

INDUSTRY UPDATE

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2021 RECOMMENDATIONS

Touchpoint Shield: Comparison analysis shows clear advantage

Comparison of products designed to provide antiviral and antibacterial surface protection in the home and workplace demonstrates the clear advantages of Touchpoint Shield.

The analysis has shown the advanced coating is more durable, more long-lasting, more cost-effective, easier to apply, and does not affect the look of home and work interiors, unlike other products on the market.

Touchpoint Shield, from SafeGroup, is an antimicrobial protective product which uniquely combines a nano-ceramic liquid glass coating with silver ions technology to suppress bacteria and viruses on surfaces.

The coating is generating significant interest across all commercial and industrial sectors, with the coating installed in business environments that include: banking, manufacturing, hospitality, leisure, scientific research, and retail.

The coating lasts for up to three years, providing excellent additional protection against a wide range of bacteria and viruses, including SARS-CoV-2, which causes COVID-19.

Laboratory tests demonstrate it is over 99.9% effective against SARS-CoV-2 and other potentially harmful micro-organisms. These results are confirmed up by field trials in customer workplaces which prove Touchpoint Shield is highly effective at preventing



regrowth of bacteria and viruses.

The comparison table analyses the attributes of Touchpoint Shield along with other widely marketed antibacterial and antiviral products: antimicrobial wraps, antimicrobial films, and antimicrobial manufactured handles.

It compares all the products across eight parameter – unit cost, flexibility, aesthetics, feel, durability, active life, ease of application, and sustainability.

The findings of the comparison analysis also reflect feedback from customers who are looking to put in place long-term antibacterial and antiviral protection in homes and workplaces across the UK.

Find out more about the clear advantages of Touchpoint Shield. For more information and a free demonstration, call 0800 668 1268 or visit: <https://thesafegroup.co.uk>

Born2Bond™ range extended

Bostik, an Arkema Company, has extended its Born2Bond™ engineering adhesive range designed to support the electronics manufacturing sector in the assembling, waterproofing, dustproofing and serviceability of miniaturised electronics such as wearables and handheld devices and larger applications such as smart meters and LED lights.

Born2Bond™ MECA-based cyanoacrylates and innovative dual-cure Light Lock adhesives (patented in multiple countries) are already available for electronics OEMs for high-precision instant bonding, encapsulation and potting applications. Coupled with automatic dispensing solutions, they provide high performing and convenient options for designers and engineers.

The new versatile and single-component High Performance HMPUR (Hotmelt Polyurethane Reactive) range has been designed specifically for the manufacture of miniaturised handheld and wearable electronic devices such as mobile phones, smart watches and headphones. High Performance HMPUR products are available with a range of viscosities and open times to suit different applications



and assembly processes.

Born2Bond™ new UV-CIPG (UV Cure-in-place Gasket) range provides single-component, precise gasketing solutions with typically 0.5-2mm high gaskets for waterproofing, dustproofing and serviceability of mobile phones, tablets, smart watches, digital cameras, and automotive applications such as battery management systems (BMS), electronic control units (ECU) and advanced driver-assistance systems (ADAS).

For larger applications such as smart meters and LED lights where 2-5mm-high gaskets are required for dust and water proofing, Bostik's UV-FG (UV Foam Gasket) range provides a fast-curing alternative to moulded gaskets that can easily be integrated into manufacturing lines. Its single-component design means mixing is not required and a high-foam expansion enhances resilience during the assembly process.

Contact
<https://born2bond.bostik.com/en/industries/electronics>

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Editor Recommends



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LAUDA continues to provide an expanding range of feature-rich, future proof solutions with energy efficiency and connectivity front of mind, serving a diverse range of industries including chemical, pharmaceutical, biotechnology, oil and gas, composites, automotive, aerospace food & beverage, brewing, digital printing, laser and beyond.

LAUDA's new range of water chillers has been designed not only to comply with the new Eco-design directive, but to surpass it through the innovative use of variable speed modules that automatically reduce their duty cycle in line with the cooling demand hence reducing energy consumption & running costs, giving a tangible return on investment for the user, while ensuring full compliance with the latest regulations on refrigerant (fluorinated) gases.

Further portfolio expansion delivers the new LAUDA 'Versafreeze' ultra-freezers, (deep-freeze storage down to -85°C), and higher power 'Integral' process circulators, (process control from -90 to 320°C with >25kW of cooling @20°C), with pressure overlay options to increase the working range of water/glycol up to 140°C.

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Beyond temperature control, LAUDA has a well-established suite of solutions for measuring viscosity and surface/interfacial tension aimed at the development of polymers, oils, and surfactants.

We look forward to hearing from you.

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Vision Engineering supports 'Queen's Green Canopy'



Vision Engineering Limited (Woking, UK) welcomed HRH The Princess Royal to its Global HQ & Manufacturing facility in Send, Surrey, to present them with the Queen's Award for Enterprise for its Lynx EVO ergonomic stereo microscope.

During the visit Mr Curtis, Managing Director of Vision Engineering, invited HRH The Princess Royal to plant two Alder trees next to its wildlife pond, in support of The Queen's Green Canopy Project, a unique tree planting initiative created to mark Her Majesty's Platinum Jubilee in 2022, that honours The Queen's 70 years of service to the Nation, and benefit future generations.

QGC invites people from across the United Kingdom to 'Plant a Tree for the Jubilee', and is operating from now until the end of 2022, the Queen's 70th Jubilee Year.

Mr Curtis commented, "Vision Engineering recognises this innovative way to enhance our environment. We already operate a portion of our HQ site as a wildlife preservation area, including managed woodland, animal hides, bird boxes, and a wildlife pond. We wholeheartedly support The Queen's Green Canopy initiative to mark Her Majesty's 70th Jubilee, and are delighted that The Princess Royal accepted our invitation to plant the first two of ten planned new QGC Alder trees around our onsite wildlife pond."

www.visioneng.com

Engel high-viz workwear helps save the environment

A brand-new range of high visibility protective safety clothing with 50% of the material made from recycled plastic bottles has been introduced by workwear manufacturer Engel Workwear.

Called 'Safety Light', each item of clothing can be verified to consist of regenerated polyester fibres ultimately spun from a specific number of plastic bottles to make up 50% of its content. This is combined with 40% cotton and 10% standard polyester (245g/m²) to produce a cool-to-wear, durable fabric. By using regenerated polyester which is equally as efficient as new, there are also significant consumption savings on energy, water and CO₂.

The Danish firm has worked closely with Unifi, one of the world's most advanced recycling centres which transforms

the recycled bottles into a polyester yarn called 'REPREVE®'.

The smart, mix-and-match range includes boiler suits (containing 37 plastic bottles), work-jackets (20 bottles), trousers (19 bottles) with Cordura kneepad pockets and elasticated waistband, bib-overalls (23 bottles) and shorts (14 bottles).

All have many practical pockets and comfort-design features. There is also a specific selection especially for women called 'Ladies Light', all with the same benefits.

For more information, contact Gareth Bladen on email: gbl@f-engel.com or call: +44 (0)7759 520034 or visit: www.engel.eu/en or YouTube: <https://youtu.be/nc2se7xKIE>



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Measurement of NO · NO₂ · NO_x

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

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Incremental Engineering: 3D printing for Production



Incremental Engineering was established to serve SMEs with quality end use engineering components. Founded by Jerry Sutton, an engineer with over 25 years' experience in product design, machine design and instrumentation within a world-leading SME, the company has engineering at its core. This places it in a prime position to understand the needs and problems of manufacturing SMEs, ensuring customers always get the service they require.

Adoption of Additive Manufacturing (AM) can be daunting for OEMs and in particular for SMEs, something which Jerry has experienced first-hand. "SMEs can be unsure of the benefit AM can bring, and how they can implement it seamlessly into their business and existing operations.

"The key driver that AM offers is cost-savings. Though this may not always be in the most obvious sense. On a part for part basis AM parts may not be cheaper but when parts are designed for Additive Manufacturing one of the key benefits can be brought to bare, this is that complexity comes for free. Geometries that cannot be moulded or machined may be printed. Thus, multiple parts can be condensed into a single printed part, reducing assembly time and part costs. Additionally, there are no upfront mould costs or tooling charges.

"By way of a small example, we have a customer who was making 900 small assemblies per year, a simple spigot made from a machined bracket and small tube that were bonded together, these were replaced with a single printed component, saving £8,500 per year on the parts in addition to the labour content to assemble them (around 1 person week). Not a world shattering saving but with near zero cost to change these can mount up pretty quickly."

Specialising in Hewlett Packard Multi Jet Fusion (MJF) technology, Incremental Engineering helps to bring the advantages of this system to companies who are not fortunate enough to have it in house.

MJF is one of the first Additive Manufacturing (AM) technologies to be able to produce batch quantity end use components with great isotropic material properties and high finish standards, so many larger companies have the technology in house, giving them a key manufacturing advantage. Incremental Engineering offers MJF technology to SMEs with the

feel of in-house production, and is happy to review your designs for printability and to advise on where cost savings and design benefits from AM can be implemented.

Incremental Engineering's AM services are available on short lead-times and in one off or batch quantities. The company also offers Hybrid Manufacturing, which is a combination of AM and traditional techniques.

"We can address a range of production needs, from full production runs to single prototypes – we might have one job where we're producing a single part, and another one where we're producing 12,000 parts. We're totally flexible in that regard which is great for smaller companies."

In addition, thanks to advances in 3D printing technology in the last few years, products are

finished to such a high standard that many won't be able to tell it has been 3D-printed. "We have a lot of equipment in place to finish the products to a high standard – even consumers won't think it's 3D printed. This is the biggest difference with 3D printing in the last few years – it's gone from prototype to full production quality."

This high standard of finishing has been improved recently with new hardware from DyeMansion. "Our new hardware makes the processes more automated and repeatable, with a range of different colour options instead of just black nylon."

This new hardware includes the DyeMansion Powershot C, the DyeMansion Powershot S, and the DyeMansion DM60. The Powershot C offers easy and efficient part cleaning, reducing the time and cost associated with depowdering the printed parts.

The Powershot S is the most efficient surfacing technology for end-use parts, achieving the best finish with superior colouring results. Finally, the DM60 is the leading colouring solution for industrial AM, using innovative DeepDye Colouring technology for wide colour choices.

Further additions to Incremental Engineering have included the HP MJF580. This is a full colour print system that is capable of producing robust, end use parts with colour embedded into them. This can remove the need for painting entirely from prototype and production parts.

"Incremental Engineering is growing at a sustainable rate of around 300% per annum with new hardware purchases expanding our capacity and a planned move next year to larger premises.

"I think because of the uncertainty around supply and demand at the moment, a lot of SMEs don't want to commit to large orders, which is something we

can accommodate. You don't have to order 20,000 of something if you only need 10, so we can help decrease stock-hold risks for customers which has also contributed to the increased amount of work we're doing.

"As we grow, we are committed to maintaining the same level of service for our customers. There are a couple of other companies in Europe that do what we do, but they are very big, too big for some SMEs, so you won't get the same results as you get from Incremental Engineering. We're focusing on increasing our offering but with the same level of quality with a personal, individual service."

If you would like to find out more information, or explore where Additive Manufacturing could help in your operations, please head to the website or get in touch using the contact details below.

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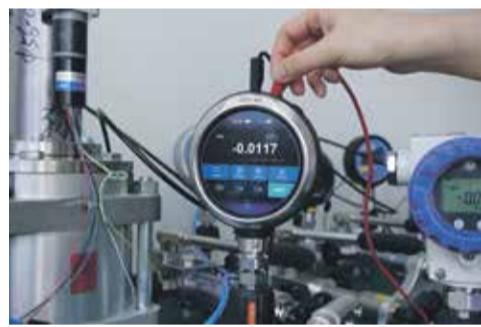
Norton Clipper squashes construction equipment shortages trend with a new range of compactors

Abrasives specialist Norton Clipper has launched its brand new range of compactors with the aim of working against the equipment shortage currently facing the UK construction industry.

The unfortunate combination of Brexit and COVID has seen companies and individuals in all industries experience shortages in materials, equipment and supplies. However, since the housing market boom and the government's announcement of its £27 billion road-building programme in March of last year, construction equipment – and compactors in particular – are in high demand. To combat this, Norton Clipper's new launch is available specifically for the UK market.

Designed to tackle soil, clay, asphalt, mixed stone and pavers with ease, the range includes two types of compactors: the CFP (forward only) and CRP, which can compact a larger surface area and be operated in both forward and reverse directions with minimal effort from the user. The range also includes a CR16 upright rammer.

The new Addtel 673 Advanced Digital Pressure Calibrators



Chamois Metrology introduces the new ADT673 Advanced Digital Pressure Calibrators which include a smartphone like touchscreen and graphical interface for a completely new way of interfacing the calibrator.

