

Best Practice



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Experts in life extension of materials & critical components



Curtiss-Wright has a commendable history behind them, having been founded by three of the world's most celebrated aviation pioneers, Orville and Wilbur Wright and Mr. Glenn Curtiss, one of the forerunners of naval aviation. Their companies, the 'Curtiss Aeroplane and Motor Company' and 'Wright Aeronautical Corporation' merged in 1929 in order to create Curtiss-Wright. Today Curtiss-Wright is one of the world's leading advanced engineering companies, having diversified and branched out into numerous different technologies across multiple sectors, including commercial and industrial, defence, power, metals, aerospace and much more.

At the turn of the 21st century, Curtiss-Wright had grown into a multi-national company, with global sales of over \$2 billion and having acquired almost 60 businesses. Many of these companies still operate under their original name, such as Metal Improvement Company, Bolt's Metallizing, IMR Test Labs, Component Coating and Repair Services and more who now are part of Curtiss-Wright Surface Technologies. These various divisions offer a wide variety of different specialised surface treatments such as thermal spray coatings, solid film lubricants, shot peening technology and much more.

Curtiss-Wright Surface Technologies, one of its most well-known and international subsidiaries, specialises in providing material surface treatment solutions, focusing on enhancing the performance of critical materials and components. As many of its clients are in heavy engineering based industries, critical components are often of vital importance. Not only do they need to be specially designed to precision specifications, but they need to be long lasting and properly maintained too. Curtiss-Wright Surface Technologies can offer clients a comprehensive material treatments service that covers silicone, plastic and electronic components, coatings, shot and laser peening, material analysis, testing, repair and maintenance.

Curtiss-Wright Surface Technologies can provide mechanical and metallurgical testing services for a range of different materials and components through IMR Test Labs. Curtiss-Wright Surface Technologies uses only the most advanced technology and methods in order to conduct fatigue testing, thermal spray coating analyses, metallurgical and failure analyses, accelerated weathering and corrosion testing, weld testing and much more.

When it comes to engineered coatings, Curtiss-Wright Surface Technologies has a wide scope of services, including providing thermal management, corrosion and erosion, and protection and repair of turbine components. Curtiss-Wright Surface Technologies can provide protective engineered coatings or metal coatings to protect components from the environment, corrosion, heat, and wear. As they can ensure protection for components of any size or complexity, they have a vast client base made up of those seeking their protective coating services, including the aerospace, oil, gas, automotive and medical industries.

Their range of coating solutions includes thermal spray/HVOF coatings, solid film lubricants, liquid coatings, and parylene conformal coatings. Not only that, but Curtiss-Wright Surface Technologies also offer repair and overhaul for gas and steam turbine components, as well as laboratory testing and process verification for: salt spray corrosion testing, U.V testing and development of their own bespoke coating systems such as Everlube®, Microseal, and Flurene Lube-Lok®, sacrificial aluminium coatings, diffusion coatings and pre-treatments.

Metal and material surface solutions are a huge part of why Curtiss-Wright Surface Technologies has become such an internationally recognised name. In addition to their famous controlled shot peening process, the company can provide highly effective and controlled Laser Peening for components in turbine engines, aircraft structures, wing skins and more. This specialist process puts

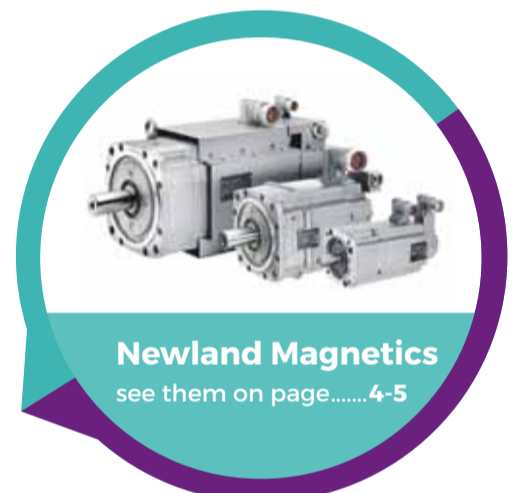


exceptionally deep residual compressive stress in certain parts of a component to prevent crack initiation and fatigue. Not only does this allow the component to resist damage from erosion, strike damage, fretting, and corrosion, but it can also better withstand pressure from both low cycle/high stress and high cycle/low stress situations. Better yet, their laser peening ensures quality control, precise application and poses no risk of process contamination.

Preventing the failure of critical components is a huge concern for clients, and is one of the most highly sought after services from Curtiss-Wright Surface Technologies. Problems can be caused due to any number of reasons throughout the component design process, whether it's the choice of materials used, incorrect assembly, or damage to the parts caused by bending, rolling or forging. Components of any type can be damaged, such as blade roots, rotating rings and tie wire holes used in Aero-Engines, fasteners and stringers used in Airframes, and torsion bars, gears and keyways, which are used to make Crankshafts and more. Thankfully Curtiss-Wright Surface Technologies has a large array of solutions, including but not limited to: C.A.S.E. isotropic superfinishing, Parylene coating, Thermal barrier coatings, Cathodic protection and much more.

If you would like to find out more about Curtiss-Wright Surface Technologies and their many specialised, services and solutions, then be sure to get in contact with the company today. Alternatively, you can find out more about the company by visiting the website below, where information, animations case studies and links to their many services can also be found.

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The UK's domed badge specialist



We supply a wide range of domed badges for all industries which can be customised to include your own design, logo and details. We can print directly from your supplied vector artwork or hi-res PDF's. For a cost-effective and professional way to brand and personalise your products for your market or application contact us by phone or email with your requirements.

Here at Dash Dynamics, unlike many of our competitors, we specialise in small production runs. So if you just need a series of machine panels for a new prototype or low production run, then simply send us your artwork and we'll get on with it.



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Control Panel Graphics

Quality Manufacturing Branding

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The UK's Domed Badge Specialists

Initially established 15 years ago by Eric Sandiford, Dash Dynamics is a small yet efficient company that is constantly growing due



to their excellent services. The company was bought out by David Wilkinson five years ago with a view to develop it further. Based in Lancashire, they manufacture resin domed badges for a variety of industries, with their main focus being automotive companies. Dash Dynamics has grown by

badges are used in an extensive range of applications, such as healthcare, sanitary disposal equipment, schools and machine manufacturers to name a few. Operating mainly in the UK, they provide customer made solutions, manufacturing mainly domed car badges, 3D and Acrylic 4D number plate letters and custom keyrings.

Providing in house design services, Dash Dynamics has three printers and a computer controlled resin doming plant, and they are intending to increase to a second doming plant later this year. Depending on the badge design, they can usually offer a turnaround of under one week. The specialists pride themselves on efficiency, once producing 12,000 badges in two days. With such quick service, customers are always delighted



around 20% each year since being taken over and this year it is on target to grow by 50% over last year, which is impressive given the current economic climate. Dash Dynamics' high quality

with what they receive and often badges can be made the same day ready for dispatch the following.

Indeed, this efficient service is one of Dash Dynamics' main advantages, as well as the ability to provide bespoke products; they don't carry any badges in stock, every single product is different and made bespoke for the client. Possessing an unrivalled willingness to get the job done with services that are built upon speed and accuracy, Dash Dynamics can be trusted to complete every order. Customers are encouraged to discuss their own ideas, which can then be reworked into an eye-catching design by Dash Dynamics' team of highly experienced graphic designers and manufacturers. Furthermore, their website contains a range of videos which explain how the company works and how their badges are made.

Providing products for every area of industry, Dash Dynamics offers control panel graphics, badges, safety badges and branding to all sectors, from leisure to one-off

prototypes. In the past year, they have invested in new printers and cutters, as well as updating their website and partaking in training courses in order to remain ahead of the competition. All of their auto-badges are regulated to automotive specifications, ensuring customers receive exactly what they need. Dash Dynamics



experience. An instructional video showing the number plate jig in action is on their website making training much easier. All their Digits are available ex stock with a normal stock holding of around 75,000 to draw from instantly

As well as their technological expansion and innovation, Dash Dynamics is also investing in student placements in order to help create the future workforce. Students can work alongside the company in graphics, printing, videography and marketing, an experience which can eventually lead to a future career in the industry.

They are also environmentally aware with solar panels fitted to their roof, recycling the waste created during production and, where possible, using aqueous printing techniques in preference to solvent based inks.



use inks that are solvent or latex based and the resin is made from two-part polyurethane. Customers can be assured that the finished product will not go cloudy or fade, and it will be scratch resistant; everything Dash Dynamics produces is of the highest possible quality and durability.

