

Best Practice



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The Bactiscope™ from EIT International

NEW TO MARKET - NOW AVAILABLE

The Bactiscope™ is a reliable and portable bacteria and biofilm detection system that instantaneously identifies areas harbouring bacterial contaminants such as E.coli, Listeria and Salmonella, in pipework and other awkward to access areas of production lines and processing sites.

The Bactiscope™, like its companion products, the Bactiscan™ and BactiscanPRO™, uses environmentally friendly and safe to handle wave-alternating UV light sources to instantaneously identify areas harbouring bacterial contaminants. The beauty of the Bactiscope™ is that the inspection camera as part of a flexible probe system (in cable lengths of 1m, 2m or 5m) gives you the freedom to inspect and investigate areas that would normally be inaccessible for standard cleaning and inspection protocols.

Many contaminants are often undetectable using other methods such as white light and standard single UV source lamps. With Bactiscope™ you can illuminate the entire internal surface of pipework and receive an immediate result; within seconds you can detect contamination sites for testing and remedial works that would not normally be identified using less sophisticated methods.

Production & Facilities Managers are relied upon to make a critical decision every day; namely whether to start processing and production runs or not. For each hour on hold for cleaning or investigations, any

potential revenue is lost. If the full production line is conducted using a piping process or has a processing surface that hasn't been adequately cleaned, the risk of contamination and costly recalls (or worse) increases dramatically. With its unique wave-alternating UV system, the Bactiscope™ enables Managers within production facilities and maintenance teams to immediately locate and isolate biofilms, mould and bacteria and many other contaminants; Bactiscope™ makes the identification and remediation job much faster and therefore more cost effective than many alternative methods.

For further information on Bactiscope™, please contact your regional EIT International product partner. If you don't see a product partner for your country, please use the contact form above the list

www.eit-international.com



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interface
FORCE MEASUREMENT SOLUTIONS.
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The Industrial Solution in Hand Protection Development



The Industrial Solution in Hand Protection Development
 Manosun is a brand-new innovative company that designs and manufactures an innovative range of quality industrial hand protection available for all industrial applications.

Developed in 2020 from the aftermath of the first COVID-19 lockdown, Manosun is the brainchild of Steven Patterson with the support of his factory sponsor. Located in the North East of England in South Shields, Tyne & Wear, Manosun works closely with its manufacturers in China to bring product development and innovation to the UK market.

Breaking the mould of traditional offerings, Manosun's core range of hand protection is designed to bring a change to the end-user experience with industrial gloves, gauntlets and sleeves that offer a safe and perfect fit for anyone that requires Personal Protective Equipment.

Steven added, "Manosun have the ability to work on small MOQ's from our sponsor factory in China and the ability to develop new products for an ever-changing work environment offering products where 'not all solutions are off the shelf'. From ARC, Impact, FR. CUT and General handling applications, our products are the ideal solution for a range of industries from Utilities, Oil & Gas, Electronics and Automotive, to Maintenance, Hot Handling, Circuit Boards, and Renewable Energy."

Of course, its not just its versatile application that makes Manosun's products stand out from the rest. Their long-lasting durability is down to the high-quality materials that are used for all its products. Every product offers extra flexibility and dexterity that ensures minimal hand fatigue, and because of its 360° breathe technology, all products have the ability to keep hands cool while working.

"We also offer case quantities that is much lower than any of our competitors, and because we are a company on the rise that has the capabilities to develop and tweak products to make them more suitable to our client's requirements, we can deliver a more personal service that is tailored to suite the end-user. As we continue to grow throughout the UK, we will be advertising to employ our field sales team for the North (Scotland) and the South," stated Steven.

For more information, see below.
T 07468 904 409
steven.patterson@manosun.co.uk
www.manosun.co.uk



THE FIRST POINT OF PROTECTION

OUR GLOVE RANGE INCLUDES

ARC

Primarily developed for electrical ARC flash protection, our range of gloves offer many other benefits.

IMPACT

Designed to protect the user's hands from injury if their grip was to slip or tools that are being used fail.

CUT

A range of industrial cut resistant gloves that offer comfort to the user and cost effective solutions.

SPECIALITY

Our specialist range of gloves protect the user in various environments including cold and chemical-based.

GENERAL

The general handling glove range has been made from the best quality materials.

BASIC

A quality economy, sustainable range to compete in a market of own-brand price-fighter gloves.

Manosun Hand Protection

A manufacturer and designer of industrial safety products

- Manosun was created during the 2020 global pandemic when industry took an all-time low in productivity.
- Located in South Tyneside, the co-creator of the brand has over 16 years of industrial product development and 15 years within manufacturing including Health & Safety.
- Our aim is to target the huge UK manufacturing sectors as well as power generation and conservation and offer a quality service, product and development ability, not all solutions can be found off the shelf.
- We work with your traditional distribution supply chain so no need to work outside of any contractual obligations, you are free to develop and select your PPE requirements.
- Manosun Ltd is also a member of the BSIF a sign and seal of quality and products that fulfil all UK and EU requirements of test and design.

Talk to Manosun for all of your hand protection needs

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Web: www.manosun.co.uk

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MANOSUN

Blackline Safety and Access Technology Group partner for confined space monitoring

Calgary, Canada — Blackline Safety Corp. (TSX: BLN) ("Blackline" or "Blackline Safety"), a global leader in connected safety technology, today announced it has partnered with Access Technology Group, a Dutch innovator in digital shutdowns and turnarounds, to integrate Blackline's G7 EXO portable area gas monitors with Access Technology's VISICS Digital Confined Space Monitoring system.

"Blackline Safety has over 1,000 customers around the world and through this partnership we are now able to link our equipment and live stream gas readings to the VISICS platform to support the new best practices of confined space monitoring and deliver even more value to our customers," said Brendon Cook, Chief Partnership Officer, Blackline Safety.

Confined spaces are challenging working environments. Identifying the hazards involved then taking proactive steps to prevent them and minimize risks is paramount. Minimizing risks starts with knowing who's inside a confined space, for how long, and monitoring the atmospheric conditions within it.

The VISICS system takes information from workers' badges and communication devices to manage and monitor their entries into confined spaces. Live camera feeds both inside and outside the space enable remote teams to centrally monitor each confined space and

all activities inside and out.

Now, through the integration of Blackline's G7 EXO area gas monitors into the solution, the equipment can communicate directly with the VISICS network streaming gas readings sampled from within a confined space to add another layer of proactive safety monitoring and protection during turnaround and shutdowns.

"Integrating with Blackline Safety is a wonderful opportunity for VISICS as it allows us to offer Blackline's top-of-the-line technology while maintaining the same familiar look and feel for VISICS operators," said Rene Slegers, CEO of Access Technology Group.

VISICS is the market leader in digital confined space monitoring, providing services to the most well-known industrial energy clients in over 15 countries through direct business and well-developed local partnerships. Blackline Safety worked with Access Technology Group and its North American distribution partner, InfoSignal, to develop an EXO hard-wired data interface to deliver real-time gas readings into the VISICS network. The technology was then trialed at several customer worksites to ensure a seamless integration.

Contact www.blacklinesafety.com



Bradshaw EV release two industry leading electric vehicles

Established in 1976, Bradshaw Electric Vehicles (Bradshaw) have been manufacturing and distributing electric vehicles, producing some of the safest, most robust and versatile products. As the UK's largest manufacturer of electric vehicles for industry, Bradshaw specialises in delivering electric transport solutions that help reduce costs and improve efficiency.