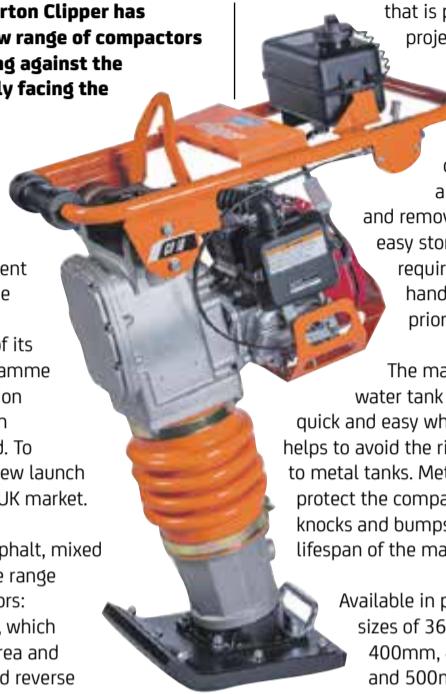
The ADT673 Advanced Digital Pressure calibrators come with a built-in barometer and are available in pressure ranges from ±2.5 mbar to 4,200 bar and come standard with Wi-Fi and Bluetooth wireless communications, as well as a type-C USB port and cable (RS-232 and 4-20mA output communications are optional).

Additel 673 calibrators provide an accurate pressure calibration solution for gauges, transmitters, and switches. Each calibrator contains a built-in barometer sensor which allows for the pressure reading to display in gauge pressure or absolute pressure with a simple menu selection.

The ADT673 series contains HART communication capabilities and can measure in mA, or V, and supply 24V loop power. It has a dual readout display showing the pressure on one display and mA, V or a pressure switch on the other display. Each calibrator comes with an ISO-17025 accredited certificate of calibration. It is compatible with Additel's Link mobile app and 9502 Additel/Log II software, which enables the ability to monitor and display the real-time pressure measurements in a table or graphically.

The Additel 673 Advanced Digital Pressure Calibrators are available now.

For more information, visit: www.chamois.net or contact us for a virtual or in-person demo on 01926 812066 or email: info@chamois.net



that is perfect for trenches and smaller projects.

Specifically designed with the operator in mind, Norton Clipper's compactor range offers easy manoeuvrability and a flawless finish. Foldable handles and removable transport wheels provide easy storage and minimise the space required in transit, while lifting and handle points are easily accessible to prioritise safe handling.

The machine's wide opening plastic water tank makes filling the container quick and easy while on site, and the use of plastic helps to avoid the risk of rust, which can be a threat to metal tanks. Metal cowlings and guards protect the compactors to withstand knocks and bumps – increasing the lifespan of the machine.

Available in plate width sizes of 360mm, 400mm, 420mm and 500mm, the range is available in both petrol and diesel models, with a maximum compaction depth starting from 15-25cm, increasing to 30-40cm for the reversible range. Additional rubber pads are available for the compactor, which can be used to gently compact pavers when attached to the plate.

A wide sprinkler bar ensures that water covers the full width of the plate, preventing tarmac from sticking and reducing the additional labour involved in soaking the site while the compactor is in operation. Meanwhile, the shut-off water tap prevents any water flow or spillage while the machine is in transit.

Despite the impressive centrifugal power of up to 21kN, the machine ensures low hand-arm vibration levels, prioritising



operator health as well as a smooth finish.

Colin Knight, National Sales Manager at Saint-Gobain Abrasives, explains, "Our new range of compactors continue the Norton Clipper tradition of tough, reliable and quality machinery that can easily tackle the day-to-day conditions that contractors face onsite. We saw that all supply chains across the industry were, and still are facing challenges, which is why we have taken steps to

ensure stocks of our new compactors are reserved for the UK market specifically, to prevent contractors from having to face long lead times and delays. Contractors will be able to hire or purchase these new machines via their preferred distributor."

For more information on the Norton Clipper compactor range, visit: <https://bit.ly/2ZydFHt>

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HB60 CHANNEL BALER MODELS
Our most popular baler model, the HB60 has seen great success in the cardboard and logistics industry. The machine's small footprint and low overall height allows for installation in locations that would not normally be suitable for channel balers. Available with 22/30/37/45kw motors, this baler range is capable of processing up to 11 tonnes of cardboard per hour.

ABOUT US
Despite COVID Middleton Engineering have had a busy year, continuing to supply clients in the Mediterranean and at home. Everything we produce is all made under one roof, from our design engineers, CNC department and large fabrication facilities. We handle a wide variety of projects ranging from simple refurbishment of balers, to large scale turnkey installations. With over 45 years experience in the recycling industry, We have a reputation for quality of work, excellent service and design innovation, which has helped establish us as a major supplying force within the industry, both nationally and worldwide. We have an extensive stores department ready to supply our service team with whatever they need to get their job done quickly and efficiently. With our wide variety of machines and reputation over the years we have worked successfully with Tesco, Co-op, Ocado, Marks and Spencer's as well as many councils around the UK. Our team will go above and beyond to make sure we provide the best service we can.



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4

Industry Update is sponsored by Vivid Laminating Technologies – see them on page 11

Kontron's VX3060-S2 takes 3U OpenVPX™ to next level

Kontron, a leading global provider of IoT/Embedded Computing Technology (ECT), commences first deliveries of its high performance VX3060-S2 Blade PC. Based on 11th Gen Intel® Core™ processors, this underscores Kontron's strong partnership with Intel, enabling the company to be first to market with a powerful and versatile space-saving 3U VPX single board PC.

Kontron's VX3060-S2 combines robustness, reliability and 15-year-availability with high performance processing, neural network acceleration and powerful graphics capabilities. CPU SKUs included with the Kontron VX3060-S2 are quad core units supporting specialized Vector Neural Network Instructions (VNNI) and Doubled Signal Processing performance (AVX512). The Gen12 Gfx graphics engine ensures maximum performance for

computer vision and media processing – twice that of the previous generation. Furthermore, the direct on-chip access to main memory allows exceptional performance from the 96 execution units (EUs), especially when compared to traditional discrete graphics silicon solutions featuring many more EUs.

Multiple extensions allow developers to more easily address a wide range of demanding mission critical applications. Specific power and temperature monitoring sensors make the VX3060-S2 qualified for safety critical applications. VX3060-S2 can provide Hardware Root of Trust thanks to its TPM module and Kontron SEC-Line elements. For ease of access, the VX3060-S2 pin assignment is compatible with VITA65 OpenVPX Profiles, and supports the SOSA™ standard for expediting avionics

certification. Therefore the VX3060 is also able to bring critical new features to existing systems developed in accordance with these standards.



A rich Linux™ BSP allows instant evaluation and benchmarking. This includes the source code required to support the VX3060-S2 in any Linux distribution, offering developers an unparalleled 'out of the box' experience thanks to CMON-Line, its integrated remotely accessible CBIT service.

For more information, please visit: www.kontron.com/en/products/vx3060-s2/p160535

Schmersal launches respiratory protection mask to FFP2 standard



The Schmersal Group has developed a particle-filtering half-face mask without exhalation valve. The reusable SPM100 respiratory protection mask satisfies the requirements of EN 149:2001+A1+2009 FFP2 and is available for delivery as of now. The mask is designed to reliably protect medical staff and employees at other exposed work locations, for example dusty work environments, from solid and liquid aerosols.

The mask body in the SPM100 (Schmersal Protection Mask) is made from medical-grade, biocompatible polypropylene (PP) and is reusable. The mask seal is created with a silicone profile that can be removed easily for regular disinfection and then quickly be reinserted into the mask. The filter caps can be removed with ease, thus offering easy filter changes. All reusable parts of the mask are made from resistant materials that are suitable for cleaning and disinfection.

The SPM100 respiratory protection mask is used with an FFP2 filter insert, PPE category III, in order to prevent the inhalation and/or transfer of particles, droplets and aerosols. This filter unit filters certain particles from the air inhaled by the wearer within the specified limit values of the filter used.

The SPM100 is a respiratory protection mask with no exhalation valve. Respiratory protection masks without an exhalation valve protect the wearer and prevent the wearer from contaminating his or her surroundings with exhaled droplets. In addition, the mask also comprises skin-compatible components and offers maximum comfort for the wearer.

"In developing the SPM100 respiratory protection mask, we made full use of our many years of experience in safety technology & occupational safety. We want to help ensure that even in this difficult time of the coronavirus people can work safely and stay healthy," explains Matthias Banaszek, Project Manager for Strategic Organisation Development.

Other products & services for infection prevention
In addition to the SPM100 respiratory protection mask, the Schmersal Group offers other products and services to help protect employees from coronavirus infection in the working environment. This includes 'Schmersal Access Control' (SAC-IO-20), which enables digital organisation of access management by limiting visitors, e.g. in retail settings. The system is an intuitive traffic light system with integrated counter that automatically counts the number of visitors entering a shop or other facility.

In addition, tec.nicum, Schmersal's service division, offers execution and documentation of 'Risk assessments for infection prevention' for businesses in all industries – a legal requirement for employers under industrial health and safety regulation and fully independent of a current coronavirus pandemic.

Contact: Steve Watkins, Marketing & Business Development
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Is it luck or good judgement?



Metrel warehouse manager, Alex Biddiscombe, can fulfil multi-function testers on next-day delivery

"Business, as we all recover from the COVID chaos, is difficult," said Brendan Beaver, UK manager of Metrel, the innovative electrical solutions provider.

"Planning work is more a lottery than ever, while supplies and deliveries cannot be reliably scheduled apparently due to the aftermath of COVID, the lack of drivers and for some, a fire at a key supplier."

"It is even harder when the company is going through the unprecedented growth we are experiencing. But excuses are no use to customers who need their new test equipment now to earn their bread. Fortunately Metrel stocks are good, our channels are well primed, and we can fulfil your needs today."

Metrel is one of the oldest manufacturers of electrical test equipment, having been established over 60 years ago. An innovation leader, it produces test equipment for HV and LV applications, including power quality, earth analysis and transformer analysis.

For more information, contact
Brendan Beaver on 01924 245000 or
email: brendan.beaver@metrel.co.uk

Quiet fans making noise in the industry

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

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

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

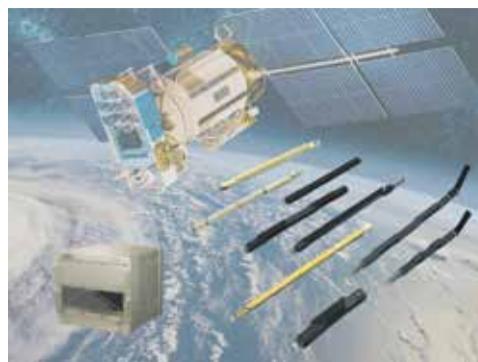
Sunon can also offer environment specific protection, such as GR47 Salt Fog for marine applications. If the correct level of protection is not considered, then the life expectancy of the fan will be compromised. If there is concern regarding fan failure, most are now available with additional wires for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

Contact
www.glec.co.uk

nVent/Schroff Card-Lok High Clamp Force PCB Retainers

Foremost Electronics, the engineering-led, Essex-based importer and specialist distributor of electromechanical components, can now supply the nVent/Schroff Card-Lok range of innovative high thermal performance and high clamp force PCB retainers for use in rugged environments. The new Card-Lok retainers have been designed to be drop-in replacements for most applications currently using standard Card-Loks and provide on average more than 3x the amount of clamp force compared to similarly sized Card-Loks.

Standard COTS & modified Card-Loks are available to meet a wide range of requirements and include designs for second level maintenance including torque limiting and tool-less card locks. With their small and lightweight designs typical applications include industrial systems, defence, space flight, communications, computers and intelligence surveillance.



As more systems are being exposed to increased shock and vibration sufficient printed circuit board retention is critical as are the requirements of SWaP (reducing size and weight while effectively handling increasing power). SWaP is a continuing challenge for defence and aerospace designers and manufacturers and is especially important in airborne applications where weight equates to cost, or for unmanned vehicles where space is a premium.

The need to miniaturise the size of electronics has also been driven by the growing need for devices that can easily be carried over long distances by operators.

For more information on nVent/Schroff Card-Lok High Clamp Force PCB Retainers, call +44 (0)1371 811171 or email: sales@4most.co.uk or visit: www.4most.co.uk

METAL

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ges group
PROVIDING THE BEST SOLUTION



Forecyte Online Condition Monitoring Powered by Nidec

Forecyte is the remote vibration/temperature monitoring system manufactured by NIDEC and promoted by GES as part of our machine condition monitoring programme, used by many customers throughout UK & Ireland. The Forecyte system allows continuous vibration monitoring of any equipment over an unlimited period of time and at recording intervals determined by the user.



GES Group's 5 Pillars of Expertise

GES Group, established in 1972 as Grants Electrical Services (NI) Ltd, the company has grown and developed into GES Group, a leading Electrical and Mechanical Engineering business, now serving customers throughout Ireland, the UK and Europe. Currently employing over 80 staff, including many professionally trained and accredited Engineers, we respond quickly to industry's ever-changing demands and needs, while offering geographic coverage to many of our customers. Traditionally AC/DC motor rewind and re-manufacture specialists, we have developed our portfolio as a market leader to now provide an extensive range of technically advanced products and services.

Nidec (Leroy Somer) Electric Motors stocked in Mallusk and Newbridge (IRL)

As of the 4th January 2021, GES Group became the authorised Distributor for Nidec (Leroy-Somer) Motors Ireland. This is a very exciting time for both GES Group and Nidec as we have worked together in partnership in Northern Ireland for several years, and by expanding the distributorship to Southern Ireland, our partnership will create a more comprehensive infrastructure with enhanced experience and expertise and will provide our customers with a first class customer service experience.



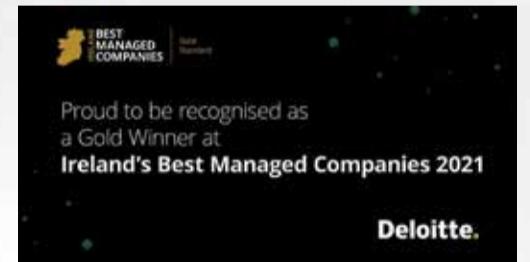
Wind Turbine generator re-design

The Northern Ireland wind fleet contains 1,236 sites of 5,000kW in capacity or less, with a total capacity of 218MW. A significant number of these are around 250kW (798 with a total installed capacity of 214MW). Deploying larger capacity turbines with a reduced output capability has become extremely viable as the machines can produce the maximum 250kw at lower wind speeds making for a potentially more efficient machine. GES has been working closely with the industry in developing the generator winding design to accommodate this. Recently GES has completed machine winding conversions which have been installed at several sites across Northern Ireland and in Europe. The feedback from customers and service providers has been excellent and the machines' performance has met all expectations. With several more conversions in the pipeline, GES looks forward to further orders and developing our working relationship with others in this industry.

Company receives award for Gold

GES Group has been named as one of Ireland's Best Managed Companies. The awards programme is led by Deloitte Ireland, in association with Bank of Ireland. The company, which demonstrated superior business performance for 5th year, was recognised at a virtual awards ceremony on Wednesday, 8 September.

Commenting on the award, David Moore, CEO, GES Group, said, "It is my role as Chief Executive to drive vision and ambition with professional leadership throughout the entire company, with clarity of governance and compliance, and through the trust and ownership of my key management team. Being brought up in a business and engineering childhood, I quickly accepted and adapted the desire for training and development in a future career ahead. Ever more so today is Management and Leadership training a key driver of our competitiveness and success and it is important that that message travels wide across the whole company for continued development. I have witnessed substantial progress across the company that reinforce the investment that we have jointly participated, in professional development where individuals and their depts. perform better, and where all participants embrace challenges present by the ever-changing market and economy. There is no question that the vision, good leadership and management practices that we have fully embraced have a truly significant impact on our organisational performance, both now and for the future. Thanks to all the team for their hard work and well-earned success in gaining the prestigious Deloitte All-Ireland GOLD, Best Managed Companies Award."



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

www.ges-group.com

Megaman® launches TEGO 2 integrated downlight



Global lighting manufacturer, Megaman®, has launched its adaptable, fully fire-rated TEGO 2 integrated LED downlight, ideal for commercial and domestic applications. The innovative and unique LED system features the option to easily change both the beam angle of the fixture and the colour temperature, all while in situ.

With Megaman's cutting edge Dual Beam Technology (DBT), the TEGO 2 has two beam angles – 60° and 36° – available in one fitting. By simply pressing the lens, the beam angle can be changed easily by both the installer and end user. Dual CCT 2,800K & 4,000K can also be activated by twisting the lens once installed. This allows customers to toggle the colour temperature between warm white or cool white as well as adapting the beam angle with simple light fingertip control – all while the fitting is in situ.

With a lumen output of 650lm at 7.5W, the TEGO 2 integrated downlight is also dimmable and rated IP65, making it ideal for environments with higher moisture, such as bathrooms and kitchens. The downlights are also tested to provide fire protection for 30, 60 or 90 minute ceiling constructions. The LED system includes up to 50,000 hours usage and a tool-free wiring install with a loop in/loop out function.

For more information about MEGAMAN®, please visit the website at: www.megamanuk.com

The EL-SIE Range



Software-free, next generation data logging from Lascar Electronics

Although Lascar Electronics has been manufacturing data loggers for over 25 years, even for the original inventors of the USB data logger, the launch of the new EL-SIE range was a major event. The EL-SIE is the first in a new generation of EasyLog products that takes data logging to another level.

Capable of measuring ambient temperature, humidity and pressure, each data logger can store over 1 million readings inside the sleek metal housing. The bright and clear display shows readings and device status at a glance, and the coloured LED indicators and sounder mean the EL-SIE can grab your attention when it needs to. Each logger is supplied with batteries (two standard AAAs), a USB cable and a wall bracket so it's ready to use right away, and one set of batteries will typically last over a year.

But the biggest innovation is hidden away, the software needed to configure your logger and view, analyse and download the data is all based inside the EL-SIE itself. There is nothing to install, simply connect the logger to any PC or Mac and use your existing web browser. You don't even need internet access, it couldn't be easier.

T +44 (0)1794 884567
www.lascarelectronics.com

Get ahead in the electrification race with myenergi!



In 2030, new legislation will ban the sale of all new petrol and diesel cars in the UK, with hybrid vehicles also set to be phased-out by 2035. However, according to the Competition and Markets Authority (CMA), Britain requires ten times more charging points to be installed before this deadline to ensure a thriving national network for electric vehicle (EV) drivers.

While investment into public chargers and home charging continues at pace, workplace charging – particularly across PLCs – continues

to lag behind. However, with numerous subsidies available, such as the Workplace Charging Scheme (which provides a grant equivalent to 75% of the purchase and installation price), you'll be surprised about how cost-effective and beneficial installing your own charging points can be!

With employees transitioning to electrification and businesses required to follow suit, now is the perfect time to invest in the future. As the world's first eco-smart EV charger, the myenergi zappi is an excellent option for both home and workplace charging. Smart, future-proof and capable of harnessing 100% renewable self-generated energy, it's the professional solution for forward-thinking business.

For more information, or to get a quote for your business, please visit: www.myenergi.com/zappiquote



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Industry leading supplier of wireless connectivity products

In this issue of Industry Update, we have selected Linkwave Technologies Ltd as our Wireless Connectivity Company of the Month.

Linkwave Technologies was established in 1998 by Matt Fry and Andrew Newton. Both partners still manage and operate the business, supporting a stable and loyal customer base that has been built up over the past 20+ years.

Linkwave Technologies specialises in the distribution and integration of wireless connectivity products for a wide range of markets. Utilising its extensive experience in the field of cellular technologies, enables the company to assist businesses with their choice of wireless solution and to support them throughout a project lifecycle. Linkwave Technologies can advise on use of products in low power designs, integration of products into systems using embedded operating systems, and more.

"We look to flex our product and service offerings around the customer requirement. We can provide product only, whether module or gateway, through to complete solution including edge and cloud compute, multi-company access, UX design and device management. We also offer hardware design services to optimise integration of wireless communications into new or existing customer products."



both public and private sectors for the UK and Ireland. Our supply partners are industry leaders such as Sierra Wireless, Furuno, Celerway, Panorama Antennas, 2J and Lantronix," said Chris Ryan (pictured above), UK & Ireland Sales Manager.

Some of the most noteworthy innovations with the company's range includes the Celerway Arcus 5G, Celerway GO, Sierra Wireless XR series, and Sierra Wireless Octave.

The new XR series of multi-network routers from Sierra Wireless combines 5G data rates and ultra-low latency with the new AirLink OS, offering a highly secure, versatile platform with highly configurable routing capabilities. These devices are suitable for both fixed and mobile applications. Linkwave Technologies currently has ongoing customer trials of the XR90 for an autonomous vehicle control application.

The Celerway Arcus 5G is able to combine two 5G modems, a 4G modem and WiFi to offer a dynamic, load-balanced VPN across and up to 7 simultaneous WAN connections. Linkwave Technologies' clients are using the Arcus for drone

"As an added value distributor of wireless communication, location and timing solutions, (2G, 3G, 4G-LTE and 5G wireless connectivity, Ethernet connectivity, Bluetooth, and Wi-Fi), we serve a range of markets in



Linkwave is employing to deliver highly secure, low-cost, industrial IoT projects. "We have deployed complex projects within very short development times, typically 3-4 months. Forrester predicts an 88% ROI on IoT projects that use Octave," added Chris.

The Celerway GO is the world's most powerful, hand-held router with a 7-8 hour battery life. Offering maximum security using an encrypted VPN, the GO ensures that mobile workers are able to be connected reliably and securely, anywhere.

As the company looks ahead, its supplier base continues to innovate and deliver new products and services, which are at the forefront of wireless communications. Utilising these products and services to deliver complete,

applications and, coupled with a marine antenna array, the Arcus is gaining favour with the maritime/yachting industry.



comprehensive solutions to its customer base is a key differentiator for Linkwave Technologies. Chris added, "We are already delivering solutions in the IoT space, but we will be looking to develop our capability to deliver solutions requiring high bandwidth/low latency over public and private networks, as 5G technology becomes more mainstream." On another front Linkwave are offering fibre to the desktop products for highly secure comms, into healthcare, banks, local government, MOD and news broadcast agencies.

For more information, please see below:
T +44 (0)1522 884750
www.linkwave.co.uk



Infection Prevention & Control Specialist of the Month

INNOV8 provides crucial services to ease the pressure on NHS staff throughout COVID-19



In this issue of Industry Update, we are pleased to announce INNOV8 Cleaning Solutions as our Infection Prevention & Control Specialist of the Month.

Established in 2012, INNOV8 Cleaning Solutions is a highly trained, motivated team delivering the highest standards of results for and to its clients in the public, private and charity sectors.

"We provide specialist infection control and hygiene cleaning services which satisfy the regulatory requirements of the CQC (Care Quality Commission). We offer safe disinfection of ambulances and medical facilities on scheduled deep cleaning programmes and emergency call outs, and decontaminations from known or suspected cases carried on ambulances or other emergency service vehicles. In addition we provide high level specialist hygiene cleaning where it is required such as kitchens, ensuring they are free from all bacteria and contamination at the point of handing over to the client," stated Martyn



Johnson, Business & Technical Manager.

Nurturing a company ethos that evokes 'Quality before Profit', INNOV8 Cleaning Solutions delivers the highest level of client satisfaction and exceeds all outcomes required by the Care Quality Commission. "We provide our clients with an assured service providing traceable records along with ATP (Adenosine Triphosphate Testing) records before and after cleaning processes are undertaken," said Martyn. Clients are also given live access through a secured online portal to the key performance indicators agreed with swab testing results. As a family run business, the company understands the importance of integrity and honesty. INNOV8 Cleaning Solutions is 100% client focused, and its staff are highly trained to provide a consistent auditable service.

A noteworthy achievement, INNOV8 Cleaning Solutions has just secured the deep cleaning of the Children's Air Ambulance as Martyn explains further. "The infection control cleaning of an aircraft is an extremely specialist service and we are so proud to be associated with such a vital service. We are ready and on hand to ensure that the children are transported in an aircraft that is infection free."

INNOV8 Cleaning Solutions provided a crucial service to our country throughout COVID-19. Its services are vital to ensure safety procedures are met, however, in the midst of a global pandemic, its services were needed more than ever. "We had to respond immediately to the NHS COVID-19 response, so we placed operatives at all A&E departments throughout the East Midlands and cleaned the ambulances prior to the ambulance going to the next patient. Our staff placed at BARTS NHS Trust at Newham General Hospital in London worked around the clock daily decontaminating



all ambulances operated from the site. Thousands of intermediate wipe downs were completed along with thousands of emergency call outs to decontaminate vehicles. Highways Agency Vehicles were kept operational by the team nationally at INNOV8 who attended call outs to vehicles which had been contaminated by either a member of staff or a member of the public," explained Martyn.

A remarkable service provided by a truly respectable company; on behalf of our country we want to publicly thank INNOV8 Cleaning Solutions for its continued efforts in response to the COVID-19 pandemic. In the future, the company is keen to expand into other emergency services such as the police, coastguard, public utilities and more kitchens around the UK.

