Composites Trade Association

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CiM Composites in Manufacturing

Membership Directory















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2023/24

COMPOSITES UK CHAIR'S REPORT

The year in focus



Alan Banks, Chair, Composites UK

Welcome to the latest Composites UK Membership Directory, kindly produced by our lead press partners, Composites in Manufacturing magazine.

2023 has been a very busy and successful year for Composites UK, delivering the key stages in the Association's strategy. Through 2022 and into 2023, sustainability has become more prominent, cross cutting all our strategic activities. As such, we have updated the website and developed new support services for our members to help them address the twin challenges of net-zero and circularity which are both critical for the industry.

We have navigated our way through the green maze to calculate the carbon footprint of our organisation and will be using this experience to help member companies tackle theirs. Once fully analysed, we will be setting ourselves reduction targets and looking at calculating the carbon footprint of our individual events.

Composites UK is project managing Project PRoGReSS, a £2 million, three-year scheme, that is partfunded by Innovate UK and leading industry partner Aker Offshore Wind, which seeks to deliver a circular model for wind turbine blades to support the UK's ambitious climate change targets. The project, which started in 2022, will benefit the wider UK economy, create green jobs and move towards circularity solutions for the GRP sector.

Because of the Association's sustainability focussed work, many of its events focus on this topic. RECOMP, the biggest conference on this topic in Europe, returns for a one-day review of progress on 23 November and 11-12 October we travel to NIACE in Northern Ireland for our Bio-based materials conference. There is a strong sustainability theme running through the forum programme at the International Composites Summit (ICS), 6-7 September, in Milton Keynes.

ICS moves this year to the larger purpose-built Marshall Arena enabling the event to strengthen its approach. The JEC Business Meeting Programme will be running across the 2 days, linking UK and International buyers and suppliers. With more space, we've been able to secure some amazing showfloor exhibits and demonstrators including the KS Composites simulator, ThrustWSH, rail platform section and many more. UK and International speakers from key end sectors will inform visitors on circularity activities, strategic global opportunities, navigating the political landscape for manufacturing, material and manufacturing innovation, as well as a critical panel session on overcoming trade barriers.

There's also plenty of other events in the pipeline, including our joint event on thermoplastic composites with the British Plastics Federation (4 October) and our prestigious black-tie Awards Dinner (1 November), celebrating the successes of the UK composites industry. The dinner falls on the middle evening of the Advanced Engineering Show where we will once again be hosting a Composites UK Pavilion, offering companies the opportunity to enhance their presence but minimise risk at the show through a turnkey solution allowing companies to book a pod, turn up and 'go'.

Composites UK was proud to have organised the UK Pavilion at JEC World 2023. The 170m² stand, larger than in 2022, housed 30 SMEs and supporting partners, Welsh Government and the National Composites Centre. The Composites UK pavilion will return in 2024 and we are already taking bookings for this.

The Association will release the 2023 report at ICS where updates on the UK composites sector will be presented by our CEO, David Bailey. The Association estimates that in 2021 the UK composites sector was worth £10.72 billion and employed around 47,500 people so it will be interesting to see if there are significant changes for 2022. Produced from the data within the Hub - Composites UK's composites capabilities database - this annual report is invaluable for business forecasting and is free to members.

Trading conditions following the materials crisis and EU-Exit continue to be an obstacle for the industry. Composites UK has published regular updates on the materials situation outlining supply and pricing issues so the industry can plan accordingly, although that has started to ease during 2023. Complementing this is the work the Association is doing around UK REACH regulations, not to mention the support given to members with trade challenges following the EU-Exit, including trade remedy review investigations.

We will have some new support material for members on skills and workforce development coming out later in the year to help them tackle the growing skills issue. Working alongside the HSE, as well as member companies, Composites UK continues to raise awareness of resources and support available on health and safety topics but particularly around mental health.

The Association continues to provide support to the newly restructured Composites Leadership Forum which drives the strategic direction of the sector and facilitates the development of programmes to find solutions to critical industry challenges.

The above is in addition to the day-to-day support provided by a small team of nine, dedicated to providing ongoing commitment to support the UK composites industry.

Alan Banks, Chair, Composites UK

PRF COMPOSITE MATERIALS



PRF Composite Materials is a leading manufacturer and supplier of high-performance materials for the advanced composites industry, including aerospace, motorsport, renewables, defence, sports & leisure, medical and marine industries.

We are known for our class-leading, innovative prepreg materials. Our product development is driven by helping our customers achieve superior results, and we are now looking at how our materials can also provide improved sustainability. Whilst we recognise the potential of biomaterials, we believe that we can make significant advances now by improving the circularity and reducing the impact of traditional composite materials; making them more sustainable whilst retaining their superior properties.

From this commitment, we have developed REEPREG, our carbon prepreg made with recycled chopped carbon mat. REEPREG is drapeable and easily handled by the constructor, without falling apart when used - which we believe sets it apart from other recycled mat products available. The mat is made using recycled carbon prepreg waste, reducing landfill from kitting and trimming.

We are also looking at lowering energy consumption per part, with Q.tool and our eXpress cure prepreg systems. UK Patent Pending, Q.tool is groundbreaking prepreg tooling technology which significantly reduces the time and costs of carbon tool manufacture, with its uniquely designed surface and 1020g/m² bulk plies. This combination provides the same

weight and thickness as the 1:8:1 system, and significantly reduces the number of debulks to as few as one. Q.tool offers the constructor: up to 50% reduction in labour time/cost, improved sustainability by reducing energy consumption and plastic consumables, and provides exceptional drapeability and surface finish.

Our class-leading eXpress cure prepreg systems also provide opportunities to improve sustainability. Our RP570 eXpress cure is a snap cure system that has a complete processing time of 4 minutes at 140°C; our RP570 FR is our fire-retardant version which cures in 5 minutes at 160°C. With both systems, there is no need to cycle the mould tool, or cool the tool before demoulding. For customers using autoclave, we have also seen significant energy savings with these systems; RP570 FR typically takes 50% less time to process in autoclave than similar materials.



Developed to minimise the time our prepreg tiles are at room temperature in our facilities, we have also introduced our new Fast to Freeze process. We can now manufacture, cut and freeze our prepreg typically within 1 hour - significantly preserving the out life for our customers. We are also saving over 50% of the plastic consumables that would have been used operationally and are eliminating single use plastics - up to 99% of consumable plastics used in our manufacturing are now recyclable. In packaging, we have a new crating system for deliveries; using reusable wooden crates to ship our prepreg and avoiding significant amounts of cardboard waste.

With our wider range of advanced materials, we provide solutions for manufacturers using hand layup and infusion processing, including reinforcements, epoxy resin systems, mould release and cutting tools.

Doing things differently, PRF is passionate about quality and innovation, and is committed to providing a professional and responsive service with technical support. Our focus going forward is to continue to help our customers improve quality. reduce manufacturing time, and achieve benefits in efficiency, cost-effectiveness and sustainability.

