sanitation Ltd also maintains highly experienced staff who provide unrivalled knowledge for design, manufacturing, technical support and maintenance.

Lee Sanitation Ltd is proud to be members of British Marine Federation and its staff belong to the BMF Council, BMF Environmental committee and BMF Thames Valley committee and they are active members of The Yacht Harbour Association.

The Green Blue is the environment programme of the BMF and RYA, which promotes sustainable boating across the UK marine leisure sector. Leading the way in helping to make sustainable boating easy and affordable, the programme enhances energy efficiency, provides waste minimisation and pollution prevention. The Green Blue works with a broad scope of boating organisations, that are committed to reducing the environmental impact from their products and services, day to day operations and working practices. The company is also an Achilles registered supplier and members of the UK Harbour Masters Association.

T +44 (0)1295 770000
www.leesan.com

ECO-FRIENDLY WORKWEAR HARNESSES LIFELONG DURABILITY

Engel Workwear is a premium quality workwear brand that produces specialist ranges for different industries offering the best comfort, durability and protection for its wearers. The company constantly adapts to the demands of the market specialising in supplying work clothing and PPE to companies in all types of trade, construction, rail, offshore and many other industrial sectors – from individual businesses to some of Europe’s largest companies.

The family-run company is part of the Danish company F. Engel K/S and was founded in 1927 by Carl J Engel Senior. To this day the company is still owned and run by the 4th generation of the Engel family. Headquartered in southern Denmark which oversees 140 of its employees,



F. Engel also has two factories in Lithuania employing 570 specially trained machinists.

Always priding itself on the quality of its clothing, Engel’s garments often outlast and outperform those of its competitors, leading to an overall cost-effective outcome for its clients.

In recent developments, Engel Workwear has launched a new sustainable Hi-Visibility range, 50% of each item of clothing being made with ‘Repreve’ which is a regenerated polyester material produced from recycled plastic bottles; this is combined with 40% cotton and 10% standard polyester to produce a cool to wear, durable fabric.

Called ‘Safety-Light’ the collection is in line with the company’s policy to help the environment where ever possible and is therefore an added incentive to buyers who also wish to support environmentally- friendly initiatives.

Another collection line which is being marketed in the UK is the company’s High-Vis ‘Super Stretch’ range which provides flexibility with each movement of the body; elastic fibres are woven into a polyester and cotton mix resulting in an extremely comfortable yet strong stretching material that retains its original fit in any workplace situation.



The ‘Super-Stretch’ collection is also being offered during 2021 in a version incorporating the added environmental and sustainable safety benefits of ‘Repreve’ with an additional choice of waterproof garments.

With the company’s tagline ‘Passion for Work’ playing a key role in its developments, recently Engel Workwear has installed a new robot autostore warehouse. This has made the company even more efficient and faster in getting orders sent out the same day as they are placed.

Firmly established as a leading designer and manufacturer of sustainable high-quality and

value-for-money workwear in Europe, with its current extensive choice of clothing to suit any task and further new ranges on the horizon that will predominantly be based around the highly successful ‘Repreve’ quality collection, the company’s future looks very bright indeed.

For more information on Engel Workwear and its products, please see the details below.

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

<https://youtu.be/nc2se7xKKIE>



Access control for going back to the office environment

As we look to a safe transition back to the workplace it makes sense to give your workforce confidence that suitable measures and systems are in place to make spaces comfortable and safe as is reasonably possible.

Entrance to work places may well use manual systems for signing in/ temperature taking and registration, these are often labour intensive, inconsistent and slow.

The IR37 Ganymede is able to log to the second each employee and visitor as they enter the workplace, check ID (card &/or face), take a temperature (0.3 Deg C accuracy) and scan a QR/RFID/NFC or Barcode ID badge. In-built blue tooth app enables a “day badge” to be

printed at point of entry. Totally contact free operation. On-premise software supplied FOC. Fully GDPR compliant. 2 year warranty.

Full track and trace capability. Can be linked to existing access controls or HR or payroll systems through SDK. In built contact closure for gate/turnstile connectivity.

For more information, visit our website www.ir37.co.uk or email info@mblc.consulting or call Mike direct on 07766 687363.



Reduce risk of lightning hazards at work with a lightning warning system

Lightning strikes the ground in the UK around 300,000 times a year, putting at risk those who are often outdoors in exposed, unsheltered locations.

Although there is no foolproof protection from lightning, measures can be taken to reduce the risk of getting struck. With this in mind, meteorological equipment specialist Biral is offering its BTD-200 self-contained, standalone lightning warning system so that employers can take precautions to prevent exposure to lightning and ensure their workers’ safety.

The lightning warning system is a modular system and is design to operate out-of-the-box. It is also expandable as requirements grow or change. The essential system comprises of a lightning detector which is placed outside, while a PC located indoors

runs the supplied Lightning Works software.

Users view the lightning in real-time on a map of the local area while displaying the urgent lightning alarm levels. The BTD-200 can be connected directly to an appropriately sized warning sounder if required.



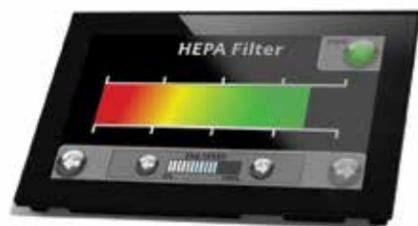
For more information, call Biral on +44 (0)1275 847787 or email: info@lightningearlywarning.com or visit our dedicated website at: www.lightningearlywarning.com

Hospital Air Disinfection System | Airborne Infection Control | PanelPilotACE

Compromised air quality in hospitals can increase the severity of infections in patients and negatively impact staff. There is no overstating the importance of air quality in hospitals and medical centres as these facilities need to be sterile and clean to allow patients to recover and employees to work safely.

According to research, over 35% of infections can be transmitted through the air. These types of infections can leave particles suspended in the air for extended periods of time. Scientific Air Management, a Florida-based company, created the S400 to reduce these transmissions in critical areas. The S400 is a mobile air disinfection unit designed to remove airborne contaminants, pathogens, and odours of all types.

The S400 unit utilises Lascar Electronics’ SGD 43-A programmable TFT panel meter. Scientific Air Management chose the SGD 43-A display primarily for its programmable interface and ease of use. The free configuration software supplied with the panel meter enabled Scientific Air Management to design and create a multi-page user interface.



The design utilized two PWM outputs to control fan speed and illumination of the UV bulbs. The SGD 43-A also displays the HEPA filter runtime to ease maintenance and ensure efficient operation.

Lascar recently designed and manufactured a PCB that eases the assembly process and greatly speeds up the production time of the completed assembly. Lascar Electronics was proud to help Scientific Air Management meet the high demand and supply hospitals with the S400 during the COVID19 crisis.

Contact Us
T +44 (0)1794 884567
sales@lascar.co.uk

Remsdaq

Remsdaq has launched a new range of facial recognition camera terminals with artificial intelligence functions for body temperature and face mask screening.

The camera terminals are ideal for organisations looking to make their buildings COVID-secure using contactless technologies and can measure temperatures to within +/- 0.3°C. They can be used as a stand-alone screening solution or installed as part of a building’s access control system using a built-in Wiegand interface.

The camera terminals can be stand mounted, wall mounted or fitted to an entrance turnstile and are easy to set-up. Typical applications include screening visitors, patients, students, customers, employees and subcontractors who want to



enter a building or areas inside where people mix and need to be protected.

The camera terminals store up to 25,000 events and can connect to local IP networks. A built-in speaker provides local audio alerts and remote alarms can be broadcast over a network or a mobile phone

application. The software supports up to 30,000 face profiles and offers a range of reports including ‘Track and Trace’. Go/No Go alarms can be set using the supplied configuration package and the mask screening feature can be toggled on or off as required.

“Our new camera terminals have an important role to play in our fight against Coronavirus,” commented David Ross, UK Business Development Manager for Remsdaq. “The devices are not only important for buildings with critical workers during lockdown. They can help businesses to reopen safely as lockdowns ease.”

The camera terminals can be bought online from Remsdaq’s new EntroStore ecommerce website (www.entrostore.com) alongside other contactless access control solutions.

Smart detection for protection

In this issue of Industry Update we have chosen to select Intelliclad as our fire detection and alert systems Company of the Month for its smart, cost-effective alternative to the waking watch.

With no other product available on the market that provides such a high level of fire detection within the combustible external façade, Intelliclad's intelligent fire detection and alarm system is the most superior product on the market.

Following the horrific Grenfell tower disaster in 2017, Intelliclad became an establishment with the mission to provide a superior level of safety to residents living in buildings with a combustible external façade at a significantly lower cost. Working as an overall safety package, Intelliclad developed a fire detection and alert system that is up to current standards and ensures internal and external fires are detected quickly and accurately.

Based in Cannock, Staffordshire, Intelliclad's services spread throughout the UK to all industries, providing valuable time to achieve



the safe evacuation of residents nationwide. Intelliclad is a wireless system certified to EN54-25 which is designed to be integrated into the external façade of high-risk buildings where combustible materials are present.

Using cloud-based technology, it provides both the fire service and the residents with valuable information on the location of the fire and its relative spread, across the building.

The system uses smart sensors which are fitted within the cladded system and then connected to a control system so that in the event of a fire, an alert can be sent to residents via a smartphone app. An alert is

also sent to the main alarm system within the building, in compliance with BS 5839-1 L5. Each sensor is aware of its location and can therefore provide pinpoint accurate information as to exactly where on the façade the fire is.

The system delivers an abundance of benefits including a three year battery life, a dual-smoke sensor to prohibit false activations, unique app alerts to smartphones and other devices such as pagers and many more. Each system can also be customised with a choice of colours to match existing cladding.

For those who do not own a smartphone, the system is equipped with its own sounders. These can be connected to the building management system enabling the sounders of the main building alarm system to also be activated if Intelliclad detects a fire.

Throughout the development process Intelliclad partnered with Façade Remedial Consultants who is the UK's leading façade experts, working nationwide to provide investigations and reports on safety and compliance. Intelliclad has been tried and tested numerous times with results showing a much faster response time to a waking

watch. The system is also much more cost effective, removing the ongoing and indefinite costs of a waking watch.

After recent completion of its first install, Intelliclad plans to continue to embed itself in the fire safety market by increasing the number of installs year on year. Intelliclad is one of the most intelligent, lifesaving technological products on the market.

Its ingenious design and clever interface will help save thousands of lives and money for many years to come.

For more information, please see below.
T 01543 223 998
www.intelliclad.co.uk



Power with control



Industry Update is proud to announce that Gen-C has been selected as our Gas Engine specialists Company of the Month.

Established in 2012 by Managing Director James Thompson, Gen-C is a privately owned gas engine spare parts and support company based in Dinnington, South Yorkshire.

As industrial gas engine specialists, Gen-C mainly focuses on CHPs and gen-sets. The company is the exclusive UK distributor for Motortech and RS Motor and supplies a wide range of spare parts and upgrade solutions. From spark plugs to full engine and control panel upgrades, Gen-C's offering covers all leading gas engine brands including MWM, Jenbacher, MAN and Liebherr.

Serving a variety of sectors, Gen-C works within a multitude of specialist industries covering power generation, anaerobic digestion (AD), on-farm AD and wastewater plants, landfill gas sites, leisure facilities, STOR and peak-shaving power stations.

With over 20 years' experience working in the gas engine industry, Gen-C prides itself on its superior industry knowledge. Only Gen-C can offer UK gas engine owners genuine parts, critical upgrades, and technical expertise at the lowest price. Its customers have given glowing feedback, which has enabled Gen-C to stay ahead of its competitors.

Gen-C is independent and not tied to any specific

engine brand, enabling it to offer competitive prices to its customers. Being based in Yorkshire means its UK clients can get key European CHP spares delivered fast with no red tape, customs hassle, increased fees or border delays.

Gen-C also specialises in installing Motortech open-access control panels on gas engines. This helps to give operators full control over their own engine at any time and from anywhere, and frees them from expensive, locked-in service contracts.

Giving 24/7 remote access with no monthly fees, these control panels allow CHP operators to restart their own engine within seconds, as well as delivering data monitoring and instant fault diagnosis via a digital touch screen control.



All of this comes with quick and affordable installation.

At the start of the COVID-19 lockdown restrictions, Gen-C came to the rescue of landfill operator EDL, after vandals broke into their Wellingborough site and damaged the CHP control panels. With significant downtime anticipated, Gen-C acted swiftly, ensuring its staff were on site within hours of receiving the initial call for help. Within just two weeks, they had replaced the vandalised control panels with new, open-access Motortech ones, and upgraded the engines, leaving them running better than ever.



Being classed as key workers, Gen-C's power specialists continued to work throughout COVID-19 keeping power operations running for the UK. In fact, the company has seen a rise in sales for its open-access panels due to the benefit of remote access for the operator, which has only increased with the trend of home working during the pandemic.

It is apparent that Gen-C's efforts and motivation are the driving force behind its future. In 2020, sales reached just over £1M on Motortech products which has enabled the company to take on four new members of staff. Gen-C is also in the process



of relocating to larger premises to accommodate increased levels of stock and more personnel.

For more information please see below
T 01709 718002
info@gen-c.co.uk
www.gen-c.co.uk



NO2/CA-2: Selective NO2 measurements without O3 interference



Due to intensive and continuous research and development, MEMBRAPOR produces gas diffusion electrodes with unique properties. With a lot of know-how and innovative designs, the company is able to create gas sensors that keep pushing the boundaries and continue to set new standards.