**T 01782 766433
enquiries@innov8cleaning.co.uk
www.innov8cleaning.co.uk**



Premium milk vending machines & bottles

Daisy Vending is delighted to announce that it has won the prestigious Farm Business Innovation Award for 2021.



Part of Elite Dairy Services Ltd, Daisy

Vending was initially set up to provide a range of milking solutions to dairy farmers throughout the UK. Now, the company specialises in the manufacture of milk vending machines, offering bespoke packages which include vending machines, pasteurisers, milk cooling tanks, milk skimmers and creamers. Daisy Vending can also provide glass bottles in a variety of sizes, printed to the customer's own design. There is also an option of a vending machine for

these bottles, as well as a refrigerated version to allow the sale of other items.

Owned and run by John Baldwin, a qualified Dairy Engineer with over 10 years of experience in the industry, Daisy Vending is primed to help you set up your next venture in milk vending, offering the most technically advanced milk vending machine on the market.



All of the company's machines are designed, developed and built in the UK, with an advanced wash system to ensure that every dispense is as fresh as the last. The machines are built to an ultra-secure and anti-vandal design, with a built-in security alarm as standard. What's more, the vending machines feature a dual tank system to offer two milk types from one machine, as well as automatic tank switching resulting in less down time



and more sales.

The 200L and 400L milk vending machines certainly offer some of the most advanced features on the market, with the option of being able to view and control the machine from anywhere in the world. They can also be fitted with a variety of payment options, including coin, contactless, or a combination of the two. This is in addition to a free vend option for inside shops and cafés.

To complement this innovative product range, Daisy Vending is dedicated to providing the best possible service to its customers, with 24 hour phone support and ongoing service and maintenance for all of its products. Its expert engineers have a wealth of industry knowledge, meaning they can provide truly bespoke machines designed with each client's specific needs in mind.



Of course, Daisy Vending is always looking for ways to progress and offer its customers something new. Looking to the future, the company will be continuing to evolve its offering, expanding its product range to include more options such as flavoured milk.

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

T 01460 455555
info@daisylvending.com
www.daisylvending.com



Machining Update

UNISIG: Time to rethink sharpening your gundrills



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

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

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

Even coated drills can be sharpened. Naturally, this will reveal the raw carbide on the face, but this does not impact performance. The coating

will remain on the wear pads and continue to improve the gundrill's size control and ability to leave behind a finished surface. Tool life will be impacted, but the only other option is having it fully resharpened and re-coated by the OEM, which will likely be less cost effective. Manufacturers have several options for resharpening their gundrills.

For specialised gundrills, such as twin-flute tools and those intended for ultra-high-feed applications with chipbreakers below a coating, resharpening is something that only a gundrill's OEM can do. A local sharpening service will likely have the proper equipment, but this requires having redundant tooling & factoring in lead time and transportation costs.

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

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

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

A basic, high-precision manual tool grinder is used as a platform for these systems, though the length of some gundrills necessitates a reinforced table for sufficient accuracy. Choosing a fixture can be more complicated, as gundrills can be ground in two different ways. Sweep grinding leaves behind a gradual transition between elements of the tip's geometry, while facet grinding creates distinct geometry. UNISIG typically recommends facet grinding, because the slight increase in tip strength produced by a sweep grind is outweighed by the repeatability and greater ease of inspection offered by facet grinds.

The final piece of advanced gundrill grinding systems involves a digital inspection camera capable of viewing and storing magnified images.



Ideally, this will allow the user to perform measurements and identify flaws without taking the tool out of the fixture. In addition to allowing for highly precise grinding, this inspection is vital for process optimisation. Process optimization capability is the real added value conferred by performing gundrill resharpening in house. Frequent inspection allows for the maximisation of tool life.

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

In-house gundrill resharpening also ensures that shops can obtain the best tip geometry for their given applications. Whether it is uneven or unexpected wear, or the sudden appearance of chips in the cutting edge, once a shop identifies an irregularity, they can then adjust speeds and feeds to optimise the process.

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

Further information on all machines and the complete UNISIG machine programme is available at: www.unisig.com or follow the company on LinkedIn and Twitter (@UNISIG).

Award-winning print finishing equipment



In this issue of Industry Update, we have selected **Vivid Laminating Technologies** as the recipient of our Print Finishing Solutions Company of the Month.

Vivid Laminating Technologies is Europe's leading designer and manufacturer of multi award-winning finishing equipment. For over 30 years, Vivid Laminating Technologies has pushed the boundaries of print finishing to the next level with its wide range of cutting-edge equipment and premium supplies.

Vivid Laminating Technologies creates cutting-edge laminating and print finishing equipment of the highest quality and its years' of experience and expertise has enabled its customers to produce enviable print finishes.

"We manufacture specialised finishing equipment for print and signage products. We provide systems for a wide range of industries. When we started out, we originally became known for laminating but we evolved throughout the 90s and early 00s, and started making and designing our own systems. Around 2012, we



started adapting our laminating system 'The Matrix', which became number one in the UK and Europe as a digital laminating and foiling system – it put us on the map," said Lewis Evans, Product Manager.

The Matrix is the company's flagship product range, offering the ideal investment in finishing customers digital and litho print work. The systems are easy

to use, reliable and robust and the Matrix Pneumatic, Duplex and Standard models are all designed and built as specialist laminating systems. Using its high-performance steel roller, the systems' provide rapid production without compromising on results. In addition, although specialising in lamination, these systems are also capable of digital foiling and special effects including spot UV.



Another innovative range is the company's Easymount Wide Format Laminators: hot thermal and cold roll film laminating systems. Designed for outdoor signage, the Easymount range is the perfect solution for the graphics and signage industry to laminate signs, roll-up and pop-up displays, floor graphics, vehicle wraps, POS displays, posters and exhibition graphics.



In terms of the company latest developments, in response to the COVID-19 pandemic Vivid Laminating Technologies worked hard to adapt the business and continue to provide and support its existing and new customers. One of the company's main focuses during these times, has been on its Veloblade digital cutting systems range.

"Veloblade became a new focus for us, even during the COVID-19 pandemic the range stayed strong and assisted our clients with creating new products and COVID-19 related products. The Veloblade range was launched a couple of years ago for industrial digital cutting, for various sized projects, from big outdoor signs to small applications. We focused on this range during COVID-19 which has put us in good place. We never want to stand still so we have been constantly developing and we have new, exciting developments coming very soon," mentioned Lewis.

Another recent expansion for the company has been its new Ecommerce launched website, enabling customers to order a range of premium print finishing supplies including film, foils, pouches and binding consumables at: www.vivid-swift.com

As the company looks ahead, Vivid Laminating Technologies plans to continue to listen to the needs of the market and its customers, adapting and responding by improving upon its existing products and bringing out new products that incorporate the latest technologies.

VELOBLADE VOLTA 1070+

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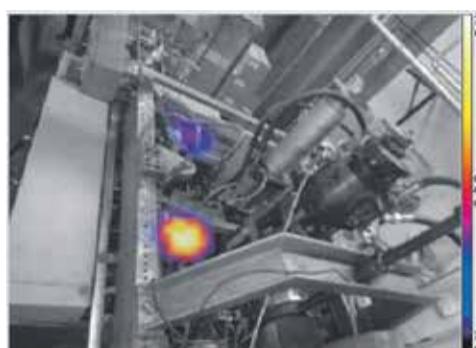
New technology which is revolutionising many plant maintenance and workplace noise tasks

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



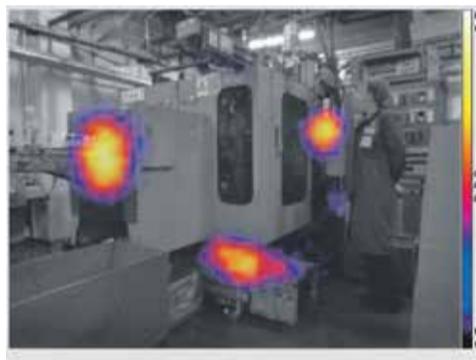
You may not have heard of this technology before. It has been around for more than 10 years, but until now only in a form that acoustic experts could use, only suited to a lab environment, and costing six figure sums. The SOUNDCAM is revolutionary, because it puts this **powerful technology in the hands of anyone capable of operating a smart phone**. It is **battery powered, waterproof**, ready to use 30 seconds after switching on, and anyone can learn to use it in 10 minutes. And its price has only 4 figures!

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



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

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

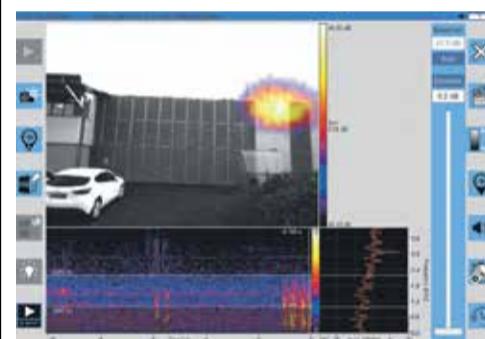


1. Energy saving: With our SOUNDCAMS you can see **compressed air and steam leaks, and electrical leaks** live on-screen. We also have customers looking for problems like **water/steam hammer**. For leaks, we have a special documentation app, which sets up the SOUNDCAM then after you go around the factory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



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

3. Workplace noise: Health and safety professionals are now able to quickly **find the sources of excessive noise** in the workplace, enabling them to contact the

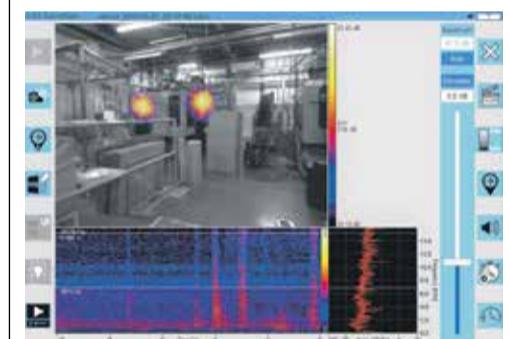


plant supplier or take mitigating action themselves. A noisy fan can be replaced or enclosed, leaks on a machine enclosure can be seen and fixed. Whatever the noise source, you can quickly gather indisputable video or still image proof to share with others.

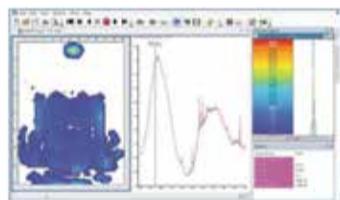
4. Vacuum leaks: One of the **top Formula one racing teams** is using the ultrasonic capabilities of our SOUNDCAM to locate leaks instantly and reliably in his vacuum forming equipment, avoiding costly mis-builds, and saving time. We're proud to make one of the fastest teams even faster!

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

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



Advanced force measurement



manufactured by leading brands such as Interface, AMTI, XSENSOR and GP:50.

As an internationally recognised brand, Interface Force

has a range of products from multi axis load cells, load buttons, load pins and supporting products that enable them to offer the client a complete solution. These can include single and multi-channel signal amplifiers, a wide range of displays, data loggers and data logging software, Bluetooth and wireless telemetry systems for remote data collection and evaluation, repair and calibration services.

"We supply very high-quality products and have vast expertise in giving advice for load cell proving devices. Our load cells have very high accuracy and come in many different configurations such as our latest series, the 2200 calibration column. It is available in 100K-lb and 200K-lb capacities and each load cell is supplied with an ASTM E74 calibration with ISO-376 available if required," stated Tony Rokins, Business and Development Manager.

Interface Force offers bespoke, flexible services individual to each client's requirements. The company work with the client offering advice on pre-sales, on and off-site and develop bespoke custom solutions or devices to meet necessary needs.

In recent developments, Interface Force now distribute XSENSOR's high speed



pressure mapping system. It is the first system to design and allow product designers and safety testing engineers to see, record and evaluate the distribution of force from high-speed impacts on safety equipment such as helmets and body armour. Perfect for the automation sector, the mapping system can be used for collecting crash testing data I away not seen before. It can also record the force or pressure that is distributed during the impact from whiplash, seat belt and airbag testing.

Furthermore, Tony explained, "We are moving into a new direction, working with customers and businesses who need remote monitoring systems. A good example of this would be remote monitoring of airport luggage systems and conveyor belts. Our R&D team have been busy developing a wireless multi axis vibration sensor that has been specifically developed for a single customer, however, this product has multiple applications that can serve any business requiring help monitoring its conveyor systems. Alongside this, we also offer custom designed wireless load



cells so the customer can monitor and be alerted of any unexpected loads or changes on the conveyor system. They can then schedule maintenance for the system when it's not in use, rather than respond to a breakdown."

Interface Force has recently purchased several force calibration machines and is waiting for them to be tested and approved. Interface Force's established expertise in load cell calibrations, means it is an area the company is keen to explore.

Tony described how he felt receiving our award, "We are very excited. We work very hard for our customers, so it's always nice to receive some recognition."

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



Manufacturers of the largest spring range in the UK

In this issue of Industry Update, we are pleased to announce European Springs and Pressings Ltd as our Spring Manufacturing Company of the Month.

Operating from two locations across England, with manufacturing facilities dedicated to spring, wireform and metal pressings production in London and Cornwall, its sister company Metrol, is based in Northampton and specialises in gas struts and supplies its standard stock and gas springs. Overall, the company has a manufacturing capacity of over 7,000m².

From sales, customer service, design, tooling, prototyping, R&D testing to full production, it offers a complete design and manufacturing service for bespoke and standard metal springs, pressings, wireforms, coil and gas springs.

"We are proud to be part of the Lesjöfors Group, giving us the capability to manufacture and distribute across the world. Lesjöfors have manufacturing or sales offices across Europe, Korea, China, Thailand, Singapore, Mexico and the US. Thanks to Beijer Alma – our parent company's international connections, there is virtually

no limit to the number or size of products or orders we can produce," stated Liam Bland, Marketing Manager.

European Springs and Pressings Ltd was established in 1948 and has been in operation for over 70 years. With all sites serving customers in the automotive, telecommunications, aerospace, defence, hydraulics, domestic appliances, nuclear, electrical switch gear, lighting and controls, scientific medical and pharmaceutical industries, due to the company's extensively equipped manufacturing plants, it can offer a wide variety of products and services across a plethora of industries.

"Our high-speed press components which support up to 130 tonnes allow us to offer the UK's widest range of compression springs, gas springs, torsion springs and tension springs. Thanks to our automated machinery and experienced engineers, we are able to produce over 12,000 items from our stock catalogue at extremely competitive prices," said Liam.

Offering innovative solutions when accuracy is



everything, European Springs and Pressings Ltd offers an unrivalled custom-tailored manufacturing process and in-house design service for its customers. Liam explained further, "We offer design programs complete with CAD/CAM software and systems that help clients realise a range of prototype ideas which can be individually cut using precision lasers for R&D testing or put into full production. Our fully equipped

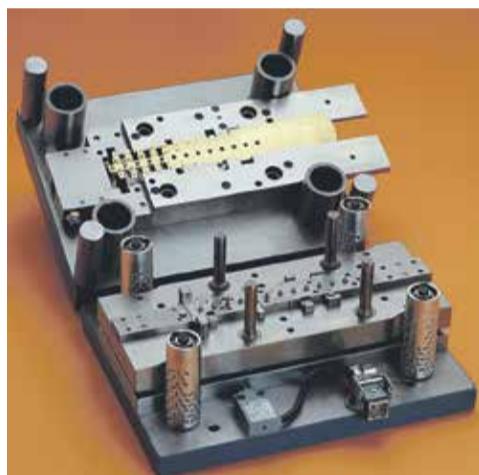
tool room can design and build any production tooling needed, assuring competitive pricing and consistent quality supply. We continually invest in cutting-edge technologies, such as our recent acquisition the Bruderer BSTA 410-110B2, to ensure that our processes are streamlined so that we can effectively deliver even the most demanding of jobs."

From the initial impact of COVID-19, the company has developed IT procedures and systems to support home working environments for its staff to retain efficiency and service. Investment has been made into new staff to bolster the business including a new Business Development Manager, Finance Manager, Marketing Manager and Apprenticeships.



In the future, the company will continue to build upon its strengths by offering the most complete service to its customers. In closing, Liam mentioned, "We have been building on the mutually supportive relationship between ESP and our sister company Metrol to generate better cross-company sales and communications, as well as promoting collaboration across our parent company Lesjöfors to foster and embed a culture of co-operation and engagement."

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



Fluid Power Distribution Company of the Month

Tom Parker Ltd celebrates 50 years in business

In this issue of Industry Update, we are pleased to announce Tom Parker Ltd as our Fluid Power Distribution Company of the Month.

"2022 will be a very special year for us as we will be celebrating our 50th anniversary. We are immensely proud to remain an independent family business and of earning and maintaining our place as one of the leading fluid power distribution companies in the UK," stated Alex Hoyle, Marketing Manager.

Established in 1972 by Mr Tom Parker who first set up the business to distribute the innovative quick connect couplings by Cejn of Sweden to the UK pneumatic and hydraulic market. The company grew from strength to strength soon acquiring the UK distribution rights for products from American connection specialists CPC – Colder Products Company. Both of whom the company are proud to work with to this day.

In 1999 Tom Parker Ltd started to distribute product catalogues aimed at distribution, OEM and end-users; building up a wide network of distributors over the years who now span the UK.

These companies have the Tom Parker catalogue personalised to their company details along with the option to have a clone or full bespoke website.



"Now there are only two independent catalogue providers for distributors left in the UK fluid power network. We are enormously proud to be one of these," stated Alex.

In exciting news, the special anniversary edition of their new catalogue officially launches in 2022. "It includes 36,000 product lines of which 1,400 are new and more than 80 core and market leading brands including CPC, Cejn, CDC Pneumatic, Master Pneumatic, EMC, Sicomat, FasTest, Camozzi, Festo, Aignep, John Guest, Fitok, Rotoflux & Werther Compressors," said Alex.

Customers have flexible delivery options and can buy online 24/7 with same day despatches and next day available before 9am on stock items and even Saturday delivery. With no minimum order spend, Tom Parker Ltd's experienced technical support team carefully select products to enhance each individual project or applications needs.

The company offers a plethora of benefits to its customers who work in the pneumatics, hydraulics, industrial and process industries. "While many things



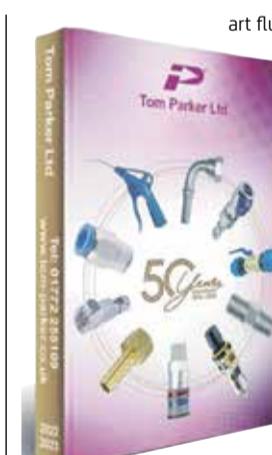
have changed at Tom Parker Ltd throughout our 50 years history, the company's traditional core values very much remain the same.

"We still aim on being the first-choice supplier for our clients who require high quality quick connect

couplings and related components," comments Sebastian Cole, Tom Parker Ltd UK Sales Manager.

Recently, the company has greatly expanded in terms of employees and size. New services, technology and software has been introduced to enhance operations and enable the team to assist their customers more efficiently. Tom Parker Ltd were grateful to remain extremely busy throughout COVID-19 with its medical focused quick connect and disconnect products and they are grateful for all continued custom.

"We have many plans for the future and are committed to ensuring our processes continue to evolve across the company, so that we can bring high-quality, state-of-the-



art fluid power products to our valued customers. We are excited to launch our 50th anniversary catalogue, which is the first in the last 20 years to be unpriced and we are also in the process of making lots of enhancements to our website to propel us even further into the digital realm. We will continue to be flexible, put our customers' needs first and invest heavily in our people and our growth. We consider our product knowledge, after sales service and close working relationships with our suppliers, to be our major strength going forward in supporting our customers," stated Alex.

The new catalogue is due to launch in January alongside the new website. To request copies of the new 50th anniversary Tom Parker Ltd Fluid Power product catalogue, please email: catalogue@tom-parker.co.uk

T 01772 255109
www.tom-parker.co.uk

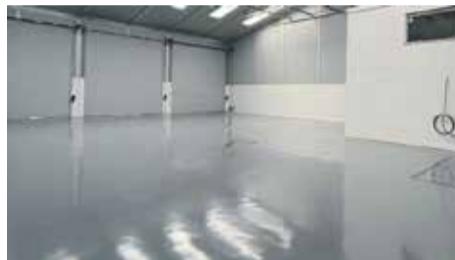


Handling, Storage & Logistics Update

Abacus Flooring Solutions Limited



Abacus Flooring Solutions Limited work in all industries offering a full service to include floor and joint repairs. Using fast curing resin materials allows them to carry out flooring within a 60 minute traffic time saving downtime. Abacus Flooring Solutions are approved by virtually all the resin manufacturers resulting in whole market choice.



If you have any type of Industrial or Commercial flooring project, Abacus Flooring Solutions will have the answer. Using recycled materials within their floor systems make it the clear winner for your next project. We recently won a top award for our own floor screed which is made using recycled white plastics.



Slip resistance is particularly important and can be added to any of our flooring systems, this provides many added benefits.

Safety Demarcation can be applied in a full range of styles and colours to see your exact requirements and with over 30 years of experience I feel sure we will have references to show you.



We also offer a full range of DIY products for floor coating and floor and joint repairs, this can be the most cost-effective course of action for some factory owners.

If you want maximum impact, safe floors that will provide up to 15 years of life, please contact Abacus Flooring Solutions, the only Flooring Contractor to have been awarded Environmental Impact Award.

Working in all industries throughout the UK, we can help you on your next flooring project.

T 01530 432790
www.abacussolutions.co.uk



Anord Mardix improves network capacity at UK sites

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

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

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



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

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

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

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

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

**NEW
PT2500
REMOTE CONTROLLED
ARTICULATED TRAILER MOVER**



**TOW 25-TONNE LOADS AT THE
TOUCH OF YOUR FINGER TIPS**

The PT2500, a fully electric, remote-controlled, pedestrian-operated tow tractor designed for moving articulated lorry trailers up to 25 tonnes.

Remote-control functionality provides enhanced flexibility, manoeuvrability, and safety and optimally uses limited space. Simple to operate and low maintenance, the PT2500 is an ideal partner for anyone working in logistics and distribution.

WWW.BRADSHAWEV.COM/PT2500
ENQUIRIES@BRADSHAWEV.COM

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HSM: 50 years of environmental technology innovations



In this issue of Industry Update, we have selected HSM GmbH + Co. KG as our Environmental Technology Company of the Month.

HSM was established in 1971 by Hermann Schwelling and is a market leading provider of products and services in environmental technology and office technology. HSM develops, produces and sells products and systems for pressing recyclable materials, shredding paper and electronic data carriers.

The company maintains its headquarters in Frickingen near Lake Constance in the south of Germany, a second production site in Salem nearby and another in Reichenbach in the east of Germany. HSM provides its products on a global scale, with partners in more than 100 countries worldwide and subsidiaries in the UK, France, Spain, Poland, China and the US.

HSM offers a product range of vertical and horizontal baling presses, as well as semi and fully automatic baling presses. The company also manufactures

specialised solutions for emptying, perforating, crushing and compressing PET bottles.

HSM's environmental technologies products all have one goal, which is to deal with waste materials ecologically and economically. HSM baling presses, compress packaging waste up to 95% into compact & heavy bales. "We are the only manufacturer to offer the entire range of powerful and economic baling presses 'Made in Germany' – vertical, horizontal and fully automatic," added Christina Fallnich, Head of Marketing.

HSM has established itself as a one-stop service supplier with a dense consulting and service network across Europe and all over the world. The company provides a full solution for its customers, from consulting on selecting the right press for a customers' specific application, to individual projecting of system development and supporting the press operation. The team of experts at HSM not only understand the interplay of a wide variety of technologies, but they are forward thinking in their approach, with one main goal in

mind: process optimisation.

A notable range is HSM's vertical baling presses: the V-Press series, which are ideal for industry, manufacturing and trade processes due to their size, cost and performance features. A recent addition to this range is the HSM V-Press 860 TimeSave, which can decrease the volume of recyclable material by up to 95%. In addition, utilising its automatic hydraulic lift and tilt device, filling the HSM V-Press 860 TimeSave with a collection trolley takes only a few seconds, providing a fast, easy to use and efficient solution, with an added value of providing significant savings in time and staff.

In regards to recent developments, HSM has just celebrated its impressive 50th anniversary and has many plans in place to ensure the continuation of its success story into the future.

Christina expanded, "HSM has expanded its management team in January 2021, with two new managing directors, formerly long-standing divisional managers, who have therefore been supporting Mr Hermann Schwelling, who was the only managing director of HSM up until then. Mr Harald Schwelling, the son of the company founder and head of production for many yearstook over the management of the areas of technology (existing products), production, logistics and buildings. Jan-Peter Kruczynski, who has been with HSM for 15 years and who most recently headed environmental technology sales and product management, took over the management of sales and marketing, customer services and subsidiaries."

For more information, please see the details below:
T +49 7554 2100-0
www.hsm.eu



Software Company of the Month

PEMAC: The award-winning, industry leader in maintenance management performance



PEMAC
Best Maintenance Management Software Provider - Europe

and ISO 55000. The company has worked with some of the world's top brands including Leo Pharma, Aga, and Heineken, who have used PEMAC to run their businesses better, faster, and more profitably.

When companies use PEMAC Assets CMMS, they can continue to adapt core processes that have already been automated and streamlined. While designed to dramatically shrink processes such as work order approval, risk assessments and TPM methodologies, PEMAC Assets is also highly configurable. In essence, PEMAC eliminates the need for paper-based processes through customisable electronic forms and digital signature captures. These features allow PEMAC users to set up automated workflows and receive auto-generated notifications.

PEMAC Assets typically delivers an 80% maintenance



cost reduction for clients. The CMMS works to analyse historic and real-time maintenance data, providing the user with intelligent insights to deliver time and performance-based improvements, that in turn enable maximum asset availability.

Since its launch back in 2017, PEMAC Assets has grown considerably and is improved through regular software updates. Recent

enhancements include Google Map integration, the ability to create forms and contractor visits via a mobile app, inventory cycle counting, production planning, maintenance enhancements, downtime tracking, new interactive dashboards, reports and

much more. PEMAC Assets also integrates with a wide range of third-party ERP, financial, production (OEE), supply chain, spares management systems and smart machines, and contains an automated integration with SAP.

PEMAC is developing partnerships with companies across the UK, Europe and internationally, including MES, Plant Operations, Automation & ERP solutions vendors and resellers.

As a market leading provider of intelligent maintenance management and health and safety software, PEMAC's impressive list of customers is a key attraction to any current or potential partner. Committed to developing mutually productive, rewarding, and long-lasting partner relationships, PEMAC's partner programme delivers the right mix of enablement, support, and development resources for success.

The company is well respected and comes highly recommended as a market leader within the maintenance and asset management market space. PEMAC's commitment to excellence is what drives the company to continuous growth year on year. Industry Update highly recommends PEMAC and would encourage any business seeking to improve its maintenance management or any potential channel partner looking to augment its offering, to reach out to PEMAC. PEMAC is also an award winner having been recognised as the 'Best Maintenance Management Software Provider – Europe' for 2021 at the Corporate Vision Global Business Awards.

For more information, see below:
T +353 1 466 3888
sales@pemac.com
www.pemac.com



Fridgenius Solenoid Valve Operating Magnet: A positive solution for the valve industry!

Solenoid valves are electromechanically operated valves used to control the rate of flow in fluid or air powered systems. With automatic operation, solenoid valves are incredibly useful to engineers as they remove the need to manually operate valves. They are incredibly versatile, however, if the system in which the valve is operating loses power, it becomes useless and cannot continue to function. Fridgenius has worked hard in creating an ingenious product to solve this problem.

Established in 1995 by its Managing Director David Slydel, Fridgenius supplies National and International distributors with Solenoid Valve Operating Magnets suitable for the use in refrigeration, air-conditioning, water, oil and gas installations.

As a family-owned company, David's son Chris Slydel runs the company in the beautiful market town of Wimborne, Dorset which lies on the River Stour. Its dedication to provide excellent products and services has proven vital in its success over the years. Building on its already sterling reputation, the past 25 years has proven that Fridgenius consistently delivers a quality and reliable service to its ever-growing client base.

Fridgenius designed the Solenoid Valve Operating Magnet to solve the problem of how to operate solenoid valves when a system is not under power. Essentially the device is designed to convert electrically operated solenoid valves into hand-operated valves in seconds.

This function allows the magnet to operate valves in a plant or system which has yet to be installed or has been decommissioned. In cases of emergency, such as a failure of a solenoid valve coil, it can be used to keep a system operating while a replacement coil is found.

Each Solenoid Valve Operating Magnet is fully customisable. Companies can choose to add their own branded logo onto the magnet, this is useful for companies who are looking to use the magnet within their own workforce and is great for retail sales. The magnet is the same shape and size of a large cotton reel and when placed onto a solenoid valve, it causes the armature to open or close. Available in an array of colours to match corporate branding, there is also three sizes of magnets to choose from. Whether the need for a 10mm, 15mm or 18mm magnet is required, Fridgenius customise your magnet to fit all makes of solenoid valves.

As well as saving service engineers time when on the job, another of its many benefits is the magnet allows service engineers to operate the valves manually negating the need to wire up a system. As well as eliminating the worry around



selecting the correct voltage, the Solenoid Valve Operating Magnet offers vital assistance through the installation, recovery of refrigerants, and the commissioning and decommissioning of plant and machinery stages. In a matter of seconds, the magnet converts an electrically operated solenoid valve to a manual.

The Solenoid Valve Operating Magnet has received an abundance of rave reviews over the years. We caught up with Chris who explained one example where Fridgenius' device has helped a customer deal with an emergency. Chris expanded that, "At a show a few years ago, a refrigeration engineer recounted that while watching a rugby match on TV, he received a call from a milk processing plant customer. His plant was warming up and he needed help. He found that the solenoid coil had burned out and by using the Fridgenius Solenoid Valve Operating Magnet, he was able to run it permanently, setting it to cut out under pressure. The use of this ultimately saved 14,000 litres of milk, which resulted in one very happy customer, and the

engineer returned home in time for the end of the rugby match!"

Imagine, you are in the middle of a job, you're on a tight schedule to finish and the power goes down. The solenoid valve installed has now stopped working due to the fact that it relies on an electrical input to function. Don't get caught out. React now before it's too late. Fridgenius has created this ingenious device to enable your working day to run smoothly, with no room for error. Available today to keep you, your workforce and your customers happy. Don't let your service suffer. If you need to operate a solenoid valve

manually, you need a Fridgenius Solenoid Valve Operating Magnet!

If you would like to find out more information and ask any questions on how the Fridgenius Solenoid Valve Operating Magnet works, please visit the company website or see the information on how to get in touch with Fridgenius directly using the contact details below.

Contact
T +44 (0)2380 323745
enquiries@fridgenius.co.uk
www.fridgenius.co.uk



Say goodbye to leaky wastes with the Epson Basin Mate!

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

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

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

Epson has been manufacturing high quality sanitaryware spares since 1961 and is committed to supplying market leading

products to the plumbing industry. As a UK manufacturer it has complete control from design through to production and is always focused on offering the best customer service to its customers. The Epson range of wastes is comprehensive and offers the best choice when it comes to quality and style.

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

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

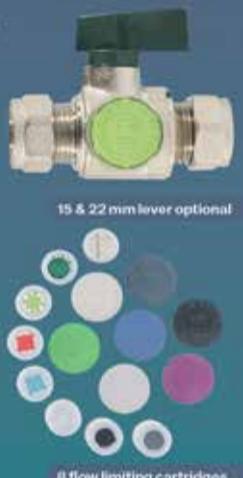


Automatic flow limiting valves

Servicing Valve Model AFL

Accepts automatic flow limiting cartridge, inserted after installation

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



"Equi-Flow"

Shower Flow Limiter Model AFLP

Ensures even distribution of water to showers in multiple occupancy buildings

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



Arrow Valves

Tel: 01442 823 123

Email: marketing@arrowvalves.co.uk
www.arrowvalves.co.uk

DMN-WESTINGHOUSE sets the new standard with MZC-II rotary valve for dry bulk industry

DMN-WESTINGHOUSE introduces a new rotary valve for the food processing dry bulk industry that is intended for dosing products and ingredients. With the new MZC-II rotary valve, the producer of rotary valves and diverter valves is setting a new standard in terms of functionality, hygiene, safety and maintenance.

DMN-WESTINGHOUSE introduced the current MZC rotary valve 25 years ago, which has played an important role in increasing food safety in production processes of companies in the food and dairy segment, among others. With the introduction of this new rotary valve, which can be opened on two sides and thus creates optimal conditions for hygiene, safety, functionality and maintenance, DMN-WESTINGHOUSE continues a tradition of products that are characterised by high-quality engineering, durability and continuity.

Due to increasingly strict requirements in the field of hygiene and efficiency,



DMN-WESTINGHOUSE has decided to significantly improve the MZC rotary valve. That is why, at the beginning of 2020, a start was made on developing the new standard and further developing the current rotary valve with the aim of achieving a version that is capable of being the benchmark for the long-term, in particular for the food processing sector. DMN-WESTINGHOUSE gave the first product demo of the MZC-II rotary valve during the DMN-WESTINGHOUSE Global Salesforce Event in May of this year.

T +44 (0)1249 818400
dmn.uk@dmnwestinghouse.com
www.dmnwestinghouse.com

Isolating gate valves for Wigan wastewater treatment works



When a critical water treatment works in Wigan required an overhaul, T-T Flow was entrusted to supply two large diameter gate valves to help ensure the continued efficient supply of potable water in the northwest of England.

The problem

Wigan Wastewater Treatment Works is an important facility operated by United Utilities, who are responsible for the delivery of potable water and the capture and treatment of wastewater throughout the region. In order to ensure the continued efficient delivery and treatment of water, there was a requirement for two new large diameter gate valves to meet the required specification and facilitate safe, easy and reliable operation.

The solution

T-T Flow, the specialist valve division of T-T Pumps, was engaged to supply a pair of DN500 MSGV isolating wedge gate valves measuring 500mm in diameter. These are rated to withstand 16 Bar pressure and come with customised operating equipment utilising intelligent actuation. As the valves would be installed beneath steel grating, each valve was supplied with an extension spindle bringing the operating element (electric actuator) to an ergonomic position for safe and easy operation.

T-T was selected due to its ability to project manage the whole supply, offering an efficient single point of contact for the client. T-T Flow holds extensive stocks of Aquaflow metal seated wedge gate valves, which for this size feature superior weld deposit seating faces. Furthermore, T-T's in-house fully equipped workshops permitted the fabrication of site-specific extension spindles, and the mechanical and electrical functional testing of electric actuators.

To discuss your specific valve requirements, speak to a member of the technical team on +44 (0)1630 647200 or email: response@ttpumps.com

Why use a cleaner hydraulic oil?

As modern machines have evolved, so have lubrication systems and, as the oil film between system components is only a few microns thick – invisible to the human eye – it is essential to control and monitor contamination effectively, explains CP Lubricants.



Today, increasing demand is put upon lubricants in terms of operating temperatures, loads, efficiencies and performance. Studies have shown that up to 80% of oil related machine failures are caused by contaminated oil, so it is a fact that cleaner oil leads to longer component life and increased operational reliability. To maximise reliability, CP Lubricants suggests companies consider condition monitoring by scheduled fluid analysis.

CP Lubricants' HydroMaster Ultra range are certified to ISO Clean code 16/14/11 # at the point of production and the company can continue that code to the sump of your machines by the use of its dedicated decant system, where specialist transfer equipment is used. The industry standard for the blending of hydraulic oil is 19/17/14, but the cleaner your oil, the lower your operating costs.

For more information on CP Lubricants' Ultra Range of Hydraulic oils and Certified Decant Service, call: +44 (0)2380 337800, email: sales@cplubricants.co.uk or visit: www.cplubricants.co.uk

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Quick release air connections

The ultimate innovative application for a broad range of industries



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FUTURE-PROOF VALUE SINCE 1950

WP launches first 100% recyclable valve for Dispensing Closures



Sustainability is an integral part of Weener Plastics' (WP) strategy. WP also recognises that convenience and quality are fundamental and should not be compromised. Respecting sustainability as well as functionality, WP's Innovation & Development team has developed an unprecedented solution: the world's first 100% recyclable valve for Dispensing Closures.

100% recyclable
WP's Innovation & Development team has created the perfect solution: a 100% recyclable valve that offers fully controlled, clean dispensing. The valve is made of a specially developed material. This enables full recycling with polyolefin waste streams – regardless of the bottle material.

Uncompromised functionality
This recyclable valve offers a fully controlled and clean dispense of any quantity the consumer may require. The dosing behaviour can also be adjusted, depending on preference. Valve dimensions are exactly the same as those of WP's familiar silicone valve. The valve is suitable for WP's standard closures as well as for customised designs.

Widely applicable
WP's new valve is highly versatile and compatible with a wide range of applications such as food, home care and personal care. When used to dispense oily or fatty formulations, this recyclable valve also performs better than any other solution.

norwich@wppg.com
www.wppg.com

Robatech Gluing Technology on show at PPMA

It's good to be back! The PPMA Show took place in Birmingham from 28th to 30th September 2021. At this year's PPMA show the Robatech team presented a new dimension in adhesive application: high-performing, energy-saving and robot-assisted.



This was the first opportunity for visitors to see Robatech's smart, new Vision Melter (pictured above). In combination with the new Performa Heated Hose and the SpeedStar Compact Application Head, demanding packaging can be glued quickly, efficiently and with high precision.

Based in Basildon, Essex, Robatech Gluing Technology is the exclusive distributor of genuine Robatech equipment, spare parts and service to customers in UK and Ireland.

With high quality hot-melt and cold gluing systems for packaging, graphics, automotive, building, woodworking, pharmaceutical and many other industries, the local Robatech team was on hand at the show to discuss your gluing requirements and challenges.

Contact
T +44 (0)1268 490035
info@robatechGT.com
www.robatech.com

Simbodies achieves 35% weight saving using ARPLANK

The partnership that JSP International (www.JSP.com) and Polyformes (www.polyformes.co.uk) formed earlier this year continues to grow. Polyformes has recently developed a packaging solution for Simbodies Limited, a global leader in medical simulation equipment, using ARPLANK.

ARPLANK was selected for this application due to its stability and absorption behaviour, giving good protection to the product when it is held in its bespoke manufactured bag. The protective qualities of the foam, captured by the products bag, has enabled a massive 35% reduction in the packaging weight with an increase in performance. Ideal for shipping the product abroad



contributing to cost efficiency, space optimisation and reduced transport emissions.

Adrian Green, Polyformes Head of Marketing and Sales,

commented, "We are pleased to work with ARPLANK, it can be used on all our existing machinery and has not required any additional investment. Our customers have been impressed with the better protection it offers and that we have been able to reduce waste by 5-10%."

Jiri Slezak, ARPLANK Sales Manager, commented, "We are delighted to support Polyformes to provide customers with a recycled foam material. ARPLANK has 20% less concavity when compared to other materials which allows much higher precision and less scrap."

For more information about ARPLANK, please visit: www.ARPLANK.eu or email: Jiri.Slezak@jsp.com

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direction of impact



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MTM Products: The industrial label and nameplate specialists

MTM Products is a well-established manufacturer and supplier of industrial labels, nameplates, graphic overlays, vinyl cut decals, bespoke safety signage and engraved products to OEMs in the UK and EU.

MTM Products was formed in 1976 and has been under the current private ownership since 1986. Establishing itself as one of the UK's leading manufacturers of labels and nameplates, MTM Products is well equipped to assist its customers, utilising its expertise, experience and world class

facilities. Ian Greenaway, Managing Director said, "With over 40-years' experience, we share our expertise to provide cost-effective, technically sound solutions to meet customers' requirements."

MTM Products is one of a small number of UL Authorised Label suppliers in the UK and is able to offer solutions compliant with UL969 standard.

"MTM Products offer high quality and excellent customer service at 'value for money' prices. We differentiate from

the competition on customer service and technical expertise which enables us to be a 'solutions provider'." Ian continued, "We have a broad range of modern manufacturing equipment for both small and large quantities of labels and nameplates."

MTM Products works in partnership with its customers, sharing its wealth of over 40 years' of knowledge and experience, to ensure the optimum labelling solution. MTM Products mainly supply original equipment manufacturers, in many sectors including: automotive, rail, electrical,



construction, medical and life safety. The company's customers range in size, from large multi-national to small start-up companies and MTM Products ensures that it provides the highest levels of customer service, for all of its customers.

Ian stated, "All our products are bespoke to a specific customer and designed for long service in the environment in which they will be used. We have particular expertise in supplying graphical products to emergency lighting OEMs."



MTM Products boasts the expertise and equipment to provide a turnkey service, from initial design through to volume production, encompassing NDAs, PPAP or ISIR documentation and Certificates of Conformity.

One of the most notable dedicated service that MTM Products provides, is not only its commitment to its customers but also to its team. Dedicated to continuously investing in both people and equipment, has helped to position MTM Products as a leader for the manufacture of custom labels and nameplates. Encompassing a culture of continuous improvement, MTM Products places both people and its products, at the heart of its production. This in turn, has enabled the company to offer high quality, reliable lead times and great customer service, at competitive prices.

Ian said, "We are continuously investing in new equipment and our people, to ensure that we remain an industry leader."



With the effects of the COVID-19 pandemic, many industries and companies, faced their own challenges in response to national lockdowns, furlough scheme and reduction in sales. Maintaining its production throughout the COVID-19 pandemic, MTM Products was determined to use this time to evaluate and invest in itself, to further its growth and dominating industry presence.

Ian explained that, "COVID-19 negatively impacted many companies and the last year has been challenging. In the early days of the pandemic, we were able to supply labelling to our medical equipment customers quickly for the Nightingale Hospitals. MTM Products have remained open for business throughout the pandemic and have continued to invest in the business so that we are in a strong position to take advantage as the economy grows. We have a strong balance sheet and we are ready for growth, which we are already beginning to see."

In terms of the company's plans, MTM Products will continue to invest in its team and products, striving to continue to innovate and maintain its position as an industry leader. Ian stated, "MTM Products are planning for steady growth and see many opportunities to help more original equipment companies in the UK and internationally with their industrial graphics requirements."

For any further information, please see the details below.

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www.mtmproducts.co.uk

bANG guardz®

ANOTHER BUCKBOOTZ DESIGN BREAKTHROUGH!

THEY SAID IT COULDN'T BE DONE!

The dealer (elastic sided, pull on) boot style was the signature product when the Buckbootz safety footwear range was launched in 1998. Since that time we have introduced many additional features to the dealer boot concept but up until now and for obvious reasons, the one dealer boot design feature which eluded safety footwear designers had been the provision of ankle support and protection.

After two years of constant design development and wear testing Buckbootz announces a major breakthrough in dealer boot design with the pre spring launch of a sensational new dealer boot : bANG guardz®.

Like many good ideas the solution to providing ankle protection on a dealer style is a simple one: build the stretch area into the top part of the front of the boot to enable the ankle protection to be built into the sides. However, that is only the beginning of the story. The real test is in perfecting the boot upper design and components combination so that all the wearer convenience of a normal dealer boot design is not compromised. Getting that right has brought an impressive bonus: you would not believe how comfortable the bANG guardz® dealer boot style is, nor its lace style stable mate. The EN/UKCA standard ankle protection (standard code: AN) built into these styles provides the extra benefit of unsurpassed snug fit, comfort and support.

Both styles also come with Buckbootz Achilles Clasp heel support and S3 HRO AN SRC certification and both are WATERPROOF - even the elastic on the dealer style is waterproof!

bANG guardz® joins a long list of Buckbootz protected designs which have broken with convention and brought completely new dimensions to safety footwear performance, function and comfort.

Your Buckbootz Regional Sales Manager has bANG guardz® samples for you to preview and forward order. Don't miss the opportunity to be amongst the first merchants to offer this safety boot revolution to your customers.

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WE ARE THE WORK WE DO

HRH Princess Anne presents Vision Engineering with Queen's Award for Enterprise

Vision Engineering Limited (Woking, UK) welcomed HRH, The Princess Royal to its Global HQ & Manufacturing facility in Send, Surrey, to present them with The Queen's Award for Enterprise: Innovation for its Lynx EVO ergonomic stereo microscope, used for quality control in many manufacturing sites around the world.

On arrival at the modern manufacturing site, The Princess Royal was met by Mr Michael Hayman, a Deputy Lieutenant of Surrey, who presented Mark Curtis, Managing Director of Vision Engineering.

HRH toured the facility meeting the 120 Send based staff, seeing a demonstration of the Lynx EVO stereo microscope and receiving a brief about the patented design. HRH also used Vision Engineering's recently patented and disruptive technology stereo digital viewer, DRV-Z1, the first 3D stereo digital viewer worldwide not to need glasses or a headset.

The Princess Royal then heard about Vision Engineering's 63 year history in Send and successful 90% exporting record, toured the extensive machine shop and high tech product assembly area, before presenting the Queen's Award to Mr Curtis.



Mr Curtis invited The Princess Royal to plant a tree next to their wildlife pond, in support of The Queen's Green Canopy Project, which honours Her Majesty's 70 years of service to the Nation.

Mr Curtis commented, "We are delighted to receive this, our third Queen's Award from HRH, The Princess Royal for the technology and global commercial success Lynx EVO ergonomic stereo microscope. This award is recognition of the hard work and dedication of our UK and overseas based staff and of our continuing



commitment to innovative instrument design and manufacture here in Surrey."

Vision Engineering Ltd is a multinational designer and manufacturer of innovative, patented ergonomic stereo optical and digital instruments; used for inspection, manipulation, measurement and analysis of manufactured parts, by the world's leading manufacturers and their suppliers.

Vision Engineering's contract manufacturing division



offers a comprehensive contract manufacturing service. Staffed by a team of experienced designers and engineers, customers can access our latest technology and benefit from bespoke design and commercialisation packages.

Founded in 1958 and wholly British owned, Vision Engineering's Global HQ, design and manufacturing facilities are based in state-of-the-art modern premises in Woking, Surrey, UK, with extensive manufacturing facilities in the UK and US. Regional sales and technical support offices are located throughout North America, Europe and Asia, supported by a fully trained network of distributors.

Lynx EVO was designed to increase productivity through superior ergonomics. Suitable for a range of applications – inspection, production, reworking, or anything else requiring magnification – 3D depth perception and bright, high resolution, high contrast images lets the user work comfortably and with greater concentration. Magnifications from 2.7x to 240x make it ideal for a wide range of applications.

www.visioneng.com

Engraving Update

Technology boosts control panel business for specialist engraving company

Pioneering Engraving Specialist, Brunel Engraving, has reported a significant growth in demand from the control panel manufacturing industry following its investment in specialist state of the art engraving equipment.

The company has seen a substantial increase in the number of requests for bespoke metal and plastic components since it quadrupled its laser engraving and profiling capacity with the installation of three new machines at its production facility near Bristol last year.

Two laser engraving machines and a dedicated fibre laser profiling machine which can cut metals such as stainless steel, brass and aluminium, have enabled Brunel to produce profiles, shaped labels and control panels. In May 2021 the company also added a further laser cutting machine which has the capability to cut plastics and acrylics up to 9mm thick.

In addition to the laser engraving and profiling equipment, Brunel has invested in a new state of the art flatbed printer which enables the engraving specialist to manufacture face or reverse printed control panels and labels.

"We are delighted that our further investment in high tech engraving equipment has really paid off and proved an enormous boost for our business with control panel manufacturers," said Martyn Wright, managing director and founder of Brunel



Engraving. "The technology has enabled us to extend our production capability and to answer the increasing demand for bespoke shape cutting and profiling from new and existing customers within the industry."

Established over 30 years ago, Brunel Engraving leads the way in technical innovation. The company has ISO9001 accreditation and its highly skilled team of professional engravers is trained to the highest standards in the UK.

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Machinery, materials and sustainability

Interplas, a trade show dedicated to the plastics industry, returned to Birmingham's NEC for three days in September and brought together the plastics industry for the first time in four years.

More than 40 presentations covered the main themes of 'Advancing UK Plastics' and 'Sustainability' at the event, which took place from 28-30 September. This year the triennial show saw some 300+ exhibitors demonstrate new technologies, machines and materials.

The CPD accredited conference programme was delivered across two stages: The Advancing UK Plastics

Stage hosted presentations from Jaguar LandRover, Lloyds Bank, Microban, NHS and the BPF, while Tesco, Innovate UK, WRAP, and PwC were among the speakers presenting on the Sustainability Stage.

In addition to the conference programme, features such as the Knowledge Pavilion included trade bodies, consultants and service providers, which gave attendees advice on research and development, skills and education, regulation and materials selection.

The new PlastikCity Pavilion presented 20 first-time exhibitors to the audience, and Women in Plastics

returned with a networking morning and conference session.

Interplas returns to Birmingham's NEC in two years from 26-28 September 2023. This is our pick of the best exhibitors from this year's show, listed here in alphabetical order: forteq Group, Geiger Handling UK, Global Precision Ltd, HSV TMP, Pinweld, Rutland Plastics, TH Plastics Ltd & WSM Plastics. Further details can be found on this page and the next.

Contact
www.interplasuk.com



forteq Group

forteq Group is a global injection moulder of technical components and assemblies to the automotive and industrial product sectors. Customers choose forteq to turn their ideas into tangible solutions and benefit from forteq expertise with engineering plastics. forteq UK exhibited at Interplas recently and has several new opportunities in progress.

At its Huddersfield facility, fully automatic manufacturing cells with 6 axis robots and vision systems are used for technical over-moulded gear assemblies to give cost effective solutions. They produce high volume components for: wiper systems, door latch, window regulators, engine mount, air suspension, geared actuators, power steering gears, timing tensioner, filtration, seating systems, HVAC, valves, 2k housings, 2k levers and fluid delivery applications.

The advantage of choosing forteq UK is that it offers the complete package from concept to solution, thus enabling production of consistent quality and tight tolerance parts in a lean manufacturing environment. forteq has in-house mouldflow and FEA capability, a vastly experienced engineering team, in-house and subcontract tooling options and has excellent quality



and production teams that work 24/7.

Additional technical processes comprise twin-shot moulding, ultrasonic welding, heat staking and leak testing. forteq has a technical knowledge bank of latest moulding and joining technologies within group globally, where sound advice can be offered to assist with development stages of new projects.

forteq UK is IATF 16949 – ISO 9001 and ISO 14001 accredited and a proud member of Investors in People.

Please contact Steve Roberts for any new enquiries at: steve.roberts@forteq-group.com

Rutland Plastics

Rutland Plastics first started out injection moulding in back in 1956. The company has grown significantly over the years, however, it is still a family business and still based in Oakham in Rutland. Rutland Plastics offers a full range of plastic injection moulding services and has over 30 moulding machines on site ranging from 50t to 1,700t and, through this extensive range, has the ability to produce mouldings from 1g to 48kg in weight, up to 1.5m in size and works with customers from almost all industry sectors from medical to consumer, construction to automotive and utilities.

Rutland Plastics always works in partnership with its customers and offers advice and expert knowledge at every stage from design for manufacturing, tooling



and production. Rutland Plastics also has the expertise, flexibility and facilities to add the finishing touches required for injection moulding projects through a suite of additional services such as machining, assembly and warehousing.

Rutland Plastics was awarded Investors in People back in 1995 and since then has added Quality

Management ISO9001, Medical Devices Quality Management ISO13485 and Environmental Management ISO14001 to its suite of accreditations alongside being proud members of the BPF, GTMA and Make UK.

Contact
T 01572 723476
enquiries@rutlandplastics.co.uk
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Complete ancillary solutions



and increasing efficiencies are a hot topic with our customers; this is an integral feature of our system design.

Our forward-thinking and dynamic approach to the UK Plastics industry has allowed us to secure various high-profile partnerships in 2021. This success has led to organic growth at TH Plastics, allowing us to better service our

ever growing customer base.

Have you got a production related headache we can help with? Are you looking to upgrade to the latest developments in ancillary equipment?

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We take your idea from concept through to creation

WSM Plastics is a UK-based custom plastic injection moulder & mould toolmaker. We are highly experienced across the full production lifecycle from product design, prototyping, toolmaking, injection moulding and post moulding services.

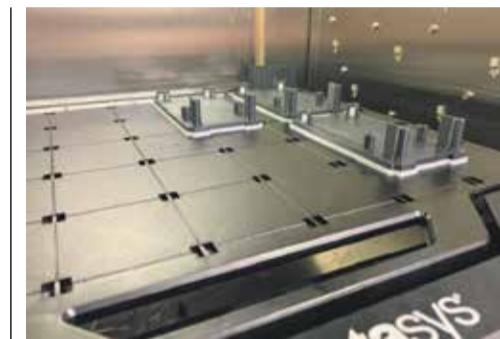
Customer focus is key for us

Each project is unique to us and with our flexible approach, you receive expert guidance from us in every aspect of your project. From high volume to low volume plastic parts production, we support you throughout your entire project.

Our experience

WSM Plastics has over 25 years' experience in mould tool making and injection moulding. We are specialising in technical polymers for replacement metal components using such materials as VO rated flame and toxicity material enabling us to supply into industries such as aerospace, medical, marine, renewable energy, transport and the water industry.

Our global supply network is allowing us to supply finished goods around the world from the USA, Asia, EU



& UK. WSM Plastics' in-house tool designers, component designers and project engineers manage all projects from our UK headquarters. With our tool room and mould shop in the same building in the UK, we are able to validate and commission tooling projects within days of the tools being completed to our high-quality standards.

T +44 (0)1903 875888
www.wsmplastics.co.uk

Pinweld

Using less power than a phone charger, yet capable of joining plastic mouldings with millimetre accuracy and a high degree of strength, Pinweld is fundamentally changing how plastic components are designed, manufactured and repaired. "Designers, repairers, analysts and engineers alike have commented on the benefits that our technologies could, and now will, bring to their work. An ability to reduce costs, component count, plus seal and join materials in ways they couldn't do yesterday is potentially ground-breaking," said Keven Chappell, Technical Director.

Pete Eden, a noted consultant in the UK Automotive Body Repair Industry, said, "The Pinweld technology features the accuracy of a laser weld with the flexibility



and abilities of a TIG weld, but without any of the limitations. It will change how my industry approaches plastics used in vehicles."

"This type of response has been experienced by the team since we started seeking development

partners. Most are impressed with the appearance of the welds and when they learn that it doesn't require any filament or specialist support equipment, people start to realise what it could mean to their particular set of issues," said Steve Perris, Business Development Director.

The potential of the technology was also recognised last year when Pinweld and the project partners including The Welding Institute and noted Universities received considerable funding from the UK Government's Innovate UK Smart grant scheme to develop what has been termed a potentially disruptive UK export.

stephen.perris@pinweld.com
www.pinweld.com

Hybrid solutions

Integrating two technologies is the key to success. HSV TMP has the knowledge and expertise to achieve successful integration of hard plastic sections and particle foams, according to desired specifications and a production capacity to assist you. Combining functions is even easier, and in-line assembly limits the number of components to a minimum. Discover your advantages!

Our vision

Our combined R&D division looks at the big picture and ensures that you get the solution you need with perfectly integrated parts. According to our vision, the main focus is not the tolerances of the individual sections, but rather how those sections can be combined into a functional composite. That key question is resolved in close consultation. That's what makes our hybrid solution so powerful

About HSV TMP

For decades HSV TMP has been the top specialist in the development and manufacture of moulded plastic housings. Our customers come to us whenever they



need plastic housings. Our vast experience, know-how and network of specialists ensure rapid development of high-quality plastic moulded parts that perfectly meet our customers' requirements.

Get inspired by visiting: www.hsv-tmp.com and discover the advantages of our moulded plastics or contact us on: +31 (0) 318 - 648 991 or email: info-tmp@hsv.nl

Interplas Review – Top Exhibitors



As a leading UK injection moulding equipment supplier, Geiger Handling can provide your business with turn-key solutions, minimising your downtime and maximising your output. Our experience and extensive product knowledge will make sure you always get the best equipment for your applications.

From Injection moulding machines, robotics, end of arm tooling, granulators, polymer dryers, material feeding, colour dosers, conveyors, mould temperature control and chillers, our comprehensive product range will

improve your operations – whatever industry you serve.

With over 20+ years within the industry, Geiger Handling act as the UK sales office to some of the highest regarded manufacturers worldwide.

As well as supplying the products we do, we also have a team of engineers who take on bespoke projects that aren't on the shelf. We can work with a customer to help identify an issue and to create a solution. Whatever your sector in the plastics industry, we can design, supply, install and support

your manufacturing machinery and equipment, ensuring your moulding production is as efficient as possible.

With continuous growth, year on year, we have expanded our workforce once again to ensure the quality in our service is matched by the products we supply.

We urge all customers with any enquiries to please get in touch and experience our products and service first-hand.

T 01782 630555
sales@geigerhandling.co.uk
<https://geigerhandling.co.uk/>

Global Precision Ltd

Interplas 21 proved to be a great platform for Global Precision Ltd to promote their services and open discussions with new prospects and existing customers. In a world where business is becoming somewhat faceless through online research and communication, Global Precision recognise the importance of personal services and customer relationships.

Global Precision Ltd are a contract manufacturer of industrial and consumer products, supporting companies from all market sectors including automotive and medical, with extensive expertise in design for manufacture, tooling, moulding and assembly. Global Precision work with entrepreneurs and start-ups, design consultancies and SMEs, First tier suppliers and OEMs offering both an entire turnkey manufacturing solution and a bolt on/bolt off resource and with that it's important to understand customer's needs, identify a suitable solution, communicate the deliverables and progress and ensure that expectations are met or exceeded.

Global's strength is in technical experience of tool



design, processing and manufacturing, with the company split between the Headquarters, moulding facility and assembly in the UK and a tooling and assembly hub in China, through which a much broader range of manufacturing processes are supported. With a diverse range of solutions and flexibility with production, Global are able to offer a tailored package to suit almost every customer's requirement.

Global Precision is truly a global company but with its roots firmly established in Keighley, with growth creating jobs locally and also drawing in experience and expertise from further afield.

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Sustainable recycling solutions

Established in 2008, in just 13 years Presona UK has grown to be one of the world's leading manufacturers of baling equipment. Founded with a vision to make recycling easier and more efficient for its customers, Presona has morphed into an establishment to which its employees and customers still remain at the core of its ethos.

With its main head office based in Tomelilla, Sweden known as Presona AB, Presona UK is able to draw upon its resources and synergies from the global presence Presona has established. From customer service to technical expertise, Presona has been essential in supporting and raising the consistent standard of efficiency and professionalism within the recycling industry. One of the most important areas in which Presona's experience helps to deliver innovative products and services designed to save customers time and money is through the development of its balers, conveyors and waste extraction systems, all of which are designed to meet these objectives. Furthermore, Presona equally works to reduce stress within the recycling environment by identifying and resolving pinch points and providing operator training, comprehensive preventative maintenance programmes and a 24/7 support whenever needed.

Presona work within many industries, whether you're a recycler, logistics company, manufacturer or retailer, Presona has a goal to improve all companies recycling performance. Recruiting many highly skilled staff with advanced technological and industry knowledge has built the backbone of which enables Presona to develop excellent products and services. Its team of compassionate, friendly, and professional people are on hand to design, install and maintain all Presona products and services ensuring maximum efficiency and efficacy with minimum stress.

As a solution-based company, Presona only sell a product or service to a customer if it can make a positive benefit, thus being to improve time management, profits and smooth out operations. Presona only produce the highest quality recycling process equipment that are designed with the latest and most effective technology and methods available.



Presona produce its own range of balers that are some of the most efficient balers on the market with some savings of up to 60% on conventional shear balers. "We supply our own range of baling equipment capable of producing anything from 40 tonnes of pressure right up to 270 tonnes. Our balers will process a range of recycling materials like paper, cardboard, plastic and some metals, into dense bales for easier, more cost-effective shipping.



Other benefits include time, team and money, meaning that our balers and equipment will give more time to our customers and time to focus on other areas of their business. Our equipment will make their team more effective at their job due to less manual intervention from staff on our fully automatic equipment. With the mixture of saving customers time and giving their team other areas to work on, this will in turn save them money on expenses within their business," stated Richard Portas, Customer Accounts and Marketing Manager.

Presona offer a range of balers that can be used to compact materials such as municipal and solid waste, packaging materials, textiles, carpets, metals, RDF and SRF and more. There is also a series of fully automatic LP Range balers for larger, heavy-duty applications throughputs. Its latest invention the MP 270 MH 'Mega', is a baler designed to reduce multi baler sites down to the need for just one baler. Its capable of producing 270 tonnes of pressure giving exceptionally dense bales of cardboard, plastic and paper, and up to 45 tonnes per hour.

Chain belt conveyors are an integral part of recycling and waste management plants. Presona has a rich history of designing and supplying bespoke conveyor systems to support its LP series balers. The PreVaya is Presona's latest conveyor system which is better suited to rugged environments and easier to maintain and upgrade than any others on the market. The PreVaya can be used with any make of baler and can be tailored to



individual requirements, material and footprints. Designed to solve recycling/waste problems by including high side walls and a system to accommodate exceptional tonnages, its heavy-duty - galvanised inside and out and service-friendly. "The PreVaya is modular construction that saves on downtime as there is no need for specialist tools like cutters and welders, it's a simple case of unbolting, replacing, check and leave," said Richard.



In 2020, Presona helped ethical retailer Co-op further reduce its carbon footprint with the installation of two new balers and Presona built conveyors at the firms Avonmouth and Andover Distribution Centres. The Co-op group used the balers to compact the recovered store materials for recycling and reuse into new films and boxes. The production of materials compacted through the balers supported the Co-op in reducing the number of lorry movements in moving materials to recycling centres and mills around the UK. The partnership was a glowing success to which Co-op stated its wishes to continue working with Presona more in the future.



In further support to the recycling industry, Presona can design, build and install custom, cost effective materials recycling sorting plants. A typical plant can be designed for two or more fractions with an annual material flow of between 30,000 to 300,000 tonnes. From start to finish, Presona take complete responsibility for the contract, project planning, design, erection, commissioning and ongoing maintenance of the plant.

Some production processes can result in lots of small material offcuts where a manual collection system can be inefficient. Presona create bespoke waste extraction systems to combat this issue. Its designers will create a system with the optimum air and material flow capacity via the most effective number of suction points whilst minimising energy consumption. These can be used as a standalone plant or can be seamlessly integrated with Presona balers and conveyors for an unparalleled system.

Presona's products and services provide critical benefits to its customers thanks to its carefully thought-out innovations and extensive technical know-how. Its products and services allow customers to be more productive with their time and expenses that would once have been lost through unnecessary and inefficient recycling processes. Delivering a structured, fair and consistent service, Presona's products offer a solution that has been tried and tested for many years. Taking ownership to constantly improve, allowing no room for complacency, Presona is always pushing the boundaries of innovation to make further solutions for better recycling processes.

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