PRF Composite Materials

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MIRKA



Mirka is a leading manufacturer of abrasives, tools and polishing solutions that are suitable for use across multiple applications and sectors.

As job requirements continue to evolve with advances in technology. Mirka is in constant communication with its customers to gain valuable insights into the challenges and opportunities within their industries. This information is then circulated to the R&D team, who use it to design innovative and versatile products that meet the requirements of the user and assist in increasing productivity and efficiency, providing a dustfree work environment and maximising profitability.



As part of Mirka's continued commitment to help the industries it targets grow and develop, it has invested significantly in training programmes, which are available both on site and at its state-of-the-art national training centre in Milton Keynes. This investment enables Mirka to provide its customers with expert training and development around the high-quality abrasive. tooling and polishing solutions available in its product portfolio, so they can increase their knowledge and skills, improve their work flow and expand the services they can offer their customer base.



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Shimadzu has released the AGX-V2 series of AUTOGRAPH precision universal testing machines (UTM). The new AGX-V2 series expands on the existing AGX-V series – two table-top types and four floor types – with new wide-frame models, reinforced yoke models and separate controller models.

AGX-V2 means that AUTOGRAPH can now provide a dedicated solution for almost every application and material. In combination with the latest version of TRAPEZIUMX-V software, the AGX-V2 series is ideally suited for testing both regular materials as well as for those requiring large test forces, such as metals and carbon-fiber-reinforced plastics (CFRP).

In addition to including the many valuable features of the AGX-V series, the AGX-V2 series also offers improvement in operability. This is accomplished through an optional operation controller, which delivers fast results and analyses directly to the machine without the need for an additional computer.

It also includes a voice operation mode that increases operational speed when multiple simultaneous actions are required.

https://www.shimadzu.co.uk/agx-v







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We have over 35 years' experience supplying the aerospace, motorsport, renewable energy, defence, sports & leisure, medical and marine industries. Our cutting systems are highly sought-after solutions for processing a wide variety of materials. Many OEM manufacturers have made Zünd their single ply cutting equipment of choice.

Zünd cutting systems are based on a modular design concept that is unique in the market, flexible and easily expandable. Each Zünd cutter is hand-built to the customer's specific requirements and guaranteed to be futureproof.

Our digital cutters include a comprehensive selection of tools and modules for composite applications. Our tools are designed to process carbon fibre, structural foam, honeycomb, prepreg,

aramid fibre and glass fibre. We also offer a range of innovative accessories such as material registration, contactless part-marking and projection for part identification and picking.

Every Zünd cutting system is equipped with our proprietary software - Zünd Cut Centre (ZCC). ZCC software facilitates every aspect of the production workflow - from file import and production planning, to cutting data optimisation, cutting system management and remote production monitoring. ZCC also offers a nesting functionality that automatically nest a set of parts during data import.

Visit our state-of-the-art demonstration centre in St Albans, Hertfordshire to gain first-hand experience of the benefits of the latest in Zünd Technology. You can also bring your own material and cut files for testing. Virtual product demonstrations are also available upon request.



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OB2B Industrial Marketing & PR specialises in promoting metals, polymers, composites, engineering plastics and structural adhesives, from base materials, additives, compounds and reinforcements to extruded, moulded and machined fabricated products.



Established in 2009, OB2B now has a global customer base of multinationals and SMEs across the manufacturing supply chain, providing cost effective technically based, B2B industrial marketing and press release (PR) support which helps companies secure new business and grow sales faster.

The founder, Nigel O'Dea, has over 28 years of blue chip multinational business experience in senior commercial roles, along with a CiM Marketing diploma and a BSc. (Hons) degree in Materials Science. This background enables him to quickly understand the technical and commercial aspects of a client's products, from raw materials and processing to finished parts, and then produce engaging marketing content, PR and promotional tools.

OB2B Industrial Marketing & PR is a long standing Composites UK member. ■

OB2B Industrial Marketing & PR

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RU-BIX TOOLING BOARD

Ru-bix, the renowned UK-based tooling & model board manufacturer in Norfolk, is breaking new grounds in the composites industry with their innovative products, the HALO & HALO-S. This breakthrough hybrid polymer board combines the easy machinability of polyurethane with the high-temperature properties of an epoxy (Tg 140°C and a CTE of 35), acting as a genuine alternative to epoxy in prepreg applications.



01485 313020

vww.ru-bix.com

The Norfolk firm is pioneering sustainable tooling materials, ingeniously combining bio-resins with recycled plastic resins to fabricate their high-performance hybrid boards. The HALO-S, a sustainable epoxy alternative, is the epitome of this ecoconscious innovation.

Adding excitement to the industry is Ru-bix's collaboration with CALLUM, a young and dynamic British engineering consultancy, noted for their design prowess in a range of sectors, including automotive, lifestyle, and travel. With collaboration as the heartbeat of their business, CALLUM crafts stories that stir the imagination, forming a legacy through ground-breaking design and engineering.

The partnership between Ru-bix's novel material technology and CALLUM's innovative design approach promises to deliver something exciting to the composites industry. In particular, CALLUM is engaging with the HALO-S at a high level, exploring its



potential with flax prepregs for a more sustainable end product. A partnership with Codem Composites to machine the HALO-S and use it as a tooling medium, further amplifies the impact of this collaboration. The full details of this intriguing venture, accompanied by images, will be unveiled in November 2023. The composites industry eagerly awaits this revelation, anticipating a product that will set new benchmarks for sustainability, design, and engineering. For more information please contact Ru-bix on the details below.

RU-BIX TOOLING BOARD

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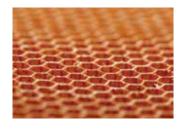




CRISTEX COMPOSITE MATERIALS



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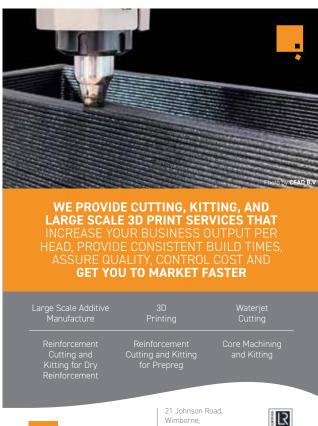
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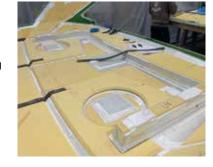
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For over 20 years MSA Manufacturing has been a trusted provider of foam core and reinforcement kits to the composites and GRP moulding industries. While kitting's advantages are wellestablished, the reasons to kit and end goals for each customer can differ significantly.



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MINDEN SYSTEMS

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Any engineering firm working with composites is likely to be producing potentially hazardous dust. The size of products and a range of processes from



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Our adhesives have many applications in various industries using composites, ranging from aerospace and public transport interiors all the way to golf clubs and prosthetic limbs. We're used heavily in the automotive industry and are finding new applications in the field of electric vehicles (EVs). Composite blends are becoming increasingly popular for lightweight EV battery housing, and our adhesives offer UL94 V-0 standard fire retardancy, high thermal conductivity to drive heat away from battery cells, as well as providing excellent resistance against impact and vibration.