"Our range includes electric road vehicles, utility vehicles, people carriers, tow tractors, load carriers, walkalong tugs and bin trailers which are supplied to companies for a variety of applications including, waste movement, manufacturing and line feed, logistics and distribution, hospitals, railways and airports. If a client has the need to transport goods, then we can supply a tailor-made vehicle to suit their requirements," stated Ramsy Labassi, Marketing Manager.

A note-worthy addition within their range is their third generation T800, the leading four-wheel, 8-tonne tow tractor on the market. Providing an endless number of capabilities, the T800 is very popular and used for baggage towing in airports and many other applications. Some T800 product features include electronic steering, enhanced suspension, a new front axle, larger wheels,

new brakes, and a redesigned cab.

Ramsy commented, "We have replaced hydraulic steering with electronic power steering, the leaf spring suspension has been re-configured, and we have also added a few aesthetic changes such as a soft-touch panel and instruments on the inside of the vehicle. It comes with a range of cab options and is the most robust, reliable and durable machine we have built that uses a low maintenance AC traction motor for more power whilst reducing costs and downtime."

In other news, The Goupil G6, a 100% electrical utility vehicle is now available in the UK. The new addition expands the Goupil family, making the G6 a credible, environmental and economical solution for the sub-3,500kg market. The Goupil G6 boasts generous payloads and volume, a novel design that incorporates unprecedented body mounting options, and an unrivalled unique cab and driving position that is the best on the market for ergonomics and comfort.

"The Goupil G6 will be an instrumental part of our growth in 2022 and will have more options added in the year. We are also excited to release the PT2500, which is a

fully electric, remote-controlled pedestrian-operated tow tractor designed for moving articulated lorry trailers up to 25 tonnes. It's an ideal partner for manufacturing and distribution applications or anyone working in logistics and distribution," said Ramsy.



Bradshaw's vast customer base has expanded immensely over the years by the increasing investment, innovation and commitment given to producing a strong product portfolio and a trustworthy service.

Ramsy commented, "We offer a first-class service, aiming to match the right vehicles to the right job. We are the authorised dealer for Club Car and offer many other services such as leasing or hire of our vehicles. We strive to deliver the best after-sales service possible from quickly dispatching spare parts to offering on-going maintenance contracts to keep customers vehicles running smoothly."

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NEW PT2500 REMOTE CONTROLLED ARTICULATED TRAILER MOVER

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

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

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

WWW.BRADSHAWEV.COM/PT2500
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BRADSHAW
ELECTRIC VEHICLES



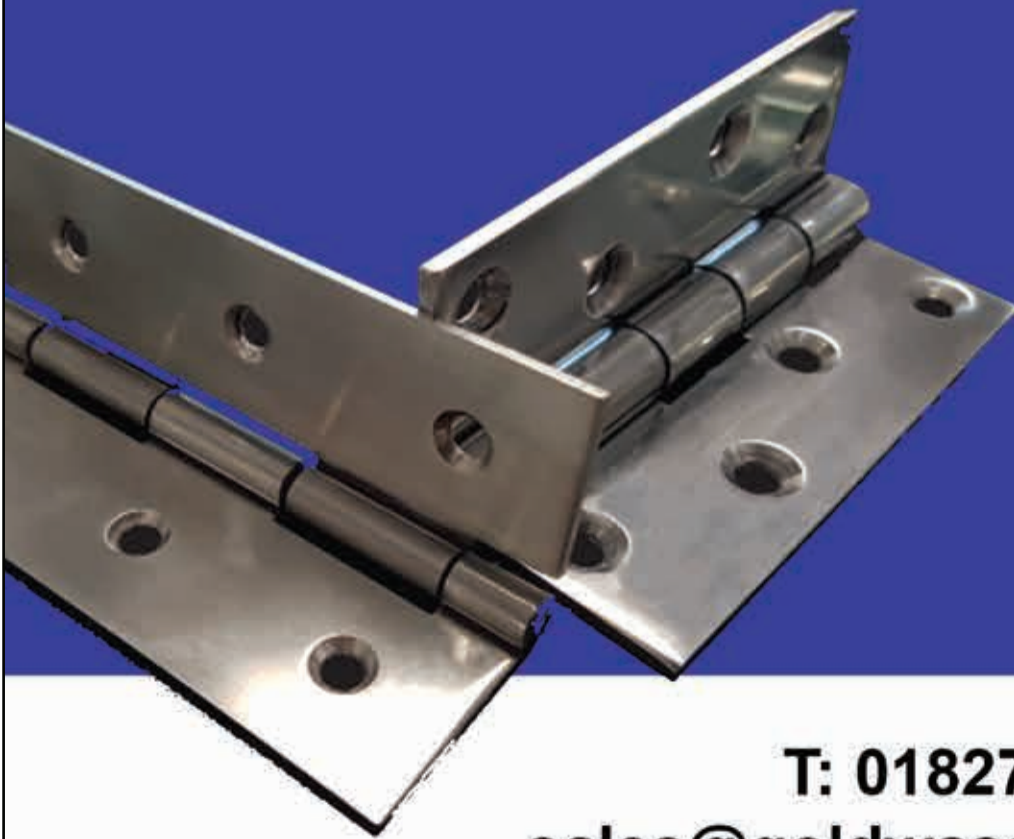
GOLD & WASSALL

EST. 1790

QUALITY HINGES SINCE 1790

Gold & Wassall have been manufacturing hinges for over two centuries, so it's safe to say we know what we're doing.

Our team of experts can design and manufacture almost any hinge, for any application. We have made upwards of 250,000 unique hinge designs, with more designs being drawn up each day.

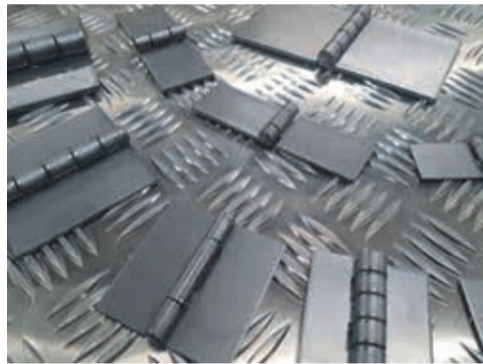


T: 01827 63391

sales@goldwassallhinges.co.uk
www.goldandwassallhinges.co.uk

The UK's Number One manufacturer of Hinges

In this issue of Best Practice, we are proud to announce that we have selected Gold and Wassall Hinges as the recipient of our Hinge Specialist Company of the Year Award. With an impressive, expansive history spanning over 200 years, Gold and Wassall Hinges was first established in 1790. From the company's manufacturing facilities based in Tamworth UK, Gold and Wassall Hinges provides a range of services for design, production and manufacture of hinges, all produced in house and distributed throughout the whole of the UK. An industry leader in its trade, Gold and Wassall Hinges has established itself as the UK's number one manufacturer of hinges.



"We pride ourselves on the quality of what we make. We manufacture all of our hinges right here in Tamworth,

initial inquiry to delivery and aftercare, Gold and Wassall Hinges' team engages on a personal basis with each customer to find out their specific requirements, measurements, application and style, to ensure they find the right door hinge for the individual's needs.

While providing an impressive range of off-the-shelf hinges, Gold and Wassall Hinges understands that for some projects, a custom built hinge is required. Whether it's a simple design alteration such as rounded corners or a more complex design with multiple bends, the team at Gold and Wassall Hinges is dedicated to providing the right hinge solution for you, providing a bespoke custom-made hinge solution.

