

INDUSTRIAL PROCESS NEWS

Tel: 0121 550 2086 - www.industrialprocessnews.co.uk - October - Issue 696

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Advanced Witness Systems Ltd

AWS specializes in measurement, calibration control and certification of torque instrumentation to national and international standards. Our staff have over 50 years combined experience providing innovative torque solutions in many industries.

We currently manufacture a wide range of intelligent torque transducers (1Nm up to 300kNm) alongside specialized displays and software to meet current torque standards.

Our new Universal Torque Wrench Calibration Machine (UTWCM) complies with ISO 6789:2017. Using the UTWCM operator fatigue is removed; especially calibrating large torque tools, by the computer-controlled motor drive system.

Along with the UTWCM, AWS has just released a new version of Kepler 4 calibration and conformity software fully complies with ISO

6789:2017 and 2003 or in-house standards as required therefore providing the complete package to calibrate, record and produce certificates. This package is currently in use in numerous accredited calibration laboratories worldwide. Kepler 4 can also be purchased as a standalone product.

Further new products; the AWS Universal Torque Screwdriver Calibration Machine (UTSCM) for ISO 6789:2017 and Excalibur software for ISO 7882:2017 (calibration and classification of torque measuring devices) are due for release soon.

With the recent release of the new UTWCM and Kepler 4 software, AWS is currently experiencing a period of growth assisted by our strong customer service. All our products come with full technical support to assist customers in installation and operation of the product (if required).



AWS

Advanced Witness Systems Ltd.
Torque Measurement & Calibration

More information on any of our products and a free trial download of Kepler 4 can be found on our website.

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ATAC'S Nuline Cone & Plate Viscometer

ATAC is delighted to announce a range of new features and improvements to our popular Nuline cone and plate viscometer.



We have listened to the valuable feedback from our customers worldwide and have incorporated many enhancements.

The improvements and enhancements include extra modes to increase flexibility of the instrument. A legacy mode and low speed mode permits the speed settings featured on the previous generation REL instrument. The low speed mode (5-90rpm) can be adjusted to 0.1rpm if desired. Further improvements means both the temperature and display is flexible to 0.1°C increments.

Enhancement to the cone accuracy via the calibration by cone size, as well as a security code feature allowing protection of the instrument settings and configurations. The PC interface software now includes an enhanced functionality with the added benefits of graph zoom in and storage, with minimum and maximum viscosity displayed.

Nuline is used in a wide range of manufacturing processes including, paints & coatings, inks, resins, petrochemical, pharma & medical.

For more information on Nuline please contact sales@atacgroup.com.

CUI? Lowest Water Absorption!



For Paroc, every day is a new opportunity to save energy, conserve resources and make decisions that help sustain our planet. We work to reduce our negative footprint and expand our positive handprint. PAROC products contribute to sustainability by creating an energy-efficient, fire safe and acoustically sound environment. We pay special attention to environmental aspects, such as energy efficiency, recycling and emissions.

PAROC WR PRODUCTS

- 10 x less water absorption than the requirements of the toughest standard (EN13472/24h)
- Half the water absorption of best competitor according to EN13472/24h
- Highest temperature range <300°C / 572°F
- Safe to use during painting operations and certified according to the requirements of the coating compatibility standard VDMA 24364
- More than 20 years' experience with WR mineral wool products for industrial applications
- Broadest WR offering range on the market including pipe sections, wired mats, mats and slabs

www.paroc.co.uk

IFL increases its warehouse storage facilities in the Midlands

International Forwarding Ltd has added a new and sorely needed 27,000ft² storage facility in the centre of Birmingham, West Midlands, to its portfolio of warehousing space, offering long or short term flexible warehousing and storage solutions.

The site has a range of modern handling equipment including 2.5 tonne capacity container spec forklifts. This is in addition to a 2,000m² secure warehouse storage facility which opened in the Midlands last May as part of the company's growth plans and quickly filled up.

Andy Grubb, Sales Director, International Forwarding, added: "Ultimately this is about delivering high quality, cost-effective supply chain logistics to the marketplace. We see this investment as a way to strengthen our service offering, especially to local businesses in Birmingham and the West Midlands who trade with Europe. The increased capacity should also help us to bring in additional forwarding and pallet distribution contracts from new UK and overseas customers."

Extra warehouse storage at Birmingham hub

The timing of this major expansion in the company's facilities is particularly opportune as several existing customers require additional warehousing to protect their



supply chain against Brexit-related issues. It also gives the sales team the tools to acquire additional forwarding and pallet distribution contracts from new UK and overseas-based customers. The existing management team will control the physical freight handling and the back-office functions for the new site.

30 years of IFL in the Midlands
IFL is a Midlands-based independent freight forwarder specialising in European groupage services, sea and air freight, UK haulage/pallet distribution, and warehousing. The company started trading in 1989 to fill a niche in the West Midlands to provide a personalised bespoke freight forwarding service to local exporters and importers.

For fast, flexible quotes and competitive storage rates, or to discuss your warehousing needs, call us on 01675 434690 or email: enquiries@internationalforwarding.co.uk

The Perfect Process Company

We are a niche consultancy focussing on delivering and sustaining improvement through Lean tools and techniques

We specialise in the application of improvement methods to optimise your processes, achieving significant business benefits through lead time reduction and right first-time delivery.

We work in 3 areas:

- Manufacturing improvement – Classic Lean improvement through value stream mapping and associated Lean tools
- Business Process Improvement – Improving the supporting office processes through process mapping and organisational alignment
- The Green Factory – Combining Lean thinking with reducing the environmental impact of your factory

Our Director Neil Trivedi is speaking at the Mach conference on Tuesday 26th January on the subject of The Green Factory. Come along if you want to hear

a first-hand account of how to make your factory green.

Great systems and processes are key to success in business and by reviewing these we help businesses to achieve greater efficiencies with resultant profit and cash flow benefits. We do this through our tried and tested coaching and training programmes. Our approach is to provide an initial diagnostic review, at our cost, to understand the business issues and discuss how we might help.

See us at the Mach conference on stand 6-641, 25-28 January 2021 at the NEC, Birmingham.

T + 44 (0)7758 953366
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Be more energy efficient with PAROC's insulation solutions

Industrial Process News is proud to announce that PAROC has been selected as our Insulation Company of the Month.

Make the world a better place by choosing energy efficient and fire safe insulation solutions from PAROC. Building an energy efficient environment is not just an opportunity to make huge savings, it is a responsibility for protecting the future of our planet. Homes and offices play a crucial role in reversing the effects of climate change, with around 40% of human-generated greenhouse gas emissions coming from poorly insulated buildings and the energy required to heat them.

Founded in 1937, PAROC boasts over 80 years' experience in manufacturing high quality stonewool insulation for commercial, residential,

industrial and marine applications. Found in the instantly recognisable red-and-white-striped packages, PAROC's products include building insulations for thermal, fire and sound insulation of exterior walls, roofs, floors, basements, intermediate floors and partitions as well as technical insulations for HVAC systems, industrial processes, marine & offshore industry and the OEM industry. The PAROC Group was acquired by Owens Corning in 2018, a company which develops, manufactures, and markets insulation, roofing, and fiberglass composites.

Notably, FOAMGLAS are also owned by Owens Corning giving a total fire-safe insulation offering with a hugely impressive temperature range, perfectly complementing PAROC's insulation portfolio with various applications.

PAROC technical insulation boasts making one of the largest ranges of sizes for pipework, giving installers the confidence that they can easily insulate their entire project. All PAROC pipe sections are 1.2m in length, allowing for greater area coverage during application. In addition to this, PAROC manufactures innovative solutions such as Pro Lock.

Pro Lock is a non-combustible stonewool pipe section specifically for industrial applications, providing the benefits of a two-layer insulation with the ease of a single layer installation. Pro Lock has a Z-lock connection in all circumferential and longitudinal joints, reducing thermal losses caused by thermal expansion.



Source: Paroc
PAROC Pro Lock

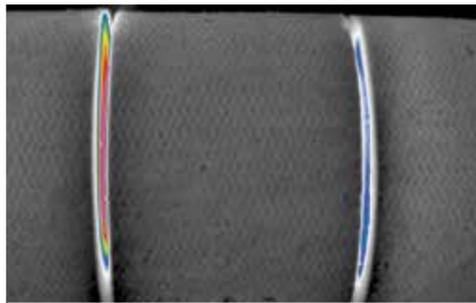
Notably, PAROC's water repellent (WR) products are market leading and proven to be better than the competition in fighting against corrosion under insulation (EN13472/24h). "We have more than 20 years' experience with WR products and we now have the broadest product range on the market, these include pipe sections, wired mats, mats, and slabs. They are also safe to use during painting operations and certified according to

the requirements of the coating compatibility standard VDMA 24364."

Building on its 80-year history, PAROC is always investing in and testing new products for specific markets and for different countries' requirements. Currently, the company is developing a Fire Rated ductwork insulation for the UK HVAC market.

If you would like to find out more information, head to the website or get in touch using the contact details below.

Contact
M +44 (0)7469 080181
robert.williamson@owenscorning.com
www.paroc.co.uk
www.paroc.com



Source: Paroc
Thermal camera showing comparison of PAROC Pro Lock vs standard pipe section



Source: Paroc
Just as a bird's wing - natural protection against CUI

Automotive News

Pioneer

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- **PARKING MODE** - ENABLES RECORDING EVEN WHEN PARKED

(*VREC-DZ600/700DC ONLY)









PIONEER-CAR.EU/DASHCAM

Generators & UPS for when failure is not an option

Industrial Process News is proud to announce that PPSPower has been selected as our Power Solutions Company of the Month.

PPSPower is one of the industry's largest and most respected providers of back-up generator and UPS service, maintenance, repair and installation services. With origins dating back to 1956, the company has the experience, expertise and innovative mindset needed to offer its customers the most cost-effective and efficient solutions available.

"Our solutions can be easily customised if needed. We do have standard contracts available, but if it makes sense to do things differently for a particular customer, we can," explained Stephen Peal, Managing Director.

Indeed, PPSPower prides itself on its consultative approach for each new customer. "Companies may not be aware of the costs of downtime if power is lost and processes stop. Or, if they do have a back up power system in place, we can help identify how long this might last for and if it's fit for purpose. We can talk to process companies and work out whether this is good enough for what they need, or if they need something else brought in, and find the best solution for their situation."



PPSPower's UPS (Uninterruptible Power Supplies) are an excellent way to protect mission critical processes. "If you're processing something and don't want a break in power, then this is the set up you need. If the UPS is working properly, you won't even know if there's been a power cut, because everything will carry on running smoothly without even a flicker in the lights."

Offering a wide range of affordable UPS solutions, PPSPower is an authorised Riello UPS reseller and service provider. This means



the company can provide compact, free standing or rack mounted user-friendly single-phase UPS solutions for small to medium sized businesses, which ensure reliability and availability from 700 VA to 20 kVA. PPSPower also offers revolutionary backup power supplies and standby diesel generators for large networks and data centres. This includes three phase Riello UPS solutions from 10 kVA to 800 kVA and scalable to 6.4 MVA, providing class-



leading availability, scalability and high efficiency suitable for today's demanding IT environment. What's more, PPSPower can offer specialist UPS solutions for use in harsh environments and external applications, and industrial UPS from 30 kVA to 125 kVA. There is also a selection of UPS battery solutions to meet any autonomy requirements and space/floor load restrictions that may exist at a facility.

To complement this range, PPSPower's expert UPS engineering team provides site

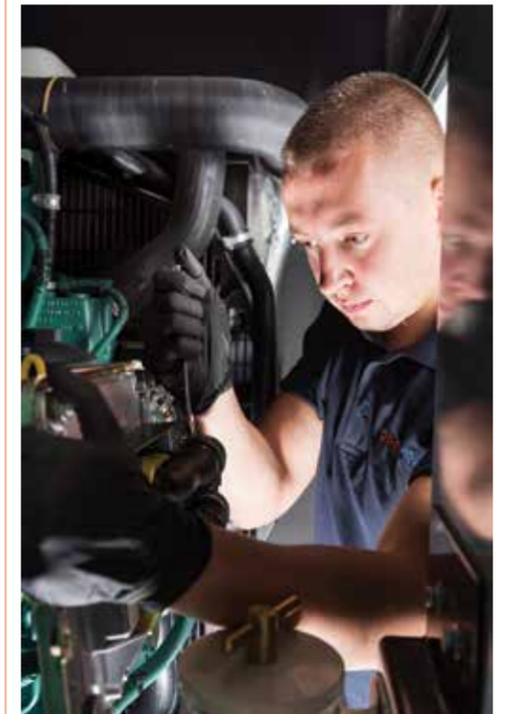
surveys, installation and commissioning services, UPS and battery load bank testing, UPS end-user products training, and UPS after sales service and maintenance contracts. Whatever your requirements, PPSPower is there to offer support through the entire process of your UPS installation. With comprehensive, competitive and tailored UPS maintenance packages, PPSPower ensures peace of mind and a solution to suit your budget.

PPSPower also offers a Green Contract, which provides a sustainable way of carrying out proper preventative maintenance on a generator, if appropriate for the company. This includes two site visits a year, one minor

this, PPSPower also offers a Red Contract, which includes additional tasks.

Although the COVID-19 pandemic has had far-reaching consequences, PPSPower has managed to pull through and is now just as strong as it was before. "We were affected for about a month of the lockdown period, and were at about 50% of our normal turnover. But we took advantage of the furlough scheme and we're now back to where we were before.

"I think the main reason for this is because of the variety of market sectors we work in.



Obviously, we weren't doing any work in the hospitality or events industries because they were significantly affected by the pandemic. But we were still working with the NHS and hospitals, and now people are beginning to return to work we're seeing other market sectors start to pick up again too."

Certainly, having pulled through the challenges imposed by the last several months, PPSPower is primed to continue its growth and help ensure its customers stay up and running. If you would like to find out more information, head to the website or get in touch using the contact details below.

and one major. Both of these visits consist of 56 checks, which include a 26-point engine check, a 24-point battery, control panel and electrical system check, and a 6-point fuel system check for safety and reliability. If a company requires anything additional to

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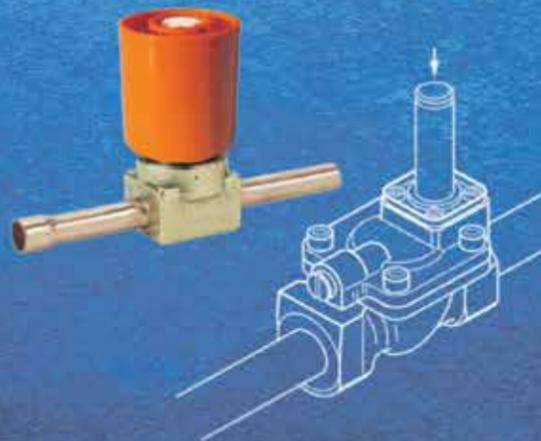


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Southern Manufacturing & Electronics 2020

Southern Manufacturing & Electronics took place on 11 – 13 February 2020 at Farnborough International Conference and Exhibition Centre.

As one of the most important and popular engineering shows in the UK calendar, Southern Manufacturing & Electronics features a diverse range of suppliers every year, rising above any particular sector of the engineering industry. Attracting a number of big-name manufacturers, it is also an extremely accessible show for the rich eco-system of engineering SMEs operating across the UK and continental Europe. This not only gives the show its unique character, but also makes it one of the most effective shows for addressing multiple sourcing issues in a time-efficient way.

Without a doubt, Southern Manufacturing & Electronics gives companies a fantastic opportunity to present their products and services to thousands of key industry buyers and specifiers. Visitors also benefit from a complementary blend of technical and business seminars, covering

SOUTHERN 20 Manufacturing & Electronics

Farnborough International Exhibition Centre
11th to 13th February 2020

a wide range of issues facing manufacturing businesses today.

Southern Manufacturing & Electronics will return to Farnborough on 20 – 22 April 2021.

This is our pick of the best exhibitors from this year's show, listed here in alphabetical order: MHP Industries Ltd, Mersen, PPG, Rebound Electronics, Time 24, Unison Ltd. Further details can be found on this page and the next page.

www.industrysouth.co.uk

More awards for panel wirer Time 24

With 240 staff at sites in Burgess Hill UK and Vizovice in the Czech Republic Time24 are one of the most established panel wiring Contract Manufacturers across Europe. Approved to both quality standards ISO 9001 and ISO 22163 the Company has an impeccable quality reputation and works with a world class customer base. All technicians are trained to IPC/WHMA-A-620 workmanship standards and the Company has recently won awards for being one of the fastest growing Companies in Sussex, and Manufacturer of the Year in the Gatwick Region.



Time 24 have a thirty year history of building Control Panels, Electromechanical Boxes, Wiring Harnesses and Cable Assemblies for a wide variety of industries including Factory Automation, Rail, Defence, Oil & Gas, Medical, Nuclear, Mil-Aero, Capital Equipment and Sustainable Energy Projects. Services include electrical control panel design, manufacture of control panels, installation and commissioning, and software programming.

With over 100 staff at their manufacturing site

in the Czech Republic Time 24 offer highly competitive low-cost manufacturing solutions. The Company will be exhibiting again at next year's Southern Manufacturing Exhibition and at the Drives & Controls Exhibition at the NEC in January 2021.

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In addition to the tailor made fixtures we can supply CFC plates of various thicknesses cut to size to suit your hotzone dimensions, and for the heavier loads we produce interlocking grid systems.

It is becoming common knowledge within the vacuum heat treatment industry that switching from metal to CFC work holding equipment has many advantages, not least the energy saving due to a massive reduction in "none value-adding mass", and reduced post treatment machining.

Other products Mersen supply include graphite heaters, graphite hearth equipment and graphite based insulation material such as soft and rigid felts, all of which ensure that the heat stays in the furnace, and on the parts, ensuring the process is as energy efficient as possible.

If you are considering switching to CFC, or want to expand your existing CFC equipment, please contact john.whitaker@mersen.com

World Leaders in Tube Bending Technology

Unison Ltd was established in 1973 and as the inventors of All-Electric CNC Controlled Tube Bending Machines in 1994, we have the largest range of bending machines of any manufacturer in the world.



Based in Scarborough UK, Unison design, manufacture and build the complete solution including their widely recognised user friendly Unibend control system. With a team of over 60 people, we are uniquely positioned to be able to support all our customers nationwide.

Bespoke designed products tailored to specific customer requirements account for a significant proportion of our business, from diverse market sectors including aerospace, automotive, marine, oil and gas, energy and custom products.

The Unison Breeze is also the machine of choice for the Job Shop. The flexible user-friendly software, feature rich, rigid design and above

market power output, makes the perfect solution for this application.

Our portfolio of innovative software tools provides an end-to-end tube bending service. Our advanced 3D simulator, Opt2Sim, allows users to analyse, optimise and validate programs – without needing access to the physical machine.

Unison's unique design provides automatic set-up, right first-time manufacturing, improved repeatability and accuracy- all with reduced skill requirements. Find out more at: www.unisonltd.com

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Our Service
Rebound Group is an international organisation, with the ability to source components globally. We work as a partner to fix and then prevent problems in your supply chain.

As an Independent Electronic Component Distributor, we are uninhibited by the restrictions of franchise agreements, allowing us to competitively source the components you need, in line with our strict Quality practices.

We are a privately owned, service driven business, with a work ethos installed in us by Simon Thake, our group CEO. "Rebound have the scale and quality of service needed to ensure production does not stop. We offer 24/7 global support and are well placed to deliver available product, while also searching for hard to find products without compromising quality."

Our Quality

We have in house inspection and QA capability, to ensure that we consistently meet the high standards you and this industry expect.

Our Enhanced Inspection Equipment

Ongoing equipment investments enable us to offer an ever evolving inspection process.

- Creative Electron Prime X-Ray System
- Abi Sentry Counterfeit IC detector
- Keyence VHX-5000 Series microscope & baking oven

Our Stock Management

Our 19,000 sq. ft UK Distribution Hub is based in Thatcham, Berkshire. This new facility boasts a temperature controlled, ESD environment which is indicative to the handling and storage of electronic components.

Global Reach

The Rebound Group consists of 30+ offices in 17 countries, including centralised purchasing in Dubai, and warehouse facilities in Europe and Asia.

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**Southern
Manufacturing
& Electronics
Show Review Top
Exhibitors**

**MHP Industries
Ltd**



MHP Industries Ltd. was established in 1972 and are the leading experts in vacuum forming and toolmaking to the plastics industry.

We produce Vacuum Forming's for a wide variety of requirements from Industrial transit packaging, engineering forming's and medical enclosures, to safety products.

MHP has invested heavily in the finest available equipment, we have installed CNC Routers allowing for 5 axis machining on vacuum formed parts, producing consistent parts time after time.

Vacuum Forming is the process of moulding extruded plastic sheets heated to a predetermined temperature. The sheets are heated and then sucked down by applying a vacuum to the underside of the mould, atmospheric air pressure then forces the heated plastic to adopt the shape of the mould.

The tooling department is an integral part of our production facility and have been producing tooling for our own in-house requirements to support our thermoforming, Injection moulding and CNC trimming requirements along with supplying numerous companies with tooling who utilise our knowledge and experience to support their own production.

We are an environmentally aware company, committed to using recycled materials, recycling and reducing waste through accurate production methods and considered manufacturing.

Contact info@mhp-uk.com or visit www.mhp-uk.com

PPG

At PPG, we work every day to develop and deliver the paints, coatings and specialty materials that our customers have trusted for more than 135 years. Through dedication and creativity, we solve our customers' biggest challenges, collaborating closely to find the right path forward. With headquarters in Pittsburgh, Pennsylvania, we operate and innovate in more than 70 countries and reported net sales of \$15.1 billion in 2019. We serve customers in construction, consumer products, industrial and transportation markets and aftermarket.

PPG's global aerospace business is a leading manufacturer of original equipment and replacement aircraft transparencies, PRC® and Pro-Seal™ aerospace sealants, DeSoto® and Deft® aerospace coatings, Cuming Microwave specialty materials and coatings, Semco® packaging and application systems for commercial, regional, military and general aviation, as well as chemical management and other services.

For more information, visit www.ppgaerospace.com.



Health & Safety News

Portable decontamination misting shower launches

Hughes Safety Showers has introduced a portable multi-nozzle decontamination misting shower suitable for use as part of general hygiene facilities or for decontamination of PPE prior to removal.

In these unprecedented times as more businesses begin to re-open, the safety of the workforce is paramount. With the PORTAdec 500, users are provided with a top to toe decontamination via a fine mist of electrolysed water. 100% safe for human use, and of no danger to the environment, this disinfectant solution is non-toxic and can be used on clothes and skin. In addition, a self-sanitising

mat at the base of the unit ensures the soles of shoes are decontaminated prior to stepping onto the drying area of the demarcation zone mat.

A 15 litre cylinder is filled with the electrolysed water and requires no power, allowing the unit to be entirely portable and suitable for use both indoors and outdoors. All components are stored within a transportable case on wheels and are quickly deployed.

"With over 50 years expertise in the design, manufacture and supply of emergency safety showers, eye/ face wash and decontamination

equipment, Hughes are ideally placed to offer innovative engineered solutions for demanding life-saving situations and for the current circumstances we now face", comments Paul Darlington, managing director of Hughes Safety Showers. "With enquiries from manufacturing and petrochemical sites to dentists and adult learning centres, we believe this product could help many types of businesses in supporting their COVID-19 containment strategies."

Contact www.hughes-safety.com/portable-decontamination-misting-shower.html



**SAFETY LIGHT CURTAINS
WITH BLUETOOTH INTERFACE**

**SAFETY LIGHT CURTAIN APP MAKES
COMMISSIONING AND SERVICE EASY**

The first safety light curtain from Schmersal with a built-in Bluetooth interface. The SLC440/COM with Bluetooth BLE is an active optoelectronic protective device that makes all status and diagnostic data on the operating status of the device available on smartphones or tablets via a Bluetooth interface on a real-time basis.

In combination with the Schmersal App "SLC Assist" the operator uses this diagnosis tool for a safe operation, setup and documentation of a Schmersal AOPD by using a smartphone or tablet.

THE "SLC ASSIST" APP

The "SLC Assist" App gives information about:

- Operating mode
- Beam signal level
- OSSD status
- Status of the protective field
- Number of OSSD switches
- Supply voltage
- Operating time

INNOVATIVE TECHNOLOGY

The light curtain with Bluetooth interface and the Schmersal App gives optimal support for:

- Condition monitoring
- Optimal alignment
- Preventive maintenance
- Documentation according to industrial safety regulations

The App "SLC Assist" is available for Android and iOS devices. Scan the QR code below for info, videos and App downloads.



Schmersal UK & Ireland
01684 571980 | uksupport@schmersal.com
www.schmersal.co.uk | www.products.schmersal.com



Easier hearing tests at work

Demonstrating a wealth of knowledge from the company's over 30 years of experience in healthcare technology and services, WorkScreen has created a revolutionary, portable, no-contact and cost-effective hearing test for the workplace.

"With many OH companies unable – or refusing – to offer hearing tests at work while COVID is a risk, we provide a safe, easy and low cost way of conducting workplace hearing tests. This means companies can continue to provide this essential health test and comply with their obligations under Noise at Work Regulations," comments Tom Parker, Managing Director.

Developed in the UK by Tom Parker and Mark Ashmore to be user-operated by anyone familiar with a tablet or smartphone, WorkScreen provides a high-quality industrial hearing test service without the usual hassles associated with hearing tests. The system uses WorkScreen's e-health technology to carry out individual audiometry tests and provide reports over the internet to HSE guidelines, which makes each test easy, accessible



and consistent. The test therefore enables companies to meet their legal requirements under the Noise at Work Regulations. The hearing test reports are presented on screen at the end of each test for immediate



review and a copy is emailed for permanent record, with a management report summing up the results and any observations. Importantly, the service also includes a referral pathway for anyone with suspected hearing problems.

WorkScreen is the world's first calibrated online hearing test system dedicated to Occupational Health and addressing Noise Induced Hearing Loss (NIHL).

In terms of the company's services, WorkScreen is available in three options: 'on demand' – where you simply rent a handset for a number of tests and return it afterwards; 'comprehensive' – where a licence means you retain a fully supported handset for 24/7 availability; or 'pay as you go' – which is a flexible combination of the other approaches.

"Our main benefits are flexibility, safety and convenience," Tom stated. "By using our handset at your own facility, staff and workers use it wherever and whenever they need to. This maintains safe distancing, while working around your staff's availability lessens the productivity impact of conducting a number of hearing tests – so saving



money. It's easy to use, requires no specialist training and meets requirements of the Noise at Work regulations."

WorkScreen provides occupational hearing test services for a range of sectors including manufacturing, construction, telecoms and food production. They also work with health and safety providers and occupational health organisations to ensure that hearing surveillance, screening and compliance is both accessible and easy to use.



With the current uncertainty surrounding the Coronavirus, the impact on businesses and companies is



astronomical and WorkScreen wants to reassure its clients that its services are highly adaptable, dependable and flexible to help companies through this time. "With the uncertainty of COVID-19, our clients appreciate the visible and noticeable reassurance using WorkScreen provides for their staff, whilst maintaining their legal requirements for hearing tests and minimising the chance of transmission. Our handsets are easily cleaned between tests and can be left at your site for long enough to test staff when they are back in the office."

In terms of the company's future plans, Tom told us that, "We want to continue developing our service and supporting small and medium sized businesses in particular, where it's so important everyone can gain access to hearing tests and protect their hearing health."

For any further information, please see the details below.

T 0117 230 1717
www.workscreenuk.co.uk



Water Management News

New Engineering Manager offers fresh approach for sera's customers



We got the chance to speak to sera ProDos' new Engineering Manager, Andrew Ramsey, about his new role and how this world-leading company has stepped up to the challenges of the COVID-19 pandemic.

Andrew brings a wealth of experience to sera ProDos, and is helping the company to take a fresh outlook on its problem-solving methods. "I joined the company in March this year after spending eight years in an international chemical company, and 18 years before that with another German pump manufacturer. I come from a background of being told there is a process problem and having to find the entire technical solution, whereas direct sales focus on answering the questions that relate to the equipment.

Now, we actively promote an ethos of 'tell us your problems' so we can help in finding not only the correct in-house equipment, but also a holistic solution to the process application. This includes

a full design, specification, quotation, build, project manager commission and service package where we support the customer from problem to resolution. We no longer assume there is a straight, out-of-the-box fix for all customers."

Certainly, Andrew is known for his commitment to getting things right first time, dedicating lots of time to understanding the master process to get a better grasp of why the problem occurred. "I have my IOSH Managing Safely qualification so I also ensure that all of my installations are performed not only to the highest quality, but to a high safety standard, with no excuse for cutting corners. I am also always on the end of the phone to lend my technical support, so customers can make do and mend if needed to get them through the night, knowing that we will always follow up with a more in-depth solution as soon as possible."

As well as adding Andrew to its team, sera ProDos has also recently expanded its design capability, with the Siemens Solid Edge. In time, the company



will be able to offer design drawings for the custom dosing packages it already offers, as well as process drawings of the turnkey and process installations it manages. As the engineering department grows and develops, the intention is to take on apprentices to help build the team and shape the engineering minds of the future.

So how has sera ProDos supported its customers through the uncertainty of the last few months?

"We've been making sure our customers know that we are always here to help. We are a growing team, far more than just what is in the catalogue, as there are not enough pages to show you the world of possibilities we are here to provide. We want to support all levels of customers, from the one-person water treatment specialist, to the engineering companies, up to the multinationals needing bespoke technical support for water treatment and process understanding. If all that we can offer is a cup of tea and some friendly advice, we are happy to help. During Lockdown we also

added a new Sales Administrator, Roz Hardwick, to the team. She is always available to take calls and prepare quotes, as well as offer technical support where possible."

In line with this outstanding commitment to its customers, sera ProDos will be hosting training sessions on dosing fundamentals, process design and service & repairs, as soon as lockdown restrictions allow. "We will be receiving anyone who wishes to attend with a warm welcome, and a warm drink if needed. These 'Lunch and Learn' sessions will be held at our facility where possible, but we also want to take them on the road to those customers who can't take that amount of time out of the office to travel to Burton-on-Trent."

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Tool-less production of 100% wax patterns

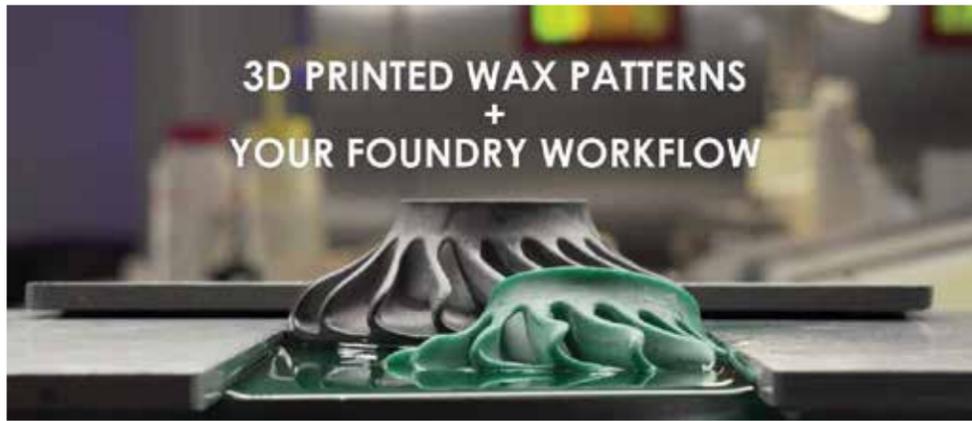
Industrial Process News is proud to announce that Solid Ground Curing has been selected as our 3D Technology Company of the Month.

Are you looking to accelerate your production, reduce your costs, and put yourself ahead of the competition? With



Solid Ground Curing's range of technology from 3D Systems, you can benefit from transformative improvements at every phase of creation, from initial concept design to the production of final products.

Established by Liron Noy in August 2018, Solid Ground Curing is informed by many years of personal experience. "After 20 years of experience in the RP market, 13 of them in jewellery and wax patterns applications, I decided to team up with



casting house or foundry workflow."

As a development of this, Solid Ground Curing now offers the ProJet 2500IC, the only 3D Systems reseller to do so. The 2500IC is based on the phenomenally successful ProJet 2500W. "While the 2500W is a great machine for producing jewellery and small intricate wax parts, the 2500IC is covering the more industrial



3D Systems and promote their latest developments of wax printers.

"Before, the RP machines that were offering decent quality wax patterns were awfully slow and temperamental, while the resin-based printers offer speed but poor accuracy and casting results," explained Liron. "The ProJet 2500W offers the best of both worlds. Customers who have bought this benefit from a massive jump in their throughput capacity of patterns that are 100% wax and are very easy to cast. These patterns can seamlessly integrate into any



applications where bigger patterns and higher throughput is required. Both the 2500W and 2500IC can be used for low to mid-volume production of wax patterns, saving time and money, and are both very easy to use."

Solid Ground Curing is certainly committed to finding the most suitable technologies for its customers' needs and applications. At its location in Welwyn, Hertfordshire, the company has an office, showroom, and workshop, which allow it to run the machines on site for benchmark production and demonstration purposes. This means customers can see first-hand the technology's capabilities and if it is the right choice for their needs.

"We do not see ourselves as a selling organisation, but more as an engineering consultancy," said Liron. "We offer

are happening all the time. We are also getting into the architecture market with the ProJet 660plus, which is capable of building large colourful models. We have two of these machines in our workshop, and we can offer service, support and backup services to our expanding architecture customer base.

"We also have extensive experience with fine art, figurine manufacturing, and train models for both hobbyists and professionals. We can help and support



customers machines to try or we help them with their projects to justify the purchase of the equipment and evaluate the return on investment. We also offer a service bureau for prospects who are early in the consideration stage to expose them to the capabilities of the technologies and reassure them that they will see the return on their investment very quickly."

Certainly, through investing in this 3D technology, companies can save on running and labour costs thanks to the equipment's easy to use nature and highly advanced software. "Our products usually integrate into customers' workflow and the adaptive stage is virtually minimal if not seamless. None of our competitors are able to offer a similar product that will match the capacity and the quality of our patterns."

And, as Solid Ground Curing was only established two years ago, the company is developing at a rapid pace. "Changes



many individuals when it comes to prototyping and finishing products, not just designers and manufacturers."

Of course, the COVID-19 pandemic stalled operations across numerous sectors, and after a fantastic 2019, Solid Ground Curing saw a decline in customers looking to invest in this machinery due to the rising levels of uncertainty. However, things are starting to look up as the market begins to recover, and Solid Ground Curing is looking forward to future projects and investments.

"Our target is to be the market leader for most wax and investment casting applications along with mould making. There are many companies out there that would benefit from being able to produce wax patterns in house, or being able to print the finished products in house. So, our goal is to get to these companies and show them the benefits of our printers along with working closely with 3D Systems to develop future products."

If you would like to find out more information on Solid Ground Curing, its range of 3D technology, and how it can work with you to find the solution you need, head to the website. Alternatively, get in touch directly using the contact details below.



T +44 (0)1438 487197
mail@sgc3d.com
www.solidgroundcuring.com

Industrial Cooling Equipment

Industrial Process News is proud to announce that F&R Products has been selected as our Water Cooling Company of the Month.

F&R Products Ltd manufactures, sells, services and repairs all forms of industrial water cooling equipment, trading nationally and exporting worldwide. As one of the oldest and most experienced manufacturers of industrial cooling systems in the UK, F&R Products can trace the design and components used in its equipment back to 1961 and beyond, and it is ISO 9001:2015 and F-Gas certified.

Using its many years of expertise, F&R Products provides innovative and flexible solutions to end users within all sectors of industry, with the ability to vary design, outlet water temperatures, physical size, ambients, mechanical control systems and electrical/electronic controls. What's more, thanks to its network of expert engineers located across the country, including the Republic of Ireland, F&R Products are also able to offer service and repair of all brands of industrial cooling equipment.

One of F&R Products' notable ranges is the RCU range of water chillers. These boast a unique design with the ability to chill tap water to 1°C without the addition of glycol, making them ideal for cooling potable water in the food industry. Their unique system of copper coils immersed in an insulated tank can support high or low volume water flows, without the problems associated with other conventional evaporators such as plate,



coaxial or tube in tube designs. As well as copper, F&R Products also offers a range of other materials for the evaporator including various grades of stainless steel. The RCU water chillers' design also offers a far greater degree of temperature stability than that of conventional chillers due to the large water volume acting as a thermal flywheel. F&R Products can also specially size the coil to fit within a

customer's existing tank.

F&R Products also supplies a range of flat bed or 'V' block dry air cooler models as a free-standing entity or as a purpose made assembly, designed to suit specific sites complete with bulk holding tanks and pump sets. There is also a range of Dry Air Coolers, which are supplied complete with integral pumps and tanks. They are available with duties ranging from 3kW to 200kW, ready for immediate connection to on-site pipework and electrical supply.

The company's standard range can be modified to suit customers' requirements with a wide range of options available, and can also be adapted to specific criteria required by the customer. In fact, F&R Products specialises in manufacturing bespoke equipment for its customers on top of its standard range ready for on-site installation. F&R Products is



also an agent for the Hyfra Pedia range of water, oil and emulsion chillers.

Dedicated to continual improvement and offering an efficient, successful and diverse service for its customers, F&R Products has earned an enviable reputation across the industry, something which is sure to continue into the future.

To find out more information, head to the website or get in touch using the contact details below.

T 01823 663281
sales@fandrproducts.co.uk
www.fandrproducts.co.uk

Surface Finishing & Coatings News

Curtiss-Wright Surface Technologies

Curtiss-Wright Surface Technologies (CWST) provides high quality surface treatments which will improve the life and performance of critical components through its global network of over 70 operating divisions and specialist onsite teams. Our surface treatments have been successfully used by OEM's in major industries such as aerospace, automotive, oil & gas and power generation for many years.

We are only too aware of the logistical challenges

and costs faced by our customers and so we can offer a "One Stop Shop" solution providing a wide range of surface treatments including Controlled Shot and Laser Shock Peening, bespoke and trade Coating Applications, Thermal Spray Coatings and Parylene Coatings for metal, alloy, plastic and electronic components as well as Analytical Services.

We offer our customers a single source solution and point of contact for all their surface

treatments, supporting their requirements through our global network of over 70 worldwide facilities and on-site field teams, improving and reducing turnaround times and costs. We are specialists in protecting components from common failures and reducing maintenance costs for key industries such as aerospace, oil and gas, automotive, medical and general industrial markets.

To find out more please visit www.cwst.co.uk.



RENA diversifies with additive manufacturing

RENA Technologies acquired Hirtenberger Engineered Surfaces (HES) on 16 July, and established a new market segment, additive manufacturing (AM). The existing team, exceptional process know-how and cutting-edge Hirtisation® technology will be integrated into the RENA corporate structure as a global player. The new RENA Technologies Austria (RENA AT) is to operate as hub for activities in the additive manufacturing segment. RENA AT will also function as technology and development centre for all aspects of electrochemical surface finishing.



Hirtisation® technology is at the core of the new RENA Technologies: it is a high-performance tool for post-processing of 3D-printed metal parts. Of decisive importance in modern 3D-printing technology is surface finishing that permits the use of 3D-printed components. The process—precise, automated and suitable for mass production in 3D metal printing—is an alternative to conventional post-processing methods.

'The outstanding expertise and efficient implementation of modern production machinery designed to respond to customer needs immediately impressed us', says Peter Schneidewind, RENA's CEO, who adds, 'Hirtisation® technology complements perfectly RENA's product portfolio.'

Hirtenberger Engineered Surfaces (HES)
 Headquartered in Hirtenberg near Vienna, Austria, HES focuses on dynamic electrochemical surface technology. The H3000 and H6000 compact finishing modules developed on this basis are worldwide the first fully automatic machines for post-processing 3D-printed metal parts.

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We supply automatic dosing equipment, spray nozzles and standpipe fittings for pretreatment plants and powder coating equipment parts

WEB: www.bcmetalfinishing.co.uk

Walter makes a historic leap in cost-effective tool regrinding and erosion

Walter has announced two new entry-level machines for re-sharpening and manufacturing a wide range of carbide, PCD and HSS tooling in the most cost-effective way.

The new Helitronic Raptor is targeted at carbide and HSS tooling up to 320 mm diameter and up to 280 mm long (including end face operations), while the 'two-in-one' eroding/grinding Helitronic Raptor Diamond is designed for PCD tools up to

400 mm diameter and 270 mm long (also end face operations). Available from Walter Ewag UK, a member of the United Grinding Group, both machines are offered at attractive prices. And users can 'upgrade' the standard models with optional extras to suit their needs and budgets. Both machines can be configured with, for instance, a Top Loader (which accommodates up to 500 tools), glass scales, torque drive on the A axis, wheel probe and

manual support steady rest.

Targeted at the manufacturing of rotationally symmetrical tools, the 11.5 kW spindle Helitronic Raptor maintains Walter's renowned build principles based on the use of a low-vibration, solid grey cast iron gantry-type construction. It features the powerful yet user-friendly Helitronic Tool Studio 3 software with integrated Wizard technology for ease



Laboratory News



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of use. This has a host of routines for 'what you see you can grind' fast tool production simulation, parameter changes and operation – the design and programming of complex tool geometries, including individual tooth geometries and tool parameter scaling, as well as fast 3-D live simulation routines. Also included is functionality for:

- Cut-off operations - compensating for worn wheels;
- Probing and alignment of asymmetrical flats - more functionality to define probing points/probe the exact position for perfect alignment; and
- Automatic collision control.

In addition, Helitronic Tool Studio's software options embrace, for example:

- In-process wheel measurement inside the machine;
- Core compensation for drills - core parameter and tolerance band;
- Automatic machine axis referencing - using setting disc with electrical isolator; and
- Thread milling cutters - diameter/flank grinding and OD grinding.

Based on similar build principles, the 'two-in-one' Helitronic Raptor Diamond, which uses an HSK interface for electrode/grinding wheel mounting, also features an 11.5 kW spindle and its Helitronic Tool Studio software embraces integrated erosion functionality for the fast and easy programming of 'what you see you can grind and erode'.

The machine also boasts Fine Pulse Technology, a Walter innovation that sets new standards in terms of PCD tool surface and cutting edge quality, as well as process reliability and speed of erosion. Fine Pulse Technology is the result of progressive improvements to the machines' generator as well as the erosion software.



With Fine Pulse Technology, there are marked differences to PCD tools of standard grain type that have been eroded by other machines. Indeed, the differences can be seen with the naked eye - the surface finish is like that of a polished (ground) tool and even coarse-grained PCD types can be fine-finished with perfect surface qualities. This means that subsequent steps in production can be eliminated because no polishing is required.

With such super-fine finishes, PCD tool providers can now achieve superb levels of tool surface quality and cutting edge within similar processing times as before but, with the Helitronic Raptor Diamond, at very cost-effective rates.

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and output signals galvanically isolated and is universally powered: 85 – 265VAC or 10 – 40VDC. The IAC incorporates a 320 x 480 TFT LCD daylight readable display (320 x 480 pixels) which ensures that use is as easy and clear as possible. With an advanced processor, one wild flow channel, six simultaneous additive channels, six relay solenoid drivers, six pump start drivers and 1 x analogue input for temperature compensation, the IAI6 is a must have for any businesses needing simple to use injection controller solutions. The combination of the controller and additive injection block offers a uniquely compact additive injection system which is configured by touch screen, an infrared remote control or RS485 communication via a host.

The one item that has been missing from the

Innovec manufactured product range has been a flow measurement sensor. We have filled this gap by introducing our own Oval Gear positive displacement flow meter. Because of the materials we are manufacturing this flow meter will work on water, oil and acids.

Innovec's future plans centre on growing its identity and presence and ensuring that all products and services it provides adhere to the company's purpose. Getting the word out is of course essential for any business, with this in mind Innovec hopes to penetrate the UK and European markets with the same ferocity that it has done in Australia, Asia and Scandinavia.

For more information on Innovec and its product



range see the details listed below.

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www.innovec.com

Over the last 12 months Innovec, a control instrumentation and LED safety light product designer and manufacturer, has focused largely on establishing a presence in the UK and European markets. Innovec is based in St Leonards, Australia, and provides solutions for businesses worldwide.

The company has always adhered to various niches which includes flow measurement products, fuel blending, batching systems, additive injection, a combined batching and additive injection system, external LED safety lighting for Metro Rail, external LED safety lighting for tram applications and external LED safety lighting for Locomotive Rail applications. When supplying products that relate to safety and wellbeing, ensuring that customers trust is imperative. Innovec acknowledges how vital this is and subsequently keeps to a rigid code of health and safety practices.

Innovec has recently received updated ISO9001:2015 certification that lasts until June 2021. Working under such a recognised regulatory system has given the company global credibility and helped Innovec create a reputation as a reliable and trustworthy business. As a result of Innovec's market attention the company sales growth has far exceeded expectation.



The company has newly introduced the IBLEXD Batch Controller. This instrument can accept inputs from 0 to 2KHZ, from all the available sensors on the market. The IBLEXD user display is a 64 x 128 Mono Graphics (LCD)

with a fully integrated RGB Backlight (Red, Green and Blue) light offering a wide viewing angle with a viewing distance of up to five metres. The instrument can be configured by the front of panel pushbutton switches which are IEC EX and ATEX EXD approved with positive action. Also available is a hand held infrared programmer. For rare emergency situations, the IBLEXD has a flawless backup plan to ensure that information is not lost. The instrument conveniently stores all variables in EEPROM memory during loss of power and incorporates a low flow alarm which is triggered if no input signals are received within a programmed period of time and the batch will be cancelled.

As well as the IBLEXD the company has launched its IAC 6 channel Additive Injection Controller for liquids. The device comes with all inputs



COVID-19 ELISA tests now available for high capacity automation



Aspect Scientific specialises in ELISA automation systems and offers a range of instrumentation from Dynex Technologies capable of automating any level of workload quickly and easily.

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In addition to the Agility, the 2-plate Dynex DS2 and 4-plate DSX are extremely widely used, flexible and open systems designed to provide walk away automation with incredible ease of use.

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3 Channel Temperature relay for resistance sensors

Up to 3 sensors Pt 100, Pt 1000, KTY or PTC thermistor can be connected to the TR 250 temperature relay from Ziehl. One needs only one device, whether for a transformer with sensors Pt 100, with PTC thermistors or even a mixture of both. The TR250 from Ziehl simplifies your parts and spares lists.

The TR250 is particularly versatile. It can monitor several sensors simultaneously to a limit value or a sensor to up to 3 limit values and it can even measure the difference between two sensors.

The TR250 comes with pre-set programs for motor and transformer protection make commissioning particularly easy. The switching behaviour of the 3 output relays, monitoring

working or quiescent current, switching delays or storage of a switch-off is programmable on the device.

This makes the TR250 suitable not only for the protection of electric motors or transformers against over temperature but also for control and monitoring tasks in a wide range of applications.

ZIEHL supplies further devices for 1 to 8 temperature sensors with up to 7 output relays as well as a range of electrical measuring and protection devices.

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Ziehl Industries Elektronik



Ziehl Industries Elektronik offer many application specific relay devices. Amongst these is the TR440 family temperature protection relays. The TR440 has 4 input (PT100 2 or 3-wire) and 4 relay outputs with or without RS485. This DIN96 panel mounted temperature relay is designed to protect transformers or other temperature critical plant, against excess temperature and, if required, to control an environmental fan.

The temperatures in the windings are monitored with three Pt 100 sensors. The core temperature can be monitored with a fourth sensor. The 4 alarms/output relays are used to control the fan or to signal an advance warning or to switch-off the transformer.

Both versions of the TR440 can have the relays and sensors configured in a number of ways to meet the requirements of the protection logic for the installation. Depending on the program chosen, e.g. an extra relay is available for the fault message or for triggering due to exceeding the maximum core temperature.

Alternatively, with the fourth sensor the temperature of the room the transformer is in can be monitored and, with the alarm, the room ventilation can be controlled. The device can also be used for other tasks for temperature monitoring e.g., for motors, generators, or conductor enclosures

The TR440 has clear LED indication of the temperature as well as LEDs, indicating the health and active state of the relays. The unit can be calibrated to operate in 1°C / 1°F- the operating range 199...+850°C / -199...+999°F

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Quick determination of viscosity index with SVM 4001

The SVM 4001 from Anton Paar provides an unbeatable combination of features that simplify the measurement process.

The innovative double-cell design of SVM 4001 Smart Viscometer allows for quick determination of viscosity index (VI) by simultaneous measurements at 40°C and 100°C from a single syringe. As each of the measuring cells also contains an integrated density oscillator, density measurements according to ASTM D4052 at each temperature are performed as well.

The minimum required sample volume is only 2.5 mL. The viscosity index results according to D2270 as well as API calculations are automatically shown on the touchscreen.

Moreover, SVM 4001 allows for concurrent determination of viscosity and density at any two temperatures between 15°C and 100°C. This Smart Viscometer is the ideal solution for measuring lubricating oils, base oils, additives, and in-service oils.

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More classic engineering from DD-Scientific

DD-Scientific is pleased to announce the launch of its latest product designed to protect workers in hazardous environments.

The new SE+CO is a highly reliable and repeatable electrochemical carbon monoxide sensor optimised for use in industrial safety applications and brings with it our decades of experience in providing cost effective solutions for gas detection OEMs. The sensor quickly responds to dangerous levels of carbon monoxide and is ideal for use in portable detectors deployed in oil and gas plants, mines, chemical works, steel mills and confined space entry.

The SE+CO is designed to be the first in a new range of sensors from DD-Scientific and will be followed shortly by sensors optimised for other toxic gas dangers. If you would like to learn more about this product or any of the wide range of gas sensors now provided by DD-Scientific, please don't hesitate to contact us at: sales@ddscientific.com

DD-Scientific is one of the fastest growing sensor manufacturers worldwide and our success is driven by our commitment to high performance products, provided with real quality coupled with competitive pricing and world class integration and technical support.

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INDUSTRIAL PROCESS NEWS

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13

Counterfeit bearings – know the risks

Counterfeit bearings are a global issue, with all markets susceptible to the risks of buying these low-quality products.

As a leading manufacturer of premium-quality bearings, NSK is focused on eradicating this issue, one that puts safety at risk and ultimately leads to users experiencing reduced reliability and higher lifecycle costs.



The relentless drive to remain competitive and profitable has created a culture where too many companies are forced into making purchase decisions based solely on unit price, ignoring other factors such as total cost of ownership (TCO) and performance. However, shopping around for irresistible bargains often comes at a far higher price, with many purchasing and engineering teams unaware of the risks and dangers involved from adopting such a strategy.

The end result is usually the inadvertent acquisition and arrival of counterfeit bearings. Although the price may have been cheaper, in reality the overall cost is likely to be considerably greater. For a start, these poor-quality fakes fail more frequently when put into service, increasing maintenance and downtime costs. It should also be noted that these costs invariably far exceed the amount saved on the initial purchase.

The origins of counterfeits

Counterfeit bearings tend to originate from uncontrolled sources in countries with low-cost economies, where disingenuous organisations use

lower-grade materials that are usually processed on ageing machines operated by low-paid, unskilled operatives. The bearings, which are often poorly handled and stored, are then placed in boxes designed to resemble the packaging of the manufacturer being replicated, completely disguising the inauthenticity of the product to cheat both purchasers and users.

Inconsistent quality is assured when buying bogus bearings. Such bearings may last long enough to pass pre-production trials, but their subsequent premature failure in the field will cast uncertainty over the performance of the machine, system or vehicle to which they are fitted. This eventuality can compromise brand reputation and damage sales.

Many companies finding themselves in this situation will call for help, only to discover a complete absence of technical support or advice. Typically, counterfeiters will not have local application engineers available to help with questions, nor will there be any modern, well-equipped technology centres to provide test data, product defect assessments or failure analysis.

Material matters

The materials used to produce fake bearings are not of the quality provided by OEMPR Ref. S042020-N |



¼ suppliers such as NSK, which leverages decades of experience in materials science to ensure its bearings exceed the demands of modern industrial applications. Steel quality is the major factor in bearing reliability, where a difference in operating life of up to 20 times (between genuine and counterfeit) is not uncommon.

The fatigue life of alloyed bearing steels such as 100 Cr6 (or SUJ2 in the Japanese standard) depends principally on the inclusion content. Oxide or non-metallic inclusions, in particular, promote negative effects under the raceway surface. As an example, it is known that aluminium oxide inclusions, which are formed via oxidation during the melt, can lead to a major reduction in bearing fatigue life. This effect is created because aluminium oxide inclusions are relatively hard and can break up when steel undergoes processes such as forging. During break-up, inclusions shrink and weaken the microstructure. Working with a leading steel manufacturer, NSK has developed materials like Z Steel, EP Steel and



BNEQARTET to prevent this negative effect. The company also uses special melting processes that reduce non-metallic content and prolong fatigue life.

With counterfeits, heat treatment is another factor that is often absent or poorly applied, compromising the specific characteristics of steels and, consequently, bearings. Materials such as NSK's SHX steel are subjected to a specific



heat treatment that is particularly resistant to wear at high operating temperatures. Bearings of this type are required not just when heat is present as an inherent part of the process, but in applications such as machine tools, where fast spindle speeds generate high temperatures in the drive components. During development, the characteristics of SHX steel were proven by means of comprehensive wear resistance and surface fatigue life tests. Counterfeit manufacturers do not offer this kind of product development and analysis.

The fight continues

Although NSK continues to invest extensively in efforts to identify and prosecute counterfeiters, the advice is clear: when purchasing NSK products, customers should exercise due caution. Only buy from trusted sources such as Authorised NSK Distributors.

Additional information about the fake bearings industry can be found at www.stopfakebearings.com

www.nsk-europe.com

Lasers, Cutting & Welding News

WeldCloud Notes document management software

ESAB Welding & Cutting Products has introduced WeldCloud Notes PQR/WPS document management software as part of its ESAB Digital Solutions suite of online management tools.



WeldCloud Notes enables companies to better perform four essential tasks:

- Maintain quality and compliance while managing PQR (procedure qualification records) and WPS (welding procedure specifications) documents in one place;
- Efficiently review all of its PQR, WPS and WPQ (weld procedure qualifications) information with a quick and easy search feature;
- Generate a PQR or WPQ with all essential variables;
- Prevent missing a qualification expiration date or wasting time and money on requalifying welders.

WeldCloud Notes provides full compliance to construction codes, welding standards and welding quality standards. It enables fabricators to track the productivity of individual welding systems and welders, register weld seam data and manage the calibration records for an entire fleet of welding machines. WeldCloud Notes helps companies increase productivity, reduce costs, avoid liabilities and improve quality assurance during project execution. This online software tool enables every relevant person on a project to access information, search for the correct qualifications, create welding procedures, introduce welding records, keep track of production and print reports for all the activity completed.

For more information, visit esab.com or call 01992 768515.

Eliminate up to 99.99% of surface bound & airborne viruses, bacteria, odours and allergens

New and exclusive in the UK from Wilkinson Star is the Viro Tech range of Professional Ozone/UV Sanitising Systems which can eliminate up to 99.99% of surface bound and airborne viruses, bacteria, odours and allergens.

These systems offer maximum workplace protection and provide a product which is safe in order to get people back working and businesses to operate during the Coronavirus pandemic.

For commercial use, both large and small offices, call centres, gyms, hotels-restaurants-bars-cafes, health care settings, retail, hospitality, property services, schools, colleges, universities. Also ideal for large sports venues, arenas.....the list is endless.

There are products to suit all budgets and facilities. All products are filterless, offering low maintenance and are chemical free. Both systems offer NCC and ozone generation technology.

The Viro Tech Mini can cover up to 279m2 and offers effective cleaning for



living spaces, small offices and small shops.

The Viro Tech SO range offers 3 models offering coverage of up to 800m2 in just 4 hours. This range allows offers an overnight boost control for air purification covering all those hard to reach places in just 2 hours.

The units operate with NCC & Ozone Generation Technology. Natural catalytic conversion is a process that uses UV light to create the same oxidation and ionization as natural sunlight.

As with any powerful oxidant, disinfectant, disinfectant fogger machine, or bleach, Ozone should be used in accordance with the manufacturer's directions.

Want to find out more about this revolutionary new product available this summer?

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The R+K click & safe connection system not only makes panels easy to fix and remove from posts for access if necessary (with a simple tool) but also complies to EU

Machinery Directive 2006/42/EC.

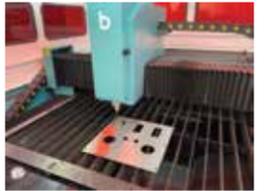
So after the posts are suitably secured to the ground and the panels assembled, they need only be inserted at the bottom and pressed in at the job and the job is done !

Contact
T 01296 611660
rk@pmgb.co.uk
www.pmgb.co.uk/rk



Cutting edge engraving technology

Brunel Engraving has made a major investment in state of the art technology in order to significantly increase its efficiency and output, providing a rapid one stop service to the water industry.



The leading specialist engraver, reputedly one of the most progressive operators in the precision engraving and processing of metal and plastic components, has quadrupled its laser engraving capacity with the installation of two state of the art laser engraving machines at its production facility near Bristol.

In addition, a dedicated 1.5kw fibre laser profiling machine which is able to cut metals such as stainless steel up to 3mm thick, will allow Brunel to cut profiles, shaped labels and control panels from pre-etched and engraved sheets.

Brunel has further invested in another rotary engraving machine to expand its production in rotary engraving work. This brings the company's total rotary machines to seven, the largest of which has a maximum bed capacity of 610mm x 1220mm.

The latest laser cutting and profiling equipment together with Brunel's laser and rotary engraving, chemical etching and digital print operations, will enable the company to offer the water industry a faster response time, improved quality control and more competitive pricing.

Established over 30 years ago, Brunel Engraving is a pioneering engraving specialist which provides a complete service to a whole host of industries. The company leads the way in technical innovation. Brunel has ISO9001 accreditation and its highly skilled team of professional engravers is trained to the highest standards in the UK.

www.brunelindustrialengraving.co.uk

100 Years of Business for Kingston Engineering



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.

With a history dating back to 1919, Kingston Engineering has specialised in manufacturing right Hand/left Hand, single/multi-start, cut thread Power Transmission Screws and Nuts for over 60 years. Adaptable for mechanical power transmission, their products conform to the standards of British, European and American requirements. All of Kingston's products meet ISO 9001-2015 accreditation and are examined thoroughly during the manufacturing process.

Kingston Engineering's screws can be used in a range of applications across multiple industries, including aerospace, oil and gas, nuclear energy, the chemical and medical fields. The company works closely with both suppliers and end users to provide the best purpose-built screws possible, with customers across the UK and the US.

The current directors have more than 100 years of experience between them and are continuously engaging in plans to help the company become global leaders in screw manufacturing.

Contact
T 01482 325676
www.kingston-engineering.co.uk

Work on NEW expanded Thorite UK Headquarters gets underway

Earlier this year Thorite, the UK's leading specialist of pneumatics, air compressors, air tools, and fluid handling equipment announced their intention to relocate their UK Headquarters to a new location nearer to central Bradford.

Thorite offers customers the most comprehensive range of market-leading, cost-effective equipment to meet the needs of MRO, OEM, and Resale customers. Thorite supply to many diverse UK industrial market sectors nationwide and services include application advice, system design & build and installation. Due to continued growth, Thorite has outgrown their home of the last 50 years and need to bring all their value-added services together under one roof.

The new, multi-million pound, purpose-built 44,000 sq.ft site more than doubles the size of the current facility, meaning that Thorite's Bradford Sales & Service Centre, Aftermarket Service, Systems Design & Build, Training Academy, and National Distribution Centre will all be combined on one site, giving customers a complete one-stop-shop experience and even greater choice for all their fluid power needs.

Additionally, Thorite plans to ensure that customer-facing staff – field sales, sales support, marketing, and purchasing work more closely together to further develop and nurture key customer relationships and new product development.



There will be a brand-new Sales & Service Centre showroom and trade counter, built alongside a new product showcase area. Here, Thorite will demonstrate new and innovative industrial products and solutions that Thorite continually collaborates on with their 70 global supply partners. Thorite last year had a turnover of almost £20 million but has ambitious future growth plans, and this move gives Thorite a great foundation to make this major step-change.

Stephen Wright, Managing Director, said "We're now in a position to move ahead with this exciting new chapter in Thorite's future. Our new world-class facility gives us the platform to further commit to continuously improve our service performance to our customers, allowing us to become more efficient, to more consistently meet the demand for our products and provide improved stockholding, delivery performance, service quality, training and much more."

www.thorite.co.uk



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GOJO® goes back to its roots to protect hard-working hands



Remove tough soils and viruses with GOJO's range of heavy-duty hand cleaners

With COVID-19 still in general circulation, hand hygiene is one of the primary measures recommended to prevent the spread of infection. Much of the focus during the pandemic, however, has been on handwashing in light or no soil environments, such as healthcare facilities, schools, and shops.

For workers in heavy industries, sanitising gel or regular soap and water is not enough to effectively eliminate germs. All tough soils must be completely removed from hands to ensure there are no viruses left clinging to the dirt.

Skin health specialist, GOJO® Industries-Europe, has a range of heavy-duty hand cleaners, available in a Natural or Olive formulation, designed especially for use in a range of trade environments, such as construction sites, garages, workshops, and factories. Powerful against tough dirt and grime, they are also gentle to skin. The formulations are hypoallergenic and largely incorporate natural ingredients, including plant-based scrubbers. They are also free from parabens, phenoxyethanol, isothiazolinone, titanium dioxide, triethanolamine; and formaldehyde release.

85% of the ingredients in the Natural Scrub, and 91% in the Olive, are biodegradable. The natural scrubbing agents help to reduce the impact on aquatic ecosystems too, making them a sustainable choice.

For more information, call +44 (0)1908 588444, email infouk@GOJO.com or visit www.GOJO.com

Nilco: Saying no to COVID-19

Nilco – the professionals' choice for essential cleaning products and chemicals – has the ideal sanitising solution for pubs, bars and restaurants.



Industry leader Nilco produces a wide range of dry-touch sanitising, virus and bacteria control products that can be used both as an airborne room spray and on all hard surfaces, as well as sanitising products for personal use. The range includes no-touch hand sanitiser stations for customers on arrival, 'High Contact' dry-touch sanitiser spray for cleaning tables, chairs, light switches, handles, bar tops and preparation areas and the 'Max Blast' that effortlessly sanitises entire spaces at the end of a shift.

Stewart Wright, Owner of Nuovo Restaurant, comments, "Our staff have been fully trained on all the products and technology we have invested in. We are using the professional range of Nilco products; with quick-dry sprays that you don't have to wipe, it simply settles on the surface and kills all bacteria, and hands-free sanitiser stations for customer to use around the restaurant."

Peter Schofield, Tetrosyl Group Chairman, said, "We are proud to be supporting bars and restaurants like Nuovo in their pursuit to return to full strength in the safest way possible."

For more information and to see our products being used by Nuovo Restaurant, please visit: www.Nilcouk.com or call 0161 764 5981.

Ecocleen makes sanitisation and specialist deep clean investment

Ecocleen, the commercial contract cleaning specialist, has expanded its sanitisation and specialist deep clean capabilities with the adoption of advanced electrostatic spraying machines. The company has invested in a range of portable and handheld sprayers, which are designed to effectively disinfect a wide range of premises in a fraction of the time and cost previously needed.

The specialist electrostatic sprayers provide 360° coverage over all surfaces within the sprayed area, even hard to reach places

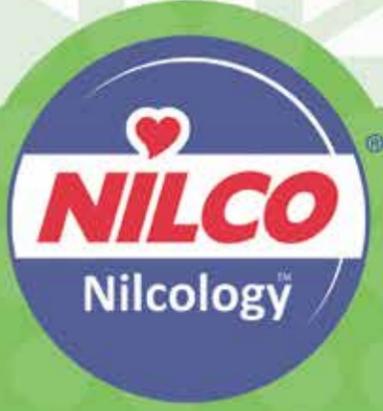
that a cleaner might miss. The technology is four times faster than manual disinfecting methods and uses 65% less cleaning solution. It works by positively charging atoms in the liquid as they pass through the spray nozzle, so droplets seek out and wrap themselves around surfaces. When used with an appropriate cleaning solution, the sprayers are proven to kill a range of pathogens in two minutes or less, and because surfaces dry almost immediately, it allows immediate room re-entry.

Ecocleen has also sourced a number of

surface sanitisers and multi-purpose cleaning fluids to be used in combination with the electrostatic spraying machines. They have been developed specifically for use within the commercial cleaning sector and are highly effective within any office, retail, education, healthcare and industrial environment. Using one of these solutions, it will be possible to create long-lasting barrier that protects for up to 30 days, dramatically reducing the spread of harmful bacteria, viruses, fungi and yeasts.

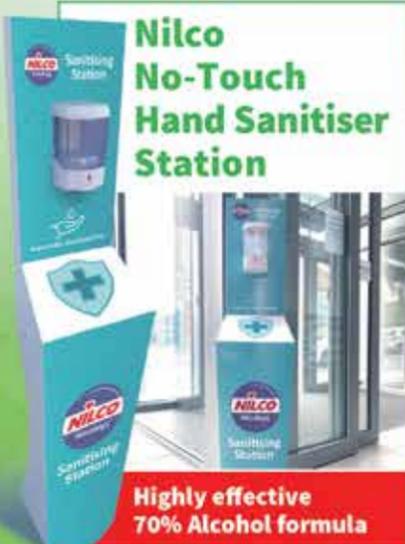
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Huge range of roll cradles now held in UK

HenryAR, the European trading arm of US company Henry Molded Products, now offers large stocks of Stakker roll cradles in a range of more than 40 styles within the UK for immediate distribution throughout Europe.

The cradles provide producers, converters and distributors of rolls of fabrics, papers and films with a safe & economical system for horizontal stacking on pallets, saving on production, warehouse and distribution costs. Custom moulded packaging

in paper fibre is increasingly replacing less environmentally acceptable materials. Henry is able to mould large format, heavy duty, deeper sections and its products are recyclable. It has its own design studio, mould making shop, slurry development and production process under one roof.

Contact
T +44 (0)1572 490644
steve@alderneyrace.com
www.stakker.eu



AmbaFlex launches new slat innovation



Innovation is one of the key values of AmbaFlex. It is in our DNA to design and develop improvements driven by both market-needs and customer-specific requirements.

The latest in line is the development of the AmbaFlex TPO6 slat. This 600mm/24" wide slat with overlapping structure answers several different market-needs in 1 go. It's specifically designed to handle the increased amount of (vulnerable) product variations, expanding the possibilities of our program in all relevant markets. It also answers the ever increasing demands of working safety, especially for the next generation of distribution centers and the increased amount of operators.

The slat is made out of an extremely durable synthetic material and can be fitted with our unique full surface friction option during the 2k molding process.

Together with the unique Triple-E track build-up (awarded with a patent), they offer unparalleled strength and efficiency with their SpiralVeyor solutions. With belt widths of up to 1200mm (or 48 inches), they are able to transfer virtually any and all products.

This new development will further enhance and compliment the many possible applications offered throughout our program.

Interested in the possibilities? Please check our full program on www.ambaflex.com

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Heating, Ventilation & Air Conditioning News

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Packaged electric boilers for a range of heating applications

The Broughton HPW20 and HPW40 packaged electric boilers are fast, efficient solutions for a wide range of heating applications.



Compact and fully portable, they are suitable for installations where oil or gas fired boilers are not an option.

With 18kW and 36kW outputs these versatile units are equally at home as part of a stand alone system for events and temporary structures, or plumbed directly into existing systems for cover during planned maintenance.

The HPW boilers can provide everything from central heating and hot water to underfloor heating and screed drying. They are fully programmable via an easy-to-use touch screen, and include staged temperature increases and decreases from 10°C to 80°C.

Built to last from powder coated steel, they are fully portable with their own integrated trolleys and come in two options: heating only or heating and hot water. The range comes with high quality pumps and a host of safety devices including high pressure relief valve, low pressure switch, frost protection and manual reset over temp thermostats as a failsafe.

Contact
www.broughtoneap.co.uk

Moog helps researchers build a better turbine blade test



Moog Inc. (NYSE: MOG.A and MOG.B), a designer and manufacturer of high-performance motion control products and solutions, has applied its expertise with servo control and actuation to help create a testing facility for researchers at the Technical University of Denmark (DTU) Large Scale Facility, part of the Department of Wind Energy and the Villum Center for Advanced Structural and Material Testing (CASMAT). Underpinning the test facility on the DTU Risø campus in Denmark, is Moog's digital closed loop control system and application software. Moog and its partner T A Savery designed and installed test equipment for three test stands, which can accommodate 15-, 25- and 45-meter wind turbine blades.

Moog engineers carried out the installation and commissioning of the test equipment. Moog also is providing ongoing support to the DTU staff. The Moog scope of supply for the three blade test stands included: the hydraulic power plant and distribution network; six hydraulic winches for the static testing; and a combination of eight mass resonance exciters (MRE) and linear actuator assemblies for dynamic test work. In addition the project also included all pipe work, hosing and actuation devices, control system electronics, and application software. To design the winch assemblies, Moog collaborated with U.K.-based Qualter Hall, a provider of bespoke hoisting, winching and haulage systems.

For more information, please visit. www.moog.com

Air pollutants as harmful as cigarette smoke

A study published in the Journal of the American Medical Association has found that long-term exposure to poor air quality can have the same damaging effect as smoking 20 cigarettes a day, with air pollution shown to be more dangerous than passive smoking.



Many employees are exposed to poor air quality on a regular basis and employers are often unaware of the risks and what they can do to manage them. A new generation of air quality monitoring equipment is now available for measuring the levels of common air pollutants in the immediate areas where staff are working.

Employees working close to areas of high road traffic, particularly with poor air circulation, are especially vulnerable to the effects of pollution. As well as being trapped indoors or brought in through ventilation systems, pollutants can also build up in outdoor spaces, particularly in cities with high buildings, leading to exposure levels which may exceed limits set by the World Health Organisation (WHO).

Previously, air quality has been likened to passive smoking. The International Agency for Research on Cancer (IARC) determined in 2013 that air pollution is more dangerous than passive smoking, and was now the leading cause of cancer.

Teams responsible for protecting staff from exposure to hazards can now understand exposure in relevant locations by installing compact air quality monitoring equipment designed to continuously measure pollution levels in ambient air.

AQMesh pods are small, wireless units which can be mounted on a lamp post, fencing, wall or a similar mounting point close to where staff are breathing potentially polluted air, both indoors and outdoors. Air quality readings are secure and confidential, accessed online by authorised personnel only.

Contact www.aqmesh.com

TriboTonic

TriboTonic are delighted to announce they have recently partnered with CFR Engines Canada ULC, to sell, support and supply parts for both new and existing Ignition Quality Tester (IQT) instruments across Western Europe. This partnership presents an exciting opportunity for customers across Europe to receive first class IQT product access, knowledge, and support through TriboTonic.

For over 20 years the IQT product line has been measuring the ignition quality of diesel and alternative diesel fuels in accordance with specification test methods ASTM D6890, EN 15195, and IP498. The CFR IQT is the referee test method in EN 15940, the paraffinic fuels specification in Europe.

With a similar 20+ years of experience working within the tribology and petroleum sectors, Dr Richard Baker founded TriboTonic in 2019. The IQT product line from CFR will complement TriboTonic's existing partnerships with PCS Instruments Ltd and Falex USA.

Speaking of the relationship, Richard Baker said, 'The partnership presents an exciting opportunity to demonstrate how the IQT is the leading CVCC technology for testing diesel and how the team can deliver excellence throughout Europe.'

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www.tribotonic.com



Plastics & Rubber News



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Taking item serialisation to the next level – and beyond

Industrial Process News is proud to announce that advanco has been selected as our Serialisation Company of the Month.

Regulatory compliance for serialisation is increasingly becoming a focus area for pharmaceutical manufacturers and supply chain partners across the world. Therefore, as would be expected, advanco is already well-known and solidly established within the pharmaceutical sector.



However, this could be just the beginning, with a very real potential for such services across multiple other consumer and business sectors.

Staying with pharma for the moment, most developed and developing economies have either already laid out the regulatory road map for serialisation or are in the process of doing so. This is largely due to rising drug-related criminal activities and supply chain inefficiencies.

Certainly, pharmaceutical counterfeiting is a profoundly serious issue, one which is likely to worsen as the world searches for a COVID-19 cure. It is estimated that 10% of pharmaceutical products worldwide are counterfeit, resulting in up to one million deaths every year, and British researchers have estimated counterfeit medication could kill up to 10 million people by the year 2050. In addition, the global counterfeit drug market size exceeds \$75 billion.

To help with this, advanco is focusing on product identification in the supply chain, using barcode technologies to prevent counterfeits in pharmaceuticals. This core expertise in barcode, RFID and supply chain solutions has been informed by 41 years of experience.

However, just imagine if this watertight product serialisation was adopted by other industries. Imagine being able to trace exactly where contaminated food was produced so it never happens again. Imagine the luxury of knowing for



Alf Goebel, CEO, advanco.

Alf is a senior enterprise software sales and marketing executive, with over 25 years' enterprise software industry experience. He has strong operational experience, specialising in high growth businesses in Europe and the US.

He has extensive experience with Global Partnerships SAP and Lupo Ventures, and has held senior executive positions at a number of leading technology companies, including Snow Software, MSC Software and Software AG.

sure that those designer sneakers are the real deal.

Indeed, the list goes on. If single item serialisation were adopted as standard by other sectors in addition to pharmaceuticals, the ability to track-and-trace could solve product identification issues across many different sectors.

Advanco has concentrated on customers in the pharmaceutical industry for over 11 years, with its first customer being Pfizer Turkey. Throughout this time, it has established itself as a leading provider (ISV) for Level 3 Item Level Serialisation and Track-and-Trace throughout the entire supply chain and around any ERP system.

Advanco's ARC, a serialisation packaging solution for Track-and-Trace, is the gateway to the national databases used for verification. ARC is used by over 35 customers around the globe at more than 50 sites, controlling over 350 package lines.

The entire solution is built to and complies with strict international regulatory standards and ensures companies comply with global legislation (such as EU Hub, MDLP, Turkish MoH), including all special functionalities like Russian Cryptocode or US DSCSA requirements on the shop floor and in the warehouse.



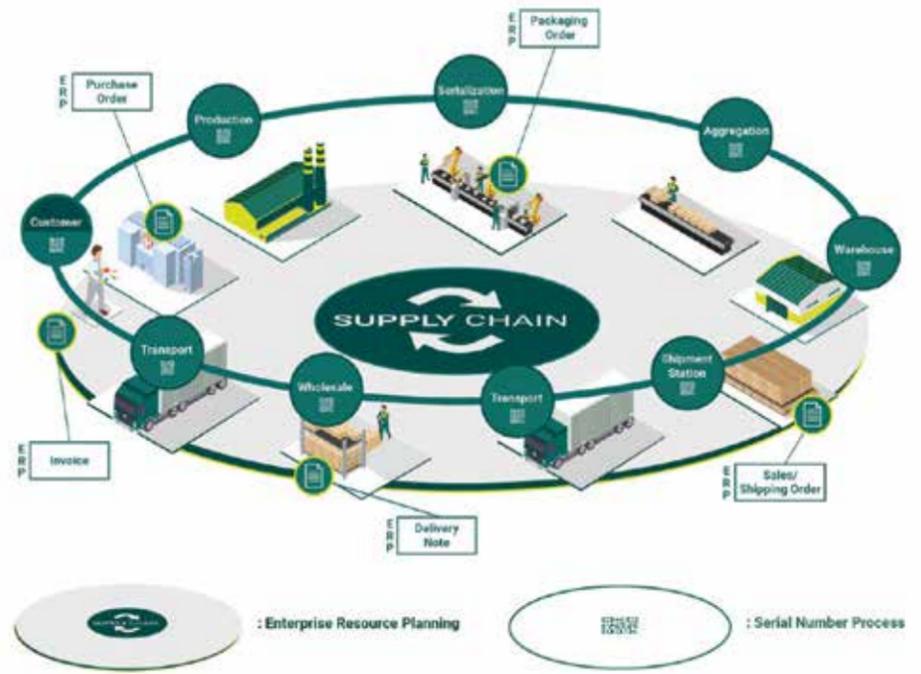
ARC has the largest interface portfolio in the industry and is designed to prevent counterfeits in the pharmaceutical industry by focusing on product identification in the supply chain. Integrating packaging lines and enterprise serialisation repositories, it is created for companies to utilise multiple line management systems, simplify integration and enhance



flexibility, and it can adapt to a wide range of packaging line technologies and production management systems.

What's more, integration across control and enterprise levels enables ARC to function as a centralised hub for managing serialisation data and facilitating product traceability across the entire supply chain.

Advanco also has a solution portfolio for Serialization 2.0., from compliance to optimization. Replacement of components, lowering the TCO, OEE and blockchain are all part of Serialization 2.0 This is in addition to helping manufacturers improve troubleshooting and proactive maintenance, by providing direct visibility in the end-to-end process from production to



distribution. The platform is also equipped with a manual serialisation and aggregation workflow, which is a pre-validated tool for manufacturers with manual packaging lines. Advanco offers 24x7 support.

The ARC connects actions and tracks progress through a performance score that allows projects to track and benchmark progress. It is the first solution to track serialisation progress through a performance score, helping companies to drive continuous improvement.

The platform also provides valuable feedback so that teams can make more informed decisions. It connects management to strategies for improvement and measures progress to gauge how well the strategies are working, helping users to determine how best to save resources and ensure product counterfeiting is eliminated.



and thousands of unnecessary deaths. With COVID-19, open standards will be even more vital to stem a potential tide of fake drugs and vaccines to treat the virus as countries around the world struggle to recover following the pandemic.

Without a doubt, serialisation will soon be essential for all pharmaceutical and medical products as the industry progresses and the world adapts to the 'new normal'. This makes advanco an essential component in the overall future of the pharmaceuticals industry – and potentially many other sectors too.

In 2020, advanco, which is headquartered in Brussels, with offices in Istanbul, San Francisco, and Princeton, was acquired by Parabellum Investments, led by CEO and Founder, Rami Cassis. Parabellum Investments is a privately-owned, international investment firm which provides operational support and finance to middle market firms looking to grow domestically and internationally.

To find out more information on advanco and its ARC solution, head to the website or get in touch using the details below.

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info@advanco.com
www.advanco.com



Istec presents new generation overspeed protection system

Istec presents its SIL rated overspeed protection system: The SpeedSys 200. A game changing innovation driven by decades of experience with speed applications, to broaden the range of rotating machinery that is eligible for high integrity overspeed detection, and to suit a growing demand for SIL-certified solutions. The SpeedSys 200 is expected to be globally available in Q3 of 2020.

Revolutionary innovation

The overspeed protection market is mainly occupied with rack-based systems that are overly complex for smaller or less critical rotating equipment. SpeedSys 200 negates complexity by delivering the core layer of SIL rated

overspeed protection with a compact architecture. Its small technical and financial impact enables accessibility to a wider range of rotating equipment, without any safety concessions.

Adapted to market needs

The demand for high integrity safety systems for rotating machinery is increasing simultaneously to the increasing demand for machine availability for both highly critical and less critical machinery. Istec breaks new grounds by taking scalability to a new level, to bridge the gaps between what could and could not be protected. Change driven by SIL

One of the major drivers of change within the machine protection market is the global adoption of SIL, which applies to both large and small rotating equipment. End-users want to comply to these standards to reach and maintain their safety levels. Industrial standards and insurance companies impose the use of functional safety to a wider range of applications. The SpeedSys 200 architecture suits the technical and economical environment of both large and small rotating machinery.

Contact
T +31 (0)252 433 400
wouter.verschuren@istec.com



Lubrication system for linear guides 'double service lives'

NSK has announced a lubrication system for linear guides that, it says, provide an 'entirely new level of long-lasting lubrication'. The K1-L system succeeds the K1 system launched in 1996 and can supply oil for nearly twice as long, ensuring extended maintenance-free operation.



The system cuts resource and energy consumption through long service lives, low friction and reduced oil usage. Relying on regular maintenance to apply lubricant to linear guides is time-consuming and costly, particularly as it requires machinery to be stopped. The new system overcomes this by improving the capacity of the lubricating oil supply, thus extending maintenance intervals.

The result is an increase in uptime and productivity, while maintenance costs are cut. A newly developed resin allows oil to be supplied for nearly twice as long as the K1 system. The special shape of the K1-L reduces dynamic friction forces by about 20% when the slider moves along the rail of a guide, while a newly developed protective casing helps to maintain structural integrity and to impede the entry/release of dust and other particles.

The K1-L is available for NSK's standard NH and NS series of linear guides, and will be extended to other models in future.

Contact
T 00 49 2102 4811280
www.nsk-europe.com

Waterjet cutting systems

Since 1991 the Italian company Waterjet Corporation has been developing and manufacturing a wide range of CNC multi-axis waterjet cutting systems, including standard models in various sizes as well as customised machines.



The flagship of Waterjet is the machine model Supreme DX510 with 5 axis technology and PRO3 KMT pump with 6,200 BAR. It can cut up to a thickness of 300mm of steel, alloys and titanium, the net cutting area sizes are 3,350 x 1,600mm, the accuracy is ± 0.05 mm (the precision of the movements of each Waterjet machine is verified by lasers and test ball bars Renishaw), while the repeatability is equal to ± 0.025 mm.

The 5 axis Evolution 3D cutting system automatically maintains by the Touch Wave™ sensor a constant distance between the nozzle and the material, even while the 5 axis cutting head is CNC interpolating up to $\pm 90^\circ$ in 3D.

Waterjet provides an excellent after-sales service by a highly specialised team and complies with ISO 9001-2015 quality control procedures guaranteeing the CE conformity. These standards allow Waterjet to build professional lasting partnerships with esteemed international companies too. Waterjet Corporation's headquarters are in Monza (Italy) with branches located in Elgin-IL (US) and in Dubai (United Arab Emirates).

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Training & Development News

Safe instruction – water jetting training restarts despite COVID-19

The Water Jetting Association has introduced robust measures, including social distancing and face masks, so water jetting training can take place as COVID-19 pandemic continues.

Darren Hamilton is an approved training instructor and a member of the WJA's training and safety committee. He said he is now "flat out" water jetting courses.

He said: "We're catching up with our training programme that had been suspended for 19 weeks, and training does take longer under COVID-19 restrictions. But we're managing."

The WJA has issued its training providers and instructors with a full suite of documentation to support the training process.

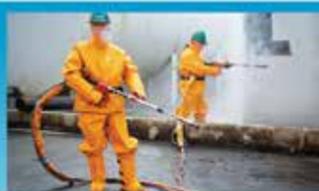
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KNX lighting controller for DALI

The lighting controller KNX DALI L4 bc 16 A is a communication interface between the building bus standard KNX and the lighting control standard DALI. The actuator has four channels, each for up to 64 DALI devices. The devices of a channel receive a broadcast command, this means that they are all dimmed or switched together.

This type of control is particularly suitable for buildings and halls where luminaires are switched in rows or groups, but also for small DALI systems. In both cases, broadcast control proves to be advantageous because maintenance of defective luminaires can be carried out without DALI knowledge. Individual luminaires can be replaced

without having to be re-addressed. A further advantage of the lighting controller is the "current-off" function. Each channel has its own switching relay. While there is only standby on DALI level, the KNX DALI L4 bc 16 A offers the possibility to switch off a channel completely. If several channels are switched on simultaneously, the lighting controller delays switching by fractions of a second, which limits the switch-on current for the DALI ballasts. This delay time is adjustable.

Luminaires can be switched by KNX DALI L4 bc 16 A as staircase lights, which means with a timer and, if desired, with a switch-off pre-warning. A flashing then indicates that the light is about to go off. Night



mode can also be set, in which the channel changes to a reduced brightness.

The push-buttons and control LEDs on the rail-mounted device are practical for system setup: each channel can be switched directly and the relay status is visible.

www.elsner-elektronik.de

Industry leading custom sensors to suit your requirements



Variohm EuroSensor was set up in 2002 as a combination of two well established companies, EuroSensor and Variohm Components, both of which had decades of experience in the sensor industry. This collaboration brought together the strengths and characteristics of both companies in order to offer a truly unrivalled range of products.

Part of the group Variohm Holdings, which is owned by a bigger group discoverIE, Variohm EuroSensor is joined by a close working group of companies, whose range of products and services complement each other and work in great autonomy. As well as Variohm EuroSensor, this group includes Ixthus Instrumentation, Heason Technology, Herga Technology, and Positek.

Sourcing products from either its extensive range of stock products, in house production facility, or the world's leading sensor manufactures, Variohm EuroSensor strives towards its goal to ensure the correct sensor is supplied for each of its customers' applications.



What's more, the company has the capabilities to design, manufacture and modify sensors to be able to fit them to exact customer requirements, aiming to deliver a fully customised solution 8 weeks from receipt of order.

Variohm EuroSensor's expert engineering department devotes time to designing and building new products, based on customer feedback and the latest industry trends. The products that are being designed have customisable features, meaning they can work within applications with different fitment requirements.

One of Variohm EuroSensor's latest developments is its Custom Micro Rotary (CRMx) range, including the CMRK, CMRS and CMRT. The sensors in this range boast a long life, puck/magnet design, shafted design, flange mountings, thread mountings, IP68 protection, customisable housings, and redundant output signals.

In September 2019, Variohm EuroSensor's outstanding products and services were recognised at the Northamptonshire Chamber Business Awards, where the company not only won Export Business of the Year, but also the coveted Business of the Year award. These achievements are sure to continue in the coming years, as Variohm EuroSensor builds on its decades of success and market leading offering.

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

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Rotech spreads the word on new tech

Coding and marking specialists, Rotech Machines, recently showcased an exciting new range of Seiko thermal inkjet technology, which enables food and drink manufacturers to eliminate all carton labelling and barriers to recycling.

A future star will be Rotech's 200th Special Edition RF Lite. Introduced for the first time at Foodex 2016, the simple, low-cost offline carton feeder halves the cost of entry level automatic coding machines, allowing companies to automate their date marking process for the first time or apply as a dedicated marking system on production lines.

With sustainability and recyclability being primary drivers for food and drink producers, Rotech's new Seiko thermal inkjet printers allow customers to print in high resolution on both primary and secondary packaging, on areas of up to 500mm wide.

Until this point, labels and the use of oil-based inks, has made cartons difficult to recycle. The new Seiko printing technology not only saves on the cost of labels and the associated labour costs, the printed cartons can now be widely recycled.

In addition to the sustainability benefits that the Seiko printer has to offer, its FREEFLOW™ on-demand ink system is completely maintenance free; the non-pressurised ink tank eliminates nozzle leaks and mess as the internal pressure is always be equal to the external environment.

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Ensuring quality recycled content

To meet consumer demand for packs with a strong environmental profile, Berry M&H is able to incorporate both post-consumer recycled (PCR) and post-industrial recycled (PIR) plastic into its range of packaging solutions, with between 25% and 100% recycled content.

A critical requirement for the use of recycled material is that every pack delivers the same high standards in terms of appearance, performance, and functionality. Key to achieving this is consistency and reliability of supply.

As part of the Berry Global group, M&H has access to material produced by sister company Plasgran, one of the UK's leading recycler of rigid plastics. Based in Cambridgeshire, not far from M&H's principle manufacturing sites, Plasgran has a reputation as a best in class recycler, recycling nearly 50,000 tonnes each year.

The company's state-of-the-art recycling plant features the latest advanced equipment, including shredding and granulating machinery with metal detectors on the conveyors to ensure material quality and purity, a custom-built washing and drying plant, and its own bespoke separation plant with fully automated equipment that is capable of sorting by colour and type and cleaning large volumes of waste plastic.

All this underpins a certainty of supply for Berry M&H and its customer base that is necessary to service the market, particularly at a time when demand is growing exponentially.

T +44 (0)1502 715518
www.mhplastics.com



Parkers Food Machinery Plus

Parkers Food Machinery Plus a family run business is based in Bognor Regis, selling its products and services across the nation. Supplying sundries, machinery and parts, as well as offering service and repairs, the company works with butchers, restaurants, caterers, hotels and food the sector.

We boast a broad knowledge of the products in our portfolio, which are all of the highest quality and we are the sole importer of the majority of the items in our catalogue. We also add a personal touch to our services, offering face to face meetings to ensure customers get what they need" said Barry Parker, Director. Indeed Parkers Food Machinery Plus is committed to providing excellent service and ongoing after care, with dedicated support team to help with any enquiries.

Specialising in the supply and distribution of quality new and pre owned food processing machinery, Parkers Food Machinery Plus is of the UK's largest importers for Tepro Vacuum Packers, Manconi and Deko Slicers and Ishida & Epelsa Weighing scales – printers and names like Robot Coupe, Dadaux and Swedlinghaus meat processing Machinery. The company also offers a competitive range of food packaging, ingredients and sundries for butchers, delicatessens and kitchens including sausage casings, herbs & spices and butchers twine.

A few months ago Parkers signed a partnership arrangement with DB Foods a major Meat wholesaler in the UK to resell all of our products on our behalf around the UK. This allows our products to reach 3500 shops around the country every week, meaning we can be truly nationwide working with DB Foods and our other distributors We feel customers are looking for that one stop shop for all there equipment and sundries needs, and that's what we are looking to become.



Parkers Food Machinery have opened an additional ware to cope with the extra demand, as well as having a new large showroom.

"We're seeing continued growth every year ; our web site is developing and web sales are up, our product holding are constantly increasing, and we are offing multiple routes to market to ensure everyone can get the products they need Barry concluded."

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Datamark supply and manufacture a varied range of labelling solutions to a wide range of customers spread across various industries. Enlisting in the services of Datamark, customers can enjoy numerous benefits, for example gaining from the years of knowledge and experience amassed by Datamark.

Constantly innovating and seeking to add new products to their already extensive range, Datamark truly are the one stop shop for all of your labelling needs. Moving from strength to strength since its inception in 1995, Datamark offers customers competitive pricing, unparalleled customer service, reliable deliveries, rapid quote turnaround, and an extensive product range. Datamark's product range includes: Plain and Colourwashed Labels, Flexographic Printed Labels, A4 Sheeted Labels, Fanfolded Labels & Tags, Own Brand Thermal Transfer Ribbons, Thermal Transfer Ribbons, Thermal Transfer Bureau Print Solutions, GoDex and other brand Thermal Transfer Printers, Thermal Transfer and Direct Thermal Print Solutions, and TT Printers Service and Maintenance.

Driving the company forward, aside from its extensive product range, is its continued emphasis on providing the best customer service possible. It is no wonder that Datamark supplies such a wide variety of industries, including; food, distribution & logistics, storage & contract packers, electronics, homecare, automotive and industrial.

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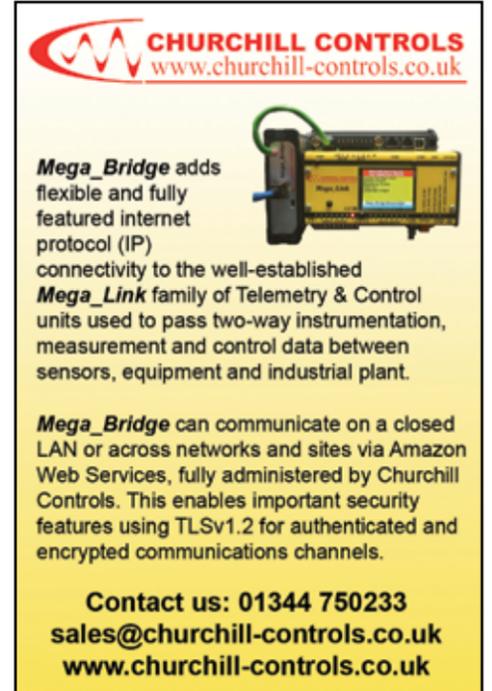


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