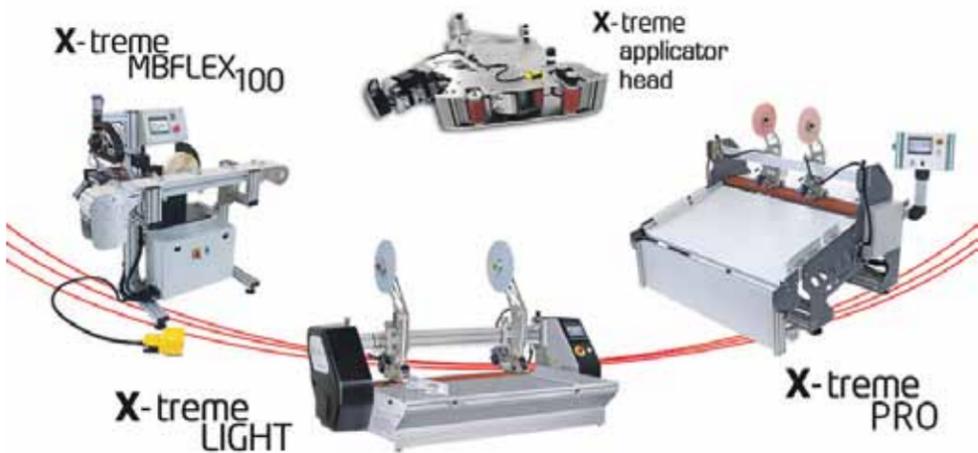


Best Practice



Issue 633 | December Edition | 0121 711 2761 | www.bestpracticeuk.co.uk

Leaders in tape application automation



Best Practice are delighted to announce that Enimac have been chosen as this issue's Tape Application Company of the Year.

Enimac is an Italian developer and manufacturer of tape solutions, boasting a strong client base that stretches over 20 countries. The company divides its business into three areas: standard tape application machines, custom tape application systems and tape applicator integration projects. The company's mission is clear: "Our goal is to make our clients more productive by eliminating the production bottleneck

associated with tape application. We intend to become an international reference point in the industry by providing customers high quality, functional design and production of adhesive application machines." Excited clients are saying such things as:

"We have saved so much money in labor and time going with this machine. What used to take us 6 guys 7 days by hand, now takes 2 guys 2 days. This machine is very user friendly."

"We are able to process a very matte and very black card. I did not think this would

work as none of the electronic eyes in our printing presses "see" this material, but it works just great on your machine."

The lack of compressed air means the machines have very low maintenance costs and are fully mobile. All production parameters are quickly and easily entered into the touchscreen. Enimac's patented paste and cut system guarantees speed and accuracy, as well as the ability to cut and apply a variety of adhesive tapes. The tape applicators are individually programmable and easily read and apply tape to white, coloured, black, transparent and die-cut substrates of many materials including paper, cardboard, plastic, metal, and more.

Enimac's X-treme PRO is particularly popular, renowned for its ability to accommodate even the largest formats of offset printing, plus numerous other formats of digital printing. Tape posters, folders, business cards, FSDU's and much more.

In the UK, Ireland and Poland, you can get Enimac products through their official distributor Newtown Packaging (www.tapemachines.co.uk). For other international inquiries, contact Enimac directly at www.enimac.it or info@enimac.it



Spanner RE²
see them on page..... 03



Newland Magnetics
see them on page... 10

No Need for Programming Through Proprietary Robot Languages Any Longer



easily program the work-cell and robot with minimal retraining. This makes integrating the robot systems into an Allen-Bradley standardized production line much easier.

In many situations the high speed of the Yaskawa robot enables greater throughput compared to

competitive brands. The CSI i-Pal can be delivered with two different Yaskawa robot models: the MPL80 II and the MPL100 II. These models differ in reach, payload, range of motion and speed.

For every situation, CSI will select the best application together with the customer. The configurability of the i-Pal platform is such that a wide range of applications can be generated, produced and installed in an extremely efficient way. This allows CSI to be very competitive on pricing towards the market.

Contact
T +44 1953 452731
info@csiuk.co.uk
www.csiportal.com

CSI is introducing the third robot brand on its palletising platform 'i-Pal'. It is now also possible to order the i-Pal with a Yaskawa robot. The cooperation is very logical: Yaskawa is one of the largest producers of robots worldwide and CSI is one of the largest global producers of palletising solutions. For CSI, it was very easy to add the Yaskawa robot due to the platform's unique level of modularisation.

One of the benefits of the Yaskawa DX200 controller is that the robot is programmed using the same Add-On-Instructions as used in the Rockwell Automation programming environment. Operators and maintenance technicians that are already familiar with the Allen-Bradley PLC can now

Leaders in Converting



Alpha Converting was established in December 1999 and specialise in the design and manufacture of altering equipment. Their machinery is manufactured internationally and is highly regarded by numerous printing and packaging companies around the world.

Founded by Simon King, the company initially started out manufacturing high speed spoolers, but over the years have expanded their client base, presence and product list. Today, Alpha boast an experienced team of technicians that assemble a variety of machines, with equipment including: slitting machines, winding equipment, spooling machinery, salvage doctor machines, trim winders and converting equipment.

Among their many products is the Duplex HR Slitter Rewinder, a particularly lauded product renowned in the industry for its many features. As well

as featuring smart design solutions, such as keeping the web overhead to prevent any contact with dirty floors or other surfaces, the Slitter Rewinder also features cantilevered winding shafts with swing away support, precise tension control, powered roll stripping and much more.

Alpha also specialise in web handling and product handling, which gives them a strong advantage compared to other converting machine manufacturers. It is thanks to this strong command of the entire web handling process that Alpha are able to produce their many converting equipment products of such high calibre.

In April 2017, Alpha attended the International Converting Exhibition. This exhibition allows professionals to gather and see the latest machinery, technology and strides in manufacturing solutions. Alpha received particular attention for their wide range of converting solutions and professional service.

For further information or enquiries, you can visit their website. Alternatively you can email them or ring them on the details listed below.

01767 692 244
www.alpha-converting.co.uk

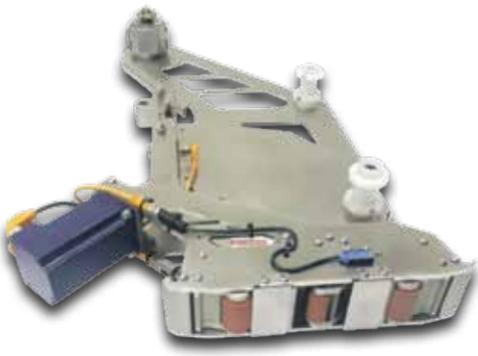


Big Dug
see them on page..... 30



Busch
see them on page.....32

High quality tape application solutions



experience, Enimac has become an internationally recognised trader that is extensively appreciated for its functional designs and high quality equipment. Having built itself a strong customer base and global presence, the company is pleased to serve clients in over 15 countries.

If you wish to find out more about Enimac and its solutions then please feel free to contact a representative by using the information supplied.

www.tapemachines.co.uk
Enimac (Global Enquiries)
T +39 023287425
info@enimac.it
www.enimac.it

Newtown (UK, Ireland and Poland)
T +44 (0)1527 517517
sales@newtowntapes.co.uk

Twitter: @EnimacSrl
Facebook: www.facebook.com/EnimacSrl

Enimac, an Italian manufacturer of first class tape application solutions, received a warm welcome from exhibitors and visitors alike when its team attended the Federation of European Screen Printers Associations (FESPA) earlier this year.

The group of industrial machinery specialists appeared at the fully focused screen, digital and textile printing trade show with one core purpose: to promote their remarkable innovations (tape application systems in standard and custom variations) and excellently executed services (tape applicator integration project management and product development).

All of the products available from Enimac are strategically designed to encourage maximum productivity and easy maintenance. They have high usability and can be seamlessly employed in different environments, making them a great investment for a multitude of businesses.

FESPA proved to be the perfect platform for Enimac to promote their two most popularised standard product types: X-Treme Light and X-Treme Pro. Both components attracted the attention of many attendees, who were impressed with the great functionality and versatility of the systems.

The X-Treme Light solution is best suited to tape posters, folders, envelopes, signage, leaflets and business cards because it is suitably equipped with micrometric adjustment for product thickness of up to 10mm. The X-Treme Pro, meanwhile, has the ability to facilitate larger and heavier items and can tape materials up to 1600mm wide. Both technologies are useful for operators because they reduce production bottleneck and increase output by a staggering rate, meaning companies will benefit from a faster and more efficient process with noticeably better results.

With its finely tuned suite of incredible products and more than 50 years of refined industry

Leaders in tape application automation



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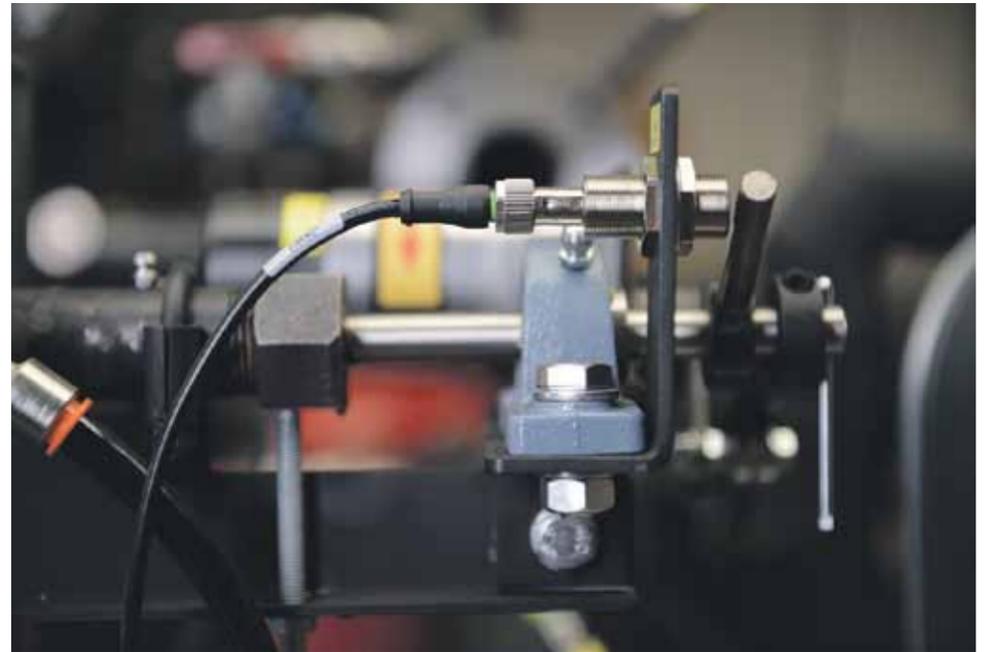
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In the UK, Ireland and Poland, you can get Enimac products through their official distributor Newtown Packaging (www.tapemachines.co.uk)

For other international inquiries, contact Enimac directly at www.enimac.it or info@enimac.it



Revolutionary residual wood products from Spanner Re² GmbH



Best Practice is extremely pleased to announce that Spanner Re² GmbH have been specially selected to receive our prestigious Company of the Year award in light of their world class, manufacturing of renewable residual wood.

First founded in 2004, Spanner Re² GmbH was established by founders Helmut Spanner and Thomas Bleul as an addition to its parent company Otto Spanner GmbH, set up to provide customers with a specialised service focused specifically on renewable energy and the production of exceptional Biomass CHP's for those with a high heat demand.