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PATTERNS & MOULDS LTD



Patterns and Moulds Ltd, with 56 years in business this year, continues to remain a family business today headed by Gary Lucas, with Olly Lucas his son working closely alongside, their combined passion continues to drive the business forward guided by our mission statement "Your vision our expertise" This year we have some exciting changes to our Factory a new unit increasing our overall space to 50,000 sq. to include a new 10x 6 x 4 mtr Spray booth/Oven. 5 CNC machines the largest working envelope being 13 x 5 x 2.5 metres with number 6 arriving December 2023 specialising in machining of master patterns and direct tooling.

Within house Cad/Cam using Solidworks for design & FEA, Delcam Powermill for tool path creation. Our own fully portable Metrascan Laser Scanner for CMM verification, allowing us to offer a tiered or complete end to end service for composite tooling.

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Alongside utilizing materials from light weight foams through modelling and tooling boards to epoxy seamless modelling pastes for large scale master patterns and direct mould tools to Composite moulds and part production, using resin systems to suit customer's needs and requirements.

Our work showcases the imagination of the Architects, designers, engineers and clients that engage our services. We are excited to be Showcasing our services at the Advanced Engineering Show 2023 and look forward to welcoming new and existing clients to our Stand W120.

Patterns & Moulds Ltd

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Composites §





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- Recycling Initiatives

About Us

Welcome to Airtech, a family-owned and operated leader in composites manufacturing. With 50 years of industry experience, we push the boundaries of innovation with advanced process and tooling materials for composites and 3D printing.







CONTACT US

AIRTECH ADVANCED MATERIALS UK LTD



With 50 years in the composites industry, Airtech has earned a reputation as a leading solutions provider, driven by our stability, innovation, and manufacturing expertise

Founded in 1973 by entrepreneur Bill Dahlgren, Airtech's journey began with a bold risk, establishing the company in his family's California home. Today, with around 900 employees worldwide and international operations in Europe, the United Kingdom, China, and India, Airtech has grown significantly while preserving our family-owned and operated ethos, carrying our core values and long-term vision through three generations.



Our success rests on dependability and dedication to excellence. Our inaugural product, the Wrightlon 7400 vacuum bagging film, continues to be celebrated globally for its outstanding strength, elongation, and vacuum integrity, symbolizing Airtech's unwavering commitment to quality.

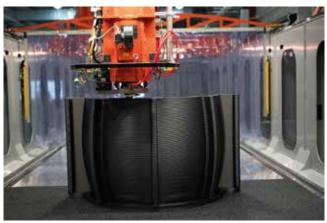
Airtech entered the UK market in 1996 with the acquisition of materials supplier Tygavac, now operating as Airtech UK. Today, the UK site stands as one of the company's largest manufacturing facilities, with a specialized Kitting & Custom Engineered Products division. Our skilled kitting specialists expertly transform roll stock into tailor-made vacuum bag materials, streamlining processes, reducing labor and flow time, and optimizing efficiency.

Our pursuit of innovation is relentless, evident by substantial investments in large format 3D printing capabilities for composite tooling. Our "Centre of Excellence" in Springfield, TN, and the twin facility in Differdange, Luxembourg, position us as leaders in additive manufacturing. Complementing our efforts, our dedicated R&D program explores new material technologies, expanding the boundaries of what's possible.

Among our notable achievements, establishing circular life cycle practices for 3D printed tooling with our Dahltram® resins stands out. Recycling used tools into pellet feedstock and remanufacturing them results in strong, durable, and ecofriendly composite tools, a distinctive solution setting us apart in the industry.

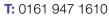
Looking ahead to the next 50 years, Airtech will continue doing what we do best: innovating and pushing the boundaries in the composites industry. As a family-owned business, we maintain a long-term perspective, always focusing on the bigger picture rather than short-term gains. Built on the foundation of integrity, honesty, and hard work, we are committed to providing our customers with the latest products and solutions to support their success.

Sustainability remains at the core of our focus as we forge ahead in developing new biomaterials and circular life cycle solutions. Our expanding global capabilities enable us to serve customers worldwide, solidifying our commitment to excellence and ensuring a bright future for Airtech—a future characterized by innovation, sustainability, and unwavering dedication to customer satisfaction.



Airtech Advanced Materials UK Ltd

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■ TOOL-TEMP LTD



Tool-Temp, manufacturers of the highly respected Swiss-made temperature control equipment, have been developing and manufacturing heating and cooling equipment for more than 50 years.

As one of the leading manufacturers of temperature control equipment, we are represented on all continents of the world. Tool-Temp machines are used in all process industries where a thermal medium is used: plastics, composites, diecasting, injection moulding, extrusion, rubber, silicone, chemicals, pharmaceuticals, food, printing, lamination, textiles and others.

Temperature control units can be divided into two groups according to the process medium used. Depending on the design, water-operated temperature control units have a maximum operating temperature of 90°C for open tank designs and 160°C for pressurised water systems. When oil is used as the medium, a maximum working temperature of 360°C can be achieved. In addition to the temperature control

medium, the heating and cooling units can also be divided into two groups according to their cooling system. A distinction is made between directly and indirectly cooled units.



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control units with water at 90°C or oil at 150°C, pure water units up to 90°C, pressurised water temperature control units with closed circuit up to 160°C, oil temperature control units 360°C and cooling units from -25°C to +40°C.

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By cleaning the cut line as the dust is produced, Biesse's award-winning T-JET dust mitigation solution increases finishing quality, prolongs tool life and boosts process efficiency by accelerating job turnaround.

Don't let the dust settle

Dust is an unavoidable feature of any sheet based machining application and has to be contained for obvious health & safety reasons. Once it is airborne, it becomes an occupational hazard, which is why it is best controlled at source. Machine protection is another reason for controlling dust during the CNC operation - if it contaminates electrical components or settles on vital mechanical parts, it can over time, without proper maintenance, cause costly damage. Then there is the all important finish - if the tool has to plough through a layer of dust, it can affect the quality of the cut.

Cleaning sucks...and costs

The usual approach to dust removal in CNC operations is to add a sweeping arm and an offloading table. The sweeping arm sits on the back of the machine and transfers the sheet onto an adjoining table whilst at the same time cleaning the bed with an extraction manifold. Aside from occupying additional floor space, the downside of this arrangement is that the sweeping arm does not remove the dust from inside the channels or the sides of the panel. This means that after offloading the sheets, the operator has to spend time vacuuming the machine bed and the sheet. Over the course of a week, this cleaning time can add up to several hours.

Biesse's T-JET offers a simple yet unique solution to this problem.

How does it work?

A set of high pressured nozzles are mounted to the rotating C axis and, using the compressed air veins that an aggregate would use, follows the cut line, dislodging any dust that has settled in the cutting channel. As soon as it becomes airborne, the dust is removed by the extraction system that sits over the spindle so that channels are clean and free from dust and the side surfaces of the pieces are totally clean.