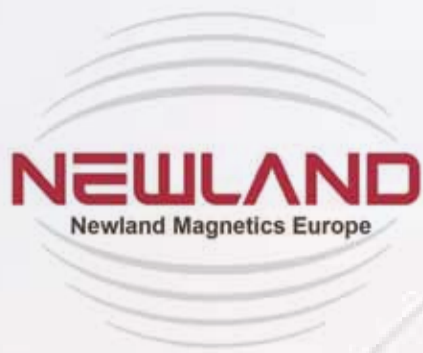


One of the core products of Dash Dynamics are their Resin Domed and 4D Acrylic Car Number Plate digits used in the production of High End Number Plates. In the last year they have sold over 250,000 Digits into DVLA approved Number Plate Suppliers. However the story doesn't end there. Dash Dynamics wanted to make the job of manufacturing surface mounted number plates easier for companies involved in this type of production. To overcome this they spent several weeks developing a specialised Jig System to ensure the dealer had the tools to accurately and easily place the digits to the specifications laid out by the DVLA. This shows real outside the box thinking and their ability to look at issues customers may

It is clear that Dash Dynamics is a strong leader in their field, going from strength to strength and constantly looking to expand with new technology and services. If you would like to find out more information on how they can help you, head to their website or use the contact details below.

Contact
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www.dashdynamics.co.uk





Newland Magnetics Europe SAS

Your total magnetics solution provider

Newland Magnetics Europe with its offices and warehouse located in France, are part of the Ningbo Newland Magnetics group who have been manufacturing Sintered NdFeB magnets and magnetic assemblies for over 12 years. Now with an annual turnover of more than €30M, ISO9001:2015 & IATF 16949:2016 accreditation and production capacity of 1,000tons per year Newland Magnetics is rapidly becoming one of the largest producers of high quality NdFeB magnets in China.

Newland Magnetics Europe can provide material data, technical, design assistance and sampling to assist with your application.

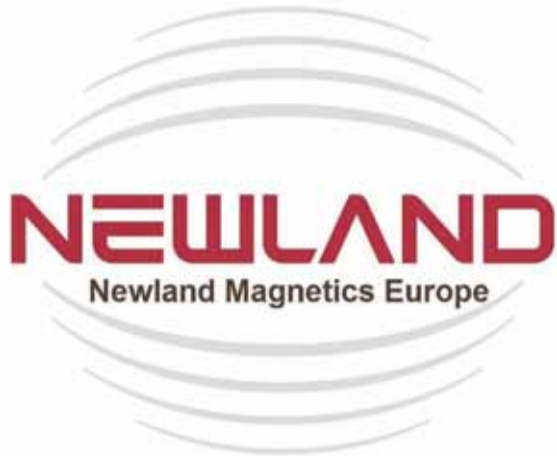
Once in production, we can also provide a range of stocking options including consignment stocking at our location in France or within your own facility. Newland Magnets also supply Bonded NdFeB, Flexible magnetic sheets, magnetic powder, AlNiCo, SmCo, Hard ferrite and complete magnetic assemblies.



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Total magnetics solutions from Newland Magnetics Europe



bonded and powdered NdFeB, Newland also supplies AlNiCo, SmCo and hard ferrite magnet materials, and magnetic assemblies manufactured to the customer's specific requirements.



"Newland Magnetics Europe is not a distributor; we are a subsidiary of Ningbo Newland Magnet which allows us to provide magnetic material at the same cost base as material purchased directly from China, giving us competitive edge price wise over other European Magnet distributors", explained Forbes. "Another advantage is that we can provide the highest grades of NdFeB material and assemblies. We can achieve this by continuing to invest in new test equipment which enables us to control all the key parameters. From compounding our own magnetic powders, to pressing, sintering, grinding and plating, it allows us to produce magnets and magnetic assemblies to a very high level of quality."

Indeed, with an impressive array of successes over the last year, Newland Magnetics Europe is continuing to enhance its offering. "As we move forward, we're focusing more on becoming a component seller as well as providing the magnets. We're getting increasing numbers of customers asking for assembly work, so we're looking to offer more semi-finished components containing the magnets and therefore providing a more comprehensive range of products for our customers.

Best Practice is proud to announce that Newland Magnetics Europe has been chosen to receive our **Magnet Manufacturer of the Year award**, for its outstanding range of leading quality magnets which are underpinned by excellent customer service.

from China. In addition to supporting the existing business, Newland Magnetics Europe also generates its own direct new sales within Europe, the USA and India.

Focusing on customers in the automotive, medical and renewable energy industries, Newland Magnetics Europe can provide material data,

Newland Magnetics Europe is a subsidiary of Ningbo Newland Magnet Industry Corporation Ltd, a Chinese company that has been manufacturing sintered NdFeB magnets and magnetic assemblies for over 12 years. In 2017, it set up its European subsidiary in France, directed by Forbes Crisell.



With business continuing to grow Newland Magnetics Europe recently moved to larger premises, providing additional office space and over 500m² of warehousing. "It's been a challenging 12 months and the market has been pretty tough, but we've still managed to achieve growth, especially in the USA," explained

With over 70% of the company's sales within Europe, Ningbo Newland Magnet decided to set up Newland Magnetics Europe to provide additional local support, allowing customers to communicate in their own language and have access to literature available in French, English, German and Italian. Moreover, the company's location in Europe makes it easier for it to communicate, offering technical support in a customer's own time zone and eliminating the 6hr+ time difference with China. With its storage facilities in France, it can also offer a three-day delivery to any part of Europe rather than extended delivery times when ordering directly

technical and design assistance, and sampling. The company can also provide a range of stocking options including consignment stocking at its location in France, within a customer's own facility, or shipping directly from China. As well as supplying sintered,

Forbes. "We've been expanding not just in Europe but in America too, and we've been establishing lots of new customer relationships in this area of the world.

"We've also completely revamped the website, to make it easier for customers to discover our services and products, increasing customer engagement and making business arrangements more straightforward."

As well as these advancements, Newland Magnetics Europe has released a selection of new products developed by its parent company. "Ningbo Newland Magnet and our key supply partners are constantly finding new innovative products, and the latest additions to the range are microwave Ferrites or Ferrimagnets, which allow smaller low-cost passive microwave components to be produced. This is a great example of how we're always searching for new and different products to meet and exceed our customers' requirements."

"We always attend lots of exhibitions, and next year we're hoping to expand our calendar of events. We'll be attending trade shows in Chicago, Germany and France to try and raise awareness. We're focused on making it easier for customers to find us and discover what we do, and continue to generate new business across Europe and America."

Without a doubt, Newland Magnetics Europe is committed to providing only the best quality and service to their customers in Europe and beyond. If you would like to find out more information on the company's full range of products and services, head to the new website or get in touch using the contact details below.

Contact
T +33 (0)5 45 83 99 59
info@newlandmagnetics.eu
www.newlandmagnetics.eu



Richard Chambers GmbH

Best Practice is proud to feature Chambers GmbH for their **Commitment to Excellence** within the automotive industry. The Chambers family, farming for nearly 500 years near Downpatrick, has been involved in the automotive industry since the start of the 20th century and was building cars in Belfast until 1928. Richard Chambers, the nephew of John Chambers, who was heavily involved as chief engineer for tractor-inventor Harry Ferguson, was involved in the restoration of his uncle's vintage car while he was a child. By the age of just 13, Richard had accumulated enough automotive knowledge to later build his own car.

Richard's father was also working for



Ferguson, running the international Ferguson School. Richard himself would attend the sessions as a child



and was often invited to demonstrate the performance of Ferguson tractors during his school holidays all over Europe including Spain, Belgium, France, Germany and Italy. He also attended night-school in Leamington Spa to learn further languages before his holidays abroad.

Many years on, and Richard now operates

internationally out of Germany with his company 'Richard Chambers GmbH'. His company provides products for the industry and motor vehicles, including motor sport, producing European Champions, and classic cars. The ethos for Richard is, while lowering costs with more performance he is also reducing emissions to benefit the environment and human health.

Richard's company distributes his range of products from Germany, with the popular SX-6000 range which includes engine and gearbox treatments and a fuel system cleaner. The LecWec is the perfect remedy for leaking polymer oil seals. By adding just 3% LecWec to the oil, 99% of all cases have provided a lasting repair. The range of the SX-6000 products also enables the treatment of all oil system oils with the highest specifications and all units which also use synthetic oils. The dB Wec is the perfect noise reduction solution and helps quieten the engine, gears and differentials. This product can be added to all mineral and synthetic oils, and after extensive tests this product has been proven to produce a measurable reduction in noise.