Since their humble beginnings, the company has progressed

substantially through its mission to make use of residual wood. They have gone from strength to strength and has since delivered over 600 units to date, delivering its exceptional service and quality level of in-house training to customers all over the globe.

Now renowned for their decentralised wood cogeneration plants, turnkey pellet heating systems and complete solutions for the purpose of drying wood chips, Spanner Re² GmbH's intelligent systems and unbeatable service has satisfied the needs of a whole host of companies including agricultural and forestry businesses, hotels, restaurants and heat grids, to name just a few.

One of their most sought after products is the Biomass CHP System from Spanner RE², which cleverly converts wood chips into biomass electricity and warmth with high efficiency. The intelligent Biomass CHP's have proven their worth with over 15,000,000 operating hours worldwide, demonstrating that sustainability and economy are mutually achievable. Systems are run using natural wood chips and

provide attractive cost advantages and increased power yields according to location and legal conditions.

In addition to this, the newly developed, compact wood cogeneration systems HV30-V1.1 and HV45-V1.1 are also extremely popular as they are able to fit inside rooms with a minimum standard ceiling height of just 2.50m. Besides heat insulation, all the heat-carrying components are covered with a resistant coating. A more efficient generator is used for the CHP, which further increases the efficiency of the overall system.

Recently launched was Spanner's EnergyBlock, unique within the industry due to its high flexibility, modular design and ability to cascade the Biomass CHPs for maximum affect, offering a wide

range of the power spectrum from 35 kWel to 780 kWel as well as 80 kWth to 1,8 MWth. The customisable and coordinated system is perfect for heat and electricity generation and has been recognised for its fast start-up, compact shape and ability to be fired with wood chips, pellets and briquettes.

Please get in touch with Spanner RE² GMBH if you would like to find out more about the products and services obtainable. Choosing the most suitable solution for your exacting requirements is made easy with the workforce's wealth of industry experience and solid knowledge base, so please call the team today if you wish to enquire - you can rest assured you will be met with a friendly and personable response one of the expert team.

T 0049175 991 5700
www.holz-kraft.de/en



Providing Solutions in Power Generation



Crewe, Cheshire. Further information on subject matter and dates can be provided by Sadie Beavis. For further information or general

enquiries, please visit the Advanced Valve Solutions website. Alternatively, you can contact the company via telephone or email.

Contact
+44 (0)1270 586 944
www.advancedvalvesolutions.nl/en
info@advancedvalvesolutions.co.uk

Established in 1998, Advanced Valve Solutions specialise in providing high pressure and high temperature solutions for problems arising in the Power Generation sector, whether it be related to power, oil, gas or petro chemistry.

Since their inception, the company has grown from strength to strength and garnered a strong reputation for themselves within the industry. With a global footprint stretching from America to the UK to the Netherlands, AVS are able to deliver their exceptional design and supply services to clients around the globe. Their large and loyal client base covers Bahrain, Germany, Ireland, Holland, America, and of course the UK.

All of AVS' products are made from premium quality materials so that the client can be sure they are getting the most reliable product possible. Better yet, their products have a long lasting life time that saves on both maintenance and replacement costs. Some of their most popular products include specialised 'steam cooled' desuperheaters and combined 'stop-check' valves which have reduced power station operating costs significantly.

With such a strong grasp in the power generation industry, AVS are now seeking to share their knowledge and experience with the rest of the sector. As such, they are expanding their training side and will soon be holding Valves & More, a 2 day AVS programme taking place at HORA and PERSTA. This course provides knowledge on topics in the boiler industry, including thermal material stresses, applications, constructions, design and reliability and cast-forged materials. This course group ranges from 15 to 25 individuals and benefits those who are working or training in the boiler industry. AVS also offers a series of specialised Valve workshops from their new training facility in



AT THE HEART OF YOUR BUSINESS

Attemporator, PRDS, De-superheater Workshop 13th February 2018

Within our new training facility in Crewe, Cheshire, we are aiming to provide a number of detailed Valve Workshops that concentrate on key concerns within the power industry. Drawing on the expertise of our own engineers and pooling knowledge from attendees. The next 'one-day' workshop and training session will take place on the 13th February 2018.

Who should attend?

This course is aimed at maintenance engineers and graduate engineers within the power industry. It is also an ideal learning source for mechanical engineering apprentices.

The day is split into several presentations; each aimed at a specific area of concern within the steam/water cycle on a power plant. The afternoon workshop will take the objectives of those attending and expand upon current innovation, drawing upon 'real life' scenarios and solutions.

Advanced Valve Solutions (UK) Ltd has been instrumental in the provision of reliable and robust valves into Power Stations across Europe. Our approach to business is one of consultation and innovation, ensuring that any solution offered is a custom 'fit for purpose' one that ensures increased product/process life cycle and significant improvements in plant efficiency. In numerous cases the increased efficiency has saved many hundreds of thousands of pounds per year.

Lunch and refreshments are provided Free of charge, as well as comprehensive literature for all attendees. A certificate of attendance will also be provided.

Transport and directions.

Crewe railway station is just a short walk from our offices. We also sit less than six miles from the M6 motorway (junction 16 & 17). There is a direct train from Manchester airport to Crewe station that runs every hour.

In addition, we have the Ibis Hotel, Holiday Inn-Express and a TravelLodge very close by, for attendees that may need to stay overnight.

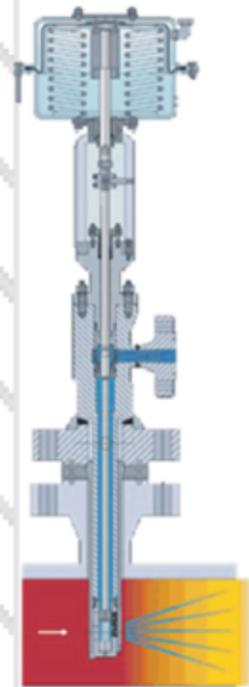
How to book your place

Places are in high demand, as we initially offer these workshops

free-of-charge.

Please contact our UK office in Crewe and ask for Sadie Beavis if you need any more information. 01270 586944.

E-mail: Sadie.beavis@advancedvalvesolutions.co.uk



Product review: new iFIX v5.9 SCADA release

GE Digital has now launched their fourth generation SCADA/HMI product iFIX v5.9, which promises to enable smart operators to increase efficiency and reduce costs. The intuitive interface is designed for operators to quickly interpret relevant data and take the appropriate action. This is in contrast to older systems, which typically display vast reams of data, hampering decision making.

The asset model available with iFIX v5.9 really sets this version apart from previous SCADA products. Although monitoring, visualisation and alarms continue to be an important part of SCADA, the additional context provided by a detailed asset model can give operators the edge to optimise processes and drive even better results.

Astec Technical Director Chris Barlow comments,

"We use a standards-based user interface approach for every project, so clients can benefit from improved navigation and decision making. Some operators may have a tendency to feel 'comfortable'



with older style graphics, where everything is squeezed onto a single screen, but we would recommend the drill-down structure of the latest iFIX, which offers a far superior performance. The essence of iFIX v5.9 centres around the asset modelling. This provides plant-level context for improved diagnosis of abnormal situations. Operators are able to take immediate action on the move, with a consistent level of response every time. The asset-centric screens guide users towards only relevant information - which really is the future of SCADA."

enquiries@astecsolutions.com
+44 1543 888134

Your data at your fingertips with measure2improve Activ.



measure2improve is a cutting-edge, customer-focused organisation specialising in developing and delivering products and services to collect data from a variety of businesses; so they can improve their future performance.

First established in 1995 by founding directors Don Gaudoin, Simon Pinkney and John Marshall, who are still involved in the day-to-day management of the business, the company has come a long way since its humble beginnings. Now renowned for its leading range of software and pro-active support services, measure2improve helps customers capture, analyse and compare their business performance data and to oversee their supply chains and health & safety activities.

measure2improve's Activ. products help organisations benchmark, inspect, survey, manage and analyse collected data. Concentrating on providing their clients with agile database solutions that capture the day-to-day operational data of their business performance, measure2improve bestows simple, easy-to-use and secure access to reports and information to all relevant personnel via your own dedicated central website.



Committed to providing an outstanding service to clients, measure2improve goes to great lengths to ensure that no matter the application, each client is getting the most out of their service. For that reason, the measure2improve support team is on hand to help and provide assistance with its solutions, offering a wealth of sector and industry experience. Combined with its bespoke performance measurement software m2iActiv., measure2improve is able to apply its skills to organisations in most sectors.

measure2improve strives to help other businesses improve, which is why from its practical, innovative, software solutions, customers will gain the information they need in order to act on and improve their own success. So, if you would like to get in contact and find out how measure2improve's many specialist software services can benefit your company, don't hesitate to pick up the phone today. More information can also be found by visiting the website below:

01884 841884
www.measure2improve.co.uk

Your drainage specialists

XTI Limited was first established in February 2010 and is based in Lees, Oldham, specialising in the manufacture of drain camera systems. In addition to offering a comprehensive repair service for both their own and other manufacturers systems, they also offer a high quality robust system at a competitive price. 2017 has been particularly successful for XTI, with rapid expansion, a more robust client base, and an ever improving service.



XTI provide a fast turnaround on repair, reducing the disruption to the client's business and profits. They also offer a 'while you wait repair service,' whereby nearby clients in the Oldham area can bring their equipment in for evaluation and repair whilst they wait. All you need to do is ring or email beforehand and they'll tell you whether it's

repairable or not. If the product is repairable, they can point you in the right direction for a scenic walk whilst they do all of the work for you. Although XTI are a small company, it is what allows them to be so flexible and be able to foster strong relationships with all of their customers.

The company supply to large national organisations, councils and even sole traders. They are also constantly upgrading and improving their products as technology changes - the XT220 Control Box being the most recent addition to their product range. This year, the company have upgraded their system from analogue to digital, offering their best picture quality to date. Moving ahead, XTI will be expanding their customer base and continuing to offer customers great value for money. The company recently attended the Drain Trader Exhibition earlier this year where they showcased all of their wares and met both existing and potential customers.

Contact
T 0161 652 1393
www.xtiltd.co.uk
info@xtiltd.co.uk

UK-Wide High Voltage Experts



Established in 1977, PowerSystems UK specialise in designing and constructing electrical power infrastructure and grid connections.

Boasting over 40 years' worth of experience, the company are deeply proud to say they are still serving a handful of their very first customers. Having garnered a strong and prominent position within the high voltage industry, PowerSystems UK became the first independent Lloyd's Accredited Contractor, which has allowed them to work alongside in Distribution Network Operator areas and to perform competition in Connections work.

As one of the UK's leading independent connection providers, the company offer services in electrical infrastructure, grid connections, renewable generation, STOR and rail across the UK. Their electrical infrastructure entails everything from testing all the way down to final commissioning; including many aspects such as: design, plant procedure, substations, transformers, switchgear, cable installation and many other additional practices.

PowerSystems UK have carried out services for many industries and have been accredited by the National Electricity Registration Scheme (NERS), helping the company be able undertake work in many other sectors, as well as being fully accredited by the RISQS Scheme to work for the UK Rail Industry.

PowerSystems UK have already successfully completed projects for numerous different sectors, including for hospitals, Formula 1, wind farms and much more. Whatever the service required, PowerSystems UK promise to offer excellent service for all of their customers and clients. All of their engineers and staff are fully qualified and capable of carrying out their projects in the best and most reliable way possible.

Next year, you will be able to catch PowerSystems showcasing their wide range of integral engineering services and more at the Energy Now show in February 2018 in Telford. For further information or general enquiries about the company, please visit the PowerSystems UK website, or alternatively, you can contact the company via telephone or email.