Award-winning technology

Cleaning whilst machining is a simple enough concept but designing a rotating air jet system that can keep up with the tool as it changes direction and turns corners is no mean engineering feat. In this respect, T-JET represents a breakthrough solution - an achievement that was recognised in 2022 when Biesse received the IWF 2022 Challengers Award for T-JET.

Faster turnaround between jobs

Using the T-JET rather than a sweeping arm to clean the sheet (and the table) not only saves on floor space by reducing the overall machine footprint, it also saves on time. With targeted dust collection at the point of production, no further cleaning of the flat bed is required. This can amount to considerable efficiency gains as the operator can simply offload the panels and start the next programme straight



away, rather than having to clean the bed between programmes using a vacuum cleaner or sweeping arm. From a health & safety perspective, T-JET protects workers by limiting the amount of dust that enters the working environment.

Longer tool life

There are also secondary advantages to using T-JET technology: the air flow keeps the tool cool, reducing the amount of stress on the spindle, which ultimately extends the life of the tool.

Cleaner cutting path

Unimpeded by dust, the saw blade is able to travel smoothly and perform a cleaner cut, with less likelihood of chipping. With effective suction guaranteed even at high feed speeds, this results in unprecedented finishing quality.

Energy efficient dust removal

And, at a time when energy costs are a major concern, T-JET represents the most energy efficient method of removing and containing dust. There is no need for an additional compressed air supply as T-JET will work on the standard pressure available on the machine. The rotating action of T-JET is powered by an additional high-speed motor, but as the motor is very lightweight and servo-controlled it uses very little energy - far less than a sweeping arm. The T-JET and the tool rotate independently of one another, which means T-JET can be turned off to save energy when it is not required. T-JET is classed as an aggregate or deflector, so it can be removed from the machine altogether.

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THE IMPORTANCE OF TOOLING MATERIAL SELECTION

Selecting the right material for an application is about more than just personal preference or always using the same product. Choosing the right material ensures the best possible finish of the final part and optimal production efficiency.

A crucial aspect to consider is the physical properties:

Density - the higher the density the more robust the board, meaning finer details are machined easily. Lower-density materials are ideal for creating models and prototypes as they are easy to shape.

Temperature and Coefficient of Thermal Expansion (CTE) -

The lower the CTE, the less the material will expand as temperatures increase. Choosing a tooling board with low CTE ensures precision and consistency in the mould.

Dimensional stability – Materials with excellent dimensional stability reduce the risk of expansion or shrinkage and maintain their original shape throughout manufacturing and subsequent use.

Surface finish – the tool's surface finish directly impacts the look of the final part. Materials that boast a great surface finish remove the risk of defects and improve the overall durability of the tool.

Material selection depends on your application. Epoxy is the material of choice for advanced composite applications where low CTE, dimensional stability and excellent surface finish are essential.

Polyurethane offers a costeffective alternative for design, styling and prototyping projects, vacuum forming, thermoforming, and manufacturing jigs and fixtures. High-density materials offer a solution for hammer and metal forming, foundry patterns and Reactive Injection Moulding (RIM).



Innovation through collaboration

Partnering with a materials expert like Base Materials ensures you have the perfect solution for your application. You'll benefit from our in-depth knowledge, experience, and know-how. Innovation through collaboration delivers smart, technical solutions, uncompromising quality, and long-term sustainable relationships that last.

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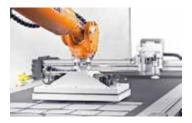


Assyst Bullmer is a market leader of digital cutting machines. Providing Bullmer Cutting technology to some of the UK's largest composite manufacturers. We pride ourselves offering the most advanced digital cutters on the market with unparalleled customer experience.

For over 30 years Assyst Bullmer has been supplying the composite market with fast, efficient, and innovative Cutting machines. Assyst Bullmer offer a large range of tools to provide our customers with flexibility which gives them the capabilities to work with any material. Across the UK Bullmer cutters are relied upon by manufacturers as a key part of their production process.

Within the composites industry our machines are being used to process materials such as Prepreg, carbon and glass fibre, honeycomb and many more. Capable of working with 2 tools at once as well as a marking tool our customers can take advantage of piece marking solutions such as Pens, Inkjet printers and labelling tools.

Robotic pick and place is becoming a key part of the composite industry and Assyst Bullmer UK are actively working with robotics partners to provide customers with a complete and seamless workflow. Working alongside our partners, we are



accurately picking and placing cut work into a desired location.

Assyst Bullmer are also leading suppliers of Optitex CAD software, an integral part of our cutting solution. Optitex CAD allows our customers to effortlessly digitise patterns and create markers with optimised efficiency to ensure maximum utilization of material is achieved.

Get in touch today and find out how Assyst Bullmer can streamline your composite production. ■

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Lentus Composites, Part of Polar Technology Management Group Ltd, delivers engineering product and systems based on the enabling technologies of composite materials.



Vertically integrated, Lentus has an extensive in-house engineering capability with design, analysis, testing, prototype manufacture and qualification, and through operational excellence, delivers production hardware from small quantities to large volume multi-year contracts. Lentus innovates with filament winding, pre-preg layup and autoclave mouldings through to novel robot fibre deposition processes. Working in the Aerospace, Medical, Automotive, Motorsport and Transportation industries, Lentus delivers its solutions around four "themes": Mechanical Power Transmission, Energy Transition, Light-weight Structures, and Thermal Management & Heat Transfer. Examples of products include, drive-shafts, prop-shafts, light-weight gears, rotor magnet retention sleeves, high pressure gas storage, hydraulic accumulators, hydrogen storage solutions, cryogenic structural applications, battery cases, fans and rotor blades, visual and structural composites with mechanical actuation. Lentus works with customers to innovate and deliver solutions to challenging requirements.

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Accuracy, repeatability and safety in robotic machining

In today's competitive manufacturing landscape, achieving accuracy and repeatability in machining is critical to success.

While manual machining can be prone to inconsistencies and waste, robots offer a smarter, repeatable and safer solution.

Precise Control: Robotic machining systems offer precise control over machining operations, which can result in greater accuracy and consistency in finished products. Robotic systems can be programmed to perform tasks with sub-millimetre accuracy, resulting in high-quality finished products.

Consistent Performance: Unlike manual machining, where variations can arise due to human error, fatigue, or inconsistency, robotic systems can perform the same task with consistent performance and reduced waste.

Versatility and Adaptability: Robots can be equipped with various tools to perform different tasks whilst achieving complex and intricate movements that may not be feasible with CNC Machines. They can move in multiple axes, rotate, tilt, and perform coordinated movements, enabling them to access and work on challenging workpieces from various angles. **Reduced Downtime:** Robotic machining systems can operate 24/7,

leading to reduced downtime and increased productivity.

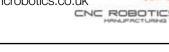
Improved Safety: Robotic machining systems work in dangerous or hazardous environments, reducing the risk of injury or accidents to workers. This can lead to a safer work environment and improved job satisfaction for workers. ■

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WHO WE ARE...