All the SX-6000 oil treatments sold by Richard Chambers GmbH are certified

and have been proven to reduce around 88% wear in all cases, with customers from as far as the USA, Canada and Asia.

Richard's award-winning products are a simple and affordable way to provide engines and other mechanical units with health and longevity. Richard has the ultimate goal to produce products which can help the environment and energy costs, and preserve the life of your machines. No customer has yet disputed the claim that the ROI is at least 700%, so it's not just beneficial for the environment - it's as if the environment itself were



showing how thankful it is!

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Industry News



Absolute Carbon Filters is your new manufacturer and supplier of carbon filters in the UK, supporting all major fume cupboard brands and filter combinations. Whatever the application, we have the solution!

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When it comes to ordering filters, you can order via our online shop, your Account Manager or by opening an approved customer account. Whichever method you choose, our aim is to provide the best procurement solution for your business.

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Expert stockist and distributor of stainless steel fasteners



Best Practice is proud to announce that Precision Technology Supplies has received our **Best of Britain award**, for its dedication to providing only the best products and fastest delivery times to its extensive range of customers, remaining at the forefront of its sector for over 30 years.

Precision Technology Supplies was established in February 1988 by Stephen Edwards, and is based in East Grinstead, West Sussex. "As the company started in East Grinstead a lot of our

staff are local and so we like to be loyal to both customers, suppliers and staff alike," said Andy Knight, Sales Director.

As a stockist and distributor of stainless steel fasteners, Precision Technology Supplies is a one stop shop for a vast range of quality products, ensuring it provides highly efficient customer service. "Our whole ethos is about offering a quality product and service to our customers," explained Andy. Indeed, Precision Technology Supplies can be relied upon to deliver to its broad range of OEM and distributor customers, who cover numerous different industries in over 90 countries across the world.

Precision Technology Supplies ensures it delivers unrivalled service every time. "As our range consists of over 50,000 lines it is difficult to pinpoint a best seller. However, our core ranges of hexagon bolts, nuts, washers and socket screws are always good sellers." In the UK, the company provides a variety of stock options for its many customers from fully managed stock to data transfers and webshop punchout systems. Precision Technology Supplies also offer additional services of plating, modification and patchlocking of fasteners.

"We continually expand our range and over the last year we have introduced Nord-Lock washers and a range of construction fasteners, and later this year a range of Philidas Allmetal Locking nuts will be added" said Andy.



One of Europe's leading importers and distributors of Stainless Steel Fasteners and Precision Turned Parts

PTS Ltd have over 25 years experience managing a growing number of customer production lines on-site to ensure 'just-in-time' delivery. We offer many variations of Direct Line Feed management to suit individual needs.

Plating

We have the facilities to plate standard and special screws in most materials. The most popular of these is our 'Touch-Dry' Chemi-Black process, currently used by an increasing number of customers in high-tech industries. Also known as 'Black Oxide', the finish is so thin it does not affect any dimensional tolerances.

Other finishes offered include Gold, Nickel, Silver and Zinc (Rohs Compliant).

Patchlocking

Ideal for vibration resistance and added torque performance. We offer a number of options to suit your requirements.

Screw Modifications

We provide a modification service for our customers from 1.6mm diameter fasteners upwards to customer drawings and specifications. This can be a cheaper and faster option than manufacturing, especially where smaller quantities are concerned.



Certainly, the Nord-Lock washers are an excellent addition to Precision Technology Supplies' catalogue. Along with the Philidas nuts, this is just one example of how Precision Technology Supplies is striving to offer only the highest quality products to its customers.

"We are all about the quality of the product and the levels of service we offer," Andy explained. Certainly, Precision Technology Supplies has consistently invested in its people in order to offer unrivalled market knowledge and customer service, building a solid reputation for excellent quality in everything they do. Their supply chain partners are chosen to be in line with the company's commitment to quality, and all of Precision Technology Supplies' products are batch traceable and clearly labelled with the customer's part and order numbers. What's more, Precision Technology Supplies has built a stellar reputation for the quality of its packaging.

"We are pleased to receive this award as it shows the team how we are doing and how we are perceived by others" Said Andy

"We have been going for over 30 years and with consistent growth we believe we offer the best solution for anybody looking for stainless steel fasteners." PTS always makes sure to exhibit at the bi-annual Fastener Fair in Stuttgart, and were in attendance during the event in March this year. If you would like to find out more information on their full range of products and services, head to their website or use the contact details below.

T 01342 410758
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 - Everlube® Dry Film Lubricants
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 - Parylene – ultra high biocompatible conformal coating with moisture and barrier protection – USP Class V1, ISO 10993 tested and MAF 1176 on file with FDA
 - Organic and inorganic overlay and diffusion coatings suited to the gas turbine and aerospace industries
- Material Analytical Services



**For more information and full worldwide contact details:
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Systems for On-Demand Box Production



Perfect Bindery Solutions presents a comprehensive range for the on-demand production of short-run luxury boxes. High quality boxes have long been used in special editions of confectionery, perfumes and spirits, but now they are also being specified for photobooks, exclusive property development prospectuses, artbooks and similar high-value and luxury products. Short runs are also increasingly popular for test marketing exercises of new product lines. Many of the machines can also be used to produce cases for hard cover books.

The range, which is manufactured by Italian niche application specialist IML Machinery, includes equipment for finishing both the board and the cover sheet. Processes include grooving, corner cutting, edge and corner taping for the board, and cutting/trimming, sheet gluing and box wrapping for the cover material. The latter process is of particular interest.

The DA900 is a unique system for wrapping the glued facing sheets onto

the formed boxes; it ensures consistently accurate and professional wrapping of finished boxes up to 430 x 350 x 120 mm in size, at speeds of up to ten per minute. The smallest size at 80 x 65 x 10 mm is ideal for the jewellery sector. The new range is marketed under the 'Perfect Box Solutions' brand banner.

For PBS's Steve Giddins, a noted authority on bindery processes and finishing applications, the initiative represents a decisive opportunity for established trade specialists and commercial printers to add value and differentiate their offering:

"Over recent years we have seen a determined effort by printers to find products and services that will win them new work in more valuable market sectors, so we've seen a rise in perfect binding, casebinding, embossing, laminating, foiling and so on. The high quality presentation box is the latest,



and perhaps the most impressive, value-add in that sequence and our 'Perfect Box Solutions' range brings what used to be a labour-intensive craft process within the sphere of enterprising commercial printers, enabling them to fill their workflow upstream and boost their bottom line."

"This range will also appeal to specialists already operating in the field to complement their existing longer run production methods, and the beauty is that most will already have some of the processes in-house, so it's just a question of picking and mixing for them to significantly add to the services they are able to offer their customers."

Perfect Box Solutions have now added CAD software to their range of packaging solutions. They have teamed up with Four Pees to offer a complete solution, from start to finish, for all of

your packaging requirements. Not only do they have everything you need to produce your luxury boxes with the IML modular box making system, but they now offer Picador, the CAD software you need to design your boxes first! This is a must have for designers in the packaging industry!

Picador is the fast go-to-market CAD software for packaging designers looking for labour-saving, cost-effective and serviceable designs. It creates efficient 2D designs, based on an elaborate, extensible database library, immediately rendered into a 3D revision. The Swift operation and accessible visualization perfect suit prototyping and small series production cutting creations.

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PERFECT BOX SOLUTIONS

Luxury BOXES ON DEMAND!

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Perfect Box Solutions have teamed up with **Four Pees** to offer a complete solution for all of your packaging requirements! Not only do we have everything you need to produce your luxury boxes with our **IML** modular Box Making System, but we can now offer **Picador**, the CAD software you need to design your boxes first!!



2D & 3D DESIGN • BOARD & COVER MATERIAL PREPARATION • GLUING • TAPING • BOX WRAPPING

FOUR PEES
FOR PRINT & PUBLISHING

PICador

PERFECT BOX SOLUTIONS **PERFECT BINDERY SOLUTIONS**

Picador is the fast go-to-market CAD software for packaging designers looking for labour-saving, cost-effective and serviceable designs. It creates efficient 2D designs, based on an elaborate, extensible database library, immediately rendered into a 3D revision. The swift operation and accessible visualisation perfectly suit prototyping and small series production cutting creations.

Perfect Box Solutions is a division of Perfect Bindery Solutions. Our IML Box Making System comprises board grooving, corner cutting (board & cover material), gluing, corner taping and box wrapping. You can produce top quality, accurate boxes made to precise dimensions for all types of products, including jewellery! 3D printer tooling available to create dies for all box sizes in house.

PLEASE CONTACT PERFECT BINDERY SOLUTIONS FOR MORE INFORMATION ON HOW WE CAN HELP YOU WITH YOUR ON DEMAND, DIGITAL AND SHORT RUN BOX PRODUCTION!

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Lorax to moderate session at Sustainable Packaging Coalition Conference



Michelle Carvell, Director and COO of environmental reporting specialist Lorax Compliance, has been announced as a moderator for the Sustainable Packaging Coalition's (SPC) Engage: London conference. Taking place between 23-24 October at The Design Museum in

Kensington, the event will help brands and retailers understand how to align their sustainability goals with larger global frameworks and commitments.

Carvell will moderate the 'Making Sense of the Evolving UK and EU Legislation Around Recyclable and Compostable Packaging, EPR and Single-Use Plastics' session, which explores how legislation in the UK and Europe is addressing the issues surrounding used packaging and recovery. Speakers include Juan Manuel Banez-Romero, Senior European Public Affairs Manager (sustainability) at Mars Inc; and Virginia Janssens, Managing Director of the European Organization for Packaging and the Environment (EUROPEN). A highly-experienced environmental reporting

expert, Carvell co-founded Lorax Compliance in 2014 to help companies manage the escalating scope and complexity of environmental compliance. In the five years since, the company has produced more than 6,000 reports on half a million tonnes of packaging, 45 tonnes of battery data and more than 3,700 tonnes of electrical equipment.

"Being asked to moderate such an influential session at this year's SPC Engage: London conference is a huge privilege," commented Carvell. "Alongside discussing quickly-evolving legislation from across the UK and Europe, we aim to share perspectives and examples from some of the industry's thought leaders to bring real clarity

to this complex landscape."

Lorax delivers environmental compliance software (SaaS) and consultancy to companies who need to comply with local, national and global extended producer responsibility (EPR) waste directives. Earlier this year, the company acquired US-based consultancy Environmental Packaging International (EPI) to provide a wider global service offering, combining Lorax's strengths in compliance data and technology with EPI's expertise in customised research and metrics tracking.

For more information about Lorax Compliance visit www.loraxcompliance.com

EPI set to present at USA's Northeast Recycling Council conference

Environmental Packaging International (EPI), a division of EPR and sustainability reporting specialist Lorax Compliance, will take part in a panel discussion at this year's Northeast Recycling Council Much Ado About Plastics conference. Taking place in Providence, Rhode Island (29-30 October), the event brings together delegates from across the US to discuss timely topics in the source reduction, reuse, recycling, composting, and green purchasing industry sectors.

Victor Bell, US managing director at EPI, will deliver a presentation exploring extended producer responsibility requirements for packaging and providing his insight into the global plastics crisis. He will also participate in the 'managing plastics' panel discussion, alongside representatives from More Recycling and the Product Stewardship Institute.

Victor commented: "With countries around the world implementing Extended Producer Responsibility (EPR) programmes, customers are demanding more environmental data resources and sustainability factors from brand owners than ever before. EPI and Lorax Compliance offer a full range of services to help clients anticipate requirements and respond efficiently.

"Presenting at Much Ado About Plastics provides an excellent opportunity to discuss the latest industry challenges and opportunities with delegates. Each NERC event is designed to provide attendees with the opportunity to learn, share ideas and network with others."

Environmental Packaging International is a consultancy specialising in environmental compliance, product stewardship and sustainability goals. The company merged with UK-based Lorax Compliance in 2019 to provide a wider global service offering, combining Lorax's strengths in compliance data and technology with EPI's expertise in customised research and metrics tracking.

For more information about EPI, visit www.enviro-pac.com. For more information about Lorax Compliance, visit www.loraxcompliance.com





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Station Outfitting/Tunnels/Utilities

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- / Pit Steelwork
- / Support Platforms, Ladders and Gantry Bridges.
- / Pipe Spools
- / Miscellaneous Temporary Steelworks
- / In-Situ Tunnel Welding Support



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Business Development Manager

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Precise gundrilling machines for all industries



Best Practice is proud to feature UNISIG for being a world-leading provider of complete deep hole drilling systems. For nearly 40 years, UNISIG has offered tools, automation systems and machines for any deep hole drilling purpose, remaining at the forefront of its industry and constantly developing its products to provide the highest quality solutions.

UNISIG was established in 1981 by the Swiss Industrial Group (SIG) and the US company United Technical. In 1995, UNISIG was acquired by Entrust Manufacturing Technologies Inc., which allowed for further growth in innovation and expertise with heavy investments in UNISIG's deep hole drilling machines. Offering tools, automation systems and machines for any deep hole drilling purpose, UNISIG is at the forefront of its industry, constantly developing its world-leading products to provide the highest quality solutions to its customers.

As one of the largest producers of deep hole drilling machines in the world, UNISIG's customers range from small job shops all the way to large OEMs that need to drill millions of holes. Certainly, with such a wide-ranging customer base, it is essential that UNISIG maintains a steadfast commitment to upholding its industry-leading services, a standard which has been sustained since its inception 38 years ago. "UNISIG is always working to build heavier, more rigid machines," explained Philipp Steimle, Managing Director. "These are capable of drilling the toughest high-alloy steels, not just once but day in day out, for major players in the oil field and aerospace industry. We are heavily focused on improving deep hole machining as a whole, by spending around €2.8 million in research and development every year."

Indeed, UNISIG possesses a strong understanding of the deep hole drilling process, drilling tools, and their applications, gaining years

of experience from solving real problems for customers and learning what they need from the machines they use. UNISIG then applies this knowledge to its systems, not just reaching performance standards for deep hole drilling machines, but setting them, driving constant improvement and benefiting the entire industry.

Offering a full range of machines, UNISIG has standard models which can drill holes of less than 1 mm diameter in titanium medical components, while on the other end of the spectrum they can build machines that drill holes which are 500 mm in diameter and over 10 m deep in huge high strength forgings.

Philipp also told us about some exciting recent developments

for UNISIG. "We have just added another five models to the USC-M series deep hole drilling and milling centres for the mould industry. These have a substantially stronger milling capacity and full support for indexable gundrill tools, as well as BTA tools in some models, which allow mould manufacturers to literally cut their production times in half."

UNISIG's USC-M series is for manufacturers who have the opportunity to benefit from a combination of deep hole drilling and milling operations. The machines in this series maximise production by offering the fastest deep hole drilling with milling, with 5-axis positioning in order to perform a range of complex machining in a single machine and setup. Offering a full range of solutions for manufacturers, the USC-M series includes heavy weight table capacities, a rotating A-axis, automatic tool changers and intuitive controls on each machine.

"We are also currently upgrading our UNI and UNE series of gundrilling machines, which are mainly used in industrial environments, contract manufacturing shops and the medical field. Simplifying integration of automatic loading and versatility will reduce cost and lead times significantly. What's more, UNISIG has just invested in a 3,100 m²

climate controlled extension of our headquarters in Menomonee Falls, Wisconsin, USA, in order to house the Tech Centre for engineering and gundrilling machine assembly."

Offering unparalleled technical expertise, UNISIG offers remote and on-site services in order to help maximise the value of the investments its customers have made in their equipment. Indeed, these machines can be installed and supported anywhere in the world, thanks to UNISIG's global network. What's more, when a standard machine isn't the most appropriate solution for a customer, UNISIG is able to engineer a custom solution to better meet their needs, while maintaining the same standards of performance and service found in its standard machines.

As a supplement to this global presence, UNISIG attends over 15 shows every year to raise awareness of its products and services. As well as being present at numerous trade shows, UNISIG also has a website where you can find out more information about its full range of machines and technical services. Alternatively, you can get in touch using the contact details below.

T +49 (0)7125 9687590
info@unisig.de
www.unisig.com



Drilling deep to success

UNISIG is the world's leading supplier of the complete deep hole drilling system, offering machines, tools and automation systems whilst working closely with each and every customer to ensure that their drilling project requirements are met. A complete dedication to support and customer satisfaction helps stand UNISIG out as the number one supplier worldwide.

Founded in 1981 by Swiss Industrial Group (SIG) and the US company United Technical, UNISIG provided deep hold drilling equipment technologies to the US market.

A company called Entrust (established in 1973 by John Korosec) acquired the UNISIG brand in 1995 as a product division of Entrust and this coupling helped UNISIG redefine performance expectations in the deep hole drilling market, worldwide. Ever since this merger, UNISIG has dominated the market with its industry leading technologies and continues to radically reduce lead times on projects through its innovations and expertise. I had chance to interview Philipp Steimle, Managing Director of UNISIG's European Sales branch to find out more about the company.

