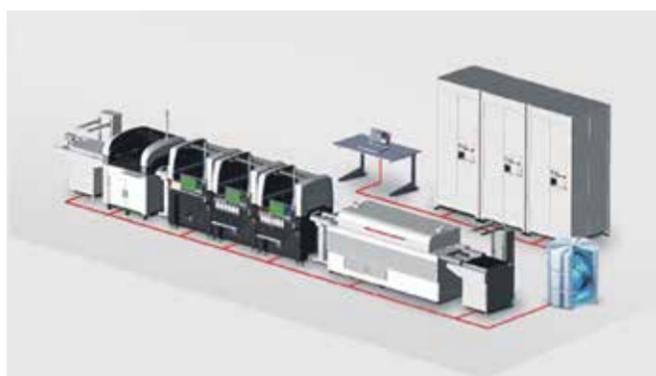


# Best Practice



Issue 653 | Jan/Feb 2021 | 0121 725 1587 | [www.bestpracticeuk.co.uk](http://www.bestpracticeuk.co.uk)

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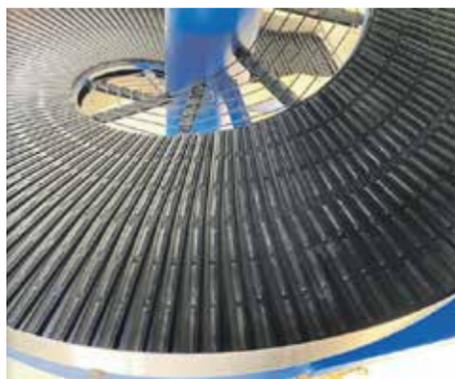


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## AmbaFlex launches new slot innovation

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



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

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

Together with the unique Triple-E track build-up (awarded with a patent), they offer unparalleled strength and efficiency with their SpiralVeyor solutions. With belt widths of up to 1,200mm (or 48 inches), they are able to transfer virtually any and all products.

This new development will further enhance and complement the many possible applications offered throughout our program. Interested in the possibilities?

Please see our full program at: [www.ambaflex.com](http://www.ambaflex.com) or contact us via the contact form.

Download on the  
 App Store

**Gold & Wassall**  
see them on pages..... 2-3

**Perfect Bindery Solutions**  
see them on page..... 5

**Unisig**  
see them on pages ..... 12-13

**Big Dug**  
see them on page.....24

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# QUALITY HINGES FOR OVER 200 YEARS

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.

SEE MORE AT [GOLDWASSALLHINGES.CO.UK/BESPOKE](http://GOLDWASSALLHINGES.CO.UK/BESPOKE)



**BESPOKE HINGES**



**GOLD & WASSALL**

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# The UK's Number One Manufacturer of Hinges

Within this issue of Best Practice, we have chosen to feature Gold and Wassall Hinges for our Best Practice Recommends Profile.

With an impressive 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 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.

Gold and Wassall Hinges provides a fully 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," commented Scott Bareham, Sales and Marketing Manager.

One of the main focuses of Gold and Wassall Hinges is to provide first class customer service. Ensuring that from initial inquiry to delivery and aftercare, Gold and Wassall Hinges' team engages with each customer to find out their specific requirements, measurements, application and style, to ensure they find the right door hinge for the customer.

While providing an impressive range of off-the-shelf hinges, Gold and Wassall Hinges understands that for some projects a custom built hinge is needed. 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; it really gives the customer flexibility when designing a product," Scott said.

Boasting years of experience and design and manufacturing skills, 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 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 a range of finishing options for its customers. Able to customise colour, add branding 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.

In terms of specific finishing services, Gold and Wassall Hinges provides powdercoating, plating, polishing and engraving services.

Powdercoating has grown in popularity within recent years and is a great alternative to using traditional solvent based paints. Better for the environment and creating a durable finish, Gold and Wassall Hinges provides powdercoating in any RAL Colour and offer a choice of different textures.

With a history spanning across centuries, Gold and Wassall Hinges has seen 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 were 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." Scott continued, "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."

Indeed, coming out of the other side of the pandemic, Gold and Wassall Hinges plans to continue its dominating presence in the industry. Scott stated, "We plan to continue doing what we have been for so long - if it isn't broke, don't fix it!"

For any further information on the company or to view its extensive range of products, please see the details featured below.

T 01827 63391  
www.goldwassallhinges.co.uk



**QUALITY HINGES FOR OVER 200 YEARS**

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.

SEE MORE AT [GOLDWASSALLHINGES.CO.UK/BESPOKE](http://GOLDWASSALLHINGES.CO.UK/BESPOKE)

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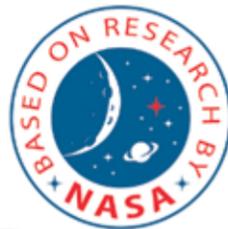
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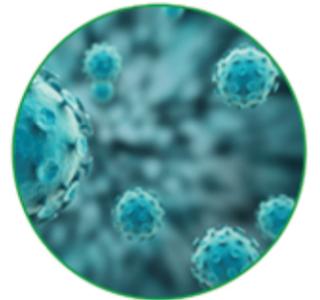
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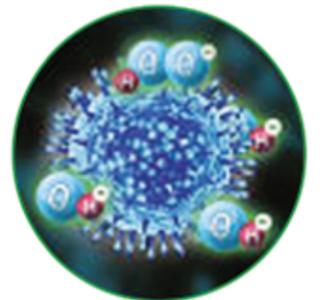
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# Bind it, pack it, sort it: your machinery experts

Best Practice is proud to feature Perfect Bindery Solutions for our BP Recommends profile. Through the company's most recent venture, Risetec UK Ltd, it is helping to bring outstanding parcel sortation, bookbinding and packaging machines to customers across the UK, with a growing focus on sustainable and eco-friendly solutions.

Founded in 2005, this family run business specialises in technology and equipment for print finishing, bookbinding and stationery production,



and its impressive portfolio of machinery has been selected to address many of the post-press requirements for Digital and Litho. Perfect Bindery Solutions carefully selects its manufacturers to be proactive and innovative, meaning that through discussions with its customers and suppliers the company can improve, design and modify existing and new machinery to suit customers' needs.

With a team of highly dedicated staff, Perfect Bindery Solutions boasts in-house experts in marketing, graphic design and technical skills, ensuring efficient and high quality services for its customers. The team will actively seek out machinery and solutions that add value to customers' products and that save time and manpower.

Not only do Perfect Bindery Solutions' products improve productivity, quality, and efficiency, the company's machinery is specifically for materials such as paper and



board, ensuring a highly sustainable and eco-friendly approach to production.

Thanks to Perfect Bindery Solutions' expertise involving paper and board production, the company expanded into the packaging sector and set up its Perfect Box Solutions division.

"This enables us to offer equipment for the production of luxury boxes, with a new range of high-tech solutions for short to medium runs," explained Hannah Giddins, Graphic Designer. "Due to the strong demand for luxury packaging, we have recently purchased a number of machines for stock to enable faster deliveries – we have discovered that there is significant growth in this area."



To continue its growth, the company incorporated a new business in May 2020 called Risetec UK, the UK sales office for Risetec SRL based in Northern Italy who manufacture bespoke parcel sortation systems and machines for the bookbinding and packaging sector. These systems are built specifically to customers' requirements, featuring automatic volumetric weighing, bar code scanning, and parcel labelling. Many of these systems are successfully installed across Europe, and the technology is an excellent solution for couriers, warehouses and manufacturers in the UK.

In fact, Risetec SRL have recently completed development of an all new small order packaging machine, the E-Pack, which is designed to be eco-friendly. "This means that the power consumption of the machine is minimised due to the elimination of shrinking film to secure the product in the box, which was



used on a previous system. "The machine secures the product inside the box using environmentally friendly plastic film by stretch wrapping the product to the box. This eliminates filler and enables three standard box sizes to be used for a wide range of products, which could include books, cosmetics, confectionery, electrical components, and more."

There are two types of film available for this machine, Polypropylene and one developed from waste sugar cane. It allows you to automatically pack up to 10 boxes per minute with just one operator,



Minolta. This is also a service that we will be able to offer to third parties."

And, although the COVID-19 pandemic and Brexit have created numerous challenges for companies across the globe, there have been some positives for Perfect Bindery Solutions over the last few months. "We have noticed a significant increase in machine sales since August 2020, in both the book and packaging markets," Hannah said.

"We believe this has been caused by people purchasing books and online deliveries during the various lockdowns. Also, the government grants and low interest loan schemes have resulted in many customers investing in new technology for the future. Another factor is the cost of transport from the Far East, delivery times, quality and global warming issues. The Brexit scenario has also increased the desire to manufacture more products in the UK, so we have also noticed more investments for in-house production."

If you would like to find out more information on Perfect Bindery Solutions and Risetec UK, head to the website or get in touch directly using the details below.

Contact  
T 01993 840077  
Hannah@binderysolutions.co.uk  
www.binderysolutions.co.uk

including documentation and automatic labelling for the delivery.

Building on over 15 years of success, Perfect Bindery Solutions is currently re-designing its showroom to improve the machine demonstration experience for its prospective customers, once face-to-face meetings are possible again. "We will also be launching a new website and catalogue, which incorporates Augmented Reality technology supplied by Konica



# Premier hydraulic equipment from Interfluid



We are proud to feature Interfluid Hydraulics Ltd for our BP Recommends profile.

Interfluid Hydraulics is a bespoke hydraulic equipment manufacturer, specialising in standard & bespoke hydraulic cylinder, powerpack & system design, manufacture & repair.

Offering a huge range of hydraulic equipment from standard off-the-shelf items to bespoke cylinders and systems designed to exact customer specifications, Interfluid has the engineering capability to deliver.

Established in 2001 by highly experienced hydraulic engineers, Interfluid Hydraulics is one of the UK's premier hydraulic equipment manufacturing companies, committed to providing excellent products, backed up with first-class service.

Their standard range of hydraulic cylinders have a working pressure of 210 bar, while their heavy-duty range is rated to work at 350 bar, ensuring they can operate in the most arduous of conditions.

These cylinders can be supplied with a huge range of mounting options and fitted with a range of electronic position sensing devices, from simple proximity sensors signalling extremities of stroke, to internally fitted infinite resolution linear transducers with a variety of output options. Crucially, Interfluid Hydraulics can also manufacture their entire range of cylinders in full stainless steel.

Most recently, Interfluid

Hydraulics introduced a few brand new ranges, including tie rod, mill type, heavy duty compact and light duty compact hydraulic cylinders. The tie rod cylinders are available with magnetic sensors, and all standard ISO mountings are available in several seal configurations, depending on application conditions and desired performance.

All cylinders are tested in compliance with ISO 10100 standard. The range also provides a comprehensive selection of rod materials, including standard chrome plated EN8/EN14, NIKROM500 & chrome plated 316L or AISI329 & F51 Super Duplex Stainless Steel.

Although the COVID-19 pandemic has had far reaching effects, Interfluid Hydraulics has been even busier than usual. "We've continued to do repairs and works for the medical industry, working with the NHS and emergency services," explained Keith Ingram, Managing Director.

"We also designed and manufactured hydraulics to power a press for cutting plastic aprons for nurses. This would normally take six weeks but we turned it around in just one."

If you would like to find out more information on everything Interfluid Hydraulics offers, head to the website. Alternatively, get in touch using the contact details below to find out how they can help you.

T +44 (0)1822 833111  
[sales@interfluid.co.uk](mailto:sales@interfluid.co.uk)  
[www.interfluid.co.uk](http://www.interfluid.co.uk)



# Let's Wash Our Hands Of It

Safety Signs Manufacturer and Safety Products Supplier Spectrum Industrial have launched a campaign 'Let's Wash Our Hands Of It' to help raise awareness of the amount of germs lurking in the workplace and have published an infographic with key facts and stats, which demonstrates the growing importance of workplace hygiene.

According to research published it is a fact that people can spread cold and flu in the workplace by as much as 40%\* and during 2018/19 it cost the economy £2.9bn!\*

The cold and flu season has traditionally cost employers around £570 and 5.6 days lost per employee / per year\*, however with the additional concern of Covid-19 this year,

it's even more important that businesses ensure they have measures in place to help reduce the spread of viruses amongst staff, visitors and customers this winter.

With approximately 80% of common infections transmitted by touch\*, one of the best ways to help combat this is with hygiene reminder signage.

From hand washing reminders, cleaning surfaces and equipment to wearing of PPE, these reminder signs have been proven to increase the frequency and length of hand washing in particular\*.

Spectrum Industrial have been manufacturing health and safety signs for over 25 years as well as recently introducing hand sanitising stations

to their range. Inhouse manufacturing facility also enables them to provide custom designs or simply add your logo.

You can read the infographic at [www.spectrum-industrial.co.uk](http://www.spectrum-industrial.co.uk) or contact Spectrum Industrial for more information about their product range at [sales@spectrum-industrial.co.uk](mailto:sales@spectrum-industrial.co.uk)



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# How can you improve your driver and fleet risk management?

Improve your risk and compliance processes with the future of driver & fleet risk management solutions.

Licence Bureau, via its parent company TTC Group, is offering the world-leading driver and employee risk management platform solution TTC Continuum.

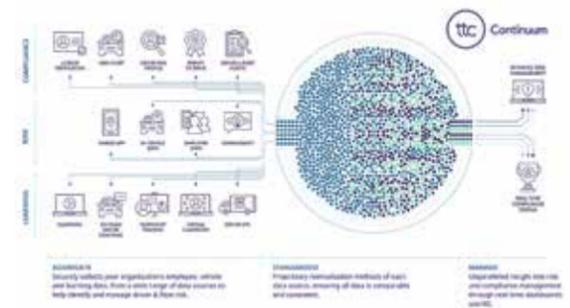
Integrating data from numerous sources, including telematics, driver behaviour and

in-vehicle technology, TTC Continuum delivers comprehensive insights into driver risk and compliance management through real-time dashboards and management information.

By using TTC Continuum, you can easily and quickly manage your entire driving community from a single online platform, ensuring real-time compliance with HSE legislation and that your organisation

is best placed to manage 'Duty of Care' Compliance under current UK legislation.

Thanks to its 24/7/365 delivery of driver and fleet risk data, TTC Continuum makes managing your organisation's fleet far simpler, driving decision making and focusing fleet management resources to where they're needed most.



## TTC Continuum

TTC Continuum platform manages driver Risk & Compliance

TTC Continuum is the future of driver & fleet risk management solutions, integrating data from many sources including telematics, driver behaviour and in-vehicle technology, to deliver unparalleled insight into driver risk and compliance management through real-time dashboards and Management Information.

- Driving Licence Verification
- Grey Fleet Management
- Driver Risk Profile
- Permit to Drive
- Driver & Fleet Risk Audits



The platform recognises that each driver is a unique individual, ensuring that any training meets drivers' exact needs and adapts as their needs change, lowering collision risk exposure and the related costs you might incur. Furthermore, you can tailor training to match your business needs by starting with compliance and then building a programme to deliver real business benefits, such as collision cost reductions, improved employee retention and stabilised insurance premiums.

The effectiveness of this training can decline over time unless it is reinforced on a regular basis, so TTC Continuum also offers a suite of post-training interventions, such as micro-videos, that keep driver risk at the forefront of every drivers' mind.

What's more, by combining driver-declared driving history with real-time telematics data, TTC Continuum offers customers the opportunity to use multiple data sources to drive fleet and driver risk decision making.

Of course, the risk exposure for drivers changes day by day - it can be increased in poor driving decisions or reduced by targeted and personalised training. TTC Continuum helps to identify changes in risk profile and discovers opportunities for additional remedial action.

Other solutions included within the TTC Continuum include Driving Licence Checks, which feature a digital e-declaration and results within seconds. Results are stored by TTC Continuum and help to identify the highest risk drivers, being a key element of the driver Risk Profile Score. This is in addition to a Driver Risk Profile, with a 40-question Driver Risk Assessment. Scores are produced by market-leading risk score algorithms created by industry experts and validated by data scientists, with an easy dashboard view of Driver Risk Profiles.

This is just a snapshot of TTC Continuum's comprehensive features, and readers are urged to get in touch with Licence Bureau for a demo to discover first-hand how TTC Continuum can improve your driver and fleet risk management.

Interested? Get in touch using the details below.

T 01442 430 980  
[www.licencebureau.co.uk](http://www.licencebureau.co.uk)  
[www.thettcgroup.com/driver-risk-management/ttc-continuum](http://www.thettcgroup.com/driver-risk-management/ttc-continuum)

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## Valves for a Salty Life

The planned refurbishment of an effluent treatment plant on the Atlantic coast was required whilst maintaining full operation, however difficulties were realised at the planning stage, as three critical isolating valves had non-standard face to face dimensions and required to be resistance to the salt laden air. The first consideration was to replace the adjacent pipe work to allow the fitting of standard sized valves, but this was soon ruled out as this would result in major civil work and operational interruption, which could not be tolerated on a sensitive site.

Consulting T-T Flow (a division of T-T Pumps) for help,

T-T's engineers reviewed the problem coming up with a rapid engineered solution, which included introducing manganese bronze stems and further salt resistance materials.

The new valves were supplied on time within the tight schedule and to an upgraded specification to tolerate the extreme conditions and well within budget expectation allowing the site to continue to run without interruption.

For further information please contact T-T  
T 01630 647200  
[www.ttpumps.com](http://www.ttpumps.com)



## Promstahl launches in UK



A prominent European loading bay manufacturer has launched to the UK market with the recruitment of two leading lights in the industry.

Joint managing directors Tom Langley and Paul Harrison (both ex-Hörmann Group) have strong reputations in the UK loading bay sector. They will run the UK branch of Promstahl.

Promstahl has been supplying products to the UK trade for the last nine years and the products have been well received, said Tom. Part of the rationale for the establishment of the UK operation of Promstahl is to give our trade customers better support. In addition, given the experience of the joint MDs, the firm is also targeting their own project work in the UK loading bay sector and is busy building relationships with developers, contractors and architects.

Tom & Paul spoke to Best Practice about the exciting new launch. "We've used the relative quiet of last six months in the wake of the pandemic to set up the

business in the UK. Now we have it where we want it to be, and we are ready to go to market," explained Tom.

These are uncertain times. The market is quiet, with some companies reluctant to commit to decisions and investments but this is against a background of increased warehouse activity as trends such as eComm have come to the fore during the pandemic.

Paul was asked how he saw prospects for 2021. "We obviously had the lockdown initially last year but then things started to pick up again, with construction sites re-opening. That said, Covid is still around, it's lasted longer than anyone expected. No one can say with 100% certainty we will be in a different position later this year.

"But from our point of view we are starting small; we're not looking for the big numbers. We're focusing on working with good clients, rather than being a production machine, our aim is to offer a superior service, and good quality products well implemented."

Poland-based Promstahl focuses on loading bay equipment for the commercial sector. It specialises in the design, manufacture, installation and service of loading dock equipment including - hydraulic dock levellers, mechanical dock levellers, dock shelters, dock houses and a wide range of loading bay accessories. It partners with major European manufacturer Alpha Deuren on the supply of industrial doors.

For more information, visit [www.promstahl.com](http://www.promstahl.com)

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## HMG launches Colour Box for distributors and customers

Colour choice has never been easier for HMG Paints' distributors and customers thanks to the launch of the new ColourBase Colour Box. The new paint colour identification tool presents over 2,400 colour chips, displayed in chromatic order within 20 fan decks. The ColourBase Colour Box is a multi-function tool, in the sense that each colour not only has a chromatic code that identifies its position in the colour sequence, but it also corresponds to a colour existing on the market for reference.

HMG Paints innovative Unit Lite Colourants and ColourBase have been a key tool for the company and its nationwide distributor network for the last decade, and combined with the new ColourBase Colour Box, distributors can provide even more outstanding colour choice



across a number of HMG systems. The Manchester-based business has invested over £150,000 into the Colour Box project, helping its distributor network add increased value and providing fast and easy colour identification, ensuring the right colour every time.

"Ever since 1930, HMG Paints has been obsessed with colour, we still even have our first ever colour formulation book in the archives, we truly understand its importance to the customer and the ColourBase Colour Box is a great new resource for our distributors and their customers," commented Danny Cleary, HMG Sales Director.

The colours contained in the box, available in a counter top version

or carry case, are sourced from a number of popular colour systems, including RAL, British Standard, Commercial Vehicle Fleet Colours, Agricultural, Industrial, Afnor and more. Additionally, the box contains colours with chromatic continuity to ensure that distributors can find the perfect colour for every customer.

The ColourBase Colour Box has already been put to good use by a number of customers who are using HMG's Acrythane 4C. Up and down the UK vehicle fleets are using colours from the ColourBase Colour Box and seeing exceptional results using the high gloss, high solids acrylic polyurethane coating developed to meet and exceed the stringent requirements of the commercial vehicle market.

As the UK's largest independent paint manufacturer, HMG Paints Ltd relies on a loyal, countrywide distribution network to supply and service previously unreachable customers and expand the HMG Paints brand.

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## Orbi-Trace

Casella, expert manufacturer of smart monitoring technology, is launching an innovative, technology-forward solution to simplify social distancing in the workplace with the launch of the Orbi-Trace smart tag – a flexible social distancing solution that provides simple proximity alerts all the way up to full effective contact tracing.

The body-worn Orbi-Trace smart tag is simple to operate, with a stop/start input and single LED power alert. It gives the wearer fully configurable vibration and audible alerts whenever a 2m safe distance is breached, and can operate indoors and out, with a battery life of up to seven days.

The sophisticated Ultra-wideband (UWB) connectivity is accurate in detecting distances down to 10cm accuracy – making it 20 x more accurate than Bluetooth and 50 x more accurate than GPS. The connectivity will not cause interference with WIFI or other RF technologies.

When combined with the wall-mounted anchor unit and proprietary, free to use Infection Insights software, the Orbi-Trace can be used to generate connection graphs and risk and contact assessments, should an employee test positive for COVID-19. Adding additional anchor units to the system expands this to full real-time contact tracking, giving users access to

heat-maps of areas where social-distancing may be consistently challenging and a full contact tracing history, making enforcing controls much more straightforward. For those mediating employee privacy concerns, the Orbi-Trace system is also fully GDPR compliant.

“The Orbi-Trace smart tag is a combined solution to the challenges employees and employees alike face in ensuring a COVID-secure, compliant workplace; maintaining social distancing, enforcing the correct control measures, contact tracing where needed and, most importantly, giving workers and workplaces vital peace of mind that their safety is top priority.”



For more information about the Orbi-Trace smart tag and Casella's range of market leading personal monitoring equipment, visit <https://www.casellasolutions.com/uk/en.html>

## PENTAGON PLASTICS GROUP



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Whether you are looking to move your existing Plastic Injection Moulding production or sourcing a supplier for a new product, Pentagon will support you at every stage of the process. Delivering a full turnkey solution from one site of UK Manufacture.

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## Pentagon Plastics

The Pentagon Plastics Group provides bespoke, technical plastic injection moulding and full tool making services to a wide range of industry sectors. With a strong customer base spanning Medical, Aviation, Construction, Marine, Security and Electrical, the group are highly experienced in processing high engineering grades of thermoplastics.

Unique in its offering, Pentagon is formed of the Moulding Division and the Tooling Division operating from one site of UK Manufacture.

The groups comprehensive tooling services are facilitated by Pentagon's highly experienced technical team with services including Tooling for in house production, Tooling support for moulders, Maintenance & Servicing, Repair & Modification. They are one of the few UK based moulders to also provide their customers with full on-site mould tool manufacture.

The moulding division is home to 12 injection mould presses ranging in size from 22-280 tonne with a maximum shot weight capacity of 450 grams. The operation is spread across two shifts ensuring production



capacity is maximised and enabling a flexible approach to scheduling. Boasting a wealth of experience, the mould setters are technical experts allowing them to process low to medium volume injection mouldings to exacting standards.

There are huge benefits to working with a company such as Pentagon where all elements of an injection moulding project are catered for from one site. Continuity throughout the life of a project, accountability for all work carried out, core understanding of your project from the outset, and one central point of contact for all stages of your project.

To find out more about the full scope of services offered by Pentagon visit [www.pentagonplastics.co.uk](http://www.pentagonplastics.co.uk) or call direct on 01403 264397. If you have a new or existing injection moulding project that you would like quoted, email your CAD data and project requirements to [websales@pentagonplastics.co.uk](mailto:websales@pentagonplastics.co.uk)

## Extending the lifespan of your pipework

### SYLWRAP

When a pipe leak occurs, repair or replacement is costly and time consuming. Specialist contractors are expensive and may not be available right away, leading to prolonged and disruptive unplanned shut downs.

What if companies could permanently repair and maintain pipework themselves, even on live leaks? Thanks to SylWrap composite pipe repair kits from Sylmasta, this is now a reality.

Sylmasta manufacturers industry-leading SylWrap Pipe Repair composites using an advanced composite prepreg facility at their base in West Sussex. Their SylWrap kits are approved for use by water companies across the UK.

A SylWrap Pipe Repair Kit enables anyone to repair live leaks on pipes of any diameter, carrying water, chemicals and other fluids, in less than 30 minutes - without training.

It is a simple, two-stage process which begins with sealing the leak using Wrap & Seal pipe burst tape, then overwrapping with a water-activated SylWrap composite repair bandage.

The value of a rapid SylWrap repair was demonstrated when Hurricane Maria hit Puerto Rico in 2017. Shortly before the category five storm devastated the island, a damaged contaminated water pipe had brought a section of the power station to a standstill.

The power station kept a SylWrap Pipe Repair Kit on site and a rapid repair enabled the plant to return to full capacity within hours. Had the SylWrap kit not been available, then the generator connected to the damaged pipe would have been remained out of service for months whilst replacement parts and contractors were flown to the island.

This would have meant the power station operating at reduced capacity when Hurricane Maria hit. Instead, SylWrap helped keep the power on at a time when Puerto Rico was in desperate need of all the electricity it could muster during the relief effort.

Sylmasta works with companies worldwide in a range of industries, including wastewater treatment, nuclear power, petrochemicals, construction, quarries, hotels and leisure, food and drink production, and agriculture.

If a company has critical pipes and pipework to look after, then Sylmasta helps keep them flowing.

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## Live leaks stopped in minutes...



## SYLWRAP - Composite Pipe Repair Kits

Permanently repair live leaks on pipes of all types and sizes in under 30 minutes without the need for training. Discover more at [SylWrap.com](http://SylWrap.com)

# Current measurement on an industrial scale



The Isabellenhütte IVT-S Series, brought to you by Rhopoint Components, the solution you never knew you needed!

Calibrated over the total temperature range and fully traceable manufacturing process satisfy even the most demanding customers. This intelligent current and voltage measurement module has the potential to revolutionise a range of industries, such as:

- ▲ Hybrid and full electric drives
- ▲ UPS systems
- ▲ Stationary energy storage systems
- ▲ Fuel cells and battery management systems
- ▲ Transportation systems
- ▲ Traction battery system

This revolutionary module combines a high precision shunt (made using Isabellenhütte's own alloy and resistor technology) with data processing technology, allowing for a plug-and-play solution giving instant and highly accurate results, continuously measured through a selection of 5 current ranges (100A, 300A, 500A, 1000A and 2500A). Readings are delivered via

CAN bus interface, processed utilising a 16-bit AD converter at the speed of 1kHz, all in a package that fits neatly in the palm of your hand!

With a maximum dielectric strength of 1,000 volts, this measurement system meets today's increasingly challenging market requirements. Lithium-ion batteries used in the above systems generate high energy density at which higher voltages can be applied with smaller currents.

These higher voltages are a critical concern when developing these types of technologies, by having a correspondingly high dielectric strength, the IVT-S module stands out over

other competing products. This performance is critical for any fast-charging battery system.

Other modules in the Isabellenhütte precision measurement portfolio include standard, modular and custom solutions within both AC and DC applications for automotive, renewables, energy supply & smart grid, drive technology and other industries.

To find out any more information or for any other enquiry, please contact our sales team today at: T 01342 330470 [sales@rhpointcomponents.com](mailto:sales@rhpointcomponents.com) [www.rhpointcomponents.com](http://www.rhpointcomponents.com)

## 48" TFT-LCD Display Spanpixel series

New from Litemax, the SSD4805-Y from the Spanpixel (LCD resizing) series. The 48" TFT-LCD display offers a very wide screen, suitable for sunlight readability and displaying informative messages, promotional content and high resolution imagery.



Standard LCD displays come with standard aspect ratios, which would not fit in spaces such as on-board train cars, taxi tops and much more. The 48" wide screen features aspect ratio 16:4 and resolution of 3,840 x 720. The screen works to 1,000 nits and has improved power efficiency LED backlighting.

The new model has an operating temperature of 0°C-50°C making it suitable for an enclosed environment like transportation displays.

The SSD4805-YNU offers a display area of 1,194.048mm (H) and 223.884mm (V) and measures 1,223 x 253.4 x 72.2mm with a viewing angle of 178° (H), 178° (V). Available interfaces via AD board are DVI, HDMI and DP.

If you would like further information on this product or any of our Litemax displays, please feel free to contact us with details on your next project or click here to find out more about Litemax.

T +44 (0) 1480 411600  
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[www.displaytechnology.co.uk](http://www.displaytechnology.co.uk)

## Summit Systems' defence screens

The MP for Tamworth has described a unique new range of protective plastic screens being produced by Summit Systems as "a fantastic example of some clever innovation and skill".



Christopher Pincher MP visited the manufacturer, located on the town's Vanguard Industrial Estate, to find out more about how the 'Summit Defence' range of screens, designed to keep social settings safe from - & even prevent - COVID-19 are produced as lockdowns ease. The screens are made using a special type of flexible film and a unique magnetic click-release mechanism to enable easy attachment to desks, walls or workspaces.

Unlike many of the existing protective screens on the market, they are not made from rigid plastic and use a material that is in ready supply, making lead times shorter. Summit has so far supplied variations of the screens to schools, NHS trusts across the country and businesses overseas.

During the visit, Mr Pincher heard from Summit's Managing Director, Mike Jordan, who came up with the idea for the screens, about plans for further expansion, as a result of orders increasing week-on-week. The MP then had a tour of the company's assembly line and shared ideas as to how he could help boost business.

T 01827 214844  
[www.summit-defence.co.uk](http://www.summit-defence.co.uk)

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for more information or to place your order!

# Helping to create a sustainable future

We are proud to feature Imtex Controls for our BP Recommends profile.

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

At the forefront of innovation, Imtex Controls' key offerings are its smart monitors and the Valve Diagnostic Monitoring System (VDMS).

"For over five years, we have been supplying valve monitoring and testing solutions that are easily implemented into both new and ageing assets, to enable operators to log data from shut down valves. These solutions enable operators to meet their HSE commitments and help improve operational efficiencies," explained Jenny Myers, Marketing Manager.

Imtex Controls has also developed the Valvescan™ Diagnostic System, which is an end-to-end solution that captures data from every valve operation, analyses it and provides

targeted alerts on the valve health without any requirement for involvement from plant personnel or any potential impact on the asset real-time control integrity.

This means that the valve will inform the plant personnel ahead of any maintenance or failure, preventing an expensive unscheduled shut down of a plant. It is also technologically ahead of many of its competitors, with a cloud-based application, which allows plant personnel to access the dashboard from



wherever they are, not just on the actual plant itself. It is a true IIoT solution for automated valves and it can revolutionise the way plants maintain and run their systems in the future.

In addition, Imtex Controls is constantly working on improving its hydraulic, pneumatic and electro-hydraulic offering, including linear and low power solutions. Its Camtorc Actuators provide a highly efficient, backlash free operation which in turn helps to maintain the lifetime of the seals and components. They provide high actuation efficiency in a compact design, limiting the space envelope and associated costs of an installation. They also have the longest lifetime value of all actuators; Imtex Controls still has products that are operating in the field after 30 years.

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

"The Low Carbon market will be a key focus for us this year. Our products deliver greater efficiencies and sustainability for these projects, helping to achieve low emission targets. There are several low carbon, CCUS and Hydrogen facilities being developed across the UK now, some that will be at



procurement stage in 2021 and we feel that our products should be considered. With our prevalence in this industry and our quality products, this is an area that we feel we can really offer lifetime value for money as well as products that can help these projects achieve their end goal of a reduced carbon footprint."

Of course, COVID-19 has caused a number of issues for the industry this year, with closed borders and face-to-face business meetings impossible for the foreseeable future. However, as a manufacturer, Imtex Controls are considered key workers, and remain open and operating as usual. "We are not restricted by anything COVID-related and we are set up to operate a COVID-safe factory and business."

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

T 08700 340 002  
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**It is a true IIoT solution for automated valves.**

This system is not only a pioneering development in valve monitoring, it is also;

- Cost effective and easy to install
- Works with all existing valve systems
- Enables data retrieval and transmission to the cloud
- Provides a 'real time health' check on the valve and alerts when performance drop off is detected

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# Boost process efficiency and production output with automation

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

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

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

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

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

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

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

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

DRG's completed automated gun drilling process simplifies completion of large orders with long delivery schedules. Most of the shop's workflow involves long-term contracts



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



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

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



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

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

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

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

Among the other attributes that set DRG Manufacturing apart from its competitors is its commitment to automated equipment. Rybacki realises that some companies may shy away from implementing automated cells because of the



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

upfront time involved in development and set-up.

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

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

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

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

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



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

# Brisk partners with Equipsume to deliver healthcare support to small businesses and the self employed

Business insight and protection platform Brisk has teamed up with Equipsume in a move that's set to open up flexible and affordable health insurance to small businesses and the self-employed who didn't know it was an option.

Brisk brings together big business functions in a secure online dashboard designed specifically for small businesses and sole traders. Through it, members can monitor finances, security, people processes, suppliers, compliance and reputation - and access relevant products and services from insurance to cyber-security assistance.

Members can get a quote and buy insurance through Brisk's digital platform.

Equipsume plans for SMEs start at just £7 per person per month, and include practical benefits people are actually encouraged to use - like 24/7 video and phone GP consultations, as well as professional physiotherapy advice which can easily be completed at home.

The policies cost the same for everyone aged 16-69 and there are no lengthy or intrusive medical questionnaires to answer, meaning businesses

can get a quote in seconds and then... get back to business.

Although it's the first time Brisk has had a health insurance partner, Equipsume expands their wellbeing platform, which already helps SME owners with new starter checklists, health & safety compliance, training courses, and absence tracking tools.

M +44 (0)7879 608886  
james@getbrisk.com  
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## IFL increases its warehouse storage facilities in the Midlands



International Forwarding Ltd has added a new and sorely needed 27,000ft<sup>2</sup> storage facility in the centre of Birmingham, West Midlands, to its portfolio of warehousing space, offering long or short term flexible warehousing and storage solutions. The site has a range of modern handling equipment including 2.5 tonne capacity container spec forklifts. This is in addition to a 2,000m<sup>2</sup> secure warehouse storage facility which opened in the Midlands last May as part of the company's growth plans and quickly filled up.

The now full unit opened in May 2019 and almost doubled IFL's warehousing space at the time. The storage facility is part of a larger two acre site, which the company took over in April. The site includes 24 hour security and yard space for vehicle parking and trailer storage. It is located next to IFL's existing offices and hub in Coleshill, Birmingham, close to the M1, M5, M6 and M42, and 10 minutes from Birmingham International Airport.

### Extra warehouse storage at Birmingham hub

The timing of this major expansion in the company's facilities is particularly opportune as several existing customers require additional warehousing to protect their supply chain against Brexit-related issues. It also gives the sales team the tools to acquire additional forwarding and pallet distribution contracts from new UK and overseas-based customers. The existing management team will control the physical freight handling and the back-office functions for the new site.

### 30 years of IFL in the Midlands

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

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

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# How to effectively protect your workplace

Is following the government's advice enough? It's all good and well washing hands regularly and maintaining a 2 metre distance but is there anything further we can feasibly do to protect our office spaces and workforces?

The simple answer is yes there is actually a lot of cost-effective equipment that could be put in place quickly and easily to actively assist in lowering or eliminating

the viral risk in offices and shared spaces. More air changes, more ventilation, whether this is in the form of opening windows or increased mechanical ventilation, diluting the viral load with this method will lower the risk but obviously not eliminate it and does nothing for anything that may be hiding on surfaces, door handles, keyboards or other office equipment with a surface capable of transferring pathogens between

individuals. Air Filtration, again similar to above, anything captured in the filter will be removed and eliminated providing the filtration is up to the correct standard. HEPA filters should be of medical grade H14.

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## New distributorship for Cinderella eco solution

LeeSan continues to support Cinderella as the sole UK distributor of Cinderella Eco Solution incinerating toilets.

Cinderella Motion represents an entirely new concept for waste handling in Off-the-Grid locations, Marine craft, mobile homes and recreational vehicles. It is now possible to get rid of toilet waste in a hygienic and simple manner.

The end product is just clean ash. The toilet may be used around 70 times before emptying is required. Cinderella Motion is a further development of the popular Cinderella incineration toilet currently installed by over 60,000 users worldwide.

An incineration toilet is a toilet in which waste products, urine and excrement, are incinerated at a high temperature, leaving only an insignificant amount of ash.

Available around the world for decades, incineration toilets are a commonly used alternative in mountain cabins, remote areas, tiny homes, off-grid structures and other residential and



commercial applications without easy access to public utilities.

Since incineration toilets do not require the installation of a water supply or costly septic systems, and do not demand ongoing and messy work to process waste, their slightly higher unit price is heavily offset by lower maintenance over time, providing a substantially lower total cost of ownership than other solutions, both in terms of money and headache.

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## Thermal Effluent Decontamination Systems – The hottest addition to your sewage system



A recent research paper—Pandemic danger to the deep: The risk of marine mammals contracting SARS-CoV-2 from wastewater—showed how COVID-19 in wastewater could infect aquatic mammals, serving as a reminder of the environmental risks posed by unsterilised wastewater.

While the UK's wastewater treatment infrastructure mitigates most of this threat, some buildings require on-site wastewater disinfection integrated into their drainage system. Examples of this include sites working with genetically modified organisms or dangerous microbes, or any site discharging wastewater into environmentally sensitive locations.

Historically, wastewater has been disinfected in Chemical Effluent Decontamination Systems (EDS) using a hazardous and aggressive chemical sterilants. These substances require specialist storage, regular renewal, and manual handling. Once the wastewater has been sterilised in a holding tank, disinfectant neutralisers—which carry their own risks and requirements—must be added before wastewater is disposed of. Alongside the health risks of this sterilisation method, there are other shortcomings. While the procedure eradicates most micro-organisms from effluence, hardier bacteria and viruses may survive. Furthermore, harmful sterilants and neutralisers can remain in the effluence, potentially contaminating downstream watercourses.

A safer and more cost-efficient mechanism lays in Thermal EDS, which employ steam generators to sterilise wastewater by heating it to over 121°C. Installed into the lower floors of facilities, these devices require no manual input and little maintenance. These steam-heated devices are more thorough than chemical sterilisers, capable of eradicating all bacteria, viruses, and microbiology that enter them. Effluence leaving a thermal EDS is not only completely sterilised, but also has no hazardous additives.

Thermal EDS function in a similar way to autoclaves; devices that use heat and pressure to sterilize materials. Astell Scientific Limited, an autoclave manufacturer with a 137-year pedigree, produces steam-heated EDS under the brand name of AstellBio. "We are proud to provide a cleaner and simpler method of decontaminating waste, which is more hassle-free and requires fewer support facilities than alternative methods" said AstellBio's Sales and Marketing Director, Paul Birchmore.

[www.astellbio.com](http://www.astellbio.com)

## NEED CHEMICAL-FREE WASTEWATER & SEWAGE DISINFECTION?

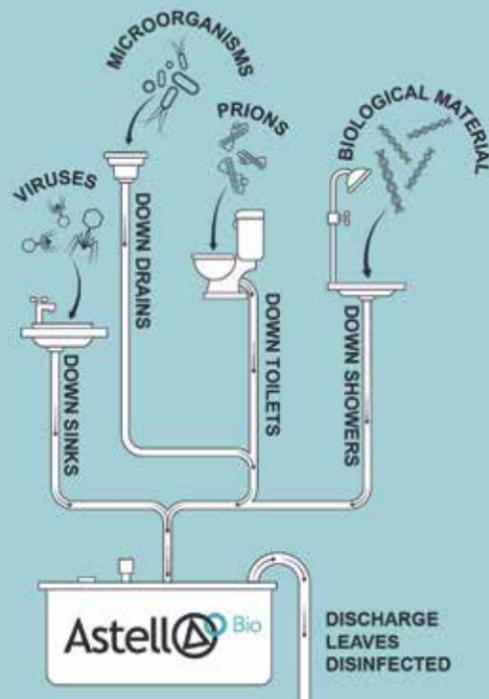
Disinfect it with **AstellBio**

Providing a facility with wastewater & sewage disinfection could not be easier. Simply install an AstellBio Effluent Decontamination System (EDS), and everything washed down the drain is sterilized before it enters the sewer system.

Chemical-free and low-maintenance, the AstellBio EDS can sterilize bacteria, viruses, prions, and other biological substances – including genetically modified material.

**PERFECT FOR:**

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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.



With its comprehensive product range and excellent customer service, CAMB Machine Knives really is a cut above the rest.

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

Contact  
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sales@camb-knives.co.uk  
www.camb-knives.co.uk



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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- BOTTOM KNIVES
- CARPET KNIVES
- CIRCULAR KNIVES
- CONFECTIONARY KNIVES
- GRANULATOR KNIVES
- POULTRY PROCESSING KNIVES
- POULTRY UTILITY BLADES
- STRAIGHT KNIVES
- TOBACCO KNIVES
- TOOTHED KNIVES
- TOP DISHED KNIVES
- TRAY FORM KNIVES
- COFFEE GRINDER BLADES (INSTANT COFFEE)



We have been supplying our knives worldwide for over 30 years.

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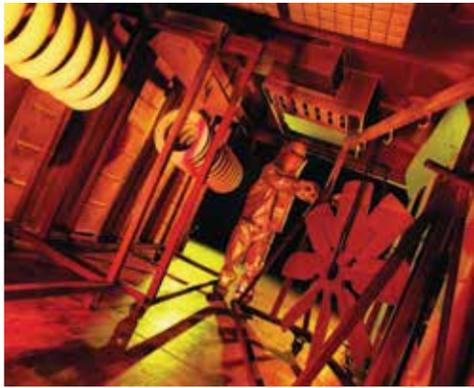
# Curtiss-Wright Surface Technologies



Curtiss-Wright Surface Technologies (CWST) provides high quality surface treatments for improving the life and performance of critical components through its global network of over 70 operating divisions and specialist onsite teams.

Building on the unique heritage of Glenn Curtiss and the Wright brothers, Curtiss-Wright Surface Technologies has a long tradition of providing innovative solutions and building solid and trusted customer relationships.

Our UK and Ireland facilities have all remained operational throughout the current Covid 19 crisis and we have been able to support the continued processing



of critical parts for the manufacturing industry and supply chain.

The company's surface treatments have been successfully used by OEMs in major industries such as aerospace, automotive, oil & gas, subsea, medical and power generation for many years.

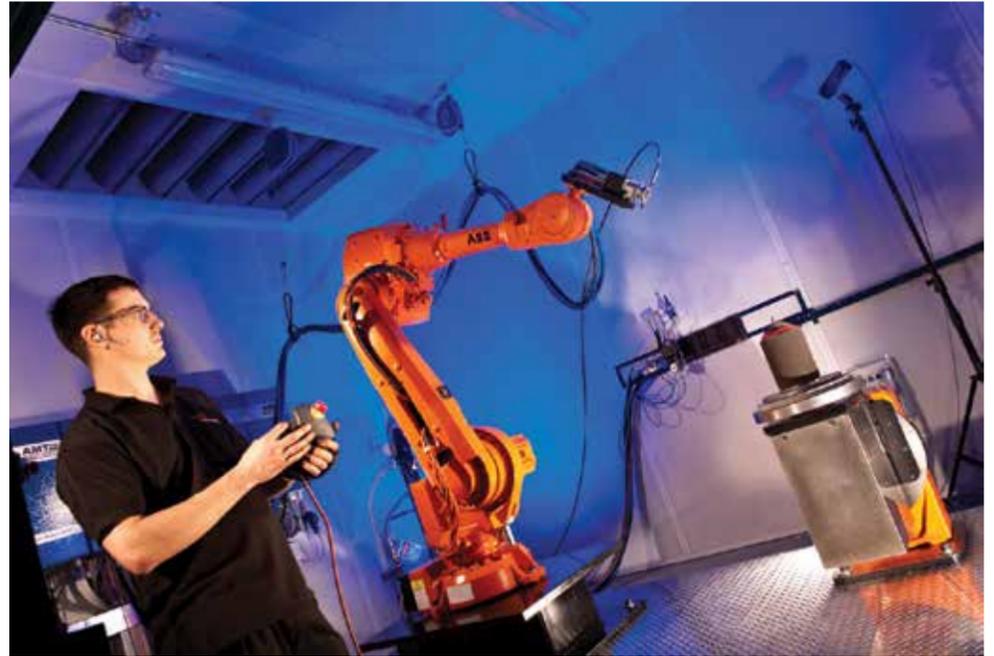
'We are only too aware of the logistical challenges and costs faced by our customers and so we can offer a 'One Stop Shop' solution, providing a wide range of surface treatments including Controlled Shot and Laser Shock Peening, as well as engineered coatings such as Thermal Spray and Parylene Coatings for silicone, plastics and electronic components

Component failure is usually due to a sequence or combination of events that can initiate from the design and choice of materials through to manufacturing processing and assembly including the application of heat, welding and grinding, as well as machining and distortion of the part due to bending, rolling or forging.

In services conditions can also contribute to the failure of a part such as variation in temperature and environmental conditions, uneven, high or low cyclic loads or stress profile, compression, torsion and bending as well as foreign object damage.

Matching the maintenance needs of the component to its operating conditions and environment is also important to reduce the effects of ageing and wear. Curtiss-Wright Surface Technologies support every stage of the manufacturing process from design and new manufacture through to in service maintenance, repair and overhaul of components - increasing the strength and performance of critical parts and reducing costs.

For more information visit our website at [www.cwst.co.uk](http://www.cwst.co.uk) or email [eurosales@cwst.com](mailto:eurosales@cwst.com)



## Curtiss-Wright Surface Technologies, Everlube products & Coating Services

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# Pick Protection that is right for your organisation

If you're familiar with lone worker solutions, you'll know they usually come in the form of dedicated GPS devices that link to a 24/7 alarm receiving centre (ARC) and are usually accredited to BS:8484.

When the employee is in distress, they can activate an SOS alarm and the centre will follow a pre-defined escalation protocol.

The landscape for protecting lone and

at-risk workers is changing as technology evolves. There are now many more options to choose from to ensure you have the right solution in place to best mitigate specific risks.

Smartphone applications are fast becoming the most popular form of protection, not only as they are the most cost-effective solution but since employees always carry their phone on them and keep it charged, it results in a

much higher rate of user adoption. Our App can also be paired with a wearable Bluetooth trigger to make SOS alarm activation even easier.

Other options for monitoring now include companies using their existing security resource or control rooms as opposed to external ARCs, or programming personalised emergency contacts to be the first point of call. Both these options can strip out two-thirds of overall costs.



How could you best protect your employees?

T 0141 229 0048

# Rapitainer provides significant savings

Andy Lomax (Dir., Maxim Product Solutions Ltd.) explains how its innovative reusable transit pack 'Rapitainer' can provide significant savings to businesses. Rapitainers are manufactured in heavy duty twin flute plastic which is lightweight, durable, waterproof and extensively reusable.

Bullen Healthcare Ltd. was the first adopter, using Rapitainers to ship goods from their main DC to their satellite hubs. Bullen had previously spent around £200K each year on 'ever replaced' one trip corrugated cardboard cases, with around £25 worth of cases used on every pallet shipped. Richie Bell (Bullen Warehouse Manager) explains.

We were spending a great deal of money on single trip corrugated cases and wanted to make changes to our operations

in order to reduce our costs. We looked at various returnable packaging solutions but they all seemed expensive to us.

Maxim's Rapitainer was far more affordable and looked to be the most commercially viable option and so we trialled a few units back and forth to one of our satellite hubs.

The product performed very well and after just one month, our data showed a saving of £1,200. We ordered 100 Rapitainer units to service other hubs. Several months into roll out, our data projects savings for the year in excess of £120K (a near 12 fold ROI).

For Bullen, the elimination of the cost of single trip corrugate offset the cost of their Rapitainer units after just 4-5 pallet trips. Customers also benefit from reduced product damaged in transit due to the superior

product protection offered by Rapitainer.

Rapitainers incorporate innovative tapeless closure mechanisms further improving efficiencies - see Maxim's web site for further details.