"Our bespoke hinge service is ever growing in popularity and is possibly our biggest asset. We make all the hinges no one else can - we have an in house toolroom which helps us meet customer requirements which would usually be dismissed. We have made over 250,000 unique hinges now, and counting. It really gives the customer flexibility when designing a product." Scott noted.

Gold and Wassall Hinges has created over 250,000 unique hinges and continuously develops new patterns produced on a daily basis. The company is well equipped with the knowledge, skill and tools to create solutions for



and create a smooth premium finish. The company's array of finishing options is perfect for increasing protection, matching the application or to create that smooth premium finished look.



& Wassall Hinges as well as much of the world, is looking towards a brighter, more productive year as the world slowly moves away from the restrictions of COVID-19. "The short term future is all about continuing to pull away from the struggles of the pandemic, and ensuring steady growth back to pre-pandemic levels of production." Scott continued, "The long term goal for Gold & Wassall Hinges is to grow as much as we can within our current market share, and look towards growing our export relationships too."

Gold and Wassall Hinges plans to continue its dominating presence in the industry. Scott stated, "We plan to



so we have complete control over the quality of our goods. Other hinge companies import from abroad, which means we might not always be the cheapest, but we are certainly the best in terms of quality," said Scott Bareham, Sales and Marketing Manager.

Gold and Wassall Hinges provides a full turnkey comprehensive design and manufacturing service, offering a wide range of hinges including: piano hinges, butt and backflap hinges, standard, heavy duty and bespoke made to order hinges. With an extensive range of stock on offer, Gold and Wassall Hinges is equipped to meet any hinge requirements and all of its stock is available for immediate dispatch.

"All our hinges are UK made; we are the only hinge company in the UK which can offer this. We offer a bespoke design and manufacture service, which means we can create virtually any hinge from a simple idea," added Scott.

One of the main focuses of Gold and Wassall Hinges is to provide first class customer service. Ensuring that from

any application and has the ability to meet mostly any hinge size or shape requirements.

Another example of the company's customisation services, Gold and Wassall Hinges provides an abundance of finishing options for its customers. Able to customise colour, add branding



With a history spanning across centuries, Gold and Wassall Hinges has seen and experienced many tribulations for the world and its industry since its fruition and has been able to maintain its production and dominate its industry. During the uncertainty for many industries during the on-going COVID-19 Pandemic, many manufacturers saw a halt in production and in sales. Demonstrating its renowned manufacturing capabilities, Gold and Wassall Hinges maintained production and was approached for providing hinges for the Nightingale hospitals.

We spoke to Scott about how the COVID-19 pandemic has affected the company; he told us that, "We worked all the way through. We experienced some demand for hinges for the Nightingale hospitals, as well as a customer who is involved in the manufacture of food delivery vans. Although our sales obviously went down during the pandemic, we feel that we are making steady progress coming out the other side. We have managed to keep our workforce whole, with no redundancies."

After what many would describe as a tumultuous year, it is with great pride that Gold & Wassall Hinges receives our award for its hard work, dedication and continued growth over the past 12 months. We asked Scott about how the company feels upon receiving our award, he stated that, "It's an honour to be selected for this award, and it is a satisfying nod to everyone here at G&W for their efforts over the past 12 months. It's been challenging at times, but we are proud to say we worked all the way through, supporting many key sectors too."

Speaking of the company's future, Gold



continue doing what we have been for so long - if it isn't broke, don't fix it!

For any further information, please see the details below

T 01827 63391
www.goldwassallhinges.co.uk



BTM Automation – Produce More with Less Work



In this issue of Best Practice, we are pleased to select BTM Automation Products (UK) Ltd as our Metal Technology Company of the Year - for over

50 years, BTM has provided customers with innovative equipment and tooling in the sheet metal industry.

BTM Automation Products (UK) Ltd is a specialist provider of sheet metal clinching machines, hydraulic press machines and pneumatic press machines, and has encompassed over 40 years of experience within the industry and offers unrivalled complex designs and high-quality standards within a global market.

BTM Corporation of Marysville, Michigan was founded in 1966 by Mr. Ed Sawdon & Mr. Milus Allison as a manufacturer of bending machines for the automotive and appliance industries. The initials BTM were coined as an abbreviation



for “Bending Tools & Manufacturing”.

From simple tools to advanced automation, BTM supplies solutions for its customer’s production requirements in mechanical joining technology, and these may range from standard tools to modular handheld tools up to customised systems.

The company places particular emphasis on providing support to all customers. From the production of prototypes and support for a clinch optimized process, with professional engineering and during the whole general project support from the first sampling to delivery and maintenance, it works closely together with customers.

From initial enquiry through to commissioning, BTM offers a full and complete package. Its expert specialist engineers are trained in the automotive, lighting, heating, white goods and many other industries. The company’s main

product is its flagship technology “Tog-L-Loc®”, the sheet metal clinching technology that is simple, economical and an efficient solution to your metal joining needs. After the introduction of the original toggle press Mr. Sawdon developed Tog-L-Loc® as an alternative to spot welding, riveting and other conventional methods of joining.

Tog-L-Loc® cold-forms the part metal using a special punch and die to form a strong interlocking clinch joint, and the result of the process is a round, button shaped extrusion on the die side of the assembly, and a small cylindrical cavity on the punch side. The clinch joint requires only the sheet metals that were joined - no external fasteners, or welding is utilised in the process.

Tog-L-Loc® offers numerous advantages to customers; No rivets or fasteners, no secondary operations, reduced and simplified maintenance, no transformers or cooling lines, no heat build-up, joining of dissimilar metals and coated metals, leak-proof joints, high repeatability, non-destructive checking, long tool life and more.

This patented clinching system is currently in widespread use in the production of automobiles, trucks, domestic appliances and many other conventional products, and is rapidly being adopted in the UK & European markets as a standard method of joining sheet metal components. This is thanks to its excellent qualities:

- ▲ **Consistent** – Non-destructive testing & repeatable joints
- ▲ **Economic** – Long tool life 300,000 joints common
- ▲ **Versatile** – Dissimilar metals can be joined
- ▲ **Simple** – Simple Punch & Die arrangement

Other innovative products from BTM include V-LOC™, The Oval-Loc™, and the Lance-N-Loc™, all of which offer slightly differing benefits and additions to the trusted Tog-L-Loc® and can be used in different ways for different materials.

The company also offers Pneumatic Press equipment, and has a patented ‘THIN’ air powered toggle Press that produces high forces using 80 psi air pressure. Its ‘THIN’ profile allows for close stacking and includes a unique, pivoting, rectangular piston that drives the non-rotating arm through a force multiplying toggle linkage, and it is ideal for applications like

clinching, piercing, riveting, bending, stamping, and more.

BTM offer a plethora of products, equipment



and in-house services that deliver customers the best solutions on the market. With production and design applications that far outweigh any competitor in the industry, BTM has gained a reputation for its high-quality workmanship and problem-solving abilities that have laid the foundations for its continued success.

BTM (UK) Automation Products Ltd is a rapidly growing force in the drive for world class product quality and reduced production costs in manufacturing today.

For more information:
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SIMPLE & ECONOMICAL SHEET METAL CLINCHING PRODUCTS

BTM offer a full and complete package from initial enquiry to commissioning. Our expert specialist engineers have served the Automotive, Lighting, Heating, White Goods and many other industries. Whether it is a simple hand held unit, robot cell or special purpose machine BTM Tog-L-Loc has a solution for you.

Best Practice UK
Company
Of The Year
Award
2022

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Company Of The Year

Tape Application made easy



such a way as to allow customers extensive customisation of their machines, applicators and accessories, so as to be perfectly integrated into the customer's production chain.