Ambient air monitoring is one of the key focuses of MEMBRAPOR's research and development efforts. After intensive work over several years, MEMBRAPOR is proud to present a NO2 sensor without O3 cross sensitivity.

The brand new NO2/CA-2 is designed for NO2 air quality measurements in the ppb range and is equipped with a filter that filters out O3. The typical O3 cross sensitivity of electrochemical NO2 sensors is thus eliminated, and highly selective measurements of NO2 are made possible. Due to the catalytic nature of the filtering process, the NO2/CA-2 enables reliable, selective NO2 detection over several years.

As a leading provider of solutions, MEMBRAPOR delivers the quality concept with sensors, test electronics, excellent support and fast service. This is what sets the company apart in the world of gas analysis.

For any further information, please see the details featured below.

T 00 41 43 311 72 00
info@membrapor.ch
www.membrapor.ch

Data Sheet Revision

MEMBRAPOR, the synonym and industry leader for reliable electrochemical gas sensors, has announced that it has extended its digital data flow and restructured the product specifications area, thereby rebuilding the domain product specifications.



With immediate effect, you can now find it on the website, with the data sheets of more than 300 sensors in a new design. MEMBRAPOR has revised the design of its data sheets to enhance their clarity, making them more informative, clear and clean.

The specified data has been consolidated and complemented. The company's digital processes will continue updating the provided information and will maintain a specific focus on cross-sensitivity and temperature-dependence data.

MEMBRAPOR'S customer-oriented and immediate support is what sets its services apart. Since all technical areas including, research and development (R&D), production and quality control, are united under one roof, at MEMBRAPOR customers can feel assured that the company is well equipped and familiar with all matters and can offer its customers direct advice on its entire product range.

For any further information, please see the details featured below.

T 00 41 43 311 72 00
info@membrapor.ch
www.membrapor.ch

25 years MEMBRAPOR

MEMBRAPOR celebrates its 25th anniversary. It's a success story with constant growth. Since its inception in 1995, customers throughout the world have placed their trust in MEMBRAPOR as an independent supplier of exceptional, highly reliable gas sensors.

For 25 years, MEMBRAPOR has been at the forefront of the industry, providing dependable, high-quality products for its customers. Placing the utmost importance on continuous development, MEMBRAPOR prides itself on achieving and continuing to achieve, the highest quality in all aspects of its work, across these three main areas: sensor performance, production and customer service.

Innovation is the true driving force behind the technological

progress at MEMBRAPOR for more than 25 years. The chemists and material scientists in its dedicated research group are creating, from the level of molecules, microstructures with unique characteristics.

Despite the ongoing implications from the COVID-19 pandemic this year, the company has demonstrated its strength and has managed to continue its growth with an expansion into a second building, moving a part of the company there to make room for something new and for a great future.

For any more information, please see the details below.
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MEMBRAPOR

The Expert of Swiss Sensor Technology

The independent Swiss Sensor developer & manufacturer (established 1995)

Industry Leading Management Solutions

In this issue of Industry Update we are proud to announce that we have selected G&P as our Management Solutions Company of the Month.



G&P is a world leading provider of quality management solutions, providing inspection, rectification and technical services to the manufacturing industry, primarily in the automotive and aerospace sectors.

"Industry-leading services are deployed throughout the supply chain and across the whole product life cycle. The vision is to be the strategic partner of choice offering best in class total quality management service and solutions, underpinned by outstanding management, technical skills and value-added technology," said Geoff Cousins, chairman at G&P.

G&P's global headquarters is based at Fort Dunlop, Birmingham, UK. The company maintains its operations on a global scale with full-time operations in China, Germany, Hungary, Slovakia and the Czech Republic while supporting neighbouring and other countries around the world.

The company has extensive expertise in the automotive, off-highway and aerospace sectors and is committed to helping OEMs and suppliers maintain quality standards. G&P also supports OEMs and manufacturers in the rail, marine, defence and household goods sectors.

G&P's class-leading processes are recognised by

manufacturers as being fundamental in increasing efficiency, reducing cost and waste and protecting customer reputations. Such is the impact that G&P has been the proud winner of numerous awards and accolades, including the Queen's Award for Enterprise: Innovation, the UK's highest business accolade.

G&P's strength is its team, working with integrity, accountability, confidentiality and flexibility.

Geoff added: "People are at the heart of G&P, working to the highest standards of professionalism and discretion. G&P's values ensure the highest service and quality levels, passion through total commitment and proactivity, together with the development and safety of our people."

G&P's forward-thinking approach is underpinned by business diversification, which is driven by continued and strong investment in G&P's people and the business itself, together with robust reporting and processes.

In terms of specific products, G&P's innovative Quality Excellence Model is a key asset for the company with QTrak at its heart.



QTrak is G&P's unique web based quality management IT system developed completely in-house which provides instant access to real time data and results, image capture and the ability to operate across multiple sites.

The fully paperless system, which has seen an internal investment of more than £4 million to date, gives G&P's customers a competitive advantage as it provides real-time analysis and identification of quality issues, allowing problematic supply sources to be investigated without delay, parts contained and corrective action to be deployed to prevent further waste being produced.

Meanwhile, the COVID-19 pandemic has impacted many industries, with unplanned shutdowns at manufacturing facilities. Even given these circumstances, G&P reworked 27,052,781 parts in 2020 to OEM standard, for its

customers, a 73 per cent increase compared to the previous four-year average as manufacturers and suppliers dealt with the profound impact of the global pandemic on working practices.

In regards to the company's plans, even before the pandemic, G&P recognised the long-term need to diversify into other manufacturing sectors which is possible as many of the services G&P provides, such as supplier management and quality audits, inspection, containment and rework, finished product acceptance, measurement and scanning services, are transferable to other industries.

Geoff concluded: "G&P would be delighted to hear from manufacturers or suppliers needing help to increase quality standards, improve efficiency and eliminate waste in their production process, to see what support we can offer."

For any more information, please see the details below.

T +44 (0)1922 458 003
www.gpqm.com



For all your storage needs



In our latest issue of Industry Update, we are proud to announce that we have chosen Quickline Ltd as our Storage Solutions Company of the Month.

Based in Wakefield, Quickline provides warehouse storage solutions, offering a bespoke consultation process enabling its customers to better utilise their warehouse space.

Quickline supplies pallet racking, industrial shelving, mezzanine floors and automated storage. Additionally, the company supports customers with solutions for new buildings, relocations and re-configurations, racking inspections and repairs.

Its experienced team conduct a thorough site visit to fully understand customer requirements before submitting a bespoke quote to deliver the optimal solution. The company also offer a turnkey service with end-to-end project management incorporating other ground works to ensure a smooth installation and to avoid any delays.

Specialising in the Logistics and Supply Chain industry, Quickline is the exclusive UK distributor of the Vertimag Vertical Life Module (VLM). It offers unrivalled warehouse storage efficiency, facilitated by an ergonomic, automated and space saving design.

But what makes it different? Unlike traditional warehouse storage solutions, the Vertimag VLM system maximises storage capacity and processing times, while enabling accurate stock control, picking and tracking. Delivering an abundance of benefits, it enables management of any size, weight or format of goods. It has low energy consumption, provides maximum safety for demanding environments and contains 15 possible lift configurations to align with your requirements.

The Vertimag Lift comes with a 990kg capacity per tray, is faster than a double bay solution and is comprised of customisable tray compartments for mixed goods. These units are available in three depths and five widths with a system feature of a 12-inch touch screen interface which can be



used with standard working gloves. This feature connects to corporate ERP systems and can read bar, QR and badge codes for total product traceability and managed access. The Vertimag Lift ensures a solution no matter what the storage and product requirements.

Quickline has remained fully operational over the past 12 months, continuing to offer its professional service to meet customer demands. Recent additions to the company have meant it is able to increase its dedicated service to its customers.

So, if you're looking for a bespoke storage solution offering exceptional service and value for money, Quickline is here. 2021 looks bright and promising for the company who has already seen such remarkable growth in a short space of time. The possibilities for Quickline are endless as it enters a new stage in its progress for bigger and better results come 2022.

Quickline are very proud to have been recognised for this reward.

If you're looking for expert design, affordable supply and professional installation of warehouse storage systems, please see below.

Contact
T 0113 880 0866
www.quicklinestorage.co.uk



New technology which is revolutionising many plant maintenance and workplace noise tasks

The **SOUNDCAM** as the name implies, is a sound camera that overlays sound sources on a video screen, in a similar way to thermal imaging cameras.



You may not have heard of this technology before.

It has been around for more than 10 years, but until now only in a form that acoustic experts could use, only suited to a lab environment, and costing six figure sums. The SOUNDCAM is revolutionary, because it puts this **powerful technology in the hands of anyone capable of operating a smart phone**. It is **battery powered, waterproof**, ready to use 30 seconds after switching on, and anyone can learn to use it in 10 minutes. And its price has only 4 figures!

Made by CAE Software and Systems based in Germany,

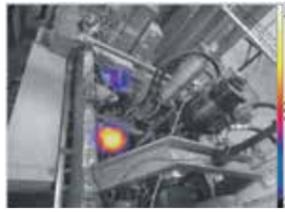


it outsells every other acoustic camera on the market worldwide, because nothing else compares with its portability, ease of use and low price. And **SOUNDCAM UK** (Acoustic Camera UK Ltd.) is the official UK distributor.

Richard O'Sullivan said, "We are the sole distributor for CAE Software and Systems, the German company which is a dominating industry leading company that provides an innovative range of acoustic cameras. Based in the West Midlands, we provide a full service including, sales, rental and consultancy, on a national scale, across the whole of the UK and Ireland."

There are several main areas that could be relevant for your plants:

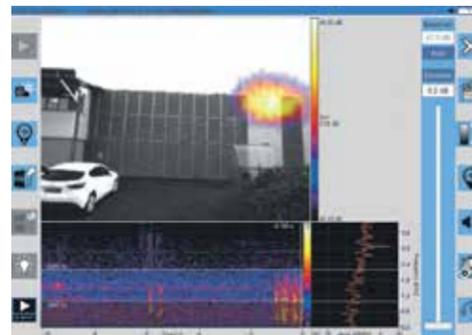
1. Energy saving: With our SOUNDCAMS you can see **compressed air and steam leaks, and electrical leaks** live on-screen. We also have customers looking for problems like **water/steam hammer**. For leaks, we have a special documentation app, which sets up the SOUNDCAM then after you go around the factory finding the leaks it will create an **automated**



report showing their locations and severity, which you can pass on directly to the maintenance team.

2. Preventative maintenance/ condition monitoring: With a Soundcam, you can take an acoustic profile of your critical plant and leave it monitoring for any changes. Long before the human ear can hear, for example, a bearing starting to whine and certainly well before failure, the SOUNDCAM will have automatically taken triggered video showing exactly which part needs attention.

3. Workplace noise: Health and safety professionals are now able to quickly **find the sources of excessive noise** in the workplace, enabling them to contact the plant supplier or take mitigating action themselves. A noisy fan can be replaced or enclosed, leaks on a machine enclosure can be seen and fixed. Whatever the noise source, you can quickly gather indisputable



video or still image proof to share with others.

4. Vacuum leaks: One of the **top Formula one racing teams** is using the ultrasonic capabilities of our SOUNDCAM to locate leaks instantly and reliably in his vacuum forming equipment, avoiding costly mis-builds, and saving time. We're proud to make one of the fastest teams even faster!

We would like to offer you the opportunity for a free trial at your location, either via an on-site demo, or compliant with possible COVID restrictions we can send a camera to you **free of charge** for a few days, and provide remote training and support.

Contact
T +44 (0)121 318 6600
ros@soundcam.uk
www.soundcam.uk



Warehouse & Logistics Update



STORAGE PROBLEMS?

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BiGDUG

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British manufactured milk vending machines like no udder



We are proud to announce that Daisy Vending has been selected as our Dairy Engineers Specialist Company of the Year.

Daisyvending.com, a trading name of Elite Dairy Services was established eight years ago by John Baldwin who himself has over 10 years' experience in the industry, as a qualified dairy engineer. His aim has always been to provide a range of milking solutions to dairy farmers throughout the UK, however noticing an increasing need in recent years for diversification within the sector, Daisy Vending was born, specialising in the manufacture of milk and milkshake vending machines.

Perfectly placed to help any individual to set up their next venture in milk vending, Daisy Vending operates from its base in Bridgwater. A hidden gem where you'll find the engineers at Daisy Vending manufacturing the most technically advanced milk vending machines available on the market.

But what else does Daisy Vending provide? We caught up with owner John Baldwin who explained further, "We offer bespoke packages, from a full kit – with everything you would need to get started, including chilled produce vending machines, pasteurisers, milk cooling tanks, milk skimmers and creamers – to individual machines tailored to your specific needs. In addition to this we can supply bottles for your machine, printed with your own design if you wish, as well as a range of other machines to further enhance your business.

This includes frozen vending machines, milkshake syrup dispensers and fresh milk coffee machines. If this isn't enough, with the explosion in popularity of milkshakes, we now stock over 30 flavours of syrup, all available to order online on our sister site – www.jbsyrups.co.uk. Whatever your needs, our friendly and experienced team are on hand to help you

create a package that suits you!"

All our Daisy Vending machines are designed, developed and built in the UK, allowing the company to offer a bespoke, custom build service designed specifically to meet your needs. Each daisy machine comes with an advanced wash system to ensure every dispense is as fresh as the last. Purpose built with an ultra-secure and anti-vandal design; each machine comes with a built-in security alarm as standard.