Contact
+44 (0)1454 318 000
www.powersystemsuk.co.uk
enquiries@powersystemsuk.com

Expert Manufacturers of Fastener Tooling and Extrusion Dies



The CTR Manufacturing Group is a world leader in providing products and services that enhance the performance, durability and cost-efficiency

of tooling and dies primarily in the Fastener industry.

Founded in 1973 as CTR Carbide Dies (Birmingham) Ltd, the company has progressed to become a renowned expert in the manufacture and supply of standard and specialised fastener tooling and dies indirectly to many major Tier 1, Primes and OEM companies worldwide. Having worked within the fastener tooling and general precision engineering sectors for several years, the company began using its expertise to provide high-quality tooling for spring manufacture, swaged tube ends, press tools, needle stamping blocks, injection moulding tools and more. As a result, CTR has extended both its services and manufacturing facilities to supply into other markets that include Aerospace, Rail, Medical, Energy and Defence related industries.

Not only does the international manufacturing group manufacture tools and dies, they also provide first-rate product and competitive services in order for their clients to meet and exceed their own manufacturing requirements. CTR ensures exceptional customer service with their highly skilled and experienced team who work closely with customers to achieve maximum tool and die optimisation. Other services include tool and die modification and refurbishment along with a comprehensive 3D CAD /AUTOCAD die design consultancy service.

From the initial enquiry through to order placement, all clients are guaranteed a committed, professional and personal support service from the CTR Manufacturing Group, whose experienced team constantly review and evaluate the client's blue print design in order to ensure it is engineered in the most cost-effective way and without detriment to piece part quality and quantity.

If you would like to find out more about their fastener tooling, extrusion dies and precision engineering manufacturing capabilities and other specialist engineering services, then don't hesitate to contact them today:

0121 772 0817
www.ctr-uk.com

Reshaping The World of Recycling and Ventilation

Fercell are one of the leading specialists in the industrial environmental sector, having been established over 40 years ago. The family run business offer both recycling systems and ventilation systems, with their recycling aimed products broaching everything from industrial WEIMA shredders to briquette presses, granulators, wash lines, conveyors and sorting systems. These can be used with all manner of materials including wood, metal, plastic and paper.

2017 has been a hugely successful year for the company. Over the past year, Fercell have introduced new, innovative machinery such as their aluminium swarfs briquetting and shredding technology, alongside the highly sought after V-TUF dust extractor M-class. This pioneering product is ideal for vacuuming dust and controlling dust particles at the source. With its M class rating, this dust vacuum is a recognised lung-safe vacuum.

As for their ventilating services, Fercell can be counted on for high quality dust, fume and paint spray extraction systems. We spoke to Natalie Owen, from Fercell, who added, "We stock ventilation equipment from suppliers outside the UK and from our on-site factory. This allows us to be flexible when designing solutions, meaning we can create bespoke extraction systems, which work according to the dust, fume or spray output of each customer." For clients seeking a robust and dependable Material Recycling Facility, Fercell's ventilating and recycling systems can work in conjunction for a fully comprehensive recycling operation. Everyone throughout the UK from aviation companies to education, food, pharmaceutical, engineering and manufacturing companies can benefit from Fercell's top quality services. Fercell's approach is simple; they want to provide their clients with the best and most effective recycling solutions possible. In fact, Fercell are proud to say that some clients have even achieved up to a 90% reduction in waste, gaining sizeable annual revenues from waste



products that can then be converted and sold as secondary commodity market materials. Customer service is of prime importance too, with Fercell offering servicing, maintenance and aftercare services. Not only do the company provide servicing, but they even distribute replacements for products, regardless of the manufacturers.

Due to their commercial success from 2017, Fercell have increased their service team, hiring a second CoSHH/LEV testing engineer to deal with their extra demand. The company are also aiming to resolve improper disposal of plastic, educating clients on proper recycling solutions.

Going forward, Fercell plan to expand their market reach further. With the launch of their new, innovative and advanced machinery, with their impressive list of clients which includes The English National Opera, Natural History Museum, Charity London and several more, Fercell aspire to continue as the UK leading solution for complete industrial recycling systems for environmental waste reduction and industrial ventilation equipment.

If you would like to get in contact with Fercell, please don't hesitate to give them a ring today or check out their website for more information.

01622 791 414
info@fercell.com
www.fercell.com

Protect Your Components with Curtiss Wright Surface Technologies



Curtiss Wright Surface Technologies with our award

When it comes to surface treatments, Curtiss Wright Surface Technologies can be relied upon for their one stop shop solutions and dedication to excellent customer service.

First set up back in 1929, the company who are a subsidiary of the Curtiss Wright Corporation specialises in providing surface treatments with the aim of enhancing the performance of critical materials and components. These treatments can be used in preventing premature failures and increasing the life of a huge range of components used in anything from a jet engine to a wind turbine.

Used in a range of industries the world over, Curtiss Wright Surface Technologies can provide material surface treatments,

protective coatings, high tech processes and much more. One of the biggest concerns for manufacturers, designers and buyers of critical components is premature failure as a result of fatigue, corrosion, stress corrosion cracking, fretting, friction, galling, and environmental and thermal stresses.

As a subsidiary's of Curtiss-Wright, Curtiss Wright Surface Technologies has a rich and long history behind them. With a global network of over 70 operating divisions, they are able to supply their exemplary services to OEM's in a wide range of major industries, such as aerospace, automotive, oil & gas, subsea, medical, power generation and more.

Their innovative surface treatment solutions encompass Controlled Shot and Laser Shock Peening, Engineered coatings, Thermal Spray Coatings and Parylene Coatings for silicone, plastics and electronic components. They ensure that by working closely with customers from the design stage through to manufacturing they can provide a One Stop Solution for material treatments. These can be applied to new manufactured parts and also repair and overhaul including site work.

There are a number of factors that can cause premature failure and poor performance of metals and materials which is why the services and processes Curtiss Wright Surface

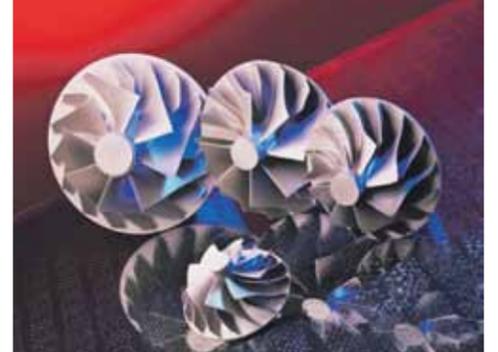


Technologies provide are vital in the life extension of critical components. Machining, heating, forging bending and rolling of metals can induce unwanted stresses and associated problems which can be eliminated by some of the services Curtiss Wright Surface Technologies offer.

Component repair is just one of Curtiss Wright Surface Technologies' many specialties. Their diffusion and sacrificial coatings can be applied to a wide array of components, including compressor blades, vane tips, turbine blades, intake snouts and more.

Throughout 2016, Curtiss Wright Surface Technologies expanded into the steam gas turbine repair and overhaul industries. They also successfully acquired Component Coating and Repair Services (CCRS) and expanded their portfolio to include yet many more processes.

Last year they attended the Advanced Engineering show at the NEC, Birmingham, where they demonstrated their surface treatment solutions and range of services. Attending alongside hundreds of other industry peers, Curtiss Wright Surface



Technologies were able to stand out thanks to their One Stop Shop service and wide variety of processes. They impressed new visitors to the stand and also welcomed existing customers thanks to their consistent and ongoing expansion of new services and technologies.

Curtiss Wright Surface Technologies metal improvement and component coating facilities use state of the art robotic equipment which has been designed and manufactured in-house specifically for our customers' work. They keep in the forefront of new materials and technology by maintaining strong links with industry associations and being actively involved in research and development projects.

If you would like to find out more about Curtiss Wright Surface Technologies and how they can benefit you and your components and materials, then be sure to get in contact with the company today using the number provided below. Alternatively, more information can be found by visiting their website, where you can find more on their many services.

T: 01635 279 621
www.cwst.co.uk

Mobility simplified



Portech Systems Ltd. provides customers with a smarter way to improve service, increase data accuracy, manage work and turn downtime into uptime. With over two decades of experience in the mobile enterprise solutions market, the family run company is ideally positioned to offer the most up to date, bespoke applications for mobile scanners.

Going beyond just data collection, these top class solutions allow a real-time two-way exchange of information between the mobile worker and the enterprise, resulting in enhanced decision support across the entire organisation and where it matters most, on the front line.

Organisations who have automated their mobile worker and workforce with Portech's systems have enjoyed improved customer satisfaction, reduction in costs by eliminating costly field processes, fewer errors associated with manual data entry and the latest Mobility technologies to keep that competitive edge.

T +44 (0)1216 242626
info@portech.co.uk
www.portech.co.uk



Accurately, Reliably Measure Degree of Bake or Brownness

Our InfraLab at-line analyzer directly measures the Degree of Bake or Brownness in biscuits, crackers, cookies and snack foods.

- ▶ Reduced start-up time and scrap
- ▶ More consistent, within specification product
- ▶ Improved operating efficiency
- ▶ Acrylamide mitigation
- ▶ Rapid analysis in just 5 seconds

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NATURAL CLEANING PRODUCTS

THE NEW CLEANING DETERGENT RELEASED TO THE UK



FOR HOUSEHOLD, DOMESTIC & COMMERCIAL USE



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Picking highlights from 2017



While the UK economy continued to grow throughout 2017, uncertainty in business continues to be a dominant factor, not least due to the on-going Brexit negotiations. Achieving growth during these times requires cost

effective and flexible solutions that not only fulfil current requirements but, crucially, can also adapt to changing working conditions.

It comes as little surprise therefore that 2017 has been a busy year for Nuneaton-based BITO Storage Systems, the subsidiary of the German international manufacturer of storage and order picking equipment. The company is a one-stop-shop provider of flexible solutions for the intralogistics backbone that supports retail, e-commerce, manufacturing and general logistics operations.

The year got underway with the opening of the new Experience Centre showroom at BITO's ultra-modern facilities in the Hemdale Business Park. The centre offers visitors a relaxed environment in which they can discover a vast range of solutions on the 'intralogistics journey'. This starts with bins and containers for all occasions and continues with shelving, small parts storage, pick to light, live storage flow lanes, perforated shelves, pallet racking and accessories - as well as pull out systems. Customers can test and refine the design of their new solutions in a special area of the centre. The showroom also provides the perfect facility for



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meetings and conferences.

Visitors also get to see BITO's new LEO Locative automated internal transport solution travelling round the centre. Having passed its test phase with flying colours following its unveiling at the IMHX 2016 exhibition in the NEC Birmingham, the production version of LEO was officially launched in 2017 as the simplest available AGV (Automated Guided Vehicle) on the market. Unlike other AGVs, LEO does not require an infrastructure or complex installation, which opens up the possibilities and advantages of robots to a broad range of operations.

Visitors gained a preview of LEO on BITO's stand at IntraLogisteX 2017, the exhibition held at the Ricoh Arena near Coventry in March. Members of BITO's experienced sales team discussed its development and the benefits it can deliver in a broad array of applications. Visitors also gained an insight into BITO's range of storage and order picking systems. One of the most popular lines during 2017 has been the EQ collapsible container, which offers a space-saving Euro-container option for transporting goods. Folding the sides of an empty EQ container saves up to 75% on volume. BITO will be exhibiting again at IntraLogisteX at the Ricoh Arena, Coventry on 27-28 February 2018. It will also be at MACH 2018, the major manufacturing technology exhibition being held at the NEC, Birmingham on 9-13 April 2018.

A significant development in 2017 has been the new www.bitosystems.com going live. The new website hosts the brand new BITO Shop, which provides a quick and convenient way to buy items from an online range of over 5000 products. It features bins and containers, shelving, racking and accessories manufactured by BITO as well as non-BITO manufactured products such as trolleys, lockers and pallet trucks. All BITO Shop stock is held in the company's UK warehouse in Nuneaton, which holds sufficient stock to provide fast-track, 3-day delivery for most orders.

The user-friendly BITO Shop is ideal for those seeking storage product items or equipment for smaller storage operations. Companies considering larger solutions will find a 'project portal' full of intralogistics ideas, information and case studies.

Throughout 2017, BITO continued to grow its portfolio of successful installations of systems for a host of brands including Brose, APD Parts and Proper Music. It also developed cutting edge e-commerce solutions for leading e-tailers and omnichannel retailers.

As we look ahead to 2018 it is time to review how your business avoids a situation where it is unable to cope, has to turn business away and misses new opportunities for growth. 2018 will be a great opportunity to invest in efficient and flexible storage and order picking systems.

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In a confusing, crowded market, Lumilow offers a strong, authoritative voice on every aspect of lighting – and the positive impact of correctly applied lighting.

The Four 'E's

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TCFM contract at Eden Walk, Kingston



TC Facilities Management (TCFM) is now delivering Cleaning and Security Services at Eden Walk in Kingston, part of the Regional multi-let retail portfolio managed by Broadgate Estates and owned by British Land and USS. This new contract commenced on April 1st and will help enable the 10million visitors that go to Eden Walk each year to have a safe and enjoyable shopping experience.

The team from TCFM, led by Andy Farley, TCFM Contract Manager, will ensure that the extensive cleaning & security expertise along with the standards that TCFM are renowned for

in other Retail and Office sites are replicated, and with it will enable Eden Walk to provide visitors with an outstanding place to visit.

The contract will utilise smart management systems and state-of-the-art technology to help maintain and improve standards along with delivering robust monitoring and management reporting to Broadgate Estates, all with the aim of delivering unrivalled customer service and value.

Having been able to demonstrate added value within other cleaning & security contracts, the contract was awarded based on TCFM's proven track record spanning almost 55 years, along with their design of a bespoke solution, built on Broadgate Estates' individual needs.

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TCFM and Remploy scoop prestigious national award

A partnership between TC Facilities Management (TCFM) and Remploy the disability employment specialists, has won the Large Employer of the Year award at the ERSA Employability Awards 2017. The winners were announced at a ceremony attended by the Minister for Disabled People, Health and Work, Penny Mordaunt MP and hosted by BBC journalist Kirsty Lang.

The ERSA Employability Awards are now in their fifth year. The awards showcase and champion best practice from across the employment support sector, celebrating and recognising the hard work and achievements of those involved in supporting people into work.

Knowing that we are making a difference to people with a disability or health condition is hugely satisfying, and to receive a national award recognising this is fantastic! Our partnership with Remploy goes from strength to strength and I look forward to seeing



how we will continue to grow together in the future."

This year the awards judges included Heidi Allen MP, a member of the Work and Pensions Committee in the last Parliament; a senior official from the Department for Work and Pensions; a senior researcher at the Resolution Foundation; and last year's winner of the Adviser of the Year Award, Keith Tottingham.

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TC Security Services retain Top 2% position three years in a row

TC Security Services, part of TC Facilities Management (TCFM), have once again been placed in the top 2% of all SIA listed companies within the Approved Contractor Scheme in the UK. This is the third year in succession; TC Security Services has achieved this accolade.

The 4-day visit by the Auditors involved full scrutiny of the TC Security Services operation visiting both the Head Quarters and satellite offices along with a mix of varied customers.

The maximum overall score that can be achieved is currently 175 points. TC Security Services' score of 163 places them once again in the top 2% of all SIA listed companies within the Approved Contractor Scheme. It means



that we are one of the very best security companies in the entire country.

This achievement means that both potential and existing customers have the confidence that the service has been independently assessed against recognised standards and procedures. Beside this is the added peace of mind that all the security personnel have been correctly trained for the role they are performing.

The auditors mentioned that staff were very aware of the impact of good service delivery along with the high level of satisfaction by customers.

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TCFM and Remploy partnership wins prestigious PFM award

TC Facilities Management, who provide a range of FM services to some of the UK's most recognisable companies and Remploy, the UK's leading disability employment specialist have won the Partners in CSR (Charitable and Social Enterprise) category at the highly respected Premises and Facilities Management awards 2017.

The PFM awards recognise exceptional practice in the facilities management sector. The ceremony in London was hosted by BBC Presenter Jeremy Vine and attended by more than 600 people.

The judges of the PFM awards 2017 said: "TC Facilities Management and Remploy were successful in this entry because we found they had formed a bond that had developed into a strong partnership. It is one that provides a shining example and shows the very best attributes of the FM sector"

All the organisations nominated to the PFM Awards 2017 went through a rigorous judging



process, firstly being shortlisted to select just three finalists in each category and then presenting to a team of independent judges who visited them at work.

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TC Security Services receive award of distinction at ACS Pacesetters Lunch



Adeel Usman (Adi), Security officer at TC Security Services, has received an 'Officer of Distinction' award at a lunch hosted by ACS Pacesetters at Royal Windsor Race Course on Wednesday 24th May, 2017.

He was nominated by Andy Jenkins, the Operations Manager at Vicarage Road Stadium, home of Premier League Watford Football Club

and where Adi has worked since the Autumn of 2016. It is here where Adi along with the rest of the TC Security Services team provide a range of services including manned guarding, CCTV alongside a raft of added value services to help reduce risk and maintain excellent Health & Safety at the stadium and training ground.

Andy nominated Adi after his quick-thinking, diligence and observation skills resulted in an intruder being apprehended and arrested, safeguarding the 22,000-seater Vicarage Road ground.

On hearing about the award, Adi played the incident down and was surprised that he would be recognised in this way.

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TCFM secures cleaning contract with on-line retailer



TC Facilities Management (TCFM) is now playing a part in helping an unnamed on-line retailer achieve speedy grocery deliveries from their DC in London.

The contract being delivered by a team from TCFM started on 8th December 2016. It will provide cleaning services to a Distribution Centre responsible for its groceries delivery in London.

The team from TCFM, led by Charlotte Mudge, TCFM Account Manager, will ensure that the superb standards that TCFM have become known for in other DCs will be replicated and with it enable the retailer to deliver consistently speedy shopping solutions.

The contract will utilise rigorous systems and state-of-the-art technology to help to deliver robust monitoring and management reporting to the client.

Having been able to demonstrate the added value within other cleaning contracts in DCs, the contract was awarded based on TCFM's proven track record in the warehouse space along with their design of a bespoke solution, based on the client's individual needs.

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TC Facilities Management (TCFM) secure multi-service contract close to Milton Keynes

TC Facilities Management (TCFM) is delighted to announce the award of a multi-service contract at a Logistics Centre close to Milton Keynes in Buckinghamshire. This site is at the heart of making sure that customers of this national retailer get what they need, when they need it.

The contract will see over 70 staff from TCFM deployed to provide Cleaning, Security and Catering where over 2000 staff work on site, managing orders 24-hours a day.

The contract commences on Monday 16th October and is being led by Steve Wengrow, Divisional Director, and TCFM, who is working alongside the on-site to deliver a seamless transition.

Having been able to demonstrate added value within other contracts in the DC environment the contract was awarded based on TCFM's passion



and past record for delivering an enhanced FM service. Keith French, Group Development Director, TCFM commented:

"We are delighted to have been awarded our 13th Logistics Centre and are looking forward to replicating the improved standards we've delivered at other sites, using our ingenuity and use of technology resources. This will complement and support our client as they ensure that their customers get what they want, when they need it."

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Specialists in the Magnet Industry



Newland Magnetics Europe was set up in January 2017 by Ningbo Newland Magnet Corporation Ltd, established over 12 years ago and with ISO 9001:2015 & IATF 16949:2016 accreditation they specialise in the manufacture of NdFeB magnets, magnetic assemblies, separators and more, using cutting edge technologies.

located near Angouleme in France, providing technical, design and sales support as well as local stocking solutions. Newland Magnetics Europe prioritise high quality service, cost-effective prices and total customer satisfaction and their philosophy of "Creating a better cleaner world" is implemented at every level of

operation.

The industry leading innovators can supply clients with a wide range of materials and components, including NdFeB, Bonded NdFeB, AlNiCo, SmCo and hard ferrite magnets. These materials are used in a wide range of applications including drive systems, electric motors, separators, switches, sensors, speakers and magnetic clutches. They work with clients from a range of industries including automotive, aerospace, medicine, green energy, Industrial, and food industry. Using specialist simulation software, Newland Magnetics design the optimum magnetic component for the customer's product, meeting individual clients' needs and tailoring their services accordingly.

For further information visit the Newland Magnetics website. Alternatively, you can contact the company via telephone or email.

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Newland Magnetics Europe SAS located in France are part of Ningbo Newland Magnet Industry Co. Ltd a Chinese manufacturer of NdFeB magnets and magnetic assemblies with ISO9001:2015 and IATF 16949:2016 accreditation.

Newland Magnetics Europe was formed to provide technical/design and sales support for our European customers also logistic solutions including consignment or stock holding within our European warehouse.

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Europe's Leading Manufacturer of Odour Control and Biogas Cleaning Units



Anua Clean Air International Ltd is one of the UK's leading suppliers of odour control and biogas cleaning units. Originally established in 1990, the business was recently taken over in 2015 by Ian Phillips, who partnered with long term distributor Air Clean Srl. As a result of this takeover, the company is now world-renowned as a leading international supplier of patented clean air bio-technologies.

Specialising in the provision and maintenance of proven, high performing, clean, biological air filtration technologies, Anua Clean Air Services are accredited for providing first class biological air filtration technology with the lowest life cycle cost. Concentrating in odour control for waste water treatment, solid waste, VOC and food industry treatment plants, Anua Clean Air Services ensure that with every odour control cleaning unit, each client is getting the most out of their air-filtration technologies. One highly sought after product is the Mónashell biofiltration system, a popular alternative to chemical scrubbing and carbon adsorption. Recognised for its optimal odour performance, this cost-effective cleaning unit generates a 67% footprint reduction and can even treat high and variable concentrations of numerous organic sulphides. All of the biofiltration systems which Anua Clean Air Ltd manufacture and install, including Mónafil and CrumRubber models, are patented proven systems.

As Europe's leading odour cleaning company, Anua can be found at numerous trade shows throughout the year, such as RWM in the UK, Pollutec in Paris, WEFTEC in the US and IFAT in Germany. If you would like to get in contact with Anua Clean Air Services to find out how their specialists air bio-technologies can benefit you, or if you would like to receive a free quote, then don't hesitate to pick up the phone today. More information can also be found by visiting the website below:

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The highly innovative and well established company has recently introduced a new line of products for 2017. This high class collection of high tech gas generators for analytics, consists of the complementary solution that combine Hydrogen and Nitrogen, - the H2-N2 STATION. The new breed of O2 generator - OXYSTATION. The new evolution of Nitrogen for

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Founded in 2002, CSC Services originally sub-contracted to several UK Water companies refurbishing service reservoirs, water towers and other associated structures. In 2014, CSC Services took on its first contract in the UK power industry for EDF Energy at Hartlepool Power Station, completing concrete repair work and leak-sealing to culverts and drumscreens. Since then, CSC Services have gone on to work at Dungeness B Power Station, West Burton Power Station and

Hinkley Point B Power Station.