Composites UK is the trade association for the UK composites supply chain

Our membership spans manufacturers, material and equipment suppliers, designers, consultants, engineers, academics, service providers and OEMs/Tier 1s.

You can find out more about us at: www.compositesuk.co.uk

WHAT OUR MEMBERS SAY ...

"Composites UK has been really important to us as a company over the last few years. It provides access to industry specific advice that an SME like us would struggle to source otherwise. Additionally, the networking opportunities give us a place to keep up-to-date with industry developments."

Lyndon Sanders, Director, Far-UK

"Composites UK provides both a support network and marketing platform for its members. It facilitates connections, educates and campaigns, and encourages collaborative partnerships. It is a key enabler for growth for businesses large and small. Its work will be even more vital as the UK economy seeks to bounce back from the effects of the pandemic."

Samantha Bunyan, Head of Industry Engagement & Sustainability, Cecence

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119 Clifton Road, Kingston Upon Thames, Surrey, KT2 6PL http://corebon.com

Coretex Group

PO Box 2. Cheltenham. Gloucestershire, GL54 5YR 08719 181525 http://www.coretexgroup.co.uk

Cranfield University

College Road, Cranfield, Central Bedfordshire, MK43 0AL 01234 750111 http://www.cranfield.ac.uk



Cristex Composite Materials

Shadworth Business Park, Sett End Road, Blackburn, Lancashire. BB1 2QL 01282 770666 http://www.cristex.co.uk

Crompton Technology Group Ltd

Chalker Way, Banbury, Oxfordshire, OX16 4XJ 01295 755100 http://www.ctgltd.com

Cronite Castings

Blacknell Lane, Crewkerne, Somerset, TA18 7YA 01460 270300 https://www.cronite-group.com

Cruing UK Ltd

Building One Office B Radway Green Business Park, Crewe, Cheshire East, CW2 5PR 01270 872924 https://cruing.co.uk

CUBIS Systems

4 Silverwood Industrial Estate, Lurgan, Armagh, BT66 6LN 02838 313100 http://www.cubisindustries.com

Cygnet Texkimp

Swan House, Kimpton Drive, off Wincham Lane, Wincham, Northwich, Cheshire West and Chester, CW9 6GG 01606 338748 http://cygnet-texkimp.com

D

Dark Matter Composites

Unit 8 Redbourn Industrial Estate, High Street, Redbourn, Hertfordshire, AL3 7LG 01582 791001 http://www.darkmattercomposites.com

Dartford Composites

Jubilee Works, Ness Road, Erith, Kent, DA8 2LD 01322 350097 http://www.dartfordcomposites.co.uk

Datum Pattern & Model Makers Ltd

Units 4 &5, Woods Yard, 36 John Street. Derby, DE1 2LU 01332 751503 http://www.datum-patterns.co.uk

Davy Textiles Ltd

Prince Street, Dudley Hill, Bradford, BD4 6HQ 01274 651751 http://www.davytextiles.co.uk

Deva Composites a division of Cope Engineering

Sion Street Works, Sion Street, Radcliffe, Manchester M26 3SF 0161 706 0522 http://www.devacomposites.com

DEXET Technologies

132-134 Lots Road, London. SW10 0RJ 07769 339207 https://www.dexet.tech

DIAB Ltd

Unit 1141, Regent Court, Gloucester Business Park. Gloucester, Gloucestershire. GL3 4AD 01452 614234 http://www.diabgroup.com

DK Fibreglass Works

Unit 3 Montana Place, Rotterdam Road. Lowestoft, Norfolk, NR32 2EX 01502 572562 http://www.dkfibreglassmanufactur ina.co.uk

Donaldson Motors Ltd

71 - 75 Shelton Street, Covent Garden, London, WC2H 9JQ http://www.donaldsonmotors.com



Dopag (UK) Ltd

Ryelands Business Centre, Ryelands Lane, Droitwich, Worcestershire. WR9 0PT 01299 250740 http://www.dopag.co.uk

Dupre Minerals

Spencroft Road, Newcastle under Lyme, Staffordshire, ST5 9JE 01782 3830000 http://www.dupreminerals.com

Dura Composites Ltd

Dura House, Telford Road, Clacton-On-Sea, Essex, CO15 4LP 01255 423601 http://www.duracomposites.com

Dustcontrol UK Ltd

7 Beaufort Court. Roebuck Way, Milton Keynes, Milton Keynes, MK5 8HL 01327 858001 http://www.dustcontroluk.co.uk

Dymag Performance Wheels

Unit A/B Brunel Part Vincients Road, Chippenham, Wiltshire, SN14 6QA 01249 446438 https://www.dymag.com

E

Easy Composites Ltd

Unit 39. Park Hall Business Village, Longton, Stoke-on-Trent, Stoke-on-Trent, ST3 5XA 01782 454499 http://www.easycomposites.co.uk

Eccles (UK Foundries FE) Ltd

Portland Street, Walsall, WS2 8AA 01922 613222 http://www.ecclesproducts.com

ECS Engineering Services

Fulwood Road South, Sutton in Ashfield, Nottinghamshire, NG17 2JZ 01773 860001 http://www.ecsengineeringservice s.com

EJ UK Fabrication & Access Solutions Ltd

Liberty House, Liberty Way, Liberty Business Park, Attleborough, Nuneaton, Coventry, CV11 6RZ 01582 720744 http://emea.ejco.com

Unit 3 Miller Building, Longbeck Estate. Marske-by-the-Sea, Redcar and Cleveland, TS11 6HB 01642 480844 https://www.elemy.net

Elsoms Seeds Ltd

Spalding, Lincolnshire, PE11 1QG 01775 715000 https://www.elsoms.com

Emkay Plastics

Composite House, Mission Road, Rackheath Business Park, Rackheath, Norwich, Norfolk, NR13 6PL 01603 746000 http://www.emkayplastics.co.uk

ENGEL UK

Tachbrook Park Industrial Estate, Apollo Way, Royal Leamington Spa, Warwickshire. CV34 6RW 01926 335000 https://www.engelglobal.com/en/

Engenuity Ltd

Unit 7 Paynes Place Farm, Cuckfield Road, Burgess Hill, West Sussex, RH15 8RG 01444 457257 http://www.engenuity.net

Engineered Capabilities Ltd

31 Church Lane, Goosnargh, Preston, Lancashire, PR3 2BE 01772 861529 http://www.engineeredcapabilities .co.uk

Engineered Composite Solutions (ECS)

Cirrus Regus Building, 6 International Avenue, Dyce Drive, Dyce, Aberdeen, AB21 0BH 01224 920909 https://www.engineeredcomposit esolutions.co.uk

Engineered Composites

Unit B4, Borders 2 Industrial Park, River Lane, Saltney, Chester, Flintshire, CH4 8RJ 01244 676000 https://engineeredcomposites.co.uk