Enimac has a design, research and



development department, designing and manufacturing its products at the headquarters in Italy. Its engineers and technicians, research and identify increasingly innovative technologies to meet the requirements of customers for different needs of application of double-sided tape.

In the UK, Enimac implemented a new distribution strategy in 2020, shifting attention towards tape converters. This was to align their network with what they were already doing in Italy, offering a complete solution, tape + automation. The company has continued to develop this while creating new relationships around the globe, and specifically for the UK, it has two distributors of the standard tape application equipment: Viking Industrial Products Ltd. (www.vikingtapes.co.uk) and Industrial

packaging, signage and wall-protection systems industry (as they apply tape basically to anything flat). Enimac also offers applicators to integrate (on robots/cobots, folder-glueers, slitter-rewinders, in production lines, and other machinery) and complete custom equipment (including 2 and 3 axis cartesian and pick & place systems). Enimac works together with converters to choose the right tape for your automated application and with top-rated technology companies to offer complete, state-of-the-art solutions. Automated tape application shortens work process times, thus increasing productivity.



Business Solutions (www.tapes.co.uk), part of Coastline Adhesive Tapes Ltd.

Among new entries in its standard machine line-up, Enimac has a 100mm applicator for the small-medium format X-treme Light product line, since wide tape strips are not only applied to wide format substrates. The company has also introduced an E-commerce configuration for its wide-format X-treme PRO consisting of spool unwinder and a 60mm applicator with a double-spindle tape drum able to apply 2 strips of double-sided tape and 1 strip of tear tape simultaneously, greatly reducing the footprint necessary for this type of application, while accepting formats up to 1.6m wide and 15mm thick. In addition to the e-commerce applicator one can have up to 5 other applicators for your more intense taping requirements, and small/medium volume lot sizes can easily be handled feeding the machine by hand. In addition to "standard" tabletop and stand-alone machines for flat substrates, which are often used in the printing,

Enimac is true to its motto: "We are not just another special purpose machine design company; we have tape in our DNA."

For more information:
sales@enimac.it
www.enimac.it



In this issue of Best Practice, we have chosen to recommend Enimac for its expert services in the Tape Application Industry. Enimac, founded in 2013 with headquarters in Cornaredo on the outskirts of Milan in Italy, designs, manufactures and distributes:

- ▲ Machines for the application of mono and double-sided adhesive tapes
- ▲ Applicators of mono and double-sided adhesive tapes for industrial integration.
- ▲ Customised industrial systems for the application of mono and double-sided adhesive tapes

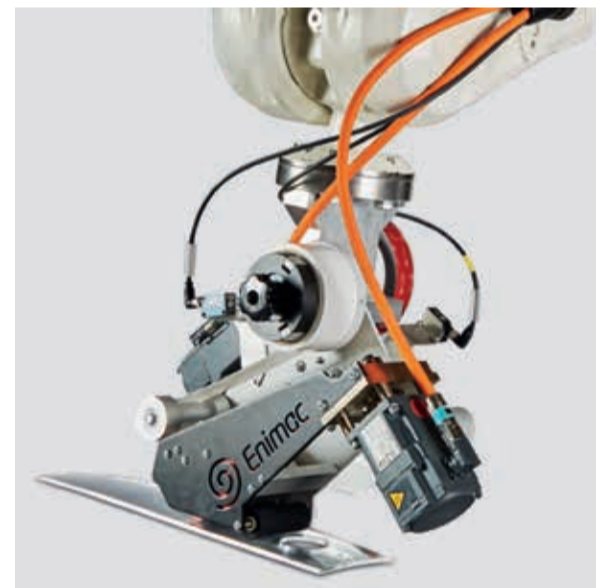
Enimac has a presence in over 30 countries worldwide including the United States, Canada, United Kingdom, Germany, France, Lithuania, United Arab Emirates and South Korea, and the organisation is structured in





Tape Application Solutions for your Industry

With over 50 years of experience in tape application and converting, Enimac srl has over 150 clients in over 35 countries worldwide



contact us
www.enimac.it
sales@enimac.it

Tape Applications Made Easy



MADE IN ITALY

Springing ahead through continuous development

European Springs and Pressings, has built a strong history since its establishment in 1948, which has led the company to be regarded as experts in the field of spring manufacturing and high speed press technology.

European Springs & Pressings is based in Beckenham, London. In 2007, European Springs & Pressings became part of the Lesjofors group, with two sister companies in the UK; Metrol Springs in Northampton and Lesjöfors Heavy Springs UK in Cornwall. In addition, the company has an extended family of around 40 manufacturing companies, which equipped the company with the ability to deliver a comprehensive range of spring and strip metal products, services and solutions across Europe and globally.

The business boasts extensive leading facilities, which has recently underwent a 25 percent increase in footprint, in order to uphold its ability to adapt and expand its products and services.

“Our warehouse in Beckham has had a 6000-square-foot extension to help us develop our stamping and pressings area. Work began in February 2020, and only finished in September of the following year, owing to Covid-19 regulations. This has given us the opportunity to relay our production facilities, and invest in the additional capacity,” added Liam Bland, Marketing Manager.

European Springs & Pressings provides a full design and manufacturing service for bespoke and standard metal pressings, wireforms, coil and gas springs. European Springs & Pressings offer a truly complete service, designing and manufacturing standard and

bespoke metal components in a comprehensive range of materials.

“Our products range from tension, torsion, extension, compression and gas springs, to wire forms and metal pressings. Our secret is our engineers, product developers, and the SQA people who design and develop a product that works for the customer. Often we will look at what the client is proposing, and then bring it together based on feasibility or cost to give the customer the part performance, and price, that they need,” said Liam.

In terms of recent events, like the rest of the world European Springs & Pressings faced new challenges due to the COVID-19 pandemic. Showcasing its clear resilience and strength, the company was able to face these challengers head on, by developing IT procedures and systems to support home working environments for its staff, to retain efficiency and service. In addition, the company made investments into new staff to bolster the business, including a new

Business Development Manager, Finance Manager, Marketing Manager and Apprenticeships.

Indeed, European Springs & Pressings demonstrated its industry-leading expertise and strength in rising and adapting to new challenges. In addition the company has further strengthened its team, through its ethos of continual development and investment. In fact, the company has made many investments including a significant investment in 2021, where European Springs & Pressings invested £1 million pounds in technologies (including a Bruderer BSTA 410-110B2 high speed precision press and Bodor i5 laser cutter) to improve and optimise its manufacturing capabilities, now and into the future.

If you would like to find out more information on the company, please see the details below.

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ERG (Air Pollution Control) Ltd cleans up



In this issue of Best Practice we have chosen to recommend ERG group for its work in supporting its clients in controlling or reducing their air pollution emissions.

The ERG group has over 40 years' experience and operates through three core divisions.

The powerhouse of the group is the first of these, ERG (Air Pollution Control) Ltd. This division has highly qualified and experienced teams of chemical, mechanical and electrical engineers who, together with design engineers, project managers and procurement professionals, design and supply bespoke scrubbing systems and odour control plants to meet their clients' requirements.

ERG solves the full spectrum of gas cleaning challenges facing its clients; whether it is a requirement to remove foul odours from air under ambient conditions prior to release into the atmosphere, right up to scrubbing streams of process gasses at high temperatures, high pressures, or in explosive environments to remove toxic or aggressive pollutants. The level of technical sophistication and bespoke engineering content is each project is specific to the clients' needs, with industrial applications typically demanding the highest processing technology.