"UNISIG deep hole drilling systems consists of machines, durable tooling and automation, and are designed to meet the highest performance standards possible. Products are engineered and manufactured in the USA using metric



wide variety of clientele including automotive, defence, oil and gas, energy, aerospace and medical companies to name a few, but any sector that needs deep hole drilling will benefit from what UNISIG offers.

"UNISIG deep hole drilling machines are proven with industry leading manufacturers in all regions of the world. UNISIG is chosen for its ability to consistently meet vital demands of tolerance. UNISIG stands out among industry players for its skills in handling large, complex projects including multiple machines and automation, process development and tooling testing, as well as custom engineering and turn-key projects."

UNISIG's latest line of machines, aimed at the mould industry, follow UNISIG's usual trend of creating solutions that are refined and efficient. Mould manufacturers are faced with the challenge of handling large workpieces that require deep hole drilling as well as machining with maximum precision. UNISIG's mould drilling and milling machines are specifically designed with market input to combine operations, reducing setup time and effort,



increasing accuracy, and eliminating design restrictions of traditional machining centres.

"We are currently releasing a whole new line of machines targeted to the mould industry, models USC1, USC2, USC3 that can finish mould production in maximum 2 setups which cuts down production time dramatically while being extremely cost-effective."

If you would like to find out more regarding the deep hole drilling machinery, other products and services UNISIG offers follow the link below for their website, or alternatively speak to them directly regarding your requirements and UNISIG's professional and friendly team will support you every step of the way.

T +49 (0)7125 9687590
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hardware, and include the integration of premium components such as FAG, INA, Parker, Rexroth, Rohm, Schunk, SKF, Wittenstein Alpha and ZF. Products are designed following all applicable ISO, DIN and IEC standard, and are exported worldwide."

UNISIG supplies their products and services to a



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Expert innovators in deep hole drilling systems



Here at Best Practice, we are committed to showcasing the very best products from industry-leading companies. One such company is UNISIG, who's USC-M Milling and Drilling Centres and USC-TS Tube Sheet Machines are revolutionising the deep hole drilling industry in numerous applications and requirements.

UNISIG was established in 1981 by the Swiss Industrial Group (SIG) and the US company United Technical, and is a leading provider of complete deep hole drilling systems. In 1995, UNISIG was acquired by Entrust Manufacturing Technologies Inc., which allowed for further growth in innovation and expertise, investing heavily in UNISIG's deep hole drilling machines. Offering tools, automation systems and machines for any deep hole drilling purpose, UNISIG is at the forefront of their industry, constantly developing their world-leading products to provide the highest quality solutions to their customers.

Their USC-M series is for manufacturers who have the opportunity to benefit from a combination of deep hole drilling and

milling operations. The machines in this series maximise production by offering the fastest deep hole drilling with milling, with 5-axis positioning in order to perform a range of complex machining in a single machine and setup. Offering a full range of solutions for manufacturers, the USC-M series includes heavy weight table capacities, a rotating A-axis, automatic tool changers and intuitive controls on each machine.

The models in the USC-M series are available in a range of capacities and options, with either engineered universal or dedicated spindles. UNISIG offers these in three different configurations: universal gundrilling and milling combination spindle with quick changeover for a range of operations in a single machine; dedicated spindles for BTA+ gundrilling and milling, for powerful machining capabilities and improved feed rates; dedicated spindles for BTA+ gundrilling and milling, plus robust options for an ultimate milling and drilling performance.

USC-M series also comes with a range of machine options, including: Heidenhain glass scales, offering direct feedback in order to improve axis positioning accuracy and repeatability; Renishaw wireless probes allowing workpiece verification, job setup and inspection; automatic radial and axial tool setup to improve accuracy and reduce

tool breakage; automatic tool changers with up to 120 tools; modular fixturing to reduce setup and allow for process planning; and dual pallet loaders to allow for automatic workpiece exchange, improving machine utilisation and unattended machining.

Another of UNISIG's innovations is its USC-TS series for tube sheet deep hole drilling. Certainly, there is no room for error when tube sheet manufacturers require thousands of precision holes in large and high-value



workpieces, and this is where UNISIG's USC-TS series can help. Using multiple spindle configurations and programmable positioning, UNISIG's machines bring confident drilling to heat exchanger tube sheets.

This accurate drilling in fast cycles means that manufacturers can drill more holes with improved accuracy and without risk. The machines have almost limitless weight capacity, extremely large travels, and high efficiency BTA and gundrilling, all on a rigid machine base and column. The spindles are independent and available in two, three or five spindle configurations, and all the USC-TS machines are based on proven USC column-type machines, which have been designed for the specific demands of the tube sheet industry.


With nearly 40 years of experience in deep hole drilling systems, UNISIG is well placed to offer the very best machines in the industry, providing their customers with the reassurance of world-leading expertise and manufacturing skill. If you would like to find out more information, head to their website where you can find the full range of UNISIG's products and services. Alternatively, get in touch using the contact details below.



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Hillside culverts cleared to reduce flood threat

The threat of flooding faced by a community in a Welsh mountain valley is being greatly reduced by a culvert clearance programme carried out by Lanes Group plc.

The drainage specialist has been commissioned by the county borough of Rhondda Cynon Taf to carry out the surface water drain and culvert cleaning work in and around Cwmbach, near Aberdare.

Debris washed down the mountainside and into the culverts during periods of heavy rain and snow melt had greatly reduced the capacity of the culverts, increasing the risk of flash flooding.



Drainage engineers from the Lanes Cardiff depot have worked closely with the county borough's own asset maintenance teams to remove and dispose of many tonnes of silt, stones and large boulders.

Specialist drainage vehicles have been playing a key role in

ensuring the culvert cleaning work can be carried out as quickly, safely and sustainably as possible.

The three-month programme, coordinated by the county borough, has resulted in the systematic cleaning of drains and culverts ranging from 100mm to 1,200mm in diameter.

Lanes has deployed a recycler jet vac tanker as well as a standard jet vac machine to carry out the water jetting and vacuumation work.

Contact
T 0800 526488
sales@lanesgroup.co.uk
www.lanesfordrains.co.uk

World leading printing and labelling technologies

Focus Labels specialise in the design and manufacturing of narrow web presses for use in the label and packaging printing industry. Since their establishment in 1981, the company has been pushing the envelope of design and manufacturing, first making a name for themselves with the launch of their innovative Textile printing machines for apparel labels.

Today, Focus Labels stands as one of the industry's leading manufacturers of Flexographic, Textile label and Hybrid Digital inkjet presses, with a vast client



base that stretches around the world. In fact, up to 70% of their products are still designed and built for global export across the textile, self-adhesive labels, digital, packaging, and even food and drink industries.

Focus Labels champion servo and digital inkjet technology within their modular systems,

allowing users to improve their press-time management and productivity, reducing waste and increasing efficiencies. Their label printing machines are also designed to be user friendly, with a wide range of automated systems that can combine both analogue & digital hybrid printing technologies. Purely British made, their in-house design team and engineers develop customised machines made specific to client needs.

Contact
T +44 (0)1949 836223
www.focuslabel.com

Digital cutters made in Switzerland

The Zünd name is synonymous with the words performance, reliability and quality. Established in 1993, Zünd UK Ltd has rapidly become one of

the industry leaders in the supply and service of precision cutting systems. Situated to the North of London and close to the M1/M25 motorway

network is Zünd UK Ltd.'s sales and service centre offering a full pre and after-sales service and a state-of-the-art demonstration suite complete with

a range of new G3 cutters, cutting table options and finishing solutions. Factory-trained technicians and a comprehensive spares service at Zünd UK ensure that all systems are maintained to the highest level and with a fast response by UK-based engineers.

Zünd UK Ltd offers finishing solutions into a wide range of different markets such as graphics, sign and display, textile, aviation, motor sport, packaging and retail.

Zünd's modular tool and material-handling design means that systems can easily be tailored for specific cutting requirements. Thanks to their modular design, G3 cutters can adapt to ever-changing needs, and the innovative technology and superior manufacturing guarantee reliability and low maintenance costs.

The raw materials used in the composites industry – such as carbon or glass fibre, semi-finished products such as prepreg or thermoplastic sheets, honeycomb, foamcore and more – can all be cut on a single, multi-functional Zünd cutting system.