Its smart clean system uses cold water and compressed air to flush out the nozzles, which is then followed by a secondary clean for the dispensing area. The water which is forced from the spray ball mixes with the air to provide turbulence to the wash leaving the dispensing area free from milk residue and ready for the next customers. This procedure completes within 30 seconds. The machines are so technically sound that if a bottle is removed before dispensing is finished, the machine will sense this and ask the customer to reinsert the bottle.



Daisy Vending machines are British manufactured and add vast benefits resulting in high returns on investment. Due to its automatic tank switching function, which allows for less down time, the accumulation of more sales for your business is inevitable. Its dual tank system gives the option to dispense two types of milk from one machine and all tanks come with a smart clean system fitted as standard.

With the function of smart technology, Daisy Vending machines come with the most advanced features on the market. Available in both 200L and 400L sizes, it is possible to view and control the machine from anywhere in the world through the ability to receive phone and text notifications direct to your smartphone.



Each machine comes with various sized tanks which are all interchangeable dependent on your specific requirements. For the 200LT machine, 2 x 100LT tanks would suffice or for the 400LT machine it is recommended to use 2 x 200LT tanks. The smart technology installed within the machines allows the user to select what milk type to install through the use of a touch screen, the customer is then prompted to make their selection when purchasing.

The benefit of having two tanks enables the customer to have a continuous supply of milk while the next batch is being made. Using the two tank function helps minimise wastage due to the fact that an empty tank will always need to be removed, it will also make it easier to manage the machine as the tank can be replaced later that day.

If Daisy Vending machines aren't user friendly enough, the tank washing process is simple and easy to follow. When removing the tank, it is removed with the pump and all the pipe work, including the nozzle. This helps to minimise the cleaning required at the machine. Included within the overall price is a wash box which is placed at the dairy and runs the tanks pump and agitator making it easy to clean both the pump and the pipework. The wash ball connection on the top of the tank can be connected to a wash pump to clean the inside of the tank quickly and easily. The pasteuriser and wash tank can then be washed in the same manor.

Another benefit of Daisy Vending machines is the ability to alter the payment settings for the user on the machine. The machine can be fitted with no payments (free vend), this is a great addition to cafes, shops and restaurants. You can also choose a coin payment service, contactless which includes both Apple and Android pay, or to have the use of both coin and contactless.

The glue that holds Daisy Vending together is its friendly team who are always on hand



to offer advice and provide information on its products. "We are dedicated to providing the best possible service, offering 24hour phone support with the ongoing service and maintenance of all our products. Our engineers have many years of experience in the industry, enabling them to provide truly bespoke machines designed with each client's specific needs in mind." states John.

The company annually attend trade shows to further the brands awareness. The Farm Business Innovation Show which is due to take place between 10th – 11th November 2021 in Birmingham at the NEC will be its



first physical trade show this year. The second being Dairy-Tech, which due to the restrictions of COVID-19, took place online this year but will return to Stoneleigh Park for its February 2022 event.

If there were ever a time to invest in Daisy Vending, it's now. Its innovative and clever machinery takes the average vending machine to another level, changing the snacking game for good. It's a great addition to any cafe, shop or even for the education and leisure sectors. But Daisy Vending aren't stopping there, John explains it's future plans, "We hope to continue to develop and expand our product range, to make the milk and milkshake vending business accessible to as many companies as possible. We are always looking for ways to move forward."

If you're interested in Daisy Vending products, see the information below.

Contact
T 01460 455555
info@daisyvending.com
www.daisyvending.com



Multicar – The Versatile Monorail System



Multicar from Telelift Logistics is distributed in the UK by Quirepace Ltd. Multicar is an innovative monorail system able to transport payloads up to 45kg. The system is based around a track network which can be routed horizontally, vertically and on any gradient. The tracks can be one-way or two-way and switches (or points) provide branches and interconnections.

On the track infrastructure autonomous trolleys are independently controlled and routed from and to anywhere on the network. The system is both modular and scalable; trolleys can run closely together so throughput capacity can be increased simply by adding additional trolleys.

The trolleys are available with many different load handling devices, the majority of which pivot to ensure the payload is kept horizontal at all times. This may be achieved either through a pendulum effect or through powered dynamic rotation.

Multicar can handle many different payloads. Used in automotive applications for payloads such as bumper assemblies and door cards, Multicar can also handle crates and cartons. Automatic load-unload is a standard option. Multicar can be controlled either through HMI, or can be connected via several different interfaces to WMS, SCADA etc.

T 023 9260 3700
sales@quirepace.co.uk
www.quirepace.co.uk

Secure return for cold chain event



Image supplied by ISD Solutions, exhibitor at TCS&D 2021.

THE TEMPERATURE CONTROLLED STORAGE & DISTRIBUTION (TCS&D) exhibition, conference and awards will return to the East of England Arena in Peterborough on the 7th & 8th September.

Secure-return-cold-chain-event

Despite the end of restricted attendance numbers for indoor events being scheduled for late June, TCS&D 2021 will still be capping visitor numbers at 1,000 in September.

The bi-annual TCS&D show will incorporate the Cold Chain Hub conference – the programme for which is being devised by the Cold Chain Federation – making the event a fantastic opportunity to learn about the latest technologies and trends in the industry.

Exhibition director Martyn Cogan says: "After a challenging 12 months for our sector and as we return to a more normal life, we want TCS&D to deliver a host of tangible benefits to give our visitors a great couple of days."

Covid-secure measures will include thermal camera checks on arrival, numerous sanitiser stations and wider aisles.

The Ride & Drive Experience track in the outside display area will make a return, with more electric vehicles than ever before anticipated.

NRG Fleet Services will exclusively showcase the Electra 19t Refrigerated Electric Vehicle at TCS&D 2021. "This is a real coup for the show," says Martyn, "and is certain to attract a great deal of interest."

Companies interested in exhibiting their solutions to a targeted audience of up to 1,000 visitors should contact Martyn Cogan on 07545 378793.

Quickline Introduces The Vertimag VLM

Many companies are reviewing their current warehouse operation to meet the ever changing market demands. Quickline are the exclusive UK distributor of the Vertimag VLM, providing efficient storage solutions whilst reducing storage footprint, enhancing operator safety and increasing pick speed and accuracy.

The Vertimag VLM system maximises capacity, provides real-time and accurate inventory control, speeds up order preparation and decreases errors. It features a range of operator benefits,

including user-friendly interface, ergonomic picking bay and enhanced safety elements. User experience is further enhanced through a wide range of accessories, including a sliding console, laser pointer, alphanumeric LED bar, barcode reader, piece counting scale and label printer.

The VLM can reach up to 12m high with maximum capacity of 70,000kg. It can be supplied with 6 different picking bays and 120 tray combinations – making it a truly customisable system to meet your

present, and future, storage demands.

With countless operational benefits, Vertimag is one of the safest, most efficient and ergonomic systems available, benefitting from 90% space optimisation to reduce the storage footprint, enabling businesses to improve workflow and warehouse efficiency, whilst providing optimised space management.

For more information about the Vertimag VLM visit www.quicklinestorage.co.uk





AZM40: THE SMALLEST ELECTRONIC SOLENOID INTERLOCK IN THE WORLD



**Strong Interlocking force
in a compact design**

With dimensions of just 119.5 x 40 x 20 mm, the AZM40 is the smallest electronic solenoid interlock in the world. This makes it especially suitable for small safety doors and flaps. Despite its compact size, the AZM40 has an amazing 2000 Newton interlocking force and 25 Newton latching force.

Thanks to the 180° angle flexibility of the actuator, it can approach the AZM40 on a stepless basis, making the interlock also suitable for flaps which do not close at 90° or those that open upwards to a 45° angle. This means the angle flexibility helps the interlock easily fit into compact spaces and difficult to access areas.

The AZM40 works on the bistable principle: In the event of a power cut, it retains the current position. This ensures safe operation, whatever the status of the machine. Even if there are hazardous run-on movements, the safety door remains safely locked in the event of a power failure. Another advantage of the bistable principle is the consistently low energy consumption, as the interlock only requires power when the door is to be locked or unlocked.

Scan the QR code to see the AZM40 in action or visit our website for more information.

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The engine room of the electric vehicle industry



Bradshaw Electric Vehicles is a family-owned business located in Sibbington, Peterborough. Starting life as a plant hire company in 1976, Bradshaw EV quickly saw a gap in the market for supply of industrial electric vehicles in the UK and across the world.

Proud to be Britain's leading supplier of industrial electric vehicles, Bradshaw EV is also recognised in London Stock Exchange Group's '1000 Companies to Inspire Britain 2020'. Its journey began when it started importing Taylor Dunn vehicles from the USA and to this day, it still acts as their sole importer for Northern Europe.

Bradshaw EV manufacture and supply its own electric vehicles for an ever-growing range of industries providing off-the-shelf and bespoke solutions that meet individual requirements. They supply some of the UK's largest airports with electric fleets and have worked on some well accredited events such as British Grand

Prix, Wimbledon, and The Chelsea Flower Show. Moreover, Bradshaw EV is now the principal distributor and stockist for Club Car in the UK.

With over 50 professional employees and over 2000 vehicles shipped annually, Bradshaw EV keeps its customers at the heart of everything it does. At Bradshaw Electric Vehicles, customer satisfaction has always been its primary goal and to ensure it continues to meet high standards, it proudly upholds a ISO9001 accreditation.



When it comes to transporting goods, Bradshaw EV has the solution. Offering a wide range of electric vehicles from tow tractors and load carriers through to trailers and pedestrian-controlled vehicles. The expert advice received comes from a vast amount of industry experience of over 40 years. Its range of vehicles is so versatile it can supply almost all industries with an off-the-shelf solution

and if Bradshaw EV can't, they will design and manufacture a custom-built vehicle.

To add to its ever-impressive company profile, Bradshaw EV does not just supply electric vehicles, it also offers a range of first-class after-sales services to keep your business running smoothly. Whether that be a replacement part or a full vehicle service, Bradshaw EV is on board to help. Consistently meeting the demands of its sector, Bradshaw EV works with and offers competitive on-going support for extra piece of mind.

Bradshaw EV also offers comprehensive vehicle training, tailored for the specific type of vehicle used. Whether it's Bradshaw EV's manufactured or a related product, its training program covers all aspects of its use, and is delivered with emphasis on health and safety matters.

Identified as one of the fastest growing, most dynamic small and medium sized businesses across the UK, the future looks bright for Bradshaw EV. An increased entrepreneurial spirit and ability to offer such diversity within



its region and sector here in the UK, has resulted in strong revenue growth. Bradshaw EV has encompassed an impressive and innovative portfolio over the past few years, leaving an undoubtable amount of room for growth in its future.

To find out more, see details below.
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www.bradshawev.com

BRADSHAW

ELECTRIC • VEHICLES

Print & Packaging Update

DataLase releases new laser coding and marking solution for metal decoration

Global coding and marking specialists, DataLase, has launched a UV offset (UVO) litho metal decoration coating, designed for use on offset litho presses equipped with UV curing units.

Suitable for use on treated metal plate, the functional coating can be used to help address the challenges faced by production and manufacturing companies with product coding requirements, such as printing QR codes and expiry dates onto primary packaging applications. It can be used for food & drink, home, pharmaceutical, medical and industrial packaging.

DataLase UVO litho metal decoration formulations have been optimised to deliver unsurpassed



product stability and excellent flow properties. When used in combination with an appropriate CO2 laser marking system, consistent high quality, high contrast, permanent black-on-white coding can be achieved. DataLase UVO litho metal

decoration provides brands with the ability to improve the traceability of their goods, and the tamper proof and anti-counterfeit nature of the solution can assist with advancing the security of products.

The DataLase UVO litho metal decoration solution provides a number of key benefits, being heat, water, scuff and rub resistant when used in conjunction with standard thermal overprint varnish. The marking, which provides sharp and clear quality, can also be cured under traditional UV lamps; a process which can improve overall productivity when combined with an appropriate CO2 laser marking system and eliminates consumables from production and manufacturing environments.

DataLase's CSMO, Paul Dustain, said: "The new DataLase UVO litho metal decoration offering is an important functional coating, providing multiple benefits for production environments in various markets, particularly in improving security, traceability and anti-counterfeiting.

In addition, it also offers brands additional marketing and engagement opportunities, enabling connected packaging. DataLase will continue to push forward with increased technological advancement in order to further develop our market leading solutions."

More about DataLase UVO litho metal decoration: www.DataLase.com/uvu-metal/



Proflex

Shaped Hot Melt

Packaging Glue Sticks & Glue Guns





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www.adco.co.uk

Adhesives & glue guns

AdCo UK is one of the largest manufacturers of shaped hotmelt adhesives and water-based adhesives for use in packaging and product assembly markets for over 21 years, from its Head Office and manufacturing facility in Liphook Hampshire with additional distribution facilities based in Leeds UK and a network of approved distributors based throughout the UK.

As well as supplying adhesives for all requirements, AdCo supplies a wide range of specialist applicators – from Proflex industrial, heavy duty and professional glue guns to total melt, cartridge and bulk systems, we also manufacture and supply UF resins, PVA Adhesives, PU Adhesives, Tapes and much more

As part of our commitment to offer our customers the correct solution for their needs AdCo are continually investing in research and development along with new state of the art manufacturing equipment to ensure we continue to meet the ever



changing needs of all types of industry.

Thanks to our unrivalled knowledge of adhesives and application techniques, our highly skilled technicians can offer a 'find and supply' service to all our customers.

With a combined industry experience of over 120 years, our technicians can ensure that any bonding problem can be solved quickly and efficiently.