The commercial driver leading clients to invest in ERG's systems might be a pressing requirement to comply with government regulations or with the emission limits set in an operating licence issued by an appropriate agency. For other clients, ERG's expertise is often sought to clean up gas streams that form an integral part of the client's production process. For example, in the green energy sector ERG's systems purify biogas or syngas that they have generated, so that the client's process runs more efficiently with lower pollution levels. In some cases, ERG's gas cleaning systems can even generate by-products which become value added saleable side-streams.

Based in West Sussex, ERG has grown its business strongly over the years to build up a global sales network and client base.

An office in Jordan services ERG's business throughout the Middle East region, and is fully staffed with design engineers, project managers and local sales managers. A satellite sales office in Dubai completes the Middle East structure.

ERG (Plastic Fabrication) Ltd is the manufacturing division for the group and specialises in the high-quality custom fabrication of tanks, vessels, pipework and ducting from GRP and composite plastic materials, and which are used in the systems designed by ERG (Air Pollution Control). ERG (Plastic Fabrication) Ltd also welcomes commissions direct from 3rd party customers. It has a vast arsenal of services to offer clients, and has specialist experience in manufacturing using a wide range of plastic materials including PVC, CPVC, Polypropylene, PVDF, and other

speciality plastics for harsh environments such as ECTFE.

Finally, the group includes ERG APC Maintenance Ltd. This division's mission is to provide servicing and maintenance support to customers throughout the lifetime of their air pollution control system. Service can be provided under contract to include a routine preventative maintenance servicing schedule designed to maintain system performance. Alternatively, maintenance can be provided on an ad hoc basis as and when required.

All three company divisions are now based in a superb new purpose-built office and factory facilities in West Sussex, which were completed in 2021. Having all divisions on the same site significantly enhances working efficiency, design quality, production quality, and production capacity.

Looking to the future, the ERG group will continue to develop its presence both within the UK and internationally in the renewable energy sector in the field of treating syngas and green hydrogen; and in automotive battery manufacture where its systems treat ammonia, acid gases and particulate pollution arising from the manufacturing process. In addition, ERG will continue to serve clients in the chemicals, pharmaceuticals and other process industries, as well as continue to build on its strong presence across the Middle East.

For more information, please contact ERG (Air Pollution Control) Ltd at:
T 01403 290 000
info@ergapc.co.uk
www.ergapc.co.uk



Anua Clean Air International sees new growth and developments

Anua Clean Air International manufactures and installs Mónafil, Mónashell, CrumRubber and Mónasorb – Carbon Filter Units, biofiltration systems which have gained a reputation as a reliable, proven system for the treatment of municipal and industrial odour and VOC air emissions.

We caught up with Ian Phillips, Director, about the latest developments for the company, he stated that, "We have had very positive developments over the past two years with new patents for our Dual Stage Monashell and our New CrumRubber process. This technology uses recovered waste tyres and a high performing catalytic Biotrickling process suitable for high H2S on air and biogas. Patents have been awarded in the UK, Europe, the US and China and the technologies tick the boxes for best in class performance in terms of removing pollutants, using minimum energy and water usage, no chemical usage and reuse of recovered material – a 'Hat Trick' for carbon footprint, the environment and life cycle cost. These offerings have global reach and we are very excited about this. We have reference plants in the UK, Europe, the US and China and we are well advanced, with developing worldwide Sales Channels with our Italian Partners Air Clean SRL."

Anua Clean Air International has been working with its Italian Partners Air Clean SRL, to offer the UK market its Patented Biological technologies, which offer the best in class performance at the lowest operating cost, coupled with benefits derived from reuse of recovered materials. In addition, Air Clean offered the full complement of Chemical Scrubbers, Carbon filters and Bag filters allowing Anua Clean Air International to be able to offer the full suite of Clean Air Technologies for low cold emissions.

Ian expanded, "Air Clean our Italian Sister

Company has recently opened a US Office and we have licenced our technologies for the US to Air Clean. We have been awarded a number of new projects and are very excited about long term prospects."

After facing new challenges following the COVID-19 pandemic, Anua Clean Air International has recovered and is starting to see projects come back to life. Ian continued, "We are seeing big Environmental Infrastructure projects starting to move, particularly in International markets where our International partners have full order books, so overall prospects are very strong. Pricing in current environment is challenging but we are very optimistic about future growth prospects."

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Providing Solutions for your force or torque measurement applications

interface
www.interface.uk.com

In this issue of Best Practice, we have chosen to recommend Interface Force for its expert services in providing solutions for all force or torque measurement applications.

Interface Force is an internationally recognised brand and decades of experience have gone into making Interface manufactured load cells the benchmark for thousands of users around the world, and Interface Force Measurements was established in 1996 by Neil Johnstone.

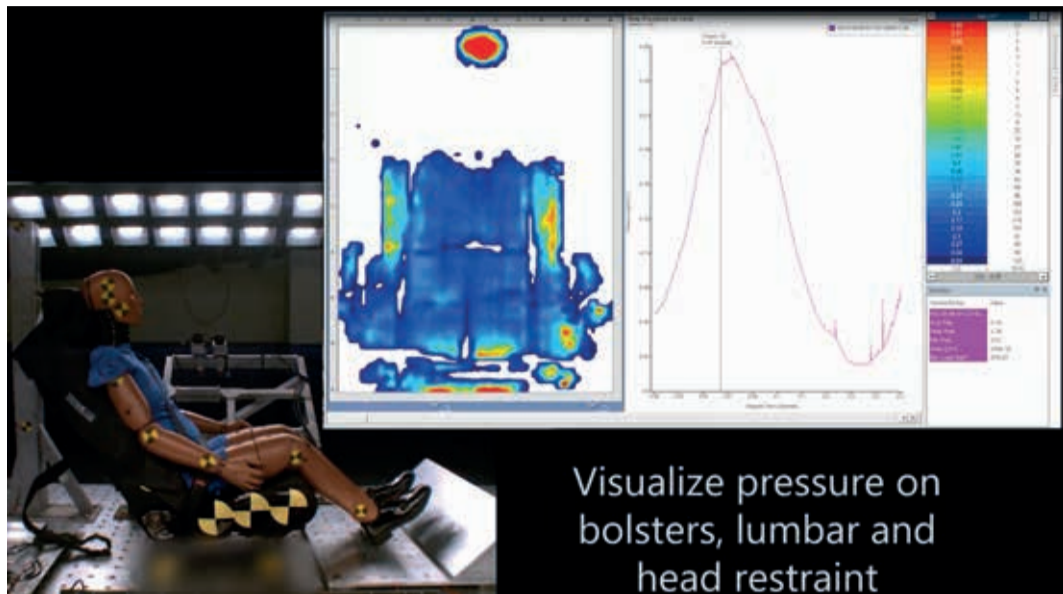
Based in Crowthorn, Berkshire, Interface Force distributes to the whole of the UK & Ireland, but also overseas, especially into Turkey, Greece and the Middle East. The company is a primary distributor for Load Cells manufactured by Arizona-based Interface Inc., and it also supplies their Torque Transducers, associated electronics, multi-access Load Cells and the XSensor Pressure Mapping systems.

The global Interface Inc. is represented by a large network of distributors outside of the US, and they have requested products that are designed and manufactured in metric, with the precision and accuracy of all Interface products. These products are designed for an international buyer and user, and all specifications are in metric specs, a global standard for force measurement products.