Zünd cutting systems are systematically geared towards fully-automated production, but they allow for gradual implementation with a wide array of semi-automated options. The primary goal is always to achieve more throughput in less time.

For further information, please visit:
www.zund.com
You can also follow Zünd UK Ltd on Twitter (@ZUNDUK); on Facebook (<https://www.facebook.com/ZundUKLtd>); and on LinkedIn (<https://www.linkedin.com/company/zund-plotting-systems-uk-ltd>)

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Gold for learning partner Astutis

Health and Safety training specialist Astutis Ltd is celebrating after achieving Gold Learning Partner Status from one of the world's leading organisations for providing health, safety and environmental qualifications.

Health & Safety training specialist Astutis Ltd is celebrating after achieving Gold Learning Partner Status from NEBOSH. Astutis received the highly sought-after recognition for excelling in the provision of course tuition and support in health and safety training. The learning partner programme is a quality assurance scheme that recognises those providers who can prove that they meet the principles of best

practice in the provision of NEBOSH course tuition and support. Following accreditation, the Cardiff-based firm also launched two new NEBOSH courses for Occupational Health and Safety, which have a new structure, enabling learners to navigate easily with bite-sized micro learning plus offline study.

T 0845 241 3685



The best labs choose Lemman Instruments

Leman Instruments is a European enterprise known for their high performance products specifically designed for solid, liquid and gas analysis. Leman has a cost-effective approach and offers technology-centred gas generators for use in laboratories, air quality monitoring and more.

Based in Archamps Technopole in France, Leman Instruments was first established back in 2012. The team has over thirty years of business practise which goes into Leman, making it one of the most reliable and trustworthy figures in the industry.

Leman Instruments has a wide range of products and services, from various modules in different designs, all of which

have an involvement with high purity Hydrogen (H₂), Nitrogen (N₂), Zero Air. They also have combined solutions for FIDs, GCs, purge Air generators, CH₄ & CO₂ scrubbers, N₂ and multi gas for LCMS. Their products also feature the possibility of AK protocol integration.

Their products can also be seamlessly controlled using a touch panel or iPad due to the innovative Proton Exchange Membrane (PEM), Pressure Swing Absorption (PSA) and Catalysis), in addition to being simple to install.

One of the latest technological



advancements is their newly released GC Station 60L & GC Station 60LC, a ultra high purity hydrogen, zero air and nitrogen generator. This latest addition is the only gas generator with an integrated inboard compressor.

T 0033 450394922
a.berletti@leman-instruments.com
www.leman-instruments.com

Fifth anniversary celebrations for Lorax Compliance



Environmental reporting specialist Lorax Compliance is celebrating its fifth anniversary

this month, having achieved an impressive trajectory since its launch in 2014. Founded to help companies manage the escalating scope and complexity of environmental compliance, Lorax has won multiple awards for its services and has developed a substantial client base that includes FTSE 500 businesses. Since its inception, Lorax has experienced significant growth and now employs a team of more than 20 specialists.

Delivering compliance software and consultancy to companies that need to comply with local, national and global EPR waste directives, Lorax's scaleable cloud services and scheme reporting modules have produced more than 6,000 reports on half a million tonnes of packaging, 45 tonnes of battery data and more than 3,700 tonnes of electrical equipment.

To further strengthen its offering, Lorax Compliance recently acquired US-based

consultancy Environmental Packaging International (EPI) to provide a wider global service offering, combining Lorax's strengths in compliance data and technology with EPI's expertise in customised research and metrics tracking.

Michelle Carvell, COO and co-founder, said: "Since Lorax was founded in 2014, the company has gone from strength to strength, growing our client base, revenue and geographic reach to become a leader in Product Stewardship and Producer Responsibility.

"Our key areas of expertise cover all aspects of EPR compliance using our cloud-based software and regulatory consultancy, which has served our customers well over the past five years. Now, with our acquisition of EPI, we're in the perfect position to continue our trajectory and advise our clients on the ever-changing landscape of complex compliance needs."

To mark the milestone, Lorax will be bringing the global team together, with all EPI staff visiting the UK head office to celebrate.

www.loraxcompliance.com

Libryo pledges commitment to growing renewable energy sector

Renewable energy suppliers currently produce more than 20% of the UK's electricity and EU targets mean that this is likely to increase to 30% in the next year. With this substantial growth, coupled with the ever-changing legislation, ensuring compliance will prove an ongoing challenge to businesses operating in the energy sector.

Founded by a group of international lawyers and software specialists, Libryo is an automated, cloud-based platform that helps organisations understand which laws apply to their business across every jurisdiction. With so many legislative changes in the energy generation sector, Libryo has set out its commitment to assist renewable energy businesses to ensure compliance in what is a complex and challenging area of the law.

With the decentralisation of the energy market, different methods of generation have differing legislation and regulations. Legacy legislation is becoming increasingly outdated by the shift in methods of energy generation and whilst legislation is driving change at a fast rate, the legal knowledge to accompany this is poor. The consequences for breach of most environmental laws is prosecution of an individual or company by the relevant regulator in the criminal courts, varying from fines right up to prison time for key personnel.

Malcolm Gray, CFO and co-founder of Libryo, said:

"Law is poorly organised, changes regularly, is not searchable and written in complicated phrases. Our aim is to make it easier for new entrants to the energy market, as well as the more established suppliers, to understand, and adhere to, the laws that are relevant to their organisation.

"Libryo makes it easier to know the law by filtering, configuring and tracking unique site specific legal registers, enabling our clients to quickly navigate regulatory complexity with clarity and certainty."

Founded in 2016, Libryo currently helps 130 organisations and more than 9,000 users with their legal compliance by filtering all laws and delivering only the regulations that are relevant to that business.

+44 (0)20 3397 7760
https://libryo.com/



UK leading Bubble Badges

Dash Dynamics was set up by David Wilkinson, based in Preston, and specialising in the manufacture of resin domed badges, more commonly known as bubble badges. These kinds of badges can be seen everywhere around us, as logos on cars or throughout schools, hospitals and even within sports. Dash Dynamics' vast client base stretches around the world, with their clients as far as Europe, the US and even down in Australia.



These domed badges are incredibly resilient and long lasting, and they are the perfect way to show off your logo and branding. They are made with adhesive vinyl and polyurethane resin, and all badges are made to be scratch resistant, heat resistant and even UV stable. They can also be made in any shape, size and colour, matching each client's individual flair and brand.

Domed resin badges like these are in high demand by companies of all types, however manufacturers are few and far between. We spoke to David himself who explained, "Dash Dynamics are one of just 6 professional bubble badge manufacturers in the UK. We have managed to set ourselves apart thanks to our very fast turnarounds and ability to produce small batch volumes of badges. In addition, we are also constantly investing in the latest technology and machinery and are currently organising new cutters, printers and doming machines."

T +44 (0)1995 606158
info@dashdynamics.co.uk
www.dashdynamics.co.uk

The UK's domed badge specialist

ASK OUR EXPERTS

Domed Badges from Dash Dynamics

Based in Garstang between Lancaster and Preston, Dash Dynamics specialise in the design and manufacture of resin domed badges (also know as bubble badges) for a range of applications across a variety of industries. These products are fabricated using the latest technology under strictly controlled atmospheric conditions. We produce resin badges, labels and signs that are scratch and heat resistant, UV stable for both internal and external use.

We produce normal self adhesive vinyl stickers where the customer requires a simpler, cost-effective means of personalising products. We also offer a doming service for printers requiring their own production to be domed (Please call us regarding this process as there are certain design and production requirements to be met to create successful and professional results).

All our products are tailor made to your requirements including small volume production. For a cost-effective and professional way to enhance and brand your products or promote your company, please contact us by phone or email with your requirements.

Please visit www.dashdynamics.co.uk
Tel: 01995 606158 • Email: info@dashdynamics.co.uk



Campisa: The certainty of a sure choice

Campisa is an Italian company specialising in the manufacture, supply and installation of loading bay equipment. Its UK division was opened in January 2019 and is already well on its way to becoming the fifth major supplier of loading bay equipment in the country.

One of Campisa's unique offerings is its Fidelity® drive system, featuring special hydraulic motorisation combined with a console for the management of sectional doors and loading ramps. This innovative and patented technology most recently won the

Warehouse Infrastructure category of the prestigious Design4Safety Awards at the IMHX show at Birmingham's NEC.

This ground-breaking technology eradicates the need for conventional drive systems for sectional overhead doors, which always include counterbalance springs, spring-shafts, cable drums and/or curly cables. Tensioning counterbalance springs always present a dangerous operation when either setting up from new or when carrying out routine maintenance. What's more, cable drums

always present a problem whereby cables get entangled on the spring-shaft. Both of these operations are inherently dangerous and require working at height.

Campisa's Fidelity® drive system does not have springs or cable drums, eliminating the dangerous set-up or maintenance aspects related to sectional overhead doors. What's more, the Fidelity® system can be used to operate both a sectional door and a dock leveller, abolishing the necessity of working under the dock leveller and removing the



risk of working outside under a leveller in a busy truck environment.

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

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BTM's patented sheet joint system joins plain AND coated metals with consistent, strong, leak proof joints.

Tog-L-Loc® provides omni-directional strength and is widely used in the assembly of Automotive, White Goods, H.V.A.C and many other sheet metal products. Choose from a variety of tool options for applying Tog-L-Loc® to suit your specific manufacturing requirements.

Below are typical examples of how Tog-L-Loc® can also save on the cost of consumables such as rivets, nuts & bolts, weld tips and adhesives.



- ✓ **Lit-L-Loc® Hand Gun with Hydraulic Intensifier:** An inexpensive tool for low volume production. Capable of joining a maximum thickness of 3.0mm mild steel.
 Various strokes & throat depths available
- ✓ **BTM Small Production Presses:** Either pneumatic, hydraulic or pneumohydraulic systems can be designed and built to your specifications
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- ✓ **BTM Single Jointed Presses:** These can be floor standing or bench mounted utilising either BTM's patented pneumatic toggle head, hydraulic system or the very economical pneumohydraulic system.
 Operated via foot switch or two-hand start safety system (depending on stroke of press)
 Standard Units from 10kN to 400kN
 Various strokes & throat depths available
- ✓ **BTM Press Brake Tooling** is an effective & cost saving way to utilize our patented Tog-L-Loc® sheet metal joining system and are available with a wide range of throat depths.
 Use a single unit or stack them up for multiple joint applications.
 Ready to install in your power press!
- ✓ **BTM Duct Joining Clinch Gun:** Pivoting jaws allow the operator to manually open the jaws to allow clearance of flanges etc.
 Several sizes and styles available

Why you need leaner processes!



Customer demand is changing the way products are delivered. We have seemingly less time than ever before and with the growing culture of app-based 'click and collect' permeating society, companies are now having to satisfy their customers' needs, faster and more accurately. The introduction of warehouse automation is vital to addressing this requirement.

This isn't just consumer goods, more and more companies are offering 24/7 deliveries and this is putting greater strain on the factories that have to manage these processes.

Flexibility is key here as instead of continuing to rely on rigid logistics concepts, more and more companies are turning to flexible systems to effectively manage their internal warehouse.

Flowtechnology UK 'FTUK' is a major provider of fluid power products in the UK, they recognised a need for a more efficient storage system for its constantly expanding product portfolio. Rather than move premises they invested in 16 Kardex Shuttle XP vertical lift systems ASRS which optimised their current warehouse space and as a result, their productivity increased by more than 300%, whilst picking errors went down to almost zero.

For Flowtechnology, optimal productivity was essential for the handling, storing and retrieval of their stock. Many companies have different kinds of stock and Kardex understand the need to provide dynamic and flexible storage solutions no matter what needs to be stored.

Stock with extreme dimensions and heavy goods require well-thought out storage logistics and goods with a total weight of up to 5,000kg per tray can be efficiently integrated into storage logistic processes. Using flexible designs such as vertical lift systems Kardex is focused on optimising the use of available space, making the most of existing ceiling height and minimising footprint.

From efficient hardware to fully integrated systems, our solutions can store thousands of items from small goods such as nuts and bolts to large items. Kardex provide maximum productivity, performance and safety, improving your ergonomics and efficiency, making optimal use of the available space to secure long-term success and profitability.

Kardex has a long history of innovation working with organisations that recognise the short and long-term benefits that automated storage and retrieval systems can bring, delivering on the promise of improvements in labour, space saving and faster picking times.

To learn more, contact us by email at: info.remstar.uk@kardex.com or call us direct on: +44 (0)1992 557237.



BTM (UK) Automation Products Ltd
 Tel: 01767 677001 | Email: btmautomation@btconnect.com
 Web: www.clinching.co.uk

Specialists in storage

Established in 1937 by Fritz Schaefer, SSI Schaefer is a German, family-owned business. With the headquarters based in Neunkirchen, Germany, the company are proud to say they have more than 55 subsidiaries worldwide and have nearly 10,000 employees. Andover, Hampshire is home to the UK operations side, purchasing, finance, design, and general sales as well as the UK distribution centre.

The rapidly expanding Midlands-based operation at Towcester houses Automation Sales, IT, Customer Services, Marketing and Project Management.

SSI Schaefer specialises in the supply of

automated materials handling solutions and storage equipment.

For over 75 years, the company have been involved in developing systems which enable them to provide customers with solutions that are tailored for the storage of their products. The company's product portfolio ranges from pallet racking, shelving storage systems and metal & plastic containers through to complex automated storage and retrieval systems and IT control.

Customer service is at the heart of the company which is why they see their customers throughout the whole process, from buying

to installing and aftercare.

We asked Mike Alibone of SSI Schaefer what the company's plans for the future are, in which he responded, "Our customer base is as diverse as our product portfolio, which enables us already to offer solutions to almost all areas of industry.

As an organisation in the UK, we will continue to grow - particularly as we complete more



installations which become reliant upon our providing an ongoing support and maintenance service."

T +44 (0)1264 386685
solutions@ssi-schaefer.com
www.ssi-schaefer.com

Beecraft Limited: Established in 1989



Beecraft Limited, a UK based company established in 1989 is one of leading manufacturers and distributors of warehouse, logistics and material handling products. Located in Middlesex, they specialise in plastic pallets, bulk boxes, plastic containers, health and safety products and freezer spacers.

Beecraft Limited together with Nortpalet™, a leading Spanish plastic pallets manufacturer, have recently launched a unique and innovative range of durable plastic pallets, which come in a variety of sizes, are of the utmost quality and offer consumers the option of customisation according to their business needs. The new Display Mini Pallet, which comes in a size of 800x600mm, is specifically designed for retailers due to features such as easy reparability and the ability to increase the loading capacity, as compared to other pallet manufacturers. Mercadona, which is the largest supermarket chain in Spain and occupies 23% of the total market share, has purchased more than 1.5million of these pallets and currently uses them in over 1,400 of its stores.

The Reinforced Nestable Europallet, designed with three runners for optimum performance in rack systems and made from recycled resin weighs only 17kg, which is 34% lighter than other leading pallets. It can support a weight of up to 1,000kg and is appropriated for industries that specialise in the transportation of packaged and boxed items, or where cross-docking operations are implemented.

The lightweight one-way export pallet is an economic, yet strong product, which is designed from multiple uses across many different industries. Weighing just 5.5kg, it is ideal for exporting consignments and can carry products that weigh up to 1,000kg.

The best news, above all, is the Heavy duty Multi-use Pool Pallet, which is available with 3, 5 or 6 bottom runners. It is now a reality and will better serve the logistic needs of different industries such as salt, sugar, flour, beverage, agro food, pharmaceutical, automotive, chemical and many more. The pallet is made of recycled PP, weighs only 23k and thanks to its special design, it can carry a static load of 5,000kg, a dynamic load of 2,000kg and a racking load of 1,000kg. The Full Perimeter runners also make this product suitable to support up to four pallets on top of each other in a mass storage environment.

NORTPALET using the latest state of the art technology combining strength and design options enable the pallet to be use in many different industries and to be compatible for extensive use.

The high specifications including reinforced upgrading the loading capacity to high level of weight on racking and Drive in Racking This intelligent design gives flexibilities of each pallet to be repaired and replaced part of the pallet bring it to a full use again with just minimum Investment and no need to replace the whole pallet.

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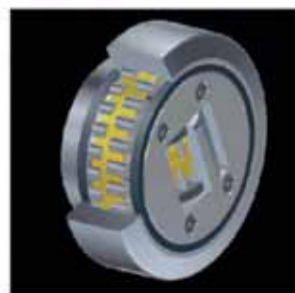
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HL Plant: Building site safety in Scotland

HL Plant was founded in 1991 and specialises in safety crash deck systems. The company provides the G-Deck system, which can be used as a trestle system, tower system and a crash deck system.

The G-Deck system is the strongest and most versatile crash deck currently available on the market. It can hold up to 600kg per metre square and can go from heights of 0.5 metres to 3.6 metres. The G-Deck is lightweight and consists of flat panels either one metre square or half a metre square, which sits on top of a firm, scaffold-like base, creating a stable 'floor' inside the building for workers.

The newest version of the system is G-Deck Lite. This

is specifically for use where the artificial floor is not going to be subject to heavy loads. It can go from 1 to 3 metres high and take up to 200kg per metre.

Lloyd Hutchison, Managing Director of HL Plant, said, "Over the last couple of years, we have seen a rapidly increasing demand for this safety system. There are other systems on the market but this is the best in our view. It is a very lightweight and easy to use and is having a lot of success with the builders."

Contact
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Large-diameter pipe lining leads way to wildlife revival



Drainage specialist Lanes Group plc has used fold-and-install large-diameter lining technology to rehabilitate a pipe that will play a crucial role in creating Europe's largest man-made nature reserve.

It has deployed a pillow packer to install a series of point repairs inside a 1,220mm diameter inlet pipe supplying water to an area of land being turned into the Wallasea Island Wild Coast.

The Royal Society for the Protection of Birds, which manages the site on the Thames Estuary in Essex, has a 20-year project to turn farmland into a wildlife-rich saltmarsh twice the size of the City of London.

Rehabilitating the pipe was an important step to allow tidal water from the River Roach to flow into a lagoon, one of a number being created to transform 670 hectares of farmland.

Main contractor Bam Nuttall commissioned Lanes Group's East London depot to line the pipe, using a novel approach that ensured the project could be completed with minimal disruption to wildlife and least cost.

The Lanes team used a pillow packer to install five point repairs, also known as patch liners, to rectify defects and strengthen the pipe so it can withstand high water flow rates, especially during high tides.

The pillow packer was lighter and easier to handle than a conventional liner packer. It could be folded to a width of 450mm and installed without an entry manhole having to be dismantled and rebuilt.

Once inside, along with each liner, the specialist packer was inflated using compressed air, pushing the resin-impregnated glass reinforced plastic (GRP) liner against the pipe. The liner could then be left to cure in ambient temperature before the packer was removed.

The Lanes East London depot has invested in two pillow packers, each capable of being used to line circular, egg-shaped or ovoid pipes with diameters of 600mm to 1,300mm. The packers are available for deployment across the UK.

Lanes East London Regional Manager, Mark Scott oversaw the installation carried out by the depot's in-house lining team.

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Eco-friendly graffiti removal

Through its patented, mobile Tornado ACS vacuum-blasting system, the systeco company in Berlin offers an efficient method to remove graffiti from surfaces without having to resort to pressure cleaning or to chemicals.

Since the cleaning system is a closed circuit and any pollutants are filtered out and separated inside the system, there is no need to remove any dirt,

water, detergents or residual substances afterwards.

Special protective clothes are not required and the work can be carried out in public, both inside buildings and outside. This is said to make the job of removing graffiti a lot easier.

The systeco company guarantees the solid quality of its products for the eco-friendly

cleaning of polluted surfaces both indoors and outside.

According to the company, its patented TORNADO ACS vacuum-blasting system stands out due to its eco-friendliness, safe operation and high economic efficiency.

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Piezo actuators – the driving force for additive manufacturing

Additive manufacturing is no longer simply a niche technique for rapid prototyping, and is establishing itself in industrial production. Although injection moulding is still the method of choice for producing large volumes of plastic components, additive manufacturing is well suited to creating individual parts or small batches. It is being used across an increasingly diverse range of sectors – from automotive and consumer goods to medical technologies – as product lifecycles becomes shorter, model variations increase and the demand for individuality grows.

ARBURG GmbH and Co KG, a machine construction and engineering company in Lossburg, Germany, has developed a new process for additive manufacturing called ARBURG Plastic Freeforming (APF). This novel technique uses a PICMA® piezo actuator from Physik Instrumente (PI), a global leader in precision positioning technology.

As with other additive manufacturing techniques, APF makes it possible to inexpensively produce a functional



component layer-by-layer from a 3D model dataset. This technology can be used to integrate complex functions into a component, as well as producing more intricate geometries that cannot be achieved using conventional injection moulding. Droplet generation and discharge is central to the process, requiring

synchronised motion between the printhead and other moving parts. Martin Neff, Group Manager for Sales and Freeform Plastics Technology at ARBURG, explained: "Our patented nozzle shutter – with high-frequency piezo technology – enables a fast opening and motion, generating around 200 droplets per second at a pressure of 500 bar. We decided to use a PICMA actuator for clocking the nozzle shutter because it provides the necessary accuracy and an excellent dynamic range of 90 µm. The discharge unit on our platform currently operates between 60 and 200 Hz, and we still have capacity in reserve."

Dr Cliff Jolliffe, Head of Segment Marketing for Automation at PI, commented: "The PICMA's microsecond response time is exceptionally fast, and no other valve technology offers similar speed in a comparable size. I'm delighted that our technology is supporting the future of additive manufacturing."

Contact
www.physikinstrumente.co.uk/en

Industry leading emergency evacuation equipment

Established in Swindon in 2005, Spectrum Healthcare (UK) Ltd supplies high quality evacuation equipment and moving and handling aids to a wide range of establishments.

Now based in Northampton, Spectrum Healthcare has distributors for their products located around the world. Specialising in the supply of Emergency Evacuation Equipment, Spectrum Healthcare's products are designed to enable any person living with some form of disability to be aided to safety in the event of a fire or similar emergency.



Their evacuation range includes fire escape chairs and horizontal pulling devices. As innovators in the sourcing of alternative evacuation equipment from Australia, Spectrum Healthcare introduced the well-known AlbacMat and ResQmat into the UK market.

One particular advantage of Spectrum Healthcare's range is that the majority is manufactured onsite. This means they can be adapted to suit individual premises and needs to ensure everybody can be aided to safety, no matter their age or disability.

In addition, Spectrum Healthcare offers product demonstrations and training across the UK. Michelle Williams, Marketing Manager, said "We believe it's essential that our customers have

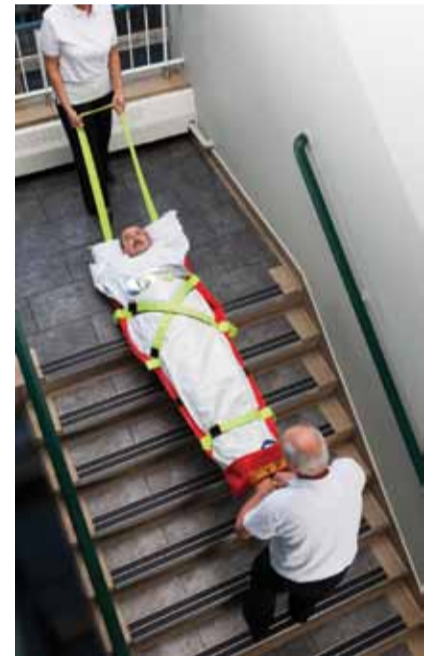


the right piece of equipment for the users and environment, and that all potential operators are fully trained and confident in its correct use to ensure the safe and secure movement of the passenger."

Recently, Spectrum Healthcare added a revolutionary evacuation management system which gives users real time information about a building's evacuation progress. Known as TagEvac, the system consists of magnetic tag stations, which are placed within specific zones, and a central tag control board.

In an emergency, each zone is visually checked by an appointed fire warden. When clear, a TAG is taken from the zone's 'TAG Station', confirming the zone has been checked, and is taken to the central control board. Simply put, whether you are inside or outside of the building, staff and emergency services have a reliable overview of the situation. As a testament to its quality, TagEvac is the trusted solution for organisations such as Coca-Cola, Lloyds of London and the National Archives.

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World leading printing & labelling technologies

Focus Labels specialise in the design and manufacturing of narrow web presses for use in the label and packaging printing industry. Since their establishment in 1981, the company has been pushing the envelope of design and manufacturing, first making a name for themselves with the launch of their innovative Textile printing machines for apparel labels.



Today, Focus Labels stands as one of the industry's leading manufacturers of Flexographic, Textile label and Hybrid Digital inkjet presses, with a vast client base that stretches around the world. In fact, up to 70% of their products are still designed and built for global export across the textile, self-adhesive labels, digital, packaging, and even food and drink industries.

Focus Labels champion servo and digital inkjet technology within their modular systems, allowing users to improve their press-time management and productivity, reducing waste and increasing efficiencies. Their label printing machines are also designed to be user friendly, with a wide range of automated systems that can combine both analogue & digital hybrid printing technologies. Purely British made, their in-house design team and engineers develop customised machines made specific to client needs.

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