Contact
T 01428 751755
enquiries@adco.co.uk
www.adco.co.uk

Your global partner for dosing

In this issue of Industry Update, we are proud to announce that we have chosen industry leaders, SEKO as our Dosing & Control Company of the Year.

SEKO designs, manufactures and supplies chemical dosing pumps, dispensing systems, and control units for the cleaning & hygiene, water treatment,



and industrial processes markets. Offering a turnkey service, SEKO provides dedicated customer support from the design stage through to post-installation technical guidance, aligning with its mantra of 'Your Choice, Our Commitment' – when you make a choice to work with SEKO, the company provides a binding commitment to you and to your project.

SEKO is comprised of a team of passionate, dedicated Global Family of Professionals. The company places the utmost importance on listening to each of its Partners and is committed to deliver the right solution in the Hygiene, Water Treatment and Industrial Process markets.

This excellent service is based on over 40 years of experience. Established in 1976, SEKO's headquarters is based in central Italy with numerous other locations across the globe. In fact, the opening of SEKO Colombia in 2020 marked the company's 23rd worldwide subsidiary.

"SEKO products are renowned for their reliability, dosing precision and ease of use. We're also becoming increasingly known for our integration of remote connectivity. SEKO serves three distinct

sectors: Cleaning & Hygiene, Water Treatment and Industrial Processes." Said James Norgate, International Marketing Manager.

SEKO's products have a vast range of application uses, from food production to car wash, hospitals, transport hubs, schools, factories, offices, water-treatment plants, power generation, swimming pools and many more. Providing such a broad array of applications, SEKO also maintains an equally vast client base consisting of building and facilities managers, maintenance personnel and also chemical companies, from whom their clients often buy chemicals and dosing equipment as a package.

SEKO is also becoming increasingly known for its integration of remote connectivity and features IoT-enabled products in both its water-treatment and cleaning and hygiene product ranges.

"This includes SekoLink, our dedicated app for pool users that allows them to start and pause their equipment and view system status and chemical consumption 24/7 wherever they are." James stated.



their wellbeing is of top priority.

This innovative ground-breaking system utilizes leading technologies and maintains advanced features. The pump system allows for hundreds of thousands of doses, resulting in reassurance for its users, that the system will consistently dispense.

What's more, the system is not only reliable for its owners and customers, it is also proven to be reliable against the transmission of viruses. Using its touchless technology, the system provides user protection and precision automatic sensor-activated delivery, ensuring the highest levels of hand hygiene. This precision ensures that each dispense is correctly placed into the hands of the individual, guaranteeing proper hand sanitation while also reducing wastage which is often associated with manually operated units.



The range of DispenserONE® consists of different models including: DispenserONE® Mini, DispenserONE® Flexi & Battery, DispenserONE® Flexi Thermoscan and the flagship product, the DispenserONE®.

The system allows operators to do away with brittle, low-capacity conventional dispensers and replace them with a permanent unit that requires virtually zero maintenance. With up to 50 times the capacity of a conventional dispenser, the DispenserONE® is ideal for airports, supermarkets, hospitals, shopping centres, sports stadiums, and countless other large-scale sites.

Using its remote access function, the IoT-ready DispenserONE® models include a built-in Wi-Fi hotspot, which enables managers to view the live status of all their units, across multiple sites through their own personal online dashboard. This provides users with the freedom to manage DispenserONE® from any location and even allows operators to be able to manage the system while working from home, to ensure that their systems never run out. Moreover, as a failsafe, operators also receive notifications when product quantity falls below a pre-set level, to help them ensure that they constantly have sanitizer available.

The mains powered Plug-in DispenserONE® models guarantee automatic touch-free dispensing 24/7, providing complete reassurance for your customers.

The rechargeable battery operated model allows users to take DispenserONE® wherever your customers need it, with a rechargeable battery-operated model which boasts all the benefits of



The SekoLink has been designed for the sole purpose of enabling users of SEKO devices to be able to control and access their device, from any location. Extremely intuitive, the SekoLink is an app that allows its users to monitor and view the health and condition of their SEKO device, giving them access to relevant parameters. Providing a whole host of user benefits including: 24/7 monitoring of your plant, health status monitoring, notifications, identifying issues immediately with fault alarms notifications, the ability to monitor more installations, ease of use and safe operations such as, critical parameters which can't be changed. All of this is conveniently controlled through one single app and can monitor a variety of different kinds of devices.

A notable development for the company, SEKO was determined to respond to the needs of its customers during the pandemic and launched DispenserONE®, a revolutionary hand sanitizer system that combines high capacity (up to 25,000 doses between refills), automatic, touch-free electric motor-powered dispensing via a long-life electric dosing pump, meaning that its never out of service. It is also 100% drip free and maintains remote access to, and management of, data via smartphone.

Noticing the need of a secure, reliable and innovative hand sanitizing solution for public spaces, in a post-COVID-19 world, SEKO launched its DispenserONE®. With DispenserONE® placed at the entrance to a public space such as gyms, bars, restaurants, coffee shops and more, customers know immediately that



and control systems

the plug-in version, with added flexibility to be able to operate in outdoor spaces or to accommodate a changing site layout.

For complete reassurance, the DispenserONE® Thermoscan is the ultimate infection control system, with temperature and mask identification technology which provides comprehensive protection and reassurance.

Determined to find the right branding to meet the needs of its customers, the versatile DispenserONE® can also be customised with the colour and logo of the customer's choice. This flexible design allows for the product to blend in seamlessly with its surroundings and is not an eyesore, but a feature to complement and become an integral part of your space. Whether this is a logo, name of colour or an instantly-recognisable colour scheme; the personalisation options are virtually limitless.

With numerous benefits and unmatched, personalisation options, the DispenserONE® is not only an indispensable hygiene solution, but is a powerful tool for brand recognition.

To discover more about this solution for a COVID-secure future, head to its dedicated website: www.dispenserone.com.



In addition, SEKO is increasingly integrating IoT in its products, such as its Wash Series laundry dosing systems and the Elektra Pump Controller, which allow programmes to be monitored and managed from any location via smartphone. Operators can view system status 24/7 wherever they are, meaning maintenance can be properly planned and unwanted downtime, can be prevented.

Harnessing the power of data on demand and the Internet of Things (IoT) to connect its pump users to their equipment, the

Elektra Pump Controller is a revolutionary piece of equipment that provides unrivalled, invaluable live and historical data. Offering complete flexibility, the data is available on demand and can be accessed from any location, worldwide.

The Elektra is currently available for use with the Spring series of motor-driven pumps and it uses a built-in web server which provides water-treatment application managers with the ability to remotely monitor and adjust the pumps parameters. This includes chemical dosage and flow rate which is easily accessed from numerous devices such as a PC, smartphone, tablet and laptop. Including features such as an alarm log, operators can easily identify any areas that require planned preventative maintenance, thus allowing them to schedule maintenance with minimal downtime. Optimising its performance and process, the Elektra offers vast potential for precise digital dosing and cost control.

SEKO has also recently rebranded its Industrial Processes division as Exakta, which was accompanied by a new website launch: www.exakta.com. This is in line with SEKO's constant evolution, progressed each year through product innovation, shrewd acquisitions and the opening of new branches around the world. This rebranding helps to align the Exakta business with the changing demands of the market going forward.

Exakta is the world's leading provider of process



and metering pumps solutions for the industrial processes markets. With a vast history and experience since its inception in 1963, Exakta has designed and developed API 674 process pumps and API 675 metering pumps specifically for the oil, gas and heavy-industrial sectors. Exakta maintains an impressive amount of accumulated experience of almost 60 years, which has established the company as a trusted partner of major players, with a highly regarded reputation of delivering high-quality solutions across the globe.

Providing the highest levels of customer service, Exakta's team works closely with each of its customers to deliver a bespoke advisory service at every stage. Offering a comprehensive service, from early project development to on-site installation, Exakta can assist its customers in selecting the most suitable accessories, drafting ad-hoc reports, providing technical analysis and issuing predictive maintenance guidance, boasting an unrivalled, complete turnkey service.

Exakta's customers can be assured that no matter their requirements, they will receive a full committed service and with its broad and growing presence, Exakta is well equipped to assist its clients, wherever they are located.

Assisted by its Agents and accredited partner network, the company ensures that it provides the highest levels of professional customer support including rapid delivery of goods. For more information on Exakta, please head to its website: www.exakta.com.



In response to the COVID-19 pandemic in 2020, SEKO faced the challenges of COVID-19 head on, continuing to operate despite the difficult economic and logistical conditions the business faced. Many of its staff have worked from home, while they've been



able to continue manufacturing with appropriate COVID-safe procedures in place. As a global business, SEKO has met the challenge of each country having its own coronavirus restrictions, and has been dedicated to ensuring compliance in each territory. And, this agility certainly helped SEKO face the challenges of COVID-19 head on.

In terms of the company's future, SEKO is constantly evolving through product innovation, shrewd acquisitions and the opening of new branches around the world. This is evident through its recent developments especially the 2020 opening of its 23rd global subsidiary in Colombia, complementing the company's broad and ever-expanding presence, across six continents.

A noteworthy appearance for the company, SEKO is planning to appear at this year's Aquatech conference, a platform for professions across the globe to showcase the latest in water technology.

"We're also preparing to return to trade events as the COVID-19 restrictions begin to ease. This includes a planned appearance at the Aquatech conference, one



of the world's foremost water-treatment exhibitions, in November." James stated.

Indeed, SEKO and the rest of the world is looking forward to a post-COVID-19 world, attending trade shows and generally getting life back to a sense of normality.

Lastly, we spoke with James about how the company feels upon receiving our award and recognition of its achievements, he stated that, "SEKO is very proud to be selected for this award. It's hugely satisfying to receive this recognition of the company's efforts over many years to provide a comprehensive customer service from enquiry through to after-sales technical support."

To find out more information on the company and its latest developments, head to SEKO's website or get in touch using the details below.

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O&PM Europa's Precoatings Innovation brings a brand new flexibility to the market

For O&PM Europa, experimentation is the name of the game. The precoatings, labels and direct-to-object printing specialist spends a significant amount of time on research and development, and the hard work is paying off; O&PM Europa's approach to innovation is becoming widely recognised, and their precoatings for water-based digital inkjet are gaining global interest following a number of successful testing rounds measuring absorption, adhesion, water resistance, scratch resistance, application, appearance, drying, colour gamut, and behaviour on substrates, and demonstrating unmatched flexibility and outstanding quality. Established in 2015 by Dursun Acun and based in Tilburg, Netherlands, the trailblazing business primarily serves Europe's largest chemical companies.



This testing is being carried out internationally by a range of interested parties, including machine builders, producers of flexible films, cardboard producers, and packaging and printing companies, with positive results. Key findings include exceedingly thin laydown, strong performance on synthetic substrates, rapid drying time of under one second following printing with no additional external drying required, and the ability to apply using a range of techniques including flexo graphic, rotogravure, Meyer rod and slot-die.

O&PM Europa's unique approach involves formulation on request to ensure customers' precoatings are to their exact specifications. The company also offers customers a range of precoating options, setting it apart from the majority of competitors which tend to focus on a limited solutions.

While the customisation of the components that make up inkjet systems in order to ensure that they match a customer's exact requirements may be standard, the flexibility and ease of application of the company's offering is a significant step forward, says Dursun Acun, Sales Director at O&PM Europa. "These developments will enable water-based inkjet printing to grow more rapidly, says Acun. "Until now, there was no machine or precoating available which facilitated application by the customer themselves. The market so far has been dominated by the few, which ultimately slows down advancement in the market." For customers with a desire

to eliminate lead times and high prices on ink receptive materials, the ability to precoat themselves could prove revolutionary.

The development of a range of precoating options, as well as the expertise needed to create bespoke solutions, was a crucial element of the company's process. Discussing the method, Acun explains: "During research and development, we discovered there is no 'holy grail' for primers and precoatings. We began formulating with a few ingredients, then we started to test with increasingly more, as well as a number of different substrates. Now, we have eight standard formulations, and have built up a wealth of knowledge that allows us to formulate upon request."

O&PM Europa's offering involves a total concept, which includes formulating and supply of the precoatings, the coatings system itself, and a printing system from O&PM's partner, Italian printing and finishing equipment manufacturer, Rigoli s.r.l. "Any company that wants to print on cardboard, flexible films, or packaging can come to O&PM Europa and find everything they need," says Acun.

He continues: "We are one of the few disruptors in the primers field, and we have a number of advantages over competitors, one of which is the lay down; our primers range from 30 to 35 grammes per square metre, and up to a maximum of 50 grammes per square metre, which is almost half of what is being offered elsewhere in the market.

"Another is the look and feel of our primers; some leading primers feel sticky to the touch if hands are slightly wet for example, whereas ours don't have that effect – they feel just like plastic. So we're seeing enormous growth in interest in our range of primers. As well as targeting flexible film producers, there is a great deal of interest for our primers in the corrugated cardboard and cartons space."

That increased interest has prompted O&PM Europa to work with a US-based partner to develop suitable machinery, as current equipment is not advanced enough for optimal application, further demonstrating that O&PM Europa is a few steps ahead of the competition in the primer market.



To meet strong demand for O&PM Europa's growing portfolio of products, the next step will be to build the company's network of sales agents to serve its clients across Europe and then worldwide, as well as continuing to innovate and disrupt the label and primer industries. Dursun notes: "We need that manpower if we're going to keep up with the interest in our products. There are a couple of companies in Europe which are already interested in working with us more closely. Once the LabelSaver™ is actively in production, we will be able to go ahead with what we predict will be strong machine sales."