Interface Force work mainly with aerospace, automotive, and motorsport companies, and Business Development Manager Tony Rokins told us, "We work closely with companies which are undertaking research into product development, and so this includes universities and also medical companies who need load cells for weighing saline bags – we have a very wide and varied client portfolio."

In this crowded industry, Interface load cells and torque sensors have a hard-won reputation for reliable, accurate and repeatable test results. The range of pressure sensors and pressure mapping systems from industry leaders GP50 and XSensor back this reputation.

Tony continued, "With regards to force measurement, our load cells are preferred by aerospace companies because they are highly accurate, and the results are very repeatable. Also, the devices themselves are extremely reliable and so they are looked on very favourably by both automotive and aerospace manufacturers in particular."

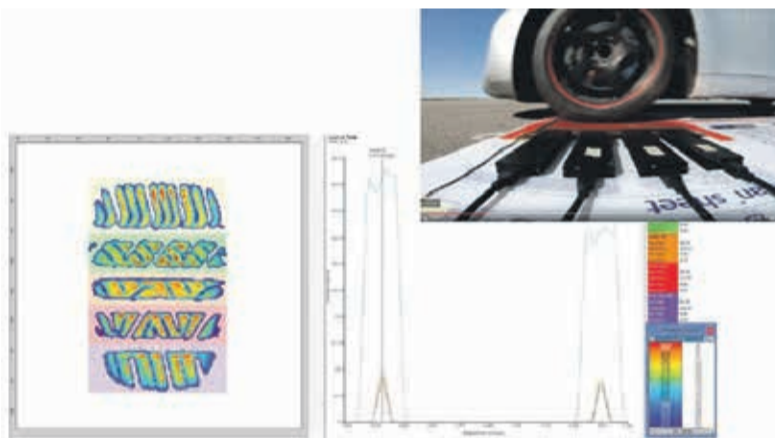


pressure sensors, and the range has developed to ensure that customers have access to the most accurate, up-to-date, and cost-effective devices available.

Another new development is in the Airport environment, where Interface Force have begun to provide wireless monitoring of equipment on, for example, luggage carousels, and this product among

Interface Force is currently re-launching its XSensor High Speed Pressure Mapping System – the company offers a range of pressure mapping systems that can be applied to anything from impact testing to pressure testing tires, runways, beds, seats and much more. The XSensor system is the first system design to allow product designers and safety testing engineers to see, record and evaluate the distribution of force from high-speed impacts on safety equipment such as helmets and body armour.

The system is particularly popular with automotive



and aerospace seating manufacturers as evaluating the performance of helmets and other protective equipment designed to prevent injury requires detailed understanding of the pressure distribution on the body surface during dynamic impacts. Xsensor's high speed HS Impact system combined with the thin conformable sensors allows customers to accurately measure those pressures and evaluate how different design configurations affect pressure distribution on impact.

In addition to this, the system is also used by manufacturers of office seating, companies that develop seating for the home, and bed manufacturers.

In spite of its success in the industry, Interface Force is very much looking to future development. Tony informed us, "We are building new Applications which are based around renewable energy, and we are also developing Cloud-based, Wifi and Bluetooth data acquisitions by making our devices wireless. This would mean customers being able to collect data from anywhere in the world via an App."

This ever-growing comprehensive range of indicators, signal amplifiers, data loggers and wireless transmitters has been designed to complement the extensive range of load cells, torque transducers and

many others have helped Interface Force to have a very successful past 12 months especially.

Interface Force's product reliability is second to none and all of its product lines have to match this standard before ever being recommended to customers. Interface is the world's trusted leader in technology, design and manufacturing of force measurement solutions. Its

clients include a "who's who" of so many industries, and the company's engineers around the world are empowered to create high-level tools and solutions that deliver consistent, high-quality performance.

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DEEP HOLE DRILLING SYSTEMS

Unisig Deep Hole Drilling Systems: perfection is never an accident

UNISIG produces deep hole drilling machines that are used around the world by nearly every industry imaginable – and at UNISIG, striving for perfection has never been an accident. To secure long-term success, the company decided to further invest in machining its own precision parts rather than subcontracting components, as some of the most critical parts they produced have tolerances and complexity that cannot be made by most machine shops.

programmers, and machinists. To harness this new direction, UNISIG put in the time and energy to secure the best manufacturing resources available, including several Okuma machine tools.

To begin, UNISIG devised a plan to combine modular fixturing, offline tool setup, and full simulation of the machine, workpiece, and tools to provide a platform of innovation within their machine shop. The team's intent was to radically improve spindle uptime and exploit



To machine their own parts while continuing to grow and develop new products, UNISIG embarked on a new approach to machining which would allow for industry-leading CNC machine tool accuracy and performance to be coupled with new technology that would ultimately eliminate manual intervention in machining that prevails in many shops.

"The deliberate connection between engineering, design, and machining improves our product. Our ability to rely on very high accuracy and productivity from our internal machining capacity allows UNISIG to provide more advanced solutions and value to its customers," quoted Anthony Fetting, CEO of UNISIG.

Automated machining was the goal, which required a change in thinking by the team's engineers,

the full potential of automated CNC machining, even when the batch size would be only one part.

The first step of the UNISIG strategy was to move away from classic CNC boring mills and adopt the higher productivity potential of CNC horizontal machining centres with twin pallets. After consulting with credible industry sources and leveraging their internal team's knowledge, the MB-10000H horizontal machining centre from Okuma was selected for medium-sized, high-accuracy part machining.

One of the most important factors in this capital investment was the need to trust the machine accuracy enough to program from its centre of rotation and let the machine run without stopping and manually verifying the machining process many times during the cycle. The

Okuma MB-10000H installation was a success and reinforced UNISIG's wisdom to focus on automated machining – and the benefits were so extraordinary that UNISIG continued to look to additional Okuma solutions to bring its strategic vision to life.

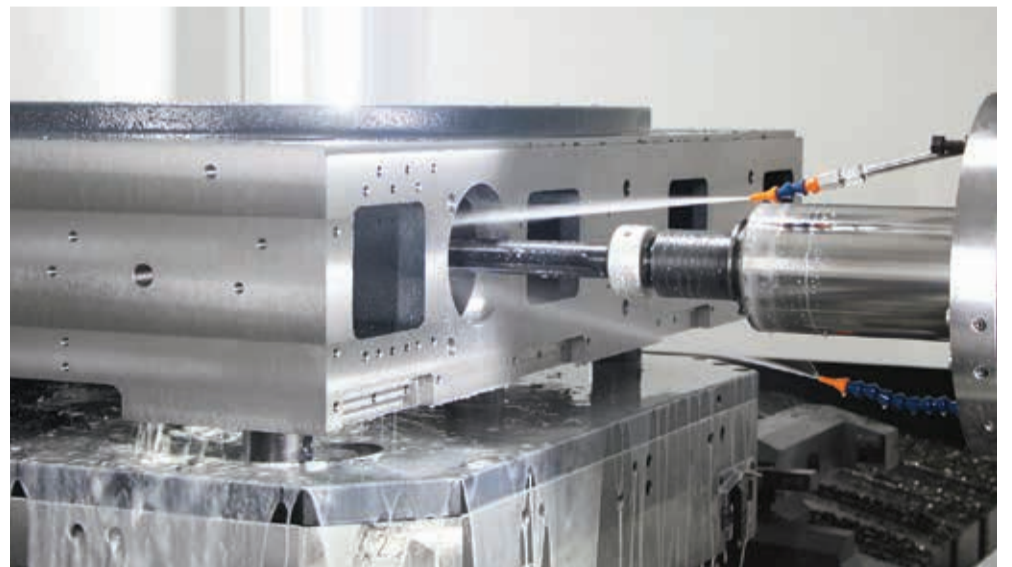
UNISIG's next target was large-part machining. Previously, to hold the finished machine tolerances, extensive hand scraping was necessary which added a lot of time and expense to produce these machines. UNISIG established a set of machining accuracy parameters that would eliminate much of this handwork to achieve tolerances.

Working directly with the local distributor, Morris Midwest, UNISIG was able to engage with Okuma America and Okuma Corporation's technical leadership to tailor the specification of an Okuma MCR-A5CII 35x10 double column machine

very impressive, allowing lights-out automatic machining of parts previously not possible for UNISIG to manufacture.

With two machines from Okuma running and performing to expectations, one more opportunity identified for upgrade resulted in the new MA-12500 machine. The OSP Control common to these three Okuma machines was a big value to the programming and simulation group at UNISIG. "This baseline trust in Okuma is what allows UNISIG to excel at advanced manufacturing," said Mr. Fetting.

In addition to offline tool presetting and modular workholding on all machines, UNISIG uses a variety of Okuma's Partners in THINC suppliers including: Mastercam, Vericut® and Renishaw. Using a layered approach to technology and understanding the benefits of eliminating the gaps between engineering, design,



for the exacting geometry and overall volumetric accuracy needed. The collective Okuma team ensured the MCR-A5CII machine tool specifications were defined and perfect for UNISIG's application. A quick-change fixture system was developed by UNISIG to allow two parts up to 3 m (10 ft) long to be machined simultaneously and removed for setup offline. The results after installation were

and manufacturing, UNISIG has differentiated itself as a machine tool builder. The company's long history of achievement is one Okuma and Morris Midwest are proud to be a part of – especially in helping UNISIG achieve their goal of capitalising on the full potential of automated machining.

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CAMB Machine Knives has built an enviable reputation for high quality machine knives. With over 30 years of experience, CAMB Machine Knives supplies to companies across the world, with an established network of agents in Spain, Holland, France, New Zealand, South Africa, Australia and Israel, as well as its UK headquarters.

Currently, CAMB Machine Knives supplies and exports its knives to over 20 countries worldwide. Because the company deals with several carrier and freight companies, it ensures it can always get the most competitive prices and best carriage option to its customers' destination.



The company's range of blades includes circular knives, top dished knives, bottom knives, toothed knives, straight knives, anvils, tray form blades, razor blades, shear blades, granulator blades, carpet knives, tobacco knives and confectionary knives.

The range of circular knives is ideal for a wide range of industries, including packaging and rubber. Furthermore, CAMB Machine Knives' range of poultry processing blades cover all the main machines used in the industry, including Stork, Meyn, Systemate, Foodmate, Linco, and many special sizes made to order.



As well as supplying new blades, CAMB Machine Knives can provide a full regrind/re-sharpening service on many of the knives it supplies. This can be arranged on a weekly basis, or booked as and when it is required. This is ideal for increasing the life of circular, straight, toothed and special blades, as well as increasing the efficiency of the machine.

Regrinding/re-sharpening is the ideal way to bring your knives back to an as new condition, and is considerably cheaper than purchasing a brand new set of knives. CAMB Machine Knives can collect and deliver anywhere in the UK within 24 hours, offering competitive shipping rates and a quick turnaround. What's more, if a job is urgent, in some cases the company can regrind the same day.

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and excellent customer service, CAMB Machine Knives really is a cut above the rest.

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Sustainable Flooring Solutions for over 100 years



In this issue of Best Practice, we have chosen to recommend Bona for its commitment to Sustainable Flooring

Bona is a family-owned, sustainably driven company that supplies products for installing, renovating, maintaining and restoring premium floors. Founded in 1919, Bona offers products for most premium floor surfaces including wood, tile, vinyl, resilient, rubber and laminate.



Over 100 years later, Bona is the foremost leader in the hardwood floor industry, with a wealth of innovation experiences and knowledge, and with every product and interaction, the company promises to offer products and experiences that bring out the beauty in floors. From its commitment to sustainability, to the relationships with customers and unparalleled service, Bona commits to

delivering the absolute best, every time.

Bona has recently developed its Resilient Floor Solution - this is a complete, effective system which restores, renews and upgrades resilient floors. From vinyl, PVC, linoleum to rubber, this renewal treatment provides the perfect floor in a matter of hours. Marketing Manager Leanne Garvie told us, "With this solution, even dramatic makeovers and colour changes can be easily achieved, at half the cost of a floor replacement. Renewing a floor instead of replacing it also contributes to a reduction in carbon footprint by up to 90%. We call it Bona Resilient Solution, you could call it a brand-new floor." There are three aspects to this solution:

- ▲ **RETHINK** – a more sustainable programme which significantly improves durability and safety while transforming its look
- ▲ **RENEW** – With this Solution, existing resilient floors can be completely renewed in a few easy-to-learn steps.
- ▲ **UPGRADE** – Bona can half the cost of your next floor replacement while completing it in as little as 24 hours

Bona is very proud of its commitment to sustainability, and is completely focused on driving sustainability and developing innovative products and solutions. As the demands of the industry and consumers evolve due to the current environmental and economic challenges, Bona are focused on providing solutions to support and enhance opportunities for

the flooring industry.

Leanne continued, "We believe that it is our responsibility to do better, and be better in everything we do. Sustainability is core to our business and has been embedded in our company culture since 1919. What we've learned from 100 years of committing to sustainable practices is that sustainability is ever-evolving. Rather than a destination, it is a multifaceted journey that changes as our world changes."

Developments in technology, new innovations, and cultural shifts are all part of how Bona continue to create a better world, and its sustainability journey is aligned and in accordance with the United Nations' Sustainable Development Goals. This means that it is focused on bringing better products and practices to Home, Health, and Humanity across the globe.

Bona works with a range of clients, including hospitals, schools, public buildings and offices and retail stores and it provides a professional solution for renewing the floors in these much-used public spaces and bringing them back to life. The possibilities are endless, whether it is a completely new look required, or to just regain that beautiful look when the floor was new – Bona can provide the solution.

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Matara releases new Linear Actuator Product Catalogue

Matara UK Ltd, specialist in automation, pneumatics and linear motion products, is pleased to introduce its new 328 page Linear Actuator Product Catalogue.

The new catalogue covers Matara's substantial range of belt driven and ballscrew linear actuators, including the best-selling MTB and MTS series belt driven actuators, along with several new products. These new product ranges include the space saving KM Series ballscrew actuators; the powerful yet cost-effective MTJ ECO linear unit; the plug and play electric cylinder MCE/MCSE actuator; an award winning LMCA linear motor range; and UNIMOTION stepper systems.

A very thorough product guide, linear actuator assembly examples feature prominently at the start of the catalogue, followed by sections covering each of the different product ranges, each of which come with technical data, dimensions, an order example and suitable accessories. These are presented in easy to read tables and CAD drawings. Where relevant, graphics depicting the deflection of the linear unit are also included.

For any actuator to perform consistently at its optimum level it needs the correctly specified motor, gearbox coupling and control system. The last third of the new



linear actuator product catalogue is dedicated to these components, addressing linear motors, servo motors, stepper systems, gearboxes and automation solutions.