A long running contract at Lynemouth Power Station for Sir Robert McAlpine saw CSC Services expand its power sector portfolio in 2017. A Flexcrete cementitious coating system was sprayed on to steelwork to provide enhanced chemical and abrasion resistance. Over ten tonne of specialist repair mortars and structural strengthening products were used at Hinkley B Power Station as CSC Services completed the 2017 Concrete Spalling Remediation Programme for EDF Energy.



A range of assets were refurbished across the water industry in 2017 including wet wells, filter tanks and service reservoirs for clients Anglian Water and United Utilities. CSC Services rounded the year off by becoming a Quality Approved Contractor for the Sika Liquid Plastics range of products, and scoring top marks in its annual Achilles UVDB Audit.

CSC Services prides itself on working with the leading coatings manufacturers, undertaking relevant product and application training so that the optimum, and often the most innovative, solution can be offered to clients.



In 2018 CSC Services are offering companies a Free Asset Health check. A full asset examination will identify and quantify any signs of corrosion, and assess the condition of current protective coatings and/or mortars. Recommendations will be made as to how the service life-span of the asset can be extended by effectively protecting against chemical attacks, joint-leaks, cracks and surface corrosion. Contact enquiries@csc-services.co.uk to book your Free Asset Health check today.

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The UK's Largest Heating Element Manufacturer



The business, which is based in Cardiff, was founded in 1949 by Franz Skalitzky and Cyril Hodges and as a family-run organisation it is now managed by their two sons John Skalitzky and Alun Hodges. Over the course of its existence Elmatic has become a leading manufacturer specialising predominantly in the provision of heating elements for industrial and electrical applications.

From its fully equipped 45,000 sq. ft. factory in South Wales the group can efficiently provide

customers with high quality Mica Band & Plate Heaters, Nozzle Heaters, Cartridge Heaters, Ceramic knuckle heaters, Tubular rod Heaters, Immersion/Flange heaters, Air Duct Heaters, Ceramic Core heaters, Strip Heaters and Roller/Disc Heaters. The inventory also includes a range of Load Banks for the testing of generators and all forms of Fabrication & Sheet Metalwork.

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CSC Services have over fifteen years experience in repairing water and wastewater industry assets and structure including: aqueducts, service reservoirs, water storage tanks, water towers, water and waste water treatment plants, storm tanks and silos.

CSC Services have significant experience working in UK Power stations and other industrial buildings providing concrete repairs, culvert repairs, leak sealing and cathodic protection. CSC Services are a Quality Approved contractor for Sika Liquid Plastic Roofing Systems.

equipment on the market and its quest for innovation has led to the obtaining of many exciting industrial developments (such as Mica Band & Plate Heaters, Nozzle Heaters, Cartridge Heaters and Ceramic knuckle heaters). Its latest addition is a line of square section heaters which can be used in situations involving injection/blow moulding, rubber moulding, mould & tool dies, manifolds, plastic process machinery and more.

"Our aim is to continually make investments in our machinery to modernise our processes and make us more efficient," Elmatic's Sales Manager Peter Crisp told us. "We also strive to update and improve all of the information on our website, which is now a major tool in promoting our products and assisting our customers (with discussions undertaken to identify the exact solution required for the individual application)."

For a free quotation or further information on any of the aforementioned functional and cost-effective systems then please contact Elmatic today. Whether you require a single unit or a large quantity of equipment, an enthusiastic and knowledgeable company representative is only an email or phone call away, so what are you waiting for? Find out how the company's advanced CAD/CAM technology and contemporary production processes can better your proceedings by enquiring about a specific solution at your earliest convenience.

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Deep hole drilling systems



The B850 also offers a standard programmable coolant system. Combined with user-friendly controls and the other new design features, the machine allows an operator to focus on the part being machined instead of managing a wide variety of manual functions. It is part of UNISIG's extensive B-series line, designed for on-center drilling of round workpieces in applications such as aerospace, defense, and oil & gas. In addition to standard BTA drilling methods, these machines are also capable of counterboring, trepanning, and skiving and roller burnishing processes, achieving the extremely strict

tolerances required by manufacturers in these and other industries.

All UNISIG products are meticulously manufactured in America and Germany and are distributed with the obligatory durable tooling and machine accessories. Training on how to operate the equipment can be provided should this be required, and friendly representatives are also on hand to offer application support for the accomplishment of specific production goals. Further information on all machines of the UNI

series and the complete UNISIG machine program is available at: www.unisig.de or follow the company on LinkedIn and Twitter (@UNISIG).

You can also meet the company at the EMO show in Hannover, Germany from 18-23 September 2017 in hall 16, C06.

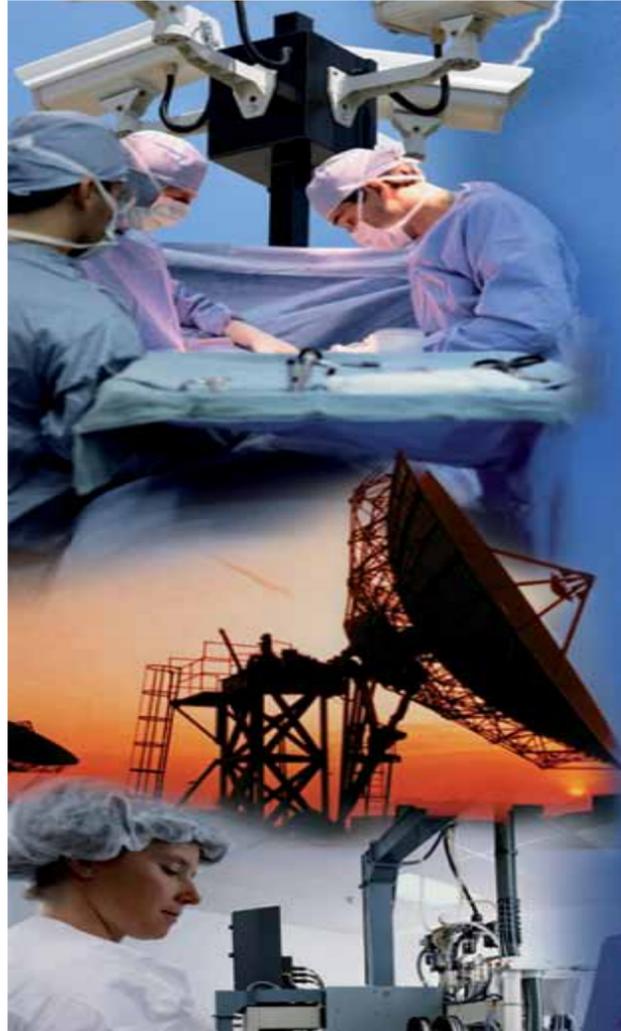
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Established in 1981, UNISIG is a leading manufacturer of deep hole drilling systems and technologies. Over the years it has become a recognised name in the industry, renowned for its first rate suite of modern solutions and high performance machinery.

Their top quality solutions have satisfied the needs of customers across the world with quality tooling, accessories and automation. The range of dependable products has proven effective for the purpose of work process optimisation and every component has been independently tried and tested and specifically designed to comply with the necessary industry standards (ISO, DIN and IEC where applicable).

Keeping up with their reputation to offer the latest and most innovative technology, UNISIG has recently introduced significant technology advances in its innovative B-Series Machines. Due to be introduced in the newly launched B850 model and to be integrated into larger models in the series, these advances are set to substantially improve performance and dramatically reduce costs.

When designing the B850, UNISIG evaluated all aspects of the previous designs. The bed and rack-and-pinion system were retained, while feed systems were modernized to improve rigidity and reduce backlash. A new high-performance, helical-gear transmission was incorporated in a three-range, automatically shifting headstock. Incorporation of modern gearing and power train concepts simplified construction of the machine, reducing cost and boosting reliability and performance.



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Storage News

Innovative IT solutions



Based in Windsor in Berkshire, LA Micro Group (UK) Ltd is a specialised provider of IT based services and products that is recognised internationally for its commitment to ensuring industry excellence and best practice.

The company is pleased to deliver systems, spare parts, IT services, IT support and telecoms that are configured to order to companies of all sizes and specialisms. Facilitating businesses both large and small is made possible with its varied suite of servers, workstations and storage solutions.

LA Micro Group (UK) Ltd boasts a customer base spanning 8000 customers spread across 19 different countries. The organisation is classed as an IT supplier of choice because of its high quality range and outstanding level of service, which is tailored specifically to suit the client and their singular application.

Experienced and enthusiastic account managers actively strive to source the most suitable product for unique needs and budgets by employing their specialist knowledge and taking into consideration business goals. Value is then added to a company with the careful choosing of an appropriate technology, incorporated with new and refurbished IT hardware.

"We reduce customer's hardware costs significantly by utilising both current and end-of-life product lines backed by a full range of professional services including on-site support, asset remarketing and leasing using the latest technologies," explained Lee Waller, General Manager.

"We believe our USP is availability of products and parts due to our large stockholdings and therefore speed of delivery. We can also offer bespoke and flexible solutions with configure to order options allowing for the customer to have a greater choice with the

specifications of their chosen product." Servicing data centres, IT hardware product brokers & traders and end users, LA Micro UK provides new, used and refurbished components and telecoms products & services, supplied by Yello Communications (such as mobiles, IP phone systems and voice and data installation). They have recently introduced a new IP phone system called eve, a cloud based IP telephony service which is available for just £10 per user (monthly) and includes all mobile calls and a handset.

The establishment has advanced significantly since its foundation in 2004 by current Managing Director, David Bell. It has progressed in leaps and bounds, having grown from an eBay store managed by one person to a 40 strong team working from a 17,000 sq. ft. facility complete with warehouse and office floors. It is now regarded, impressively, as one of Europe's largest stockholders of Dell products.

LA Micro Group (UK) Ltd has recently acquired Yello Communications, the Leicester-based telecoms company, and is looking forward to ongoing growth in future years. Please get in touch today if you would like to find out more about this award-winning enterprise (it was granted Investors in People Accreditation in 2017 and was listed on The Sunday Times SME Export 100 2017 and The Sunday Times Fast Track 100 2014).



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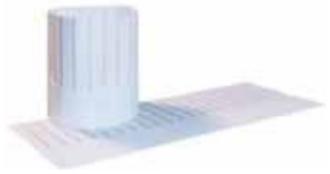


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Leading niche catering and cleaning supplier



Quality Agency & Regency Supplies K/A QAR Supplies is well-renowned as one of the UK's leading niche

catering and cleaning organisations. With over 25 years' experience in the industry, this international company consistently provide top-quality, cleaning and hygienic hospitality solutions for several leading establishments. These include such prominent names as the Hilton Hotels, the Arora Group, The Macdonald Hotel Group of Hotels and more.

Specialising in providing extremely high quality, durable non-woven kitchen cloths and non-woven chef hats, vacuum pouches, muslin products, fish and chips trays, newsprint greaseproof paper, magic shammy cloths and many more, QAR Supplies has garnered a reputation over the many years for their outstanding first-rate products, speed of delivery, cost-efficiency and exceptional customer service.

Committed to providing an excellent service to clients, QAR Supplies go to great lengths to ensure that no matter the application, each customer is getting the most out of their products. For that reason, QAR prescribes each of their clients with their very own personal representative, to work closer with the customer so they can ensure all of their requirements are met.

QAR prides itself on its non-woven material made products. The benefits of non-woven material is that it is long-lasting, ensuring cost-effectiveness. Their non-woven kitchen cloths are their best seller because they are highly absorbent and customers say 'softer and easier to use than microfiber'. Their chef hats are also made of non-woven material, and are among their most popular products.

Chefs frequently opt for QAR chef hats as they are lightweight, highly absorbent and adjustable. Better yet, these hats can be used day after day for several days, are tear-resistant and are even hypoallergenic. Another of their most highly sought after products are the lemon wraps, with ties of various colours, a popular purchase among clients to serve the

purpose of keeping any pips off food.

QAR strives to provide consumers with nothing but the best-quality, durable and constructive products that they require for their catering, cleaning or other

related industries' needs. If you would like to get in contact and find out how their many specialist products can benefit you, then don't hesitate to pick up the phone today. More information on their vast product range can also be found by visiting the

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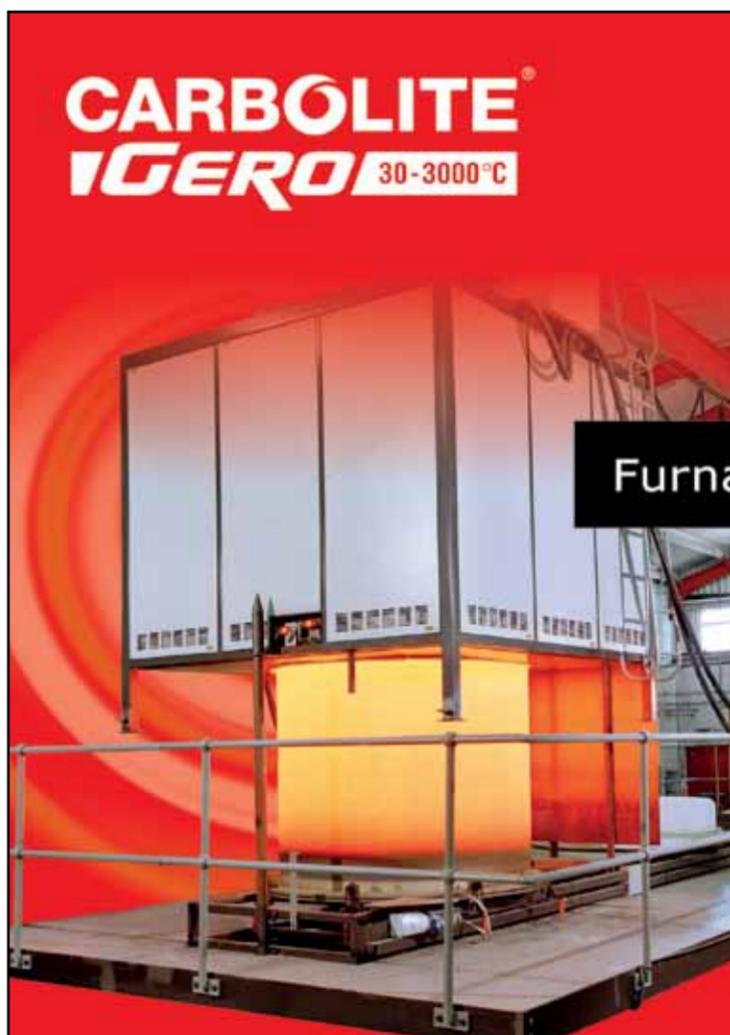


molecules which can alter the chemical and physical properties (porosity) of the final component. This inert process must be repeatable with a well measured gas flow monitored to achieve an AMS 2750E Classification specified by the customer.

Carbolite Gero's GPC MA/174 retort furnace has a working volume of 400mm x 400mm x 350mm, automatic on/off gas control using a Eurotherm 3508 controller and 6180 XIO data logger. Argon/Nitrogen gas flow and trace levels of oxygen in the retort's modified atmosphere are constantly monitored and the furnace accepts large build

plates from solutions such as Renishaw's AM 400 system.

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Carbolite Gero participated in the recent Advanced Engineering Show at the National Exhibition Centre in Birmingham where we officially launched our new GPC MA/174 Furnace - designed specifically for those involved with Additive Manufacturing.

Our knowledgeable team were on hand to discuss how our entire GPC MA range of furnaces assists Additive Manufacturers - particularly those who have selected Direct Metal Laser Sintering (DMLS) as their chosen 3D Metal Printing technology. DMLS can be used for very small parts and features and can reproduce geometries that might be impossible to machine such as enclosed spaces. Layers can be as thin as 20 microns and tolerances on small features can be as small as ±50 microns and the final parts require a heat-treatment solution with precise temperature uniformity. This ensures they adhere to the proper metallurgical properties of the selected metal alloy.

The heat treatment stage occurs in an inert (typically Argon) atmosphere to ensure the sintered part is not contaminated by oxygen

SPIROL

For SPIROL, 2017 was very successful, not only launching new product lines, but also being able to attract new customers from many different industries.

One of the new products we launched was the aluminium threaded insert, which supports the manufacturing industry's initiative of using lightweight, lead free products in an effort to reduce our global footprint. The patent-pending Series 60 Blind-End and Series 61 Through-Hole Inserts are designed to be placed into the mould cavity prior to plastic injection. They offer exceptional performance due to unrestricted plastic flow into the robust retention features on the outside diameter. In addition to being lead-free, they are 40% stronger and 33% lighter than the same Insert manufactured out of brass.

Apart from the Inserts, we experienced the growing popularity

of Compression Limiters and the need for special solutions and customised products. SPIROL was able to support a number of engineering teams our technical expertise and became the part of many innovative projects all over the world.

Another success was the opening of a new plant in Mexico, equipped in the state-of-art fasteners producing machines. Moreover, two of SPIROL's world class manufacturing locations have received the General Motors Supplier Quality Excellence Award for achieving operational excellence and quality control. This was SPIROL Connecticut's third year and SPIROL Canada's fifth consecutive year of receiving this prestigious award!

SPIROL is certain about its continuous growth in 2018. We have just launched an eCommerce for the US market, which already proved to open the company for new potentials. The next step

is to do the same in Europe, what we plan to do in the first quarter of the year.

It the next year SPIROL intends to develop the product range and continuously exceed our customers' satisfaction by delivering the best quality fasteners and excellent customer service.

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Safe Systems – Guaranteed



Aventics LU6 locking unit. (Photo: Copyright Aventics)

The LU6 pneumatic locking unit is an integral part of the Aventics safety philosophy

The expert for machine safety at Aventics takes the LU6 pneumatic locking unit as an example to explain the importance of safe components as the first step. The LU6 series can take on safety-relevant functions as both a static lock and a dynamic brake: The lock element can be used as a holding unit to block a movement and as a brake unit for emergency stop or off. Proper use has been verified by the IFA (Institute for Occupational Safety and Health) and documented with a DGUV test certificate.

Sensor and switching variants

Increase performance level

The second step in planning safety-related control parts is correctly integrating the components into the machine or system. Engineers take many different approaches to ensure machine safety. The opening and closing of the LU6 is monitored by an integrated sensor, increasing the degree of diagnostic coverage of the locking unit to 99% and resulting in a higher performance level. "For all of our safety-relevant components, we provide not only the relevant reliability ratings such as MTTFD, B10, or PFHD, but also circuit examples for different mounting orientations – all online," explains Blume. These examples were given a positive rating by the IFA, the Institute for Occupational Safety and Health of the German Social Accident Insurance.

Aventics will highlight the topic of machine safety at drinktec 2017, stand 327 in hall A3. The world's leading trade fair for drink and liquid food technology will be held in Munich from September 11 to 15, 2017.

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Grips wood, cardboard and glass



Aventics has launched a new vacuum generator: The latest generation of the multistage injector is said to be lighter, quieter and easier to use than the previous series.

Installation of the multistage ejector is straightforward. Any mounting orientation is possible and only two lines have to be connected for compressed air and vacuum. The modularly designed multistage ejector is also easy to disassemble which simplifies cleaning. Less weight and noise are further advantages of the new product, which is available with a base body made of sturdy plastics. Two nozzle cartridges can be integrated; depending on the housing module, and up to three modules can be lined up to increase output if required.

The new multistage ejector is available in two variants: The high-flow (HF) version is suitable for permeable material, for example, to transport particleboard and wooden pallets in the woodworking industry. In the packaging industry, it is used in the handle cardboard and boxes.

The high-vacuum (HV) variant is said to ensure a consistently high vacuum and has been designed for non-permeable and smooth material, for example, in glass or metalworking.

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Based in East Grinstead in the UK, Precision Technology Supplies Ltd (PTS) is a company dedicated to the provision of stainless steel

screws, nuts, bolts, washers and precision turned parts. The leading trader has more than 28 years of experience working within the industry and boasts the largest range of high quality Stainless Steel Metric and American threaded fasteners from stock.

Because of its extensive offering and great deal of expertise in its chosen niche, PTS has become one of Europe's most significant suppliers of Stainless Steel industrial fastenings and precision turned parts. Its selection is incredibly far-reaching, and includes the following items: nuts, hexagons, shoulder screws, studs, self-drilling screws, retaining rings, drive bits, washers, machine screws, slotted grub screws, knurled fasteners, woodscrews, screws for plastics, rivets, allied products, socket screws, security screws, pins, self-tapping screws, chipboard screws, pipe plugs and Bumax. As well as its impressively vast selection of accessories, PTS can bring to the table almost three decades of experience in the management of an increasing number of customer production lines and, with its knowledge of Direct Line Feed operations, the team of professionals can competently provide solutions appropriate to unique client applications.

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2018	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri
JAN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
FEB				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
MAR				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
APR							1	2	3	4	5	6	7	8	9	10	11	12	13
MAY		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
JUN					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
JUL							1	2	3	4	5	6	7	8	9	10	11	12	13
AUG			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
SEP						1	2	3	4	5	6	7	8	9	10	11	12	13	14
OCT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
NOV				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
DEC						1	2	3	4	5	6	7	8	9	10	11	12	13	14



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20	21	22	23	24	25	26	27	28	29	30	31							JAN
17	18	19	20	21	22	23	24	25	26	27	28							FEB
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				MAR
14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		APR
19	20	21	22	23	24	25	26	27	28	29	30	31						MAY
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30				JUN
14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	JUL
18	19	20	21	22	23	24	25	26	27	28	29	30	31					AUG
15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30			SEP
20	21	22	23	24	25	26	27	28	29	30	31							OCT
17	18	19	20	21	22	23	24	25	26	27	28	29	30					NOV
15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		DEC

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Protective fabric technologies

INVISTA's CORDURA® brand is broadening its portfolio of protect performance fabric technologies suitable for today's workwear environments.

The latest additions on display at the A+A Show will range from flame retardant solutions featuring CORDURA® fabric technology for enhanced durability to specialist stretch materials for garment reinforcement.

Combining science and technology to provide technical performance solutions for workwear, these innovations support the brand's commitment to developing durable fibre and fabric technologies designed to help people "live durable".

Cindy McNaul, global CORDURA® brand and marketing director, said: "In collaboration with our strong mill partners, we are dedicated to developing cutting edge solutions that power the work and protectiveness of the future."

About CORDURA® Brand
INVISTA's CORDURA® brand essence celebrates individual durability: As Long As The World Is Full Of Durable People, We'll Keep Making Durable Fabrics™. Known for its resistance to abrasions, tears and scuffs, CORDURA® fabric is a primary ingredient in many of the world's leading high-performance gear and apparel products ranging from luggage, upholstery and backpacks to footwear, military equipment, tactical wear, workwear and performance apparel. The CORDURA® brand is a registered trademark of INVISTA, one of the world's largest integrated polymer, intermediates and fibers businesses. To distinguish the CORDURA® brand, the word "CORDURA®" must be spelled out in all caps and used with an

®, and it must be followed by the word "brand" or "fabric."

About INVISTA

With leading brands including LYCRA®, COOLMAX®, CORDURA®, STAINMASTER® and ANTRON®, INVISTA is one of the world's largest integrated producers of

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than 20 countries and has about 10,000 employees.

Get in touch with a member of the CORDURA team.

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It's a big job and the pressure's really on. You're pushing hard to get things done – which could quite literally bring you to your knees. And that's where the problems start with your workwear, because it's the knees that can take most of the punishment on site – along with the trouser seat, hems and pockets.

So the last thing you want is to run the risk of any embarrassing letdowns. If your pants come apart, things aren't going to look good. That's why you need reinforcements you can rely on, in all the right places.

And that's exactly what you get with CORDURA® fabric reinforcements.

CORDURA® FABRIC TO THE RESCUE

What is CORDURA® fabric, and what difference does it make? It's a hardwearing fabric that's made with specific high tenacity nylon fibres so it's super tough and super resistant. The perfect solution for reinforcing all the key stress points in trousers worn day after day in some of the most demanding work environments. So when "heavy duty" is the order of the day, CORDURA® fabric really does do its duty where durability counts.

IT'S A TOUGH JOB, BUT SOMEBODY'S GOT TO DO IT

CORDURA® fabrics are designed for living and built to last. Offering excellent abrasion resistance and great tensile strength, these fabrics are ultra-strong and more hardwearing than other fabrics used to reinforce workwear trousers, yet light in weight and easy to wear. So work trousers reinforced with CORDURA® fabrics can put in a hard day's work, including the tough job of being smart looking, easy to wash, and comfortable to wear even when working in some seriously difficult conditions. CORDURA® fabrics are designed to ruggedly resist tearing - and shrug off ultra-aggressive scuffs and scrapes.



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Stamping out discrimination: clear policies are the key



Creating a working environment that is free from discrimination is a continual challenge for employers. Responsible businesses have a duty to provide equality and diversity in the workplace, where employees and customers are treated fairly and equally regardless of colour, race, age, gender or beliefs, while valuing the differences each individual brings.

EssentialSkillz offers an Equality and Diversity eLearning Course, which explains the importance of the Equality Act 2010 to the workplace and highlights the need to ensure that there is no discrimination in your organisation, regardless of age, disability, gender reassignment, marriage and civil partnership, pregnancy and maternity, race,

religion and belief, or sex and sexual orientation.

As with all courses from EssentialSkillz, the Equality and Diversity eLearning course can be tailored to the needs of the organisation at no additional cost. Course content can be updated using the integrated authoring tool. Once the training has been provided an Equality & Diversity Policy can be easily distributed to all staff using the WorkWize policy roll out module to ensure they have both understood the training and accept the policy.

The Equality and Diversity course is available as part of the Business Protection Pack for Corporate Customers or on a Pay as You Go (PAYG) basis for SME customers: www.courses123.com

Funding defibrillators



Lanes Group has been shortlisted for the UK Heart Safe Awards in recognition of its commitment to fund defibrillators in its workplaces and in schools.

The drainage specialist has been shortlisted in the construction company category of the awards, organised by the Hand on Heart charity. Under its Saving Lies is Close to Our Heart programme, Lanes is funding automated external defibrillators, and life-saving training, for its offices and depots and for nearby schools.

Group health, safety, quality, and environmental manager Paul McParland said: "Health and safety is absolutely paramount to what we do as a drainage service provider, and as a company that cares about the wellbeing of its people and the communities we serve. Funding defibrillators and training to use them makes a lot of sense to us."

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Carrington Textiles

Carrington Textiles is one of Europe's largest workwear suppliers and supports many of the world's largest employers - including McDonalds, UPS, BUPA, Coca Cola and Jaguar Land Rover - in sectors spanning heavy industry to healthcare. A leading producer of fabrics for the personal protective equipment (PPE) market, the company can trace production at its factory in Adlington, Lancashire, back to the dawn of the industrial revolution.

Carrington's current product range meets demand across four main areas: general workwear, flame retardants, waterproofing and the defence sector. Combined, these products protect workers in almost every possible environment imaginable, safe-guarding against static electricity, welding sparks, electric arc, chemical splash, acid solutions, heat, cold, bacteria, mosquitos and much more. Many workers in these industries

require a fabric that provides protection against wet weather one day, and breathability in hot and sweaty working conditions the next, combining safety with comfort when operating in the most extreme environments.

As an organisation, Carrington is fully committed to finding new ways to improve worker safety, comfort and pride, and is constantly pushing the boundaries of what's possible.

Earlier this year, Carrington launched a breakthrough flame retardant fabric: Flametech 300AS. Available in five separate colours - including high vis orange and hi vis red - Flametech 300AS delivers a durable, washable and comfortable fabric providing additional multi-functional protection to workers operating in all environments. Suitable for industrial laundries, Flametech is a real game-changer in protective clothing - and just one of



the ways Carrington has cemented its status as a market leader.

With 242 employees in the UK, and 17 people working in offices in France, Germany, Hungary and Hong Kong, Carrington produces 50 million metres of fabric each year. Operating in more than 75 countries worldwide, turnover is projected to exceed £125m by 2020.

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Marine News

North Sea Winches Ltd



North Sea Winches Ltd offer complete in-house, manufactured winch designs and specialise in tailoring each project to suit the individual requirements of their customers.

Based in Scarborough on the UK's North Yorkshire Coast, the company concentrate on the design and manufacture of marine, offshore, oil and gas, and onshore industrial winches plus other equipment to match their client's necessities. Now world-renowned as market leaders in the design and manufacture of modern winch technology. With over 40 years' worth of experience and trading in the industry, North Sea Winches have implemented lessons learnt in the harsh environment of the North Sea to provide customers with dependable, reliable, hardworking, cost effective machinery. Certified as ISO 9001-2008 for Quality Accreditation, North Sea Winches also offers comprehensive worldwide spares and service backup, in order to guarantee customer satisfaction through every step of their project.

Committed to providing an outstanding service to clients, North Sea Winches go to great lengths to ensure that no matter the application, each client is getting the most out of their equipment. For this reason, North Sea Winches Ltd are happy to provide clients with any support that they may need throughout the operating life of the equipment. North Sea Winches Ltd always work closely with their customers.

More information can also be found by visiting the website below:

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Specialist Safety Equipment by Hughes



Hughes Safety Showers was established in 1968 by John D Hughes. Their manufacturing head office is in Bredbury, Stockport. The company also have offices in France, Germany, USA and the Middle East, plus a network of global distributors.

The company was founded when an employee of John D. Hughes, Charlie Gamble, accidentally stepped into a tank containing a sulphurous mixture, causing burns to his foot and leg. The only decontamination facility they had on site was a



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5TD-450P



5TD-1000P

www.hughes-safety.com



domestic cast iron bath half full of contaminated water. This startling incident drove home for them the importance of workplace safety, and prompted the company to develop a range of emergency safety showers and eyebaths.

Today, Hughes Safety Showers is Europe's largest manufacturer of emergency safety showers, eye and face washes, and decontamination equipment, designed to operate across all industries regardless of location, climate or local hazards. They have 50 years of manufacturing experience, a wide product range to cover all industries and environments, excellent service and support, and even design distinction and compliance with ANSI and BS EN standards. Hughes Safety Showers have a broad selection of clients and customers, ranging from the oil and gas industries to petroleum, water utilities, manufacturing, pharmaceutical, mining, waste, emergency response and many more.

The Hughes team have recently returned from A+A, Dusseldorf showcasing their new wireless solutions and will be attending Preventica, Strasbourg and ADIPEC, Abu Dhabi in 2017. The Justrite Group acquired Hughes Safety Showers in May 2016. Justrite President and CEO, Mark McElhinny, says, "With our history of delivering quality products for storing and handling hazardous materials, it makes logical sense to enhance the offering, and with Hughes, there is no better way."

Contact
T 0161 430 6618
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Experts in Microwave Power



TMD was first set up in the 1969 and went through a series of changes before establishing themselves as a fully independent private UK company, and now a global leader in microwave tubes, high voltage power supplies, and transmitters for Radar, EW, Communications, EMC RF testing and more.

They are specialists in microwave power and provide everything

from transmitters to microwave amplifiers, microwave tubes, rugged amplifiers, and power supply design. Their products can be found in a variety of applications, having scientific, medical and military uses. In its ambitious and award-winning Research and Development Engineering department, TMD produces a wide range of innovative products, generating ingenious solutions to some of the most complex client requests. One of these included manufacturing an ultra-low noise power supply for the US Army's Sentinel battlefield surveillance radar, for which TMD received a UK Queen's Award for Innovation.

As for the new and upcoming innovations, Publicity Manager Heather Skinner of TMD explained, "We are working on a range of new microwave power modules (MPMs) which are extremely compact but still provide high power. These are especially valuable for airborne platforms or any situation where low weight and small volume are an advantage. Typical applications are

radar, EW and communications."

Some of TMD's many services include precision machining, chemical cleaning using only approved solvents, heat treatments under a variety of conditions, brazing in hydrogen, nitrogen or vacuum, precision assembly and high precision laser welding. TMD also has a robust after sales support service which includes planning help, installation, training clients in how to properly operate machinery, troubleshooting issues, maintenance, upgrades, repair and even safe disposal.

TMD recently attended the DSEI Defence and Security exhibition in London where they showcased many of their impressive products and services.

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At-line near-infrared analyser



NDC Technologies, a leading global provider of precision measurement and control solutions, offers the InfraLab e-Series at-line analyzer for the accurate and reliable measurement of Degree of Bake (DOB) or Brownness in biscuits, crackers, cookies and snack foods.

Taste, texture and appearance are all key quality attributes that determine the success of a food product in the market.

Testing of the product during the manufacturing process for moisture and colour is important to ensure final product consistency and 'freshness,' but testing typically requires the use of multiple analytical technologies which are often located in a laboratory remote from the production line.

NDC Technologies has integrated its proven DOB or Brownness measurements into the InfraLab At-Line Analyzer to provide simultaneous measurements of Moisture, Oil and DOB in five seconds.

With no special skill required to operate, the InfraLab delivers process vision far beyond that of conventional testing. This provides unprecedented feedback to the process controller, for improved control of Moisture, Oil and DOB which offers financial benefits such as:

- Reduced start-up times and scrap
- Production of more consistent, within specification product (minimise 'checking')
- Improved operating efficiency
- Acrylamide mitigation

The DOB measurement is designed to closely imitate the response of the human eye to changes in brownness and the readings used as highly repeatable and dependable real-time feedback to the process controller.

Contact www.ndc.com/food

Total IA Ltd



and engineering consultancy. To date they have secured orders across multiple industries including Security, Military, Oil & Gas and Healthcare.

At the heart of TIA's expertise is Product Qualification Testing to the toughest government and military standards.

Total IA Ltd is a UK owned engineering company with a focus on developing and building innovative products. The company has been formed by a small team with a proven track record in the design, manufacture, test and support of secure and ruggedised electronic equipment for government and military customers. From their Gloucestershire headquarters, TIA is developing a suite of products and a worldwide customer base for whom it provides turnkey solutions, bespoke product developments, contract manufacturing

As a team they have successfully delivered bespoke products to meet the UK military's EMC and environmental test standards, Def-Stan 59-411 and 00-35. TIA has over three decades of experience in understanding, designing and testing to meet these standards and in-house EMC test capabilities provide effective design evaluation minimising programme schedules and reducing risk at test houses. With this EMC and RF engineering expertise TIA consultancy services can manage or support test programs to government or commercial qualification standards,

producing qualification plans and reports or provide design solutions to test failures. They can also support companies in meeting the HSE legislation for EMF Directive protecting workforce.