The company has previously been recognised for its innovation and excellence, having been selected as Industry Update Company of the Year in the Chemical Labelling category, thanks to its outstanding label range. Acun stated at the time, "We are proud to receive this accolade and to increase awareness of our business throughout the European markets. It helps us to be recognised as pioneers when it comes to water-based digital systems."

The award came after O&PM Europa was recognised as Industry Update 'Company of the

Month' in the same category in January 2020, as well as being nominated in the 2020 Dutch Packaging Awards in the category for Innovative Technology. Although label production forms O&PM Europa's core business, the company continues to innovate, with a number of disruptive projects in the works. Take the LabelSaver™, the world's first machine capable of printing directly onto jerry cans, paint cans and HPDE/LDPE bottles. The LabelSaver™ can print up to 500 jerry cans per hour in full colour and in 360°, and can be adapted to work with a number of objects including drums up to 200 litres. Currently at the prototype stage, the unique model is predicted to see strong growth over the next five years.

Dursun explains: "The next goal is to have a working system in place in a factory so we have a good reference for our future customers. We have chosen to initially work with chemical companies, as we already know how to work with these clients to meet their needs, and the LabelSaver™ suits those companies because they have many different products in small quantities. The LabelSaver™ is especially built to be able to print and change rapidly among different types of designs and products."

Being as busy as O&PM Europa is comes naturally. While the business did experience a pandemic-related slowdown and significant decrease in turnover, the company saw business pick up during the summer months, and is now as busy as ever and operating at the same level as before the first lockdown.

As Dursun says, "We don't stand still, we still have a lot of work to do. When you're an innovative company you always have work to do, one product is never finished, you can always perfect it, you can always make things better, more efficient. That's a typical working method in our company, we always try to do things a little bit better." Dursun concludes: "We want to keep moving forward, and want to keep that advantage over our competitors. It comes with the territory when you're a pioneering company."

For more information, please contact Dursun Acun at da@opm-europa.com, and visit www.opm-europa.com.

Doing their job to keep you safe, so you can do yours

In our latest issue we have chosen WatchGas as our Gas Protection Company of the Month, for the company's outstanding gas detection services and products.

Established in 2018, WatchGas was founded by a group of professionals with over 20 years' of experience in the gas detection field, in Capelle aan den IJssel (The Netherlands).

Boasting a global presence, WatchGas maintains offices in multiple parts of the world and holds its headquarters in Capelle aan den IJssel, the Netherlands. Utilising its local and global presence through its vast distribution network, WatchGas is also spearheaded by a worldwide player as its master distributor.

The main goal is to keep you or your employees safe on the job. By providing them with gas detectors, allowing them to return to their



families at the end of the day. The core of the company's business is the development of revolutionary gas detection solutions, like the AirWatch. The AirWatch is unique in its applications and capabilities. WatchGas can also be contacted for tailored solutions. Utilising its research and development department, which is highly specialised and can tailor certain products entirely to the need of the market.

WatchGas has built a resounding reputation worldwide for its high quality products, bespoke solutions and innovative industry leading abilities. Equally, its products have also built a sterling reputation for their ease of maintenance, which also reduces the total cost of ownership for a client.

Gas detection cannot go without proper maintenance. Usually, these costs are hidden over the years, or the entire business model is tailored around it. The service on WatchGas' instruments can be easily done by its distributors and end-users. Provided that they have followed a short course at WatchGas.

A notable innovation within its range, WatchGas provides the most advanced handheld PID monitors; the WatchGas Neo.



The NEO is one of the most advanced handheld monitors available for ppb (parts per billion), VOC (Volatile Organic Compound) detection. Available in several models, the NEO offers models from the most sensitive 1 ppb to a high range up to 15000 ppm, suitable for a variety of different applications and user selections.

New designs of the photo-ionization detector (PID) and ultraviolet (UV) lamp provide innovative qualities including outstanding sensitivity, stability and reproducibility. The Neo provides options including real time data



monitoring with a built-in wireless modem using WatchGas Suite application software.

After a formidable year, WatchGas has remained busy throughout the pandemic, as safety is of the utmost importance. Not only able to maintain its operations during the pandemic, WatchGas has also continued its exceptional growth and recently moved into its new headquarter premises in Capelle aan den IJssel,

The Netherlands. Providing more opportunities for growth, the new headquarters is a bigger facility enabling the company to further build upon and expand its teams of professionals.

With a pivotal focus on maintaining its impressive growth, WatchGas plans to continue its consistent growth and is always looking for new ventures and ways to expand. In fact, improvement and growth are the pinnacle objectives for the company and as such, WatchGas will continue to provide even more products to satisfy its growing customers' demands.

In other expansion plans, WatchGas will continue to increase its regional sales managers in different parts of the world and will search for more global distributors and partners.

For any further information or If you wish to partner and grow with WatchGas, please see the details below.

www.watchgas.eu



Reducing packaging by banding; the sky's the limit!

bandall[®]
THE STANDARD IN BANDING

In this issue of Industry Update we have selected Bandall as our Banding Solutions Company of the Month.

Established in 1990, Dutch company Bandall is at the forefront of developing, manufacturing and distributing bundling and banding solutions. Providing its banding machines, the company specialises in banding solutions for industry processes. Bandall maintains a global presence with 50+ fully trained distributors and certified engineers including its UK distributor; Erapa UK Ltd.

Banding is the bundling or labelling of one or more items using the packaging process of wrapping a paper or film band around a product. Bundles and individual products can now be banded instead of requiring shrink film, bags, boxes or sleeves. This in turn, can

result in a huge immediate reduction in packaging material.

Benefiting from Bandall's extensive experience and expertise, Bandall's innovative banding system provides a cost effective, high speed banding solution without causing any damage.

In terms of applications, there is four different applications for the usage of a band, these include: Bundling, Branding by Banding, Promotional Packaging and Retail Packaging.

"We can put a band around any product or it can be used to bundle things. If you use a pre-printed band then you also benefit from branding as well, we call it 'Branding by Banding', it's very practical because it replaces the need for adhesive labelling. It's applicable for all kinds of products, for example in the food industry, it's often used to close little boxes, instead of using a self-adhesive label. It contains all of the product and branding information such as, colours, logos etc. If you bundle products like two packages of

meat or three or four cans of fish; you bundle it and then you also have a promo pack." Said Hans den Dikken, Manager Marketing & Communications.

Able to provide a full turn key service, Bandall mostly supplies its range of banding machinery but also boasts the capacity to be able to provide banding material and take care of printing, as an additional service.

One of the most fundamental abilities that underpins Bandall's services is its flexibility. Opposed to other banding machinery providers, Bandall offers its



customers a chance to truly personalise their service. There is no pressure to purchase both the machine and banding material, Bandall is simply there to assist the customer with the requirements they need.

"Our customers are free to purchase the banding material from wherever! We can provide this service, but the customer is not tied down to only using material from us." Stated Hans.

Another unparalleled benefit of using Bandall's services is its patented band transport system, enabling only Bandall to be able to process banding material from 35 micron. With the world's push toward a non-plastic future, Bandall has listened and



responded to the needs of its customers and provides a packaging solution that uses less plastic.

The benefits of Bandall's 'Branding and Banding' technology is spreading across all industries. Primarily focussed in the food, graphics and pharmaceutical industries, Bandall's presence is also active in every other conceivable market.

"Banding can be applied to nearly any industry! We've seen banding being used in pharmaceutical, food, graphics, flooring, manufacturing, freight, aviation industries and many more. There are so many various industrial sectors, the sky really is the limit with banding, and providing a more sustainable option in reducing plastic." Concluded Hans.

For more information, please see the details below
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M20 MILLTURN – SMART MACHINING is now!

The M20 MILLTURN is the latest addition to WFL's product portfolio and appeals to customer segments that are looking for a compact and powerful complete machining centre. Special features include the high stability of the machine as well as the integrated motor spindle concept for demanding machining technologies.

In 2020, WFL has manifested decades of expertise in complete machining in a machine that has been entirely redeveloped in terms of its design and technology. "Smart machining" is at the heart of the technological innovations at WFL, bringing about an increase in performance thanks to the most diverse range of machining technologies. The range of applications covered by the M20 is almost infinite, capable of carrying out the demanding and complex machining tasks found in the aviation, automotive, engineering and plastics industries.



A particular highlight is the innovative design of the machine. The M20 MILLTURN has a one piece, straight-lined appearance, with a modern, functional design. The continuous front made from hardened glass features an integrated display of performance data as well a sliding window to the tool magazine. The machine's fresh appearance is further supported by its new colouring. Optimum ergonomics as well as convenient, user-friendly operation round off the unique design.

The small machine for every task

When developing the M20 MILLTURN, the objective was to introduce a compact and rigid machine designed for long-term accuracy. With a length of 5500 mm, a depth of 3190 mm and a height of 2500 mm, the M20 is ideal for machining the most diverse range of workpieces. The M20 is a machine model

with a 250 mm or 315 mm chuck diameter, with an impressive X-axis travel of 575 mm (+475; -100), Y-axis travel of 260 mm (±130) and Z-axis travel of 1250 mm. The machine is suitable for machining workpieces up to Ø 500 mm and is equipped with a powerful 44 kW (32) main spindle at 40% (100%) duty cycle and 4000 rpm. The M20 is equipped with a B-axis and a swivel range of ±120° for unlimited contour machining, as well as with the new 20,000 rpm milling spindle.

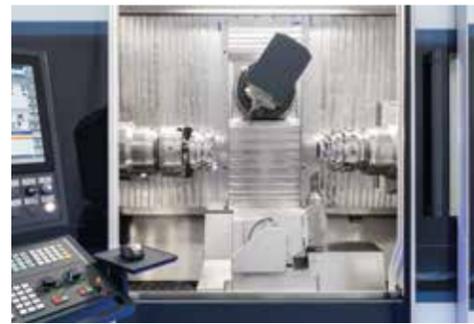
This means that there is a universal range of possible applications for the use of high-speed tools. The motor spindle system is designed as a compact cartridge assembly with housing flange interface.

The machine frame is made from spheroidal graphite, which is extremely strong and guarantees excellent damping characteristics. Thanks to the construction of the machine, which incorporates vibration-absorbent cast components that offer optimum rigidity, even the heavy cuts that are required during machining are carried out without vibration. Large spaces between the guide rails and trolleys on the slide guides also guarantee a high degree of system rigidity.

The configuration of the machine allows for a wide range of possibilities: from a pure complete machining centre with steady rest and tailstock, as a counter spindle machine with tool turret or an individual tool holder at the bottom, as well as an optional integrated workpiece handling system.

Tool management & automation

The tool magazine can hold max. 40 or optionally 80 tools with HSK-63 or PSC63 (Capto C6) accommodation. The maximum tool weight is 10 kg and the maximum tool diameter is 90 mm (adjacent) or 130 mm (non-adjacent). In addition, the lower



compound slide with tool turret can hold 12-24 tools. If necessary, the machine can be equipped with a bar feeder. A particular highlight is the automatic tool change into the lower individual tool holder with B-axis. This makes it possible to set up the tools parallel to machining time and then automatically access tools in the magazine. Stored tools can therefore be placed in the upper and lower tool holder. The internal coolant supply to the tool holders takes place at max. 80 bar.

Based on the customer's specific needs, different automation options are available for automatic workpiece loading and unloading. An integrated workpiece handling and/or loading system, which can be added on the right side of the machine, represents a completely new variant of automation. The main guide rail for the handling system runs into the working area from the right. The gripper slide moves on the guide piston and can load and unload workpieces in this way. The workpieces are stored on a strip accumulator.

Huge variety for every application

The integrated motor spindle concept as a fundamental of the machine turns high dynamics into a reality. The M20 is perfectly suited to universal and demanding machining processes. The X travel at -100 mm beneath the centerline also opens up new opportunities for complete machining. A drill pattern with a circumference up to a diameter of 200 mm can be drilled by moving the XY coordinates, without moving the workpiece. The two B-axis systems in the machine also offer undreamed-of possibilities for machining thin-walled, funnel-shaped turbine parts.

The simultaneous B-axis turning is extremely useful here. The interpolating NC-driven B-axis is also suitable for turning with a pivoting B-axis. Thanks to



the continuous adjustment of the setting angle during the cut, a complex contour (e.g. for turbine wheels or piston heads for large diesel engines) that would normally require multiple tools can be produced in a single cut. This reduces on the number of turning tools required and produces a seamless machining result.

New operator panel with modern design

For the controls, WFL relies on Siemens technology, namely the 840D sl. The control interface is visualised on a touchscreen. One of the many aspects that determine the performance of complete machining centres is the potential of the control system. The IPC 477E Industrial Flat Panels are ideally suited for use as screens and boast fast response times for instantaneous screen updates. The innovative multitouch variant with widescreen 24 inch front in 16:9 format and Full HD (1920 x 1080) is installed on the M20 MILLTURN.

Another special characteristic is the fact that the display can be divided and various programs can be displayed on multiple sub-sites. This allows functions such as WFL iControl process monitoring, graphics, programs, statistics and real-time data to be displayed in parallel. All of this results in optimized performance.

The CrashGuard, CrashGuard Studio and Millturn PRO programs can be displayed in the header bar in a clearly structured way. The window below this is used to display information on axis loads, tools, the CrashGuard Viewer, axis movements in real time and much more. This provides operators with a large number of options for monitoring their manufacturing process.

Contact
www.wfl.at

How the right environment can optimise X-ray inspection performance

X-ray inspection machines offer great benefits to OEMs and OEMs in both quality control and troubleshooting applications. However, the most powerful machines are complex, advanced-technology devices, so users need excellent training and support to optimise day-to-day performance.