Engineering and Beyond Ltd

Hedge End, Southampton, Southampton, SO30 2TD 07484 788696 https://engandbeyond.com

ESI UK

16 Morston Court, Cannock, Kingswood Lakeside, Staffordshire, WS11 8JB 01543 397900 http://www.esi-group.com

Europol

9 Birchills Trading Estate, Emery Road, Bristol, BS4 5PF 01179 715500 http://www.europoluk.com

Exel Composites UK

Fairoak Lane, Whitehouse Industrial Estate, Runcorn, Cheshire West and Chester, WA7 3DU 01928 701515 http://www.exelcomposites.com

Expo-Net Danmark A/s

101 Dell Road, Healey, Rochdale District, OL12 6AZ 07960 551980 http://www.expo-net.com

exPul Ltd

16 Riverside Avenue West, Lawford, Essex, CO11 1UN 01206 656045 http://www.expul.uk

Far-UK Ltd

Unit 29 Wilford Industrial Estate, Ruddington Lane, Nottingham, Nottinghamshire, NG11 7EP 01159 814464 https://www.far-uk.com

Fergusson's Advanced **Technology Ltd**

53 Lydden Grove, London, SW18 4LW 02034 176766 http://www.factechnology.com

Fibaform Products Ltd

Unit 19-31 Lansil Industrial Estate. Caton Road. Lancaster, Lancashire, LA1 3PQ 01524 60182 http://www.fibaform.co.uk

Fibreglass Solutions

Newby Road Industrial Estate, Hazel Grove, Stockport, SK7 5DR 0161 641 5572 http://www.fibreglasssolutionsltd.co.uk

Fibrelite Composites Ltd

Snaygill Industrial Estate, Keighley Road, Skipton, North Yorkshire, BD23 2QR 01756 799773 http://www.fibrelite.com

Filon Products Ltd

Unit 3 Ring Road, Zone 2 Burntwood Business Park, Burntwood, Staffordshire. WS7 3JQ 01543 687300 http://www.filon.co.uk

Fluency

Dunston Innovation Centre, Dunston Road, Chesterfield, Derbyshire, S41 8NG 01246 792003 http://www.fluency-group.com

Fluorocarbon Ltd

Fluorocarbon House, Caxton Hill, Hertford, Herts, **SG137NH** 0845 2505 100 https://fluorocarbon.co.uk

Formaplex Technologies Ltd

Unit H Hazleton Interchange, Horndean, Hampshire, PO8 9JU 02392 313100 http://www.formaplex.com

Freeform Technology Ltd

3 Top Angel, Buckingham, Buckinghamshire, MK18 1TH 01280 820921 http://www.freeformtechnology.co.uk

Frewer Engineering

Jayes Park Courtyard, Forest Green Road, Ockley, Dorking, Surrey, RH5 5RR 01306 621321 http://www.frewer-engineering.com

Future Humanity Ventures Ltd

7 Bell Yard, London, WC2A 2JR https://futurehumanityventures.com

Future Materials Group Ltd

The Mansion Chesterford Research Park, Cambridge, Cambridgeshire, CB10 1XL 01223 785320 http://www.futurematerialsgroup.com

G

Gazechim Composites UK Ltd

180E Park Drive Milton Park, Abingdon, Oxfordshire, OX14 4SE 01235 432610 http://www.gazechim.co.uk

Gen2 Carbon

Cannon Business Park, Darkhouse Lane, Coseley, Wolverhampton, WV14 8XQ 01902 406010 http://www.elgcf.com

Gen2Plank

Unit 9 Cannon Business Park Gough Road, Bilston, Wolverhampton, WV14 8XR http://gen2plank.com

Gestamp

Skerne Road Aycliffe Business Park, Newton Aycliffe, County Durham, DL5 6EP http://gestamp.com

GKN Aerospace

Ferry Road, East Cowes. Isle of Wight, PO32 6RA https://www.gknaerospace.com

Glas-Craft UK Ltd

Unit 5B, Lowercroft Business Park, Lowercroft Road, Bury, Bury, BL8 3PA 01617 642977 http://www.glascraft.co.uk

Gordon Murray Design Limited

Suite 1, Wharfside Suites, Broadford Business Park, Broadford Road, Shalford, GU4 8EP 01483 484700 https://www.gordonmurraydesign .com/technologies

GPF One Ltd trading as Hypetex

Unit B2 Vale Industrial Park, Tolpits Lane, Watford, London WD18 9QP 0207 851 4521 http://www.hypetex.com

Grazebrook Innovation

18a Waverley Ave, Kidlington, Oxfordshire, OX5 2NA 07511 656088 https://uk.linkedin.com/in/stellajob

GRM Consulting Ltd

12 Berrington Road, Leamington Spa, Warwickshire, CV31 1NB 01926 889300 http://www.grm-consulting.co.uk

GRP (UK) Ltd

Unit 19 Riverside Ind Est. Bridge Lane, Woolston Bridge Lane, Warrington, WA1 4BA 01925 812809 http://www.grpukltd.com

GRP Aberdeen Ltd

Unit 2, Logman Centre, East Tullos, Greenbank Crescent, Aberdeen, Aberdeen, AB12 3BG 01224 292654 http://www.grpaberdeen.com

GRP Consumable Solutions

Unit 6 Kenwood Business Park New Lane, Havant, Hampshire, PO9 2NT 02392 459511 https://www.consumablesolutions.com

GRP Safety Ltd

Unit 2, Harradines Estate, Short Drove, Earith, Cambridgeshire, PE28 3QT 01487 829200 http://www.grpsafety.co.uk

GRP Solutions Ltd

Portfield Road, Portsmouth, Hampshire, PO3 5FJ 02392 454509 https://grp-solutions.com

GRP Tools

Unit 12 Trinity Court, Brunel Road, Totton, Southampton, SO40 3WX 02380 872333 http://www.grptools.com

Units 40 - 43, Church Road Business Centre, Murston, Sittingbourne, Kent, ME10 3RS 01795 429424

http://www.groupfourglassfibre.co.uk

Gudel UK Ltd

5 Wickmans Drive, Coventry, Coventry, CV4 9XA 02476 695444 http://www.gudel.com

Gurit (UK) Ltd

St Cross Business Park, Newport, Isle of Wight, PO30 5WU 01983 828000 http://www.gurit.com

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Halyard

Whaddon Business Park. Southampton Road, Whaddon, Salisbury, Wiltshire, SP5 3HF 01722 710922 http://www.halyard.eu.com

Hambleside Danelaw

Long March, Daventry, Northamptonshire, NN11 4NR 01327 701900 http://www.hamblesidedanelaw.co.uk

Hankuk Composite UK Ltd

Suite 103, Regus Building, 220 Wharfedale Road, Winnersh Triangle, Wokingham, Reading, RG41 5TP 0118 214 5682 https://hankukcomposite.com

Heraeus Noblelight Ltd

Cambridge Science Park, Milton Road, Cambridge, Cambridgeshire, CB4 0GQ 01223 423324 http://www.heraeus-noblelight.com