The new Matara Linear Actuator Product Catalogue makes selecting the right linear actuator for a specific application very straightforward. To download a copy of the new Matara linear actuator product catalogue, please go to <https://www.matara.com/catalogues/>

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BEPC Encoders

Encoders are indispensable wherever precise measurement and supervision of speed, direction of travel, distance travelled, and position of mechanical elements or number of rotations performed is necessary. In any case, the encoder invariably affects

the proper and efficient functioning of machines and systems. It is therefore a small investment in great profits of enterprises.

BEPC offers two major types of encoders, linear measurement encoders, as the TR1

Tru-Trac™ or New Draw Wire Encoder (LCX), and rotary encoders like the Model A58HE which is an EtherCAT or PROFINET-ready. Linear encoders have a read head and track. This will produce an output for distance travelled typically in pulses per inch (PPI).

Where rotary encoder converts the angular movement of a rotational device and will have an output for rotation about the fixed axis typically in pulses per revolution (PPR). BEPC encoders are increasingly becoming the basic elements of automation systems in industries as:

- ▲ Machine building
- ▲ Robotics
- ▲ Automation and sorting
- ▲ Aerospace
- ▲ Food & Beverage
- ▲ Printing
- ▲ Material Handling
- ▲ Mobile equipment, etc.

If you still have questions as to how an encoder works in your specific application, please feel free to call a Customer Service Representative for Technical Support.

For more information please go to www.encoder.co.uk
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Floor sealer & finish guide

Beautiful floors aren't born – they're built. When it comes to designing and building floors that customers love, flooring professionals understand the relationship between the layers of a floor and how to bring out the best in a floor with the proper tools and coatings.

Whether your customers want a traditional look or a completely customised creation, choosing the right coatings can help create a stunning floor. Here are some things to remember when using finishes.

Floor finishes

The importance of a floor's finish is, of course, the protective surface layer that is the first line of defence against floor damage. When it comes to a floor's finish, professional installers have a wide range of finishes to choose from:

- ▲ Oil-based/oil-modified poly
- ▲ Waterborne poly
- ▲ Moisture cured urethanes
- ▲ Acid cured urethanes (AKA Swedish Finish)
- ▲ Waxes and Oils

When it comes to helping customers choose the right kind of floor finish, make sure the following concerns are addressed to give clients a wide range of options:

- ▲ Durability (abrasion/scratch resistance)
- ▲ Look and style (colour, sheen level)
- ▲ Potential colour changes over time
- ▲ VOCs/green options
- ▲ Maintenance
- ▲ Dry/cure time



Fixing floor finish mistakes

Proper care and preparation are needed for applying floor finish. Floors need to be properly sanded, cleaned or repaired before any finish is applied. Here's a list of common floor finish mistakes & ways to prevent them:

- ▲ **Streaks** – Ensure job site conditions are properly prepared for optimal drying. Most streaking problems can be traced back to the application or even the applicator itself. An easy way to eliminate problems with streaking is with the use of a roller.
- ▲ **Side bonding** – Using a quality floor sealer will help prevent side bonding.
- ▲ **Peeling** – Check to make sure the coatings you use are compatible with each other. Following manufacturer's instructions will help give proper guidance on what abrasives are recommended when prepping the floor.
- ▲ **Blistering** – Temperature control is often the cause of blistering. When finishing a floor, consider the sun and

either cover the windows with plastic or plan the job early in the morning or late in the day. Make sure that the room is properly prepped to allow for proper airflow as the finish dries.

- ▲ **Uneven sheen** – Make sure the floor finish is prepared according to manufacturer's instructions. Ensure

that the finish is mixed well. If multiple containers of finish are needed to complete a single application, batch them together to ensure a uniform sheen.

To give your customers the best-looking floors with superior protection, Bona

Mega ONE and Bona Traffic HD have been designed specifically for the needs of professional floor contractors.

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Asset Management



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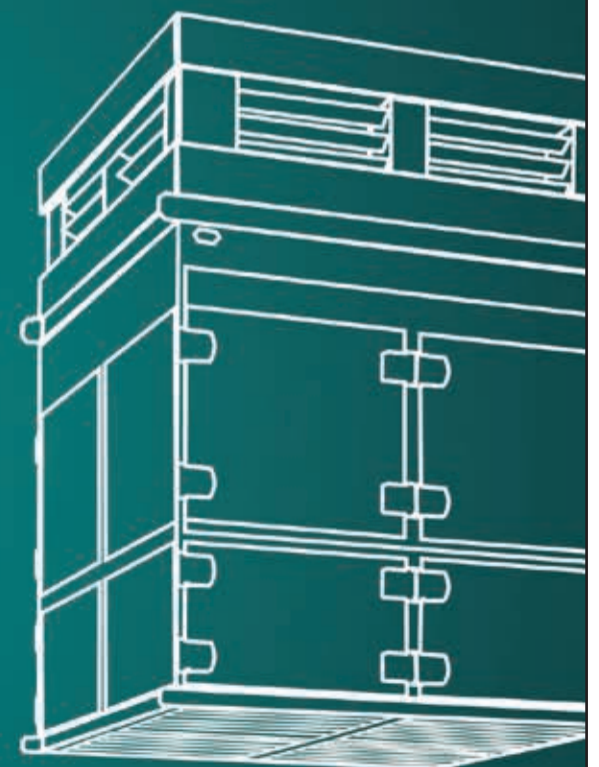
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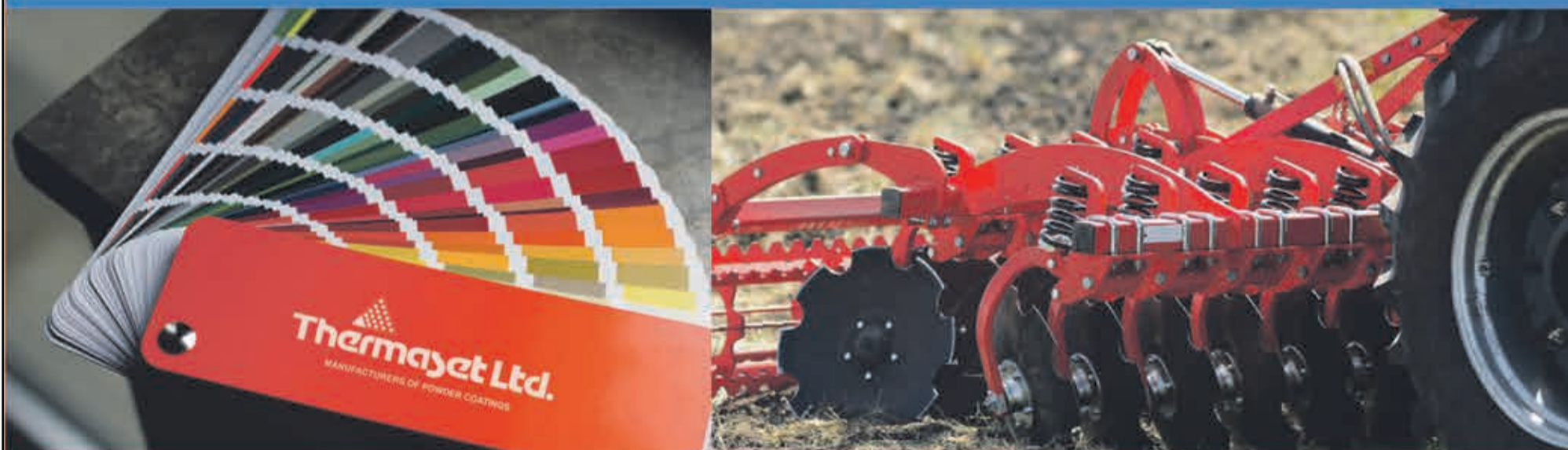


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