This aspect is well-recognised by Newport-based CEM Axiom Manufacturing Services, who highly emphasise the 'human factor'. Their people-based approach to their workforce, customers and suppliers has facilitated remarkable growth, reaching £50.1m in 2019.

Accordingly, they continuously nurture and enable their workforce, while offering extremely high customer service levels. They also seek to work with suppliers who share their ideals, because this allows them to rapidly absorb and obtain competitive advantages from advanced-technology machines like X-ray inspection equipment.

Axiom recently demonstrated this strategy while upgrading their X-ray inspection facility. They invited Cupio, as suppliers of inspection, production, and test solutions, to discuss an X-ray inspection upgrade. Firstly, Cupio reviewed Axiom's existing machine, providing insight into its full potential; accordingly, it remains in service, with improved benefits for Axiom.

Axiom regards Cupio's ongoing training as absolutely crucial to their X-ray inspection success. The programme has covered SMT inspection, BGA, QFN, and voiding measurements for customers, and through-hole fill measuring.

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Leading UK manufacturer of bespoke power screws



Kingston Engineering is one of the UK's leading manufacturers of bespoke power screws. Based in Hull, the company offers a vast selection of materials and specifications designed to suit their clients' requirements. "We produce power transmission equipment used in a variety of industries, including aerospace, nuclear, medical, water, rail, and many more," explained Paul Bielby, Director.

With a history dating back to 1919, Kingston Engineering celebrated its 100-year anniversary last year, an admirable feat which proves the company's



outstanding reputation in the industry. For over 60 years, Kingston Engineering has specialised in manufacturing right hand/left hand, single/multi-start, cut thread power transmission screws and nuts, all of which are adaptable for mechanical power transmission. These products also conform to the standards of British, European and American requirements and meet ISO 9001-2015 accreditation, as well as being thoroughly examined during the manufacturing process.

Working closely with both suppliers and end users to provide the best purpose-built screws possible, Kingston Engineering has customers throughout the UK and the US, offering one off prototypes to full batch manufacture. Kingston Engineering specialises in offering bespoke manufacturing services, addressing its customers' specifications to ensure their needs are always met. These services are informed by over 100 years combined experience between the company's directors, all of whom are committed to investing in Kingston Engineering's skilled workers, facilities and technologies to ensure continued success.

Certainly, Kingston Engineering is always engaging in plans to help the company become global leaders in screw/nut manufacturing. One recent investment was in a new Mitutoyo Euro M544 Measuring Machine, which has become invaluable in the company's inspection department. This allows Kingston Engineering to measure the physical geometrical characteristics of an object. The machine creates printed inspection reports and is controlled by an operator, with measurements designed by a probe attached to the third moving axis of the machine.

Additionally, Kingston Engineering invested in a Hi-Tech 450 AMC Turning Centre, the latest addition to its CNC Turning capacity. This one piece heavy duty cast iron construction is a major contribution to the company's turning capacity. All details are available on the website or why not give us a call for a chat about your requirements over a virtual coffee.



"We're very much looking forward to what the next 100 years will bring, as we focus on continued investment in our machinery and our people," Paul explained. "Engineering in general has been hit by the COVID-19 pandemic, but our work in the medical, water and machine refurbishment fields has enabled us to maintain a high level of production while adhering to social distancing guidelines. We'd like to thank our customers and suppliers for their continued support through these challenging times, and now we're focusing on seeing the company continue through the next generations while upholding the strong name we

have within the industry."

If you would like to find out more information on everything Kingston Engineering has to offer, head to the website or get in touch using the contact details below.

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Fabrication specialist, Blackrow Group partners with PP-L Biosafety

For over 40 years, Blackrow Group has been at the forefront of the industry, providing high-quality engineering and fabrication services on a global scale. Delivering its services across a multitude of different industries, Blackrow Group provides products and services for: food and FMCG, pharmaceutical, waste to energy, petrochemical, renewable energy, power generation and utilities sectors.

Maintaining an approach of partnering with its clients, Blackrow Group places the utmost importance on gaining a full scope of understanding of its clients' needs and working in collaboration with them. Through this approach, Blackrow Group provides flexible services, this agility enables the company to be able to tailor its solutions to meet the right requirements, specific to their client's needs. This in turn, has positioned the company with the ability to react efficiently to any on-the-job challenges Blackrow Group may face.



A noteworthy recent development for the company, health technology company PP-L Biosafety has partnered with Blackrow to help manufacturing companies across the UK become COVID-secure by purifying air and surfaces using ultraviolet-C radiation.

The collaboration agreement sees the two companies work closely together to introduce PP-L Biosafety's technologies – which are proven to reduce the transmission of harmful bacteria and viruses, including COVID-19 – into the Blackrow Group's own bespoke machinery.

Paul Waldeck, chief executive at PP-L Biosafety, said: "It's imperative that our team of engineers, scientists and medical experts are proactively working hand-in-hand with companies like the Blackrow Group to increase the visibility and use of safe UV-C and enhanced ventilation system solutions across a multitude of industry sectors.

"The manufacturing and production industry is under severe pressure and has been very badly

hit by the COVID-19 pandemic, and technologies like UV-C are critical in allowing them to get back to the level it was operating at previously while protecting its staff in the most effective way practicable.

"The availability of clean, uncontaminated air is crucial in preventing the spread of the virus and protecting people from infection.

"COVID-19 will mutate as it spreads through the population, meaning it will still remain a problem even with the availability of vaccines. It is therefore important that steps are taken to protect people and environments if we are to live with this ongoing danger."

PP-L Biosafety's UV-C solutions have been proven to be highly successful in dealing with previous coronaviruses, such as the first SARS crisis in 2003, with highly infectious airborne viruses destroyed within milliseconds through exposure to the light but in a way that is completely safe for building occupants.

Dave Stubbs, Senior Engineering Manager at



the Blackrow Group, said: "We are delighted to be working alongside the PP-L Biosafety team to actively bring UV-C solutions to any industry sector which requires it.

"With our extensive engineering knowledge and expertise combined, with the tried and tested technology PP-L Biosafety solutions provide we are confident the alliance will play a pivotal role in the control and mitigation of COVID-19 in the workplace."

Indeed, this partnership plays an important role in the fight against COVID-19 and is yet another example of Blackrow Group's invaluable leading industry expertise.

Boasting an unrivalled selection of services from its state-of-the-art facilities, clients can feel confident that Blackrow Group has the experience and expertise to deliver their project on time and within budget, managed seamlessly.

For any further information, please see the details below.

www.pplpro.co.uk
www.blackrow.co.uk

Glass & Glazing Update

Granada Glazing: Providing class-leading secondary glazing services to 'Northern powerhouse' cities

Significant investment into northern newbuilding and regeneration projects is driving demand for specific solutions that can keep all types of buildings quieter and warmer, according to Mike Latham from Commercial Sales at Granada Secondary Glazing.

The North West in particular, led by the influential 'Northern powerhouse' cities of Manchester and Liverpool, has seen construction output running at ten times the national average, making it one of the busiest regions in Europe.

As specialists in insulating the UK's listed and conservation-controlled building stock we provide an extremely high level of expertise working with the region's architects and specifiers to bring both older and newer buildings up to date from a thermal and acoustic performance perspective.

Based in the north, we are ideally located and experienced in supplying secondary glazing to these areas, as well as throughout the UK, offering



a full turn key solution from early-stage design through to sign-off on all sizes of projects.

Secondary glazing is the proven cost-effective, efficient and discreet solution to cure issues with external noise, thermal efficiency and enhance security in buildings of all ages. When correctly installed, secondary glazing can make buildings 80% quieter by reducing noise levels up to 54dB.



Where single glazed primary windows are retained - especially in heritage and listed buildings for aesthetic or planning requirements - secondary glazing is often the preferred option to create a warmer, quieter and more secure environment. Slimline aluminium frames are virtually invisible, maintaining a building's charm and character while bringing the glazing system up to modern-day performance standards.

This is crucial for cities, such as Manchester and Liverpool, where rising numbers of their prominent properties are being given new 'second lives' in city centre regeneration projects that are

successfully driving economic growth.

Considered the 'Capital of the North', Manchester is at the heart of a huge number of regeneration schemes. The city centre, along with Salford, are innovative hubs for corporate, creative, retail, leisure and hospitality businesses, many of them based in converted buildings requiring specialist solutions to treat issues with external noise and boost thermal performance.

Similarly, Liverpool has experienced much regeneration over the last decade prompting more investors to shift their traditional southern bases to this vibrant city. Outside of London, Liverpool has the highest number of listed buildings in England, many of which are being creatively restored.

The unique capability of quality secondary glazing to solve specific issues – be they acoustic, thermal or security – with a discreet, yet practical and user-friendly solution – enables the retention of original glazing and a property's essential character. Improving insulation and reducing heat loss helps to lower energy bills and a building's carbon footprint.

Extra insulation provided by secondary glazing can eliminate draughts and heat loss by up to 65%, while the robust aluminium frames securely fixed



internally enhance security by deterring unwanted intrusion.

In both cities, Granada Glazing teams are collaborating with architects and clients on a variety of regeneration and refurbishment schemes, from boutique hotels to student accommodation, that will deliver a more comfortable and quieter experience for guests and students alike.

Granada Glazing partners with architects and specifiers on the design, manufacture and supply of high quality commercial secondary glazing for all sectors and building types, in the North West and across the UK.

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Boost process efficiency and production output with automation

When David Rybacki founded DRG Manufacturing in the Chicago suburb of Lake Zurich in 2015, he started off with nothing except a commitment to manufacture total solutions for his customers. Since he was not basing his production process on existing equipment, he set out to incorporate automated systems and processes that would provide him with the highest levels of productivity.

DRG serves the firearms component industry, and the shop's commitment to quality has yielded dramatic results. In three years, it has grown from six to 40 employees and has increased its business eightfold.

"Business has been very good to us," Rybacki said. His commitment to making parts that exceed expectations has much to do with that success. DRG creates parts to three specific, equally stringent sets of specifications: their own internal specs, MIL-SPEC prints that constitute industry standards, and custom OEM prints supplied by individual customers.

The company approaches every new product and component build as an opportunity to produce it with the most effective process possible. One of the keys to that productivity has been DRG's fully automated gundrilling and reaming cell from UNISIG.

Before Rybacki invested in this cell, he evaluated several other gundrilling machines. "Most were limited to manually operated equipment that would not accomplish Rybacki's objectives. Only UNISIG offered a robotically run cell that could provide the functionality and flexibility DRG required," said a company spokesperson.

"Many companies in our industry put an operator in front of every machine," Rybacki explained. "Instead, our UNISIG automated cell gives us about a 150% production increase over such manual operations."

DRG's automated cell runs barrel blanks with chamfers at each end. A robot picks up a blank from an infeed system and loads it into a dual-spindle UNISIG UNE12-2 gundrill machine with a 12mm maximum part diameter capability. After the drilling process is completed, the robot moves the blank to a dual-spindle UNISIG UNR20 reamer.

Once the automatic reamer completes its part of the process, the robot moves the blank to a blow-off station to clear oil from inside the barrel. From there, the robot transports the blank to the outfeed station, where it exits the cell to be rifled. All aspects of the cell are automated, including the vision system with automatic compensation that allows the shop to quality check every part before human hands ever touch them.

DRG's completed automated gun drilling process simplifies completion of large orders with long delivery schedules. Most



DRG approaches every new product and component build as an opportunity to produce it with the most effective and productive process possible. One of the keys to that productivity has been DRG's fully automated gundrilling and reaming cell from UNISIG



At DRG Manufacturing, a dual-spindle UNISIG UNE12-2 gundrilling machine, with 12mm maximum part diameter, drills barrels for the shop's automated operations

of the shop's workflow involves long-term contracts and multi-month purchase orders for 1,000 or more barrel blanks. That workflow makes production planning easy because the company can establish shipping dates and work backward to create the build schedule. To meet their commitments, DRG normally runs three shifts—two attended by an operator and one unattended at night. Including the UNISIG cell, DRG has a total of five automated cells within the factory that operate a full 24 hours of every day.



"UNISIG offered a robotically run cell that could provide the functionality and flexibility DRG required, and the cell resulted in about a 150% production increase over manual operations," said a company spokesperson

When DRG receives a purchase order, it processes half the part total up front so larger volumes can enable them to amortise set-up costs over longer runs. In addition, DRG's Kanban inventory system enables the shop to maintain a replenishable inventory of high-demand parts for same-day shipping. Because the shop must be highly responsive to changing customer demands, inventory makes it possible to source smaller orders that DRG otherwise would refuse.

Originally, DRG outsourced profiling and barrel manufacturing work. But large orders and stringent specifications called for specialised equipment. For this reason, DRG acquired its UNISIG drilling and reaming cell in 2017 to produce raw rifled blanks.

Although DRG has the option of running the UNISIG R-2A rifling machine as part of its automated drilling and reaming cell, that is one process Rybacki prefers to keep manual. "We run rifling manually so we can QC it and make certain that all aspects are perfect," he said. "DRG's QC department air gauges everything the company makes, although the cost of the QC equipment is steep: about \$12,000 per caliber."

Among the other attributes that set DRG Manufacturing apart from its competitors is its commitment to automated equipment. Rybacki realises that some companies may shy away from implementing automated cells because of the upfront time involved in development and set-up.



DRG relies on its UNISIG equipment to achieve the shop's quality targets with part materials such as 416R pre-hardened chromium stainless steel and 4150 Chrome-Moly Vanadium (CMV)

"It is about being patient to achieve the results you want," Rybacki said. "We can buy machines from UNISIG, put them on our floor and run them manually – or we can wait about six months longer and buy a fully automated turnkey system that runs perfectly." He noted that the extra time investment enables DRG to double its production without adding personnel or shift hours.

When it comes to workpieces, DRG works with some challenging materials and tight part tolerances. It manufactures most of its parts from 416R pre-hardened chromium stainless steel and 4150 Chrome-Moly Vanadium, or CMV. On a 17" rifle blank, for instance, total indicator runout is kept to under 10 thousandths, with diameters at under one thousandth and size within a couple of 10 thousandths.

UNISIG's application support plays a key role in DRG achieving its quality targets with tough part materials. As Rybacki pointed out, "They are experts in deep hole drilling, and they taught us everything we needed to know. The learning curve was just a matter of mastering tool life, which they gave us suggestions on. After receiving guidelines on how to start we just took it from there. It is not trial and error because of UNISIG's expertise. It is only trial and error if you do not listen to them."

For the immediate future, further expansion at DRG will have to wait. Although DRG has not reached volume capacity, its growth and success has led to no available shop floor space. Automation has enabled DRG to increase its process efficiency and boost production output. But Rybacki is quick to point out that robotics only work in a shop with the right people to operate them. "You still need people," he noted. "People can grow into new opportunities. Robots do not take over completely."

UNISIG is also exhibiting at the EMO show in Milan, Italy from 4-9 October 2021. Further information on all machines of the UNI, UNR and R-2A series and the complete UNISIG machine program is available at: www.unisig.com or follow the company on LinkedIn and Twitter (@UNISIG).



The user-friendly UNISIG deep hole drilling system control helped DRG shorten its learning curve

New southgate project encompassing flat to pitched conversions across social housing estate wins award

As part of a wide scale refurbishment project from Enfield Council, Langley Structures Ltd delivered a series of Flat to Pitched (FTP) roof conversions across multiple residential premises in New Southgate. This project recently won RCI's Pitched Roofing Awards for 'best use of a flat to pitch system'.

The project saw the conversion applied to seven buildings

located on Bowes Road, Cross Road and Massey Close in Enfield, as part of the larger 'New Southgate' refurbishment being carried out in the area. Approved in 2010, the New Southgate regeneration project provides quality homes, local shops and community services across the neighbourhood.

Langley Structures worked alongside Playle & Partners LLP's,

who provided lead architectural services as well as project management, contract administration, quantity surveying and principle designer roles. ENGIE, Langley Structures' Approved Contractor, delivered the regeneration solution.

"We have had a positive experience working with Langley on this project from design stages through to completion on site",



commented Sarah Primarolo, Architect at Playle & Partners LLP. "The regular inspection correspondence and site progress photographs were particularly helpful."

By implementing the FTP conversions, Enfield Council's properties benefit from enhanced aesthetics, but also a longer life cycle to the roofs and an increase to the overall value of the premises. In addition, the roof now has improved drainage and external rainwater run-off, which will avoid future damage and repair costs from internal drainage leaks and blockage.

New external rainwater gutters and downpipes were connected to new soakaways (BRE Digest 365) diverting rainwater from roofs from joining the existing combined foul and surface drainage. This reduction in rainwater volume relieves demand on an old drainage system.

Residents benefit from the advantages of FTP conversions by providing elements such as improved thermal performance, reducing the heating demand within the building's interior.

One building on Bowes Road had a unique installation change as an essential health and safety measure whilst undergoing an FTP. Langley designed hot rolled transfer steels for ENGIE to close off a large light well at flat roof level within the newly constructed pitched roof void.

Within the communal stair core roof, existing apertures were used to incorporate a new sun tube to allow natural light into the building and to maintain daylight savings due to existing light well decommissioned - this also enabled the team to introduce a new automated passive smoke extract to the communal areas.

By using the existing apertures, it also meant reducing building and decorative works externally and internally for the client and reducing disturbance to those living in the building.

A fire rated duct provided a sealed riser to the automated louvre mounted on a roof top kerb. The smoke louvre powder coating finish was matched with the predominate two-tone terracotta tile colour to reduce the visual impact on the roofline.



Langley Structures' own in-house design team began by providing initial surveys of the existing premises, including drawings of both the existing and proposed designs to assist with feasibility and planning. Roof cores were taken to determine the existing roof's construction and assembly, as well as dead load and wind calculations to assess the fixing pattern and pull out resistance required for the new roof design load.

"Enfield council and Playle and Partners LLP selected a roofing specialist with the skills and expertise to provide options on flat roof renewal or flat to pitched conversion", stated David Gatehouse, Head of Langley Structures Ltd. "Having worked previously with us on similar projects, we were able to assist in every step of this conversion, from design through to installation by ENGIE. Bowes Road is a great example of how FTP conversion contributes to the regeneration of an area, whilst extending the maintenance cycle of the building itself, and we look forward to working with Enfield council further on future projects".

To download and read the full case study click here: <https://www.langleystructures.co.uk/case-studies/bowes-road>

Or, to find more about flat to pitched conversions and rooftop developments for social housing providers to optimise their estate visit our website on <https://www.langleystructures.co.uk/>



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ELCO enhances its new commercial water heater offering

ELCO has expanded its range of hot water products, which now comprises over 60 direct, indirect and storage models, ensuring building service engineers and consultants can easily specify a product for any commercial project.

This has been bolstered by the launch of a brand new Commercial Hot Water Range brochure, which showcases the comprehensive portfolio of products the company has to offer.

A stand out performer in the range is the TRIGON® XL WH direct gas water heater, which boasts an advanced burner design, ensuring it is the most technologically advanced and best performing unit on the market.

Elsewhere, direct models include the Tudor NHREC gas water heater, perfect for medium to large commercial use, while its sister



product, the Tudor NHREX is a high efficiency atmospheric unit ideal for refurbishments.

Indirect models include single coil, twin coil and tank-in-tank calorifiers with capacities up to 2,000 litres.

In addition, ELCO also provides a choice of hot water storage solutions suitable for medium to large applications, such as the Inox-Maxi SSB DHW buffer cylinder, which offers capacities ranging from 500 to 3000 litres.

For more information on ELCO's commercial hot water range, visit www.elco.co.uk

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Dubai Airport keeps Storm Water under Control.

Dubai International Airport (DXB) is the world's busiest airport by international passenger traffic and the sixth busiest cargo airport in the world.

Located in the Al Garhoud district, some three miles east of Dubai it plays a vital role in connecting the Emirates to the world.

During January 2020, the region was hit by several days of unprecedented heavy rain fall which overwhelmed the airports storm water management system, resulting in submerged runways, taxiways, and aprons – consequently hundreds of flights were delayed or cancelled.

Engineers have been working tirelessly to upgrade the storm water management system to reduce the likelihood of future disruption during heavy rain fall events. Cheshire based T-T Flow secured the contract to supply several custom high-performance valves for the demanding environment.

The scope of supply included DN600 & DN700 metal seat wedge gate valves with weld overlay seats, controllable hydraulically damped DN600 & DN700 tilting disc check valves, DN1000 double-eccentric butterfly valves and DN350 swing check valves with weld overlay seats. Additionally, the project required several non-standard bespoke-manufactured DN750 double flanged centric



butterfly valves with vulcanised EPDM seat, stainless steel disc and worm gearbox.

T-T are proud to support partners in the UAE and our association with high-profile projects. Further demonstrating our ability to undertake the manufacture and supply of custom valves exceeding rigorous specifications.

To discuss your valve, pump or control panel requirements, contact our team on +44 (0)1630 647200, or visit our website; www.ttflow.com.

T-T Pumps supplies essential components for Arbroath (Brothock Water) Flood Protection Scheme

T-T Pumps supplies essential components for Arbroath (Brothock Water) Flood Protection Scheme. As one of the largest flood protection schemes undertaken in the UK, Arbroath's £12 million project needed professional and efficient supply of essential components. T-T Pumps won the tender based on our expertise, supply efficiency and our understanding of the valve technology the contractor would install.

The effects of climate change have been impacting the UK for several years. Last year, the government published its plans to tackle one particular consequence of the dramatic weather events the UK now suffers – flood defences.

Part of the overall strategic plan an investment of £5.2 billion will create around 2,000 new flood and coastal defences to better protect 336,000 properties in England by 2027.

Environment Secretary George Eustice said: "The devastating impacts of last winter's flooding were an important reminder of the need to continue to invest and accelerate action to reduce the impact of flooding on our communities. Working closely with the Environment Agency, local authorities, business and the third sector we will create a better protected and prepared nation."

One of the largest flood defence projects is Arbroath's £12 million flood protection scheme. The original flood defence from the Brothock Water will see the new defences protect more than 500 people and their homes from flood risk. The scheme is being delivered by SEPA (Scottish Environment Protection Agency) and Arbroath (Brothock Water) Flood

Protection Scheme. Currently, the area sustains on average £840,000 of flood damage each year.



Professional service

One of the Brothock Water's essential components is ensuring that water overflow can be efficiently and safely managed. T-T Pumps won the tender from the principal contractor who contacted T-T Pumps to supply the hinged valves they need to complete the Angus Council project.

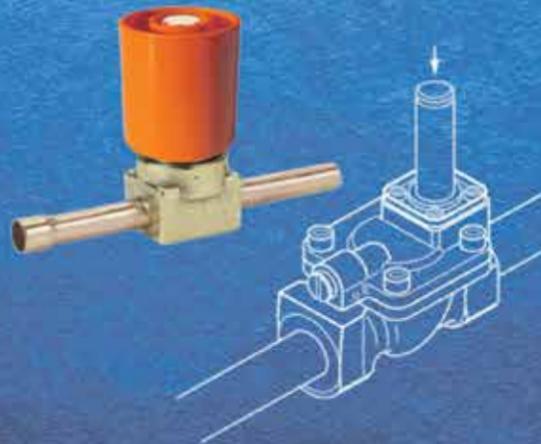
The supply of technologies like the Double Hinged Flap Valve has changed with increases in flood defence projects. T-T Pumps has always been able to react to these changes in the market need. With a diverse array of products ready to ship, project co-ordinators have come to rely on T-T Pumps for flawless supply they can count upon.

Any business that needs efficient support for their project can count on T-T Pumps to deliver. The Arbroath Flood Protection Scheme is an excellent example of how world-class service coupled with robust product design is recognised by contractors again-and-again.

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NOTE Windsor continues to invest in new machinery

In a culture of continuous improvement, NOTE Windsor takes pride in supporting our customers by delivering the right quality through the best technology. To achieve this, we continue to invest in new machinery and have recently taken delivery of a second new Ersa Hotflow 3/14e Convection Reflow Oven, widely regarded as the best in its class, with the 7 zone heat tunnel and a process length of over 4 metres.

It offers the highest throughput, optimised energy balance, best process control and maximum

machine up-times, with the “e” standing for efficiency

In addition to this, we have taken delivery of three Siemens Siplace SMT machines. This is a significant investment in capital equipment and will ensure that we have the correct capacity and capabilities to meet our growth strategy. The major benefits of upgrading the Siemens Siplace SMT line to digital machines from the analogue machines, is that the machines are more modern, reliable and repeatable.

The equipment gives us the manufacturing capabilities to continue to deliver consistently high-quality, whilst PCBs get increasingly complex. It gives us stable processes, reproducible parameters and ensures high standards when it comes to quality costs and delivery performance.

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A new twist on vibration monitoring!

Turn your motors into vibration sensors with Model-Based Voltage and Current (MBVI) systems to reveal hidden benefits by Geoff Walker, Operations Director, Faraday Predictive

Condition Monitoring of rotating equipment can bring big benefits through avoiding unexpected breakdowns and enabling more efficient maintenance, with one of the most widely used techniques being Vibration Monitoring.

But some situations that are getting more common in industry such as variable speed drives, with the resulting varying loads and electrical distortions, can make vibration monitoring more difficult. And hidden problems in sound-proof enclosures, remote-mounted, duct-mounted or submersible equipment can all make it difficult taking a vibration reading using a conventional accelerometer.

A new way of getting vibration readings in all these difficult situations can be provided by turning your electric motors into vibration sensors by using Model-Based Voltage and Current (MBVI) Systems. They detect the torsional vibration that is excited by a wide range of phenomena inside equipment, not just rolling element bearing faults. They also monitor energy consumption and calculate the energy being wasted by these faults. So your motor can actually tell you more about your equipment condition than conventional Vibration Monitoring. For a deeper insight into how this technology works, see: www.faradaypredictive.com/technical-education/mbvi-technology/

Torsional vibration
 Conventional vibration sensors measure radial or axial movement of the shaft whereas torsional vibration is movement of the shaft twisting along its axis. The motor driving the equipment ‘sees’ this vibration as subtle variations in the torque required to drive the equipment, which in turn results in subtle variations in motor current relative to voltage. This can be detected and automatically analysed by an MBVI system to provide a broad range of fault diagnostics and condition monitoring.

These systems also detect electrical faults and operational problems, eg. is it being damaged by being overloaded or stopped and started too often?

Because a shaft is designed to transmit torque from one end to the other, the motor can pick up signals coming from bearings anywhere along the length of the shaft. So even with a long shaft submerged pump like that illustrated, problems at the bottom bearing or any of the intermediate bearings can be detected. The different bearings can be discriminated by their different characteristic frequencies.

Faraday Predictive provides both fixed (‘S200’) and portable (‘P100’) units as shown here.

They also provide on-site service so you can ‘try before you buy’ using a P100 portable kit, giving you a risk-free way to prove the benefit before investing in buying kit of your own.