Rapitainer offers the following benefits

- ▲ Reduced packaging costs - compared to single trip corrugate
- ▲ Rapid payback period - often even before payment due date
- ▲ Reductions in product losses - from water and other damage
- ▲ Enhanced CSR and compliance with the Packaging Waste Directives
- ▲ At end of life Rapitainer is 100% recyclable with no separation of parts

For further information e-mail [andy@maximproductsolutions.com](mailto:andy@maximproductsolutions.com) or search rapitainer.

# Still buying one trip cardboard boxes ?

## You could be saving a fortune !

Maxim's extensively reusable transit packaging is providing **HUGE SAVINGS FOR CUSTOMERS RIGHT NOW**

Compared to a cardboard box at around £1.50 Maxim's 'corrugated plastic' cases will do many trips **at just pence per trip !**

Rental option provides immediate savings with no up front cost

Other benefits include -  
 Rapid tapeless closure (no taping or residue)  
 Superb product protection  
 Bespoke formats available  
 Efficient flat pack volumetric  
 100% recyclable at end of life



Call for a chat or e-mail today to find out more

Andy Lomax (Dir.), Maxim Product Solutions Ltd.  
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[www.returnabletransitpackaging.co.uk](http://www.returnabletransitpackaging.co.uk) (or search rapitainer)

# Hooper Services Ltd

Hooper Services Ltd and TSM Srl are proud to present the willmop 50 - the next generation of floor cleaning innovation!



Within the vast majority of the cleaning industry, personnel are still having to use a mop and bucket, forfeiting the ability to achieve a deep clean.

This is due to the fact that many of the cleaning machines available today are unable to combine the flexibility afforded by a traditional mop with the cleaning power of a professional floor scrubber dryer.

willmop 50 has been ergonomically designed to allow for maximum control with minimum effort; personnel can easily and safely operate the machine with one-hand without any loss of performance or unnecessary strain on the body.

It's time to say "good bye" to the traditional mop and bucket!

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# New Titanium swivel produced by Rotaflow

For over 40 years, Rotaflow has produced thousands of swivel joints that are designed to cope with high water pressure in hoses, deep sea oil wells, sub-zero climates, strong winds, long term sun exposure and a variety of corrosive chemicals. The latest swivel joint designed to operate in difficult conditions is a heavy duty Titanium swivel, forming part of a fire suppression system on a North Sea oil rig.

The swivel is a bespoke design with 3 inch nominal bore size and additional bearing races to handle the high loads required by the end user. The swivel also has integral flanges for easy installation and to allow the swivel to carry the high pressure and flow rate.

Titanium has excellent corrosion resistance properties, especially when dealing with long term exposure to sea water. It is light weight yet incredibly strong & able to cope with the extreme water pressure and weather conditions it'll be exposed to over many years. The customer advised the swivel absolutely had to be constructed from titanium. It was in May 2020 that the order was agreed. The swivel was manufactured in house, fully tested and delivered to the customer early July. Installation & full use occurred shortly after.

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# melaphone

visual audio

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## Melaphone Speech Unit

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In use for  
over 50 years



## 50 Year old product makes dramatic comeback to help beat the virus

When the Melaphone Speech Unit was designed 50 years ago for the booking offices at British Rail stations, nobody could have predicted that half a century later it would suddenly be in such high demand. The current Corona Virus Pandemic had created an urgent need for all protective equipment -both for personal use and in the working environment. This is the reason the Melaphone has come into its own again. Its unique design, with its resonating membrane and air-sealed constructions, make it the ideal device to install in any situation where face-to-face communication occurs. It not only offers protection from air-borne viruses and pathogens, it also enhances and clarified the frequently muffled sound when people speak through a screen.

Its protective credentials have been certified to ISO 14644-1 Class 5 -indeed, it has often been specified by architects and designers for use in hospitals, laboratories and clean rooms or anywhere hygiene is of paramount importance. It is a simple but really ingenious invention which requires no servicing, wiring or electrical supply. And it is very easy to keep clean and safe with an antiseptic wipe.

The Melaphone has now been built into the new Defender Virus Screens produced by the company and numerous doctors' surgeries, medical centres, clinics and pharmacies in the UK have had these screens installed-the considerable success and approval. The screens are individually made and every component is of the highest quality, giving a clean, sleek and professional appearance in any health-care environment.

The Melaphone is still available as a stand-alone unit for installation into walls, glass or plastic screens, windows or doors. It can easily be retro-fitted into existing structures and requires no special skill to install. The range has been expanded to meet the growing demand for the units. In addition to the original brushed aluminium model there is a stainless steel model, a white powder-coated aluminium model and the newest and highly successful Himacs acrylic-resin model, which is at a very popular price. All of these models are available from stock and can be purchased from Melaphone VisAudio. Even after 50 years, we're proud to still be able to say 'MADE IN THE UK' at our London production facility.

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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. 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 McNaull, 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 protectivewear 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."

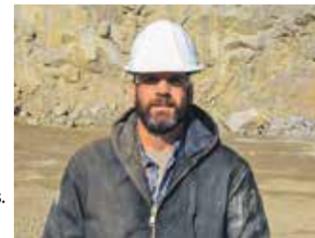
**About INVISTA**

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

fibers. The company's advantaged technologies for nylon, spandex and polyester are used to produce clothing, carpet, car parts and countless other everyday products. Headquartered in the United States, INVISTA operates in more than 20 countries and has about 10,000 employees.

Get in touch with a member of the CORDURA team.

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Power Management devices are in high demand for many customer products. We can support these requirements with over 5 billion units of power-related products, including over 400 million units exhibiting long lead-time. These items cover products such as switching and low-dropout regulators, voltage references, bridge and gate drivers, power supervisors and monitors, and battery management devices. Additionally, we offer a large selection of IGBTs, MOSFET, and bipolar transistors, gate drivers, and diodes.

Logic devices are another product group where lead-time is having an impact on production. We have stock of over 1.7 billion units of which 91 million units exhibit long lead-times. These products include many multi-source devices available in footprint compatible packages.

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# A new twist on vibration monitoring!

Turn your motors into vibration sensors with Model-Based Voltage and Current (MBVI) systems to reveal hidden benefits

By Geoff Walker, Operations Director, Faraday Predictive

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

But some situations that are getting more

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

A new way of getting vibration readings in

all these difficult situations can be provided by turning your electric motors into vibration sensors by using Model-Based Voltage and Current (MBVI) Systems. They detect the torsional vibration that is excited by a wide range of phenomena inside equipment, not just rolling element bearing faults. They also monitor energy consumption and calculate the energy being wasted by these faults. So your motor can actually tell you more about your equipment

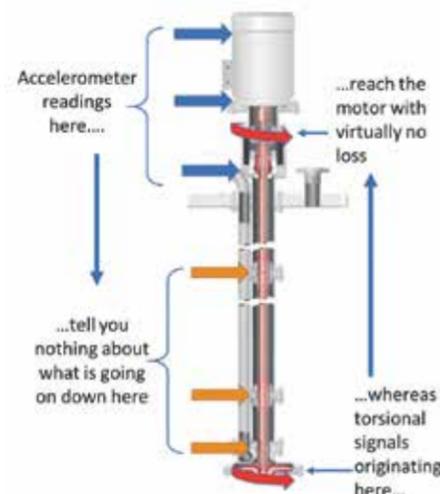
condition than conventional Vibration Monitoring. For a deeper insight into how this technology works, see: [www.faradaypredictive.com/technical-education/mbvi-technology/](http://www.faradaypredictive.com/technical-education/mbvi-technology/)

### Torsional vibration

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

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

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



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



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



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Providers of portable and permanently installed condition monitoring and energy monitoring and optimisation systems. Faraday Predictive systems require no sensors to be mounted on your plant equipment, instead we use the electric motor driving your equipment as the sensor. Simply by measuring the voltage and current drawn by the motor we can identify an astonishing amount of information about developing problems in your equipment, giving you an indication of current condition and predicting future condition for up to three months in the future. We provide easily understood advice on the nature of the fault, how we have diagnosed it, the effects it is likely to have, and what you should do about it. We also quantify the energy being wasted by faults, allowing you to cost-justify corrective work on energy saving grounds.

For more information see our website or contact us direct.

## X-Ray inspection service

Based in Basingstoke, Cupio Services provides one of the most comprehensive electronics X-Ray inspection services, utilising the top of the range Nordson Dage Quadra 7 system with full tomosynthesis & CT capability. With resolution down to 100nm, images and reports can be generated for most electronics inspection applications.

Ultrasonic inspection for delamination and disconnection is also available with the Nordson Sonoscan CSAM systems,

as is detailed optical inspection with the Nordson Yestech M1m and counterfeit detection with the ABI Sentry equipment.

The newly opened laboratory area also doubles as a demonstration area and training facility for the equipment and, with plenty of room, social distancing isn't an issue.

We have also set up remote connections to the systems so that demonstrations can be run from the meeting area rather than

at the system itself.

If you require inspection for production, new product introduction or failure analysis, we can offer turn round times to suit, and if you would like to see how one of our systems would fit within your facility, we would be happy to arrange a demonstration.

Contact  
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## Protect your stock with Abbos



Hundreds of millions of pounds of stock is damaged every year, with little available to help prevent it.

Now, thanks to Abbos, you can get an innovative, easy-to-use and practical solution to protect your stock, saving money and time and creating a safer warehouse environment. "Our Stock Protector is an excellent way of improving warehouse and logistics processes," explained Carolyn Svahn, who is Abbos' Director along with her husband Gunnar, the brains behind the company's invention.

The Abbos Stock Protector is ideal for any company that stores or distributes delicate stock. As a reusable, sturdy and flexible solution, the Stock Protector stays within your warehouse racking with stock delivered directly to it. "It protects the stock on three sides, stopping any spillages. It also helps to improve picking time and accuracy, and reduces the risk of slips, trips and falls thanks to a cleaner environment.

"Furthermore, when an empty pallet is removed the sides of the unit widen, making a guide to deliver the next pallet. It's a patented product, unique to us, and offers a fantastic return on investment - it will pay for itself within the year!"

With the COVID-19 pandemic this year and all its repercussions, businesses will certainly be looking at ways to save money in any way they can. As industry deals with the cost of COVID, the Abbos Stock Protector can help companies to tighten up their operating costs and minimise money lost through damaged stock.

The Stock Protector is available in two sizes to fit the height of standard racking, but can also be customised to suit your requirements if needed. So, whether you're storing food and drink or pharmaceuticals and cosmetics, Abbos' innovative solution will keep your stock safe, your warehouse clean, and your costs low.

Want to find out more? Head to the website to download Abbos' brochure or get in touch directly using the details below.

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We are here to help you in choosing the proper Campisa product installed in any industrial & commercial areas such as logistics centre and warehouse.



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### CHOOSE THE DOCK LEVELLERS

Dock levellers are the first element to consider in the building of a loading bay. We help you understand which one to choose.



### CHOOSE THE SECTIONAL DOORS

The sectional door is the closure elements of the loading bay, a key element for the purposes of energy saving and security.



### CHOOSE THE DOCK SHELTERS

Dock shelters are fundamental parts of loading bays, sealing the room between the van and the building to avoid harmful draughts.

Campisa operates throughout the world through a widespread network of business partners. As a Campisa partner you will be able to offer a highly innovative and quality product. Our dealer network can benefit from effective, timely technical support and Project Assistant service that allows you to analyze project data to maximize security, energy performance and productivity of your warehouse.

www.campisa.co.uk

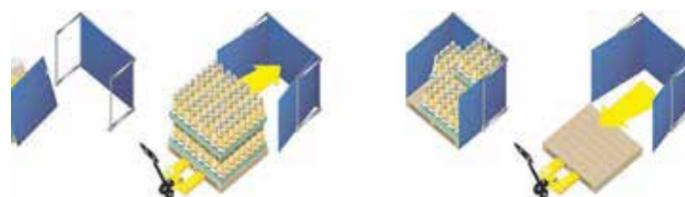


# Abbos Stock Protection

Hundred of millions of pounds of stock is damaged every year and very little is done to prevent it. Abbos Stock Protection works for any organisation that stores or distributes delicate stock.

Re-usable, sturdy and flexible - the cost-effective way to protect your investment - our stock protection is unique as it stays within your warehouse racking and stock is delivered to it instead of lifting the stock into a unit.

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# Schmersal presents prototype for wireless data transmission in heavy industry

In cooperation with aconno GmbH, the Schmersal Group has developed prototypes of an Industry 4.0 switch capable of wireless data transmission over distances of several kilometres for use with extended conveyor systems. The integrated wireless transmitter in the HDS series switches transmits status data for each individual switchgear unit via a common wireless mesh network to a cloud system. The prototypes are currently undergoing practical tests.

The new HDS switchgear series has been developed specifically to meet the requirements of the bulky goods industry. The switchgear unites a range of functions into a single platform, making it suitable for an extremely wide range of applications. Typical application areas include emergency-stop shutdown, belt misalignment monitoring in the transport of bulky materials, end position monitoring in steel making and level monitoring in material silos.

The emergency-stop and belt misalignment

switches in the HDS series now accommodate wireless transmitters made by aconno, allowing diagnostic information to be transmitted from the switches more quickly and with much greater efficiency. The switches have been integrated into a mesh network to enable status data to be transmitted from one node to the next over distances of up to 250 metres. This in turn facilitates communication over several kilometres and will greatly simplify switchgear monitoring in large-scale conveyor systems in particular.

All switching operations can be monitored in real time and online via a web browser on a PC or smartphone. The data from the cloud can be transmitted directly to the control centre or a smartphone in the hands of maintenance and service technicians on site using the web interface or APP.

Malfunctions in conveyor systems are recorded in the cloud immediately and actuated switchgear units can be uniquely assigned,

despite their series connection, allowing for rapid troubleshooting by maintenance personnel. The development makes lengthy searches for faults in conveyor system command and operating chains a thing of the past, minimising the disruption caused by production outages and raising machine availability.

Furthermore, depending on the distance and the environmental conditions of larger conveyor systems, the investment costs for this Bluetooth solution with a wireless mesh network are only a fraction of the system costs of conventional fieldbus systems with decentralised structures.

The German start-up aconno develops customer-specific hardware, Bluetooth and sensor solutions, including Bluetooth chips and a development platform for individual Industry 4.0 applications. The Schmersal Group owns 26% of aconno GmbH.

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## Everything RFID in One Place

We are experts in helping businesses improve efficiency through RFID solutions. RFID, which stands for Radio Frequency Identification, is a technology system that can identify an object using radio waves. At TEC-RFID, we believe RFID technology will bring big advances in retail and warehousing. We make it as simple as possible.

Contact us for more information by emailing [info@tec-rfid.co.uk](mailto:info@tec-rfid.co.uk) or visit [www.tec-rfid.co.uk](http://www.tec-rfid.co.uk)

## How to Implement RFID



RFID has enormous potential to improve the efficiency of warehousing and retail operations. At TEC-RFID, we specialise in helping companies implement RFID projects that really make a difference to their business. Every RFID implementation is different and requires thorough planning and testing before implementation begins.

There are five steps to implement RFID:

### 1. Planning

This stage involves reviewing the current processes in the company that can be replaced by RFID. It will determine whether RFID is practical and whether it will bring positive ROI.

### 2. Scoping

The scoping stage is where you determine what you want to achieve with RFID. This stage allows you to set the goals of a project early on to prevent scope creep, where a project continually takes on more requirements.

### 3. Testing

When it comes to RFID, it is essential to test the readers and tags in the environment where they will be working. There are many factors that can affect performance, such as materials, the proximity of tags to each other and radio signal interference in the environment. The first step is to do an RF survey of the site to determine potential sources of interference. The second step is to test different readers, tags and antennas to determine what combination will offer optimal read rate.

### 4. Implementation

Now comes the time to put this planning to work and start harnessing the power of RFID. You buy hardware and begin implementing the new processes in partnership with an integration partner. It is best to start with a small pilot program, to train a small number of staff and identify potential problems, before rolling the program out across the business.



### 5. Evaluation

It is critical to evaluate and improve your RFID project after implementation. In conjunction with a partner, you can find the weaknesses in the system and find ways to improve your processes.

RFID is a powerful technology but it requires meticulous planning, testing and evaluating to implement it properly. At TEC-RFID, our team of experts are knowledgeable about the entire RFID process.

Request your free RFID Warehouse Solutions Guide at [www.tec-rfid.co.uk/rfid-warehouse-solutions-guide/](http://www.tec-rfid.co.uk/rfid-warehouse-solutions-guide/) or contact our team today to book your FREE 15-minute RFID discovery call to see how RFID what benefits RFID could bring for your business.

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