As an engineering team TIA has many years' experience developing innovative product solutions which they can then engineer into successful products. Using modern prototyping techniques and working closely with their supply chain they can produce prototypes and low volume production runs to meet the most challenging timescales.

Whether working with government departments, multi-national OEMs or small commercial companies TIA is able to draw on its experience of designing and testing to the most stringent qualification standards to ensure product development programs are delivered successfully.

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The specialist cleaning company was first set up back in 2015 and is located in Selby. RBL is centred around providing the best quality cleaning detergents with minimal environmental impact. It prioritises using only the best and most effective natural ingredients which still deliver powerful cleaning results.

RBL's Five Cleaning Product Ranges include floor cleaners, stainless steel cleaners, heavy duty cleaners, fridge cleaners and the best-selling multi-purpose cleaners. They also offer a 500ml spray bottle which has seen popular application in a number of sectors for household, domestic and commercial use. Not only are all of RBL's first rate cleaning items child and pet friendly, but they also contain no volatile organic compounds and no micro beads. As such they are much better for the environment and oceans, and contain no toxins. That's not all however, as the products come in biodegradable bottles which encourages recycling and does not end up in land fill.

If you are seeking industry leading cleaning products which are safe for home use around children or pets, then be sure to get in contact with RBL Laboratories LTD or check out their website.

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CorDEX Launches Brand New TOUGHPIX DIGITHERM Camera Series



combined with the capable 80x60 IR image opens up many application areas. Problem hot spots are easily made visible and located accurately in tough environments."

available through select distributors and directly from CorDEX Instruments. To buy the TOUGHPIX DIGITHERM or to learn more about the series, please visit

The TOUGHPIX DIGITHERM series is

www.cord-ex.com

CorDEX Instruments have announced the release of the brand new TOUGHPIX DIGITHERM camera series, comprising of a world's first - an intrinsically safe thermal and digital camera, and a non-intrinsically safe version. Offering ground-breaking affordability in exchange for an impressive array of features, the TOUGHPIX DIGITHERM series sets a new industry standard for delivering a compact and lightweight yet rugged thermal imaging device. The new cameras allow users to quickly detect issues, conduct accurate measurements and document findings for remedial action.

The TOUGHPIX DIGITHERM cameras feature a rich set of new hardware, software and technical specifications designed from the ground up to set the highest standard in the industry. Manufactured from lightweight but tough, aircraft grade aluminium, every single component in the TOUGHPIX DIGITHERM has been selected with one goal in mind - quality that's built to last.

With its industry leading, 5 megapixel visual sensor and ultrabright LED flash, TOUGHPIX DIGITHERM takes crystal clear, high resolution digital images in broad daylight as well as darker environments. Not only this, but the cameras include a thermal imaging camera, meaning its dual functionality is the perfect hybrid for any occasion. Additionally, the cameras offer adaptive thermal blending, WIFI, onboard analysis tools, a removable memory card and removable battery.

Douglas Walker, Research Director said "CorDEX have pioneered an intrinsically safe dual mode radiometric camera. DIGITHERM provides digital and thermal imaging in a compact tough package with a low entry cost. The high resolution visual image



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The team of specialists at Alpha all have years of experience assembling converting machines which includes equipment such as slitting machines, winding equipment, spooling machinery, salvage doctor machines, trim winders, and even bespoke converting equipment.

Over the years we have manufactured many different machines and equipment that are used for the converting industry. It all started with the high speed spooler which launched in 1999 to the more modern pieces of converting equipment like the automatic winder and the traversing spooler.

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This year BIGDUG will be exhibiting for the first time at the Business show on 16-17 November at Olympia London. The team are hoping to bring many storage solutions for their prospect customers in order to help them along their journey of expanding.

To find out more please call 01425 221 445 or email keyaccounts@bigdug.co.uk for a no obligation quote on how BIGDUG can help you.

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From shelving and racking to storage and packing, BIGDUG has your storage solutions covered. Whether you're looking to kit out a warehouse, stockroom, factory, industrial unit or garage, the highly experienced team help customers get organised, saving them both space and time.

Established in 2004, the company is part of the global business equipment group, TAKKT and is based in Gloucester and Mitcheldean.

"Our vision is simple; great products, great prices and great service," commented Managing Director Emma Bateman. "All of our shelving and racking products are manufactured to the highest quality standards, are extremely durable and are able to withstand considerable loads.

We consistently offer the most competitive prices across our full range of products, and buying in bulk means BiG discounts; quite simply, the more you buy, the more you save.

"We have also just launched our new website, which is being done as part of our re-branding but also to help our customers have a better customer experience by making the site more user friendly and easier for customers to find exactly what they need.

Excellent value for money and friendly, expert customer service



Full steam ahead for CML as it welcomes its first rail freight delivery into the UK from China



CML is pleased to announce that it has successfully completed its first ever rail freight delivery from China. With the advantage of being cheaper than air freight and faster than sea, CML made the decision to utilise rail freight following a request to transport heavy weight, high value production

Manager, Pat Treanor, confirms:

"When our client came to us to find out whether we were able to find a form of transport that was not only able to move heavy weight, high value

parts for a client that was faced with a production line stop, had the goods not arrived within 28 days.

The 4,957-mile inaugural journey along parts of the old Silk Road from Shenyang in China to Duisburg in Germany took 18 days to complete, nearly two weeks quicker when compared to general far east sea freight, and provided CML with the perfect solution when it needed to move its clients stock quicker as CML's Freight Operations

production parts, but also within a certain time frame, rail freight provided us with the best option. By using rail freight, we found a middle ground between cost and speed of delivery, meaning that we were not only able to offer great value for money, but it also meant that the goods could be moved much quicker when compared to using sea freight.

"This is not only the first time we have utilised a rail freight service from China to Europe, but it is also the first time our client has made this their preferred option. We're delighted with how our first rail delivery has gone and we look forward to using this form of transportation for many more of our clients in the future."

Having successfully managed the process of transporting its client's products from China to the UK within the timeframe, CML has subsequently booked three additional rail freight containers for this client. To find out more information about CML's freight forwarding services, please visit <http://www.cmlplc.com/freight-forwarding>

Particle Testing & Manufacturing



Particle Technology is a world class reliability test house servicing the automotive, aerospace, medical, defence, pharmaceutical and telecommunications industries. Founded in 1991 by Ron Buxton, BSc, the initial focus was test dusts and archival products.

Sadly, Ron passed away in 2013 and the company is now headed up by Greg Spicer, M.Eng, Managing Director and Sue Gregory, Finance Director. Greg joined the company in 2003 working alongside Ron where the environmental testing journey began. After lots of hard work and long hours, Particle Technology now has two of the largest sand and dust testing chambers in Europe.

All testing is conducted in accordance with ISO 17025 and accredited by UKAS and abides by the requirements of all major specifications including: MIL-STD-810 G 510.6 Proc I & II, DEF STAN 00-35, Pt 3, iss 5 CL25, BS EN 60529:1992 +A2:2013, ISO 20653:2013 and RTCA DO - 160B-C Section 12. These specifications

include blowing, dust and sand in addition to turbulent and settling tests.

Particle Technology also offer cleanliness testing, particle identification, fuel contaminants and test dusts which are all produced at their site in Hatton, Derbyshire.

The most recent addition to the company's profile, which Greg is very excited about, is the launch of their EN779:2012 Air Filter Testing facility, which was fully UKAS accredited to ISO 17025:2005 in August. They are also well underway to extending this service to include ISO 16890:2016 parts 1-4 and the UKAS inspection is scheduled for November. The Filtech Exhibition in Cologne last year was a huge success, and Particle Technology will be exhibiting again in March 2018 to promote the extended service and to build on their customer database.

For more information please visit our website www.particletechnology.com or contact sales@particletechnology.com

Biopharma Group - Experts in Freeze Drying and Associated Technologies



Biopharma was established in 1989 as a specialist provider of equipment for the pharmaceutical, biotech and process industries. Supplying across the UK and internationally, their products encompass from freeze drying equipment to processing equipment such as aseptic processing lines and volumetric powder fillers, evaporation technologies, analytic instruments and much more.

The Biopharma Group has numerous arms and specialisms, such as the equipment sales sector (UK & Ireland), their renowned lab services consultancy (international), Biopharma Technologies France (BTF), BPS Crowthorne (Ireland) and Crowthorne Hi-Tec Services (CHTS).

The equipment sales team aim to meet the needs of their clients by offering unmatched experience and knowledge in supplying devices and services such as production freeze dryers, leading evaporation equipment from Genevac, high

pressure homogenisers and associated technologies. As well as having strong links with suppliers, the company also offer training courses and have an on-site freeze drying laboratory facility.

The lab services consultancy offers analytical lab services as well as advice and training on dry freezing equipment, demonstrating how to get the most of products and ensure they are operating to maximum efficacy. Biopharma experts provide on-hand assistance, ensuring all client projects are a success. In addition to this, they hold training courses worldwide to enhance client knowledge of products and the latest practices.

As for Biopharma Technologies France (BTF), this division provides assistance and guidance across a selection of products, plus analysis and consulting and an after-sales support service. They aim to provide reassurance for customers and as such are always contactable via the 'contact us' tab online.

For clients seeking servicing and/or validation services in cleanroom or containment facilities, Crowthorne Hi-Tech Services offers an independent, committed service that is both timely and cost-effective. They specialise in containment facilities, cleanrooms and clean air devices and have recently acquired the parts divisions of Labcaire and Bioquell (Microflow).

For further information or general enquiries, please visit the Biopharma website. Alternatively, you can contact the company via telephone or email.

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Renold Couplings was first established in 1946, where the company acquired a factory in Cardiff; Renold Couplings began to manufacture in 1947 and had celebrated their 70th Birthday earlier this year. Renold Couplings is a division of Renold PLC, which is an international group delivering high precision engineered power transmission products to its customers worldwide. From its purpose built factory in Cardiff, Wales, Renold Couplings design and manufacture couplings and clutches. The company offer solutions for industries such as construction, food, energy, transport, manufacturing, mining and more, and are proud to say they now operate in 23 countries.

Producing a wide selection of power transmission components, the company is renowned for its high quality and variety. Renold Couplings are able to supply a comprehensive range of high-quality couplings including rubber-in-compression, torsionally rigid and torsionally flexible couplings as well as sprag and trapped roller clutches.

Clients around the world turn to Renold Couplings for their products, which can be used in an array of applications, including cement making, chocolate manufacturing, subway trains, power stations, escalators and quarries - anywhere something needs to be lifted, moved or rotated! When it comes to maintenance, in addition to the safety and reliability features, the rubber-in-compression couplings is both time-saving and cost-effective. Better yet, they are 'fit and forget' and do not require lubrication or adjustment of any kind. The only serviceable items are Renold Couplings' rubber blocks, which in the majority of cases are suitable for use even over a ten year period.

When it comes to Power Generation Couplings, Renold Couplings' RBI range is highly sought after by multiple industries, including rubber processing, plastics, fluid transmission, cranes and hoists, bulk and material handling, pulp and paper and many more. Used in heavy-duty machinery to control resonant torsional vibration, the RBI is a highly integrated component that boasts severe shock-load protection, misaligned capability, is maintenance free and low in cost.

For further information or general enquiries, visit the [Renold Couplings website](http://www.renold.com). Alternatively, you can contact the company via telephone or email.

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