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Addressing real challenges in the electrical testing market



Metrel is one of very few companies that develops and manufactures its products at a single location in Slovenia, starting with design and ending with final assembly, quality control and calibration. From its UK office in Epsom, Surrey, Metrel UK supplies its leading range of measuring and testing equipment to customers across the country, as well as providing repair, adjustment and calibration services.

Metrel's extensive range of instruments offer innovative solutions for testing and measuring, ensuring its equipment is easy to use, intuitive and future proof. Many of Metrel's products are software based and use touchscreen technology, addressing the real needs and challenges of end users to create a range of products that will enhance the user experience.

Without a doubt, Metrel is committed to solving the issues workers face every day. "Right now lots of electricians own, and use daily, testers that are capable of storing their test results but find the feature too complicated and long winded to use, because they need to make notes about which circuit and board each relates to which location in the tester's memory," said Brendan Beaver, the UK Manager of Metrel. "They prefer to fill a copy of a certificate by hand and then make a fair copy either in their best handwriting, or by typing it up in a computerised certificate when they get home. What a waste of their time!"

Metrel understands that engineers need to be able to do their testing and save the results and notes on their tester without needing pencil and paper, so that it is ready to send to the depot or to quickly download. This kind of functionality is not available when a conventional LCD screen is the only thing available, as found on an ordinary multi-function tester.

With the introduction of dot-matrix displays from Metrel, an increasing number of users of multi-function testers like MI3152 and MI3155 are realising the advantages of being able to make notes using the touchscreen's full keyboard, eliminating the need for pencil and paper. What's more, the on-board fuse table and connection help screens allied with the pass and fail indicators to give the operator confidence to pass the results to storage.

Metrel's new memory management system is unique. Also benefiting from the dot-matrix touchscreens, it allows the operator to visualise the installation, highlighting components with a coloured icon, which makes it easier to post the results to the correct circuit without writing anything down. This simplicity is continued when the results are downloaded quickly and easily into an 18th Edition certificate via the USB port.

Metrel also offers a dedicated repair service and expert technical support, working with distributors and partners to offer solutions to any problems, to ensure its products are being used correctly and to their full potential.

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Soft-touch directional control and menu selection TACT switches

Foremost Electronics, importer and specialist distributor of electromechanical components has been the primary source for MEC switches in the UK for over 25 years.

Offering a flexible solution to HMI control functionality the MEC Navimec™ switch concept offers product designers a circular soft-touch TACT switch with joystick functionality.

Navimec™ switches make it possible to navigate up, down, left and right with the provision of a centre function that will typically be used as an 'enter' key. Navimec™ switches are available with

or without illumination and the non-illuminated versions may be over-printed with appropriate legends.

The Navimec™ five position navigational switch is ideal for data entry and motion control devices where a joystick function is needed. The switch is available as a complete module or may be supplied as single parts for custom PCB mounting.

Alan Vincent, Sales Director of Foremost, comments, "While there is a continuing trend toward touchscreen HMI control systems there

will always be applications for Emech switch solutions. Navimec™ TACT switches are ideal for system control in low or high ambient lighting where a tactile response is essential, in dusty or humid environments where touch screens can be unreliable and especially for directional control where operation of a Navimec™ TACT switch is instinctive, reliable and safe."

For any more information, please see below.

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3-Wire Ultra-Small Bridge Amplifier

The AS200501 is a very flexible ultra-compact board for 3-wire systems providing a current output (typically 4-20mA, but can be configured to virtually any linear gradient, ie. 0.2mA to 8.2mA, or even with mid-zero of 12mA for compression/tension transducers), designed to be mounted directly with the transducer.

The unit has individual multi-turn potentiometers for the precise setting of Zero and Span. The inputs provide EMI-/RF-suppression along with a low-pass filter. Transducer wires can be easily connected to the board by soldering.

Features

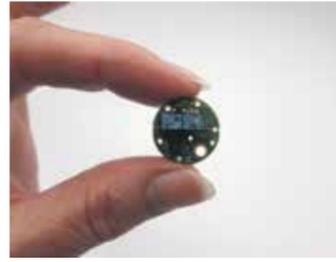
- ▼ Wide range power supply 8V-30V
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- ▼ Bridge sensitivity 0.2mV/V-10mV/V
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- ▼ Fast calibration procedure
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Applications

- ▼ Load-Cell Industrial Weighing
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Q Electrical Industrial Services Ltd emerges from acquisition



Despite uncertainty with Brexit and COVID-19, the continued growth of new VSD Contract Partnerships and Electrical Projects has led to Quantum Controls acquiring Lothian and Borders Electrical in East Lothian, Scotland.

Lothian and Borders electrical is one of Scotland's leading electrical contractors and through this acquisition Quantum now have a nationwide network of 6 Service Centres and a growing team of engineers providing a range of Electrical Services and solutions across the UK.

2020 was a difficult and challenging year for all, however as a service business with Key Worker status and over 250 VSD contracts, both companies have been extremely lucky to still be able to support our customers and experience significant growth in these troubled times. This has led to Quantum Controls being awarded the prestigious 'Drive & Motor Company of the Year' award from Industry Update.

The new Service Centre and experienced electricians will provide Electrical services such as:

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Traco Power medical power solutions

One of the key safety concerns with respect to medical devices is, that the patient is often electrically connected to the medical device. Since a medical device must be absolutely safe for both, the patient and the operator, all electronics including components must meet strict requirements according to IEC/EN 60601-1.



As an example: AC/DC power supplies and DC/DC converters for medical and healthcare applications, need to fulfill much stricter requirements compared to power supplies for the industrial market. Some of them main technical differences are additional requirements on the isolation system (2xMOPP), the leakage current, the isolation capacitance and EMC limits.

Traco Power offers both AC/DC and DC/DC solutions for medical applications, all of which fulfil the 2xMOPP requirement. Compliant with the EMC requirements of the 4th edition of IEC/EN 60601-1, they are suitable for all patient connected, body floating rated applied parts medical devices.

The AC/DC products range from small 5W PCB-mounting modules, a range of mid-power open frame designs, and enclosed power supplies offering power levels of up to 850W. Traco Power's DC/DC converter range comprises PCB-mounting modules with power levels from 1W to 60W.

For more information, videos, documents, articles and datasheets, go to: www.tracopower.com/medical-campaign

Rugged Fanless Embedded Xeon Server Solution with up to 16 Cores



The fanless Xeon Server from MPL AG enables to use a powerful server in rugged applications. The concept offers substantially more processing power, more memory capacity, more flexibility (M-COTS), than any fanless solutions in the past. The solution is designed according MPL's design philosophy which includes flexibility, low power consumption, fanless, extended temperature capability, and long-term availability.

The design of the MXCS server is such that the system is

conductive cooled. This fact allows the operation of the system even in the extended temperature range from -40°C up to +60°C. The conductive cooling concept can be adjusted to the actual application and location of installation.

The MXCS is modular extremely flexible and can be used in any rugged application. It is available in an standard enclosure for wall or desktop mounting, as 19" rack, in a rugged IP67 housing, or OpenFrame.

Key features are:

- ▼ Fanless by design (-20°C to +60°C)
- ▼ Intel Xeon CPU, up to 16 cores
- ▼ Up to 128GB ECC DDR4
- ▼ Two 10Gbit ports
- ▼ mSATA / m.2 Key M ports
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Conductive cooling concept -20°C to +60°C



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- 10+ years availability
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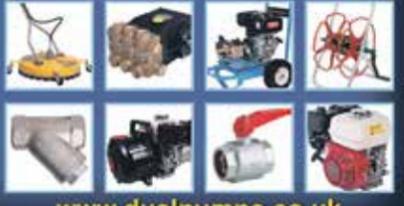
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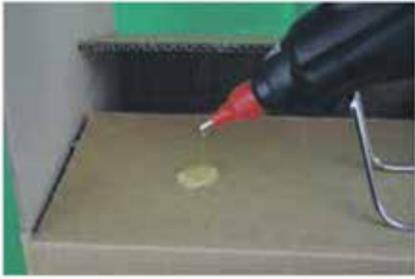
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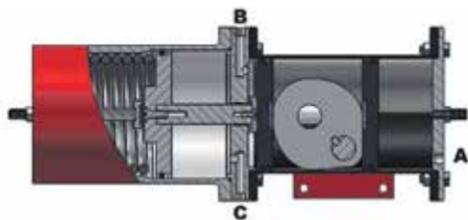
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Helping to create a sustainable future



Specialising in the production and supply of advanced, high integrity valve actuation, communication and control systems for the energy, marine and process industries, Imtex Controls boasts many years of experience within the area of process valve control.

At the forefront of innovation, Imtex Controls' key offerings are its smart monitors and the Valve Diagnostic Monitoring System (VDMS). "For over five years, we have been supplying valve monitoring and testing solutions



that are easily implemented into both new and ageing assets, to enable operators to log data from shut down valves. These solutions enable operators to meet their HSE commitments and help improve operational efficiencies," explained Jenny Myers, Marketing Manager.

Imtex Controls has also developed the Valvescan™ Diagnostic System, which is an end-to-end solution that captures data from every valve operation, analyses it and provides targeted alerts on the valve health without any requirement for involvement from plant personnel or any potential impact on the asset real-time control integrity.

This means that the valve will inform the plant personnel ahead of any maintenance or failure, preventing an expensive unscheduled shut down of a plant. It is also technologically ahead of many of its competitors, with a cloud-based application, which allows plant personnel to access the dashboard from wherever they are, not just on the actual plant itself.

It is a true IIoT solution for automated valves and it can revolutionise the way plants maintain and run their systems in the future. In addition, Imtex Controls is constantly working on improving its hydraulic, pneumatic and electro-hydraulic offering, including linear and low power solutions.

Its Camtorc Actuators provide a highly efficient, backlash free operation which in turn helps to maintain the lifetime of the seals and components. They provide high actuation efficiency in a compact design, limiting the space envelope and associated costs of an installation. They also have the longest lifetime value of all actuators; Imtex Controls still has products that are operating in the field after 30 years.



Camtorc Actuators, along with Imtex Controls' Valve Communication products, can also be employed for use in Blue and Green Hydrogen Production systems, Carbon Capture and Storage schemes, Biofuel Production Processes and Waste to Energy projects.

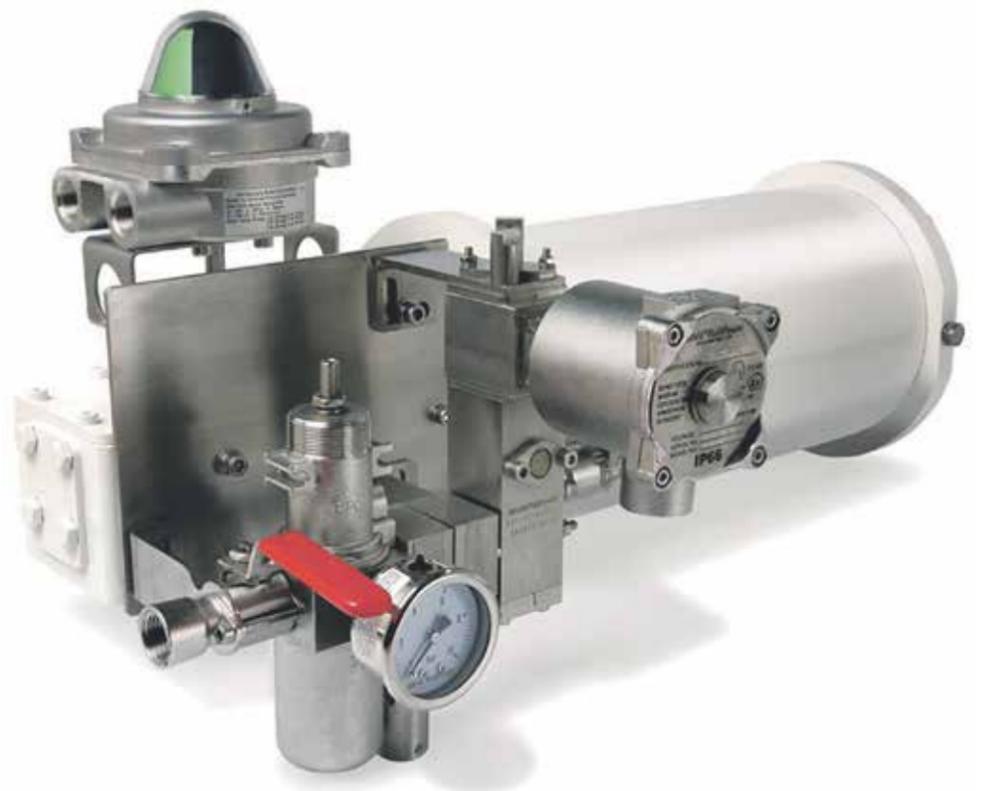
"The Low Carbon market will be a key focus for us this year. Our products deliver greater efficiencies and sustainability for these projects, helping to achieve low emission targets. There are several low carbon, CCUS and Hydrogen facilities being developed across the UK now, some that will be at procurement stage in 2021 and we feel that our products should be considered. With our prevalence in this industry and our quality

products, this is an area that we feel we can really offer lifetime value for money as well as products that can help these projects achieve their end goal of a reduced carbon footprint."

Of course, COVID-19 has caused a number of issues for the industry this year, with closed borders and face-to-face business meetings impossible for the foreseeable future. However, as a manufacturer, Imtex



Controls are considered key workers, and remain open and operating as usual. "We are not restricted by anything COVID-related and we are set up to operate a COVID-safe factory and business."



To find out more and stay up to date with Imtex Controls' latest news, head to the website or get in touch using the details below.

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