Hexagon

4 Archipelago Lyon Way, Frimley, Surrey, GU16 7ER 01276 903120 https://hexagon.com

Hexcel Composites

Duxford, Cambridgeshire, CB22 4QD 01223 833141 https://www.hexcel.com

Hilton Docker Mouldings Ltd

OL15 8LB 01706 379358 http://www.hiltondoc.co.uk

Hive Composites

Advanced Technology Innovation Centre, Loughborough University Science and Enterprise Park, 5 Oakwood Drive, Loughborough, Leicestershire, LE11 3QF 01509 642 600 http://hivecomposites.com

Hubble Composites Limited

4th Floor 26-28 Hammersmith Grove, London, W6 7BA 02088 341034 http://www.hubblecomposites.com

Huntsman Advanced Materials

Ickleton Road, Duxford, Cambridge, Cambridgeshire, CB22 4XQ 07768 800143 http://www.huntsman.com/advan ced materials

iCOMAT

Unit 29 Brookgate, South Liberty Lane, Bristol, BS3 2UN 0117 373 9192 https://icomat.co.uk

IG Elements

Swains Court Park Road, Overseal, Derbyshire, DE12 6JS 01283 552205 http://iggrp.co.uk

iLECSYS Ltd

1 Kites Park Summerleys Road, Princes Risborough, Buckinghamshire, HP23 4JX 01442 828387 http://www.ilecsysrail.co.uk

IMCD UK Ltd

Times House Throwley Way, Sutton, Surrey, SM1 4AF 020 8770 7090 https://www.imcdgroup.com

Imperial College London -Centre for Infrastructure Materials

Department of Civil and Environmental Engineering, South Kensington Campus, London, SW7 2AZ 020 7594 5624 https://www.imperial.ac.uk/infrast ructure-materials

Inductosense Ltd

Unit 3, Kings Business Park, Feeder Road, Bristol, BS2 0TZ 0117 403 4047 http://www.inductosense.com

Instron European Headquarters Coronation Road, High Wycombe, Buckinghamshire, HP12 3SY 01494 456 815 http://www.instron.co.uk

Integral Machines And Services Ltd

157 Mutton Lane, Potters Bar, Hertfordshire, EN6 2HD 01707 850 362 http://www.integralms.co.uk

Woodgate Business Park, Bartley Green, Birmingham, B32 3DE 01214 228585 http://www.iscar.co.uk

iSpecc Ltd

10 Park Plaza Battlefield Enterprise Park, Shrewsbury, Shropshire, SY1 3AF 07748 556424 http://ispecc.com

JETCAM UK Ltd

The Lodge, Castle Bromwich Hall, Chester Road, Castle Bromwich, Solihull, B36 9DE 0870 760 6469 https://www.jetcam.net

Jo Bird and Company Ltd

Factory Lane Bason Bridge, Highbridge, Somerset, TA9 4RN 01278 785546 http://www.jobird.co.uk

JR Technology Ltd

30A Barrington Rd, Shepreth, Royston, Cambridgeshire, SG8 6QE 01763 260721 http://www.jrtech.co.uk

K

Kadant UK Ltd

Riverside Works, Woodhill Road, Bury, BL8 1BD 01617 649111 http://www.kadant.com

Karma Composites

26C Birkdale Close, Ilkeston, Derbyshire, DE7 8YA 07969 776062 http://www.karmacomposites.co.uk

Kennametal UK

The Pensnett Estate. Kingswinford, West Midlands, DY6 7NP 01384 401000 https://www.kennametal.com/us/ en/home.html

Kenyon Group

18-20 Miles Street, Oldham, Lancashire, OL1 3NU 0161 627 1001 https://www.gluegunsdirect.com

Kinpars Industrial Plastics Ltd

Whitlaw Road Industrial Estate, Lauder, Scottish Borders, TD2 6QA 01578 718855 http://www.kinpars.co.uk

KoverTek Ltd

Unit 4 Poldermere, Red House Lane, Hannington, Northamptonshire, NN6 9SZ 01604 781702 https://www.kovertek.com

KraussMaffei Group UK Ltd

410 Europa Boulevard, Gemini Business Park, Warrington, WA5 7TR 01925 644100 http://www.kraussmaffeigroup.co.

Krempel UK

Queens Street, Longridge, Preston, Lancashire, PR3 3BS 01772 783011 http://www.jsi-krempel.com

KS Composites Ltd

Crown Business Park, Old Dalby, Melton Mowbray, Leicestershire, LE14 3NQ 01664 823111 http://www.kscomposites.com

Lamplas

Castleside Industrial Estate, Consett, County Durham, DH8 8JA 01207 502474 http://www.lamplas.co.uk

Langtec Ltd

1 Calder Court, Altham, Accrington, Lancashire, BB5 5YB 01282 772544 http://www.langtec.co.uk

Leading Edge Strategy Consulting Ltd

9 George Square, 1st Floor, Glasgow, G2 1QQ https://leading-edge-strategy.com



Lentus Composites Ltd

Horizon Technology Park, Stanton Road, Eynsham, Oxfordshire, OX29 4GF 01865 592240 https://www.lentuscomposites. co.uk

Leonardo Helicopters

Lysander Road, Yeovil, Sommerset, BA20 2YB 01935 475222 http://www.leonardocompany.com/en

Levbold

Unit 9, Silverglade Business Park, Leatherhead Road Chessington, KT9 2QL 01372 737300 https://www.leybold.com

Lifespan Structures Ltd

Cathite House 23a Willow Lane, Mitcham, Surrey, CR4 4TU 0203 146 7332 http://www.lifespanstructures.com

Lightweight **Manufacturing Centre**

85 Inchinnan Drive, Inchinnan, Renfrew, PA4 9LJ 01415 524400 http://www.afrc.org.uk

Lineat Composites

National Composites Centre, Bristol & Bath Science Park, Emersons Green, Bristol, BS16 7FS https://lineat.co.uk

Llewellyn Ryland Ltd

Haden Street, Birmingham, B12 9DB 01214 402284 http://www.llewellyn-ryland.co.uk

Logun Composites Ltd

Daniels Way, Hucknall, Nottingham, NG15 7LL 01156 487185 http://www.loguncomposites.com

Loop Technology

Loop Technology Centre, Paceycombe Way, Poundbury, Dorchester, Dorset, DT1 3EW 01305 257108 http://www.looptechnology.com

М

M Wright & Sons Ltd

Quorn Mills, Quorn, Loughborough, Leicestershire, LE12 8FZ 01509 412365 http://www.mwright.co.uk

M&CT Ltd

12 Wharton Street Sherdley Road Industrial Estate, St Helens, WA9 5AA 01744 737274 https://www.vitreous-enamel.com

Magnum Venus Products Europe Ltd

Unit 22a, Navigation Drive, Hurst Business Park, Brierley Hill, Dudley, DY5 1UT 01384 486222 http://www.mvpeurope.co.uk

Mainstream Renewable Power

1 Lochrin Square, 92 Fountainbridge, Edinburgh, EH3 9QA https://www.mainstreamrp.com

Maplan UK Ltd

Unit 5, The Glenmore Centre, Waterwells Business Park, Quedgeley, Gloucester, Gloucestershire, GL2 2AP 01452 722733 http://www.maplan.co.uk

Marine Concepts Ltd

HMS Daedalus Broom Wav. Lee-On-The-Solent, Hampshire, PO13 9YA 02392 556955 http://marineconcepts.co.uk

Marshall Aerospace & Defence

- Advanced Composites Ings Lane, Kirkbymoorside. York, YO62 6EZ 01751 432474

https://marshalladvancedcomposi tes.com

MATRIX Composite Materials

2 Folly Lane, St Phillips, Bristol, BS2 0RH 01179 548040 http://www.matrix-composites.co.uk

McCarthy Environmental Ltd

Unit 9B Cygnet Court, Northampton, Northamptonshire, NN4 9BS 01604 635333 https://mccarthyenvironmental.co.uk

MCL Group Industries Ltd

New Street, Biddulph Moor, Staffordshire, ST8 7NL 01782 375450 http://www.mcl-grp.co.uk

McLaren Racing Ltd

McLaren Technology Centre, Woking, Surrey, GU21 4YH http://www.mclaren.com

Menzolit Ltd

Baxter Works, Farrington Road, Rossendale Road Industrial Estate, Burnley, Lancashire, **BB11 5SY** 01282 875065 http://www.menzolit.com

Metering Technology Services Ltd

15 Waresley Court Road, Hartlebury, Worcestershire, DY11 7TQ 07811 786091 https://www.meteringtechnology.co.uk

Metrology Software Products Ltd (MSP)

6F Greensfield Court, Alnwick, Northumberland, NE66 2DE 01665 608193 http://www.mspltd.com

Micris Ltd

Green Grove Mill, Dyehouse Lane, Rochdale, Rochdale District, OL16 2QN 01706 753500 http://www.micris.co.uk

Millfield Composites Group Ltd

16 Shellev Road. Newburn Industrial Estate, Newcastle upon Tyne, Newcastle upon Tyne, NE15 9RT 01912 648541 http://www.millfield-group.co.uk



Minden Systems Ltd

3/4 Wayside Braunston Business Park, Braunston, Northamptonshire, NN117HB 01788 890571 https://minden.co.uk



Mirka (UK) Ltd

Saxon House, Shirwell Crescent, Furzton Lake, Milton Keynes, MK4 1GA 01908 866100 http://www.mirka.co.uk

Mould Ability Ltd

Composites House Hayford Way, Speedwell Industrial Estate, Chesterfield, Derbyshire, S43 3JR 01246 470470 http://www.mould-ability.co.uk

Mouldlife Ltd

Miro House Western Way (WEST), Bury St Edmunds, Suffolk, IP33 3SP 01638 750679 http://www.mouldlife.co.uk

Moulds, Patterns and Models Ltd

Anchor Works Swinnow Lane, Bramley, Leeds, LS13 4TY 01132 360396 http://www.mpmbradford.co.uk



MSA Manufacturing Ltd

Ferndown Industrial Estate, Wimborne, Dorset, BH21 7SE 01202 850440 https://www.msamfg.co.uk

MSD Design Ltd

Unit 1, Logman Centre, East Tullos, Greenbank Crescent, Aberdeen, AB12 3BG 01224 897238 http://www.msddesignltd.com

MTAG Composites Ltd

Coldham Road, Coningsby, Lincolnshire, LN4 4SE 01526 343790 http://www.mtagcomposites.com

Multimatic

Herald Avenue, Coventry Business Park, Coventry, CV5 6UB 02476 673 333 https://www.multimatic.com

Multi-Ply Components

Trotters End, Preston Rd, Inskip, Preston, Lancashire. PR4 0TT 01772 691271 https://www.multi-ply.co.uk

MW Polymer Products

The Sidings, Duffield Road Industrial Estate, Little Eaton, Derby, Derbyshire, DF21.5FG 01332 835001 https://www.mwpolymers.co.uk

Ν

National Composites Centre

Feynman Way Central, Bristol & Bath Science Park, Emersons Green, Bristol. South Gloucestershire, BS16 7FS 01173 707600 http://www.nccuk.com

Nippon Electric Glass Co Ltd

PO Box 132 Leigh Road, Wigan, Lancashire, WN2 4XZ 01942 257161 https://www.neg.co.jp/en/company

Norco Composites 43 Holton Road.

Holton Heath Industrial Estate, Poole, Dorset, BH16 6LT 01202 623934 http://www.norco.co.uk

Nord Composites UK Ltd Old Park Trading Estate -

Units 4/5/6 Block C, Old Park Road, Wednesbury, Sandwell. WS10 9LR 0121 505 4967 http://www.nord-composites.com

North Eastern Composites Ltd

Unit 3 Rhodes Court, South Nelson Road. Cramlington, Northumberland, NE23 1WF 03332 409935 http://www.nec-glassfibre.co.uk

Northern Ireland **Advanced Composites** and Engineering Centre

5 Airport Road, Belfast, Antrim, BT3 9DZ 02896 213725 http://www.niace.org



OB2B Industrial Marketing and PR

4 Hobbs Hill, Rothwell, Northamptonshire. NN14 6YG 01536 210133 http://www.outsourcingb2bmar keting.com

Omya

Omya, Melton Office, North Ferriby, East Yorkshire, HU143HU https://www.omya.com

Optima Projects

Larkspur, Old Orchards, Lymington, Hampshire, SO41 3AF 07774 887037 http://www.optima-projects.com

Orlimex UK Ltd

c/o TW Logistics, The Old Shipyard, Gainsborough, Lincolnshire, DN21 1NO 02036 036025 http://orlitech.co.uk

Orthotropic Engineering

7 Fairford Rd, Quenington, Cirencester, Gloucestershire, GL7 5BT 07879 210025 https://www.orthotropic.co.uk

Oxeco Ltd

Centre for Innovation & Enterprise, Beabroke Science Park. Woodstock Road, Begbroke Hill, Begbroke, Oxfordshire, OX5 1PF 01865 854807 https://www.oxeco.co.uk

Oxford Brookes University

Wheatley Campus Gipsy Lane, Wheatley. Oxfordshire. OX33 1HX 01865 483556 http://www.brookes.ac.uk

Oxford Plastics

Unit T2, Enstone Business Park, Enstone, Chipping Norton, Oxfordshire, OX7 4NP 01608 678888 http://www.oxfordplastics.com

Patent Outsourcing Ltd.

Corner House, 1 King Street, Bakewell, Derbyshire, DE45 1DZ 01629 828585 http://www.patentoutsourcing.com



Patterns and Moulds Ltd

Unit D2, Wymeswold Industrial Park. Wymeswold Lane. Burton On The Wolds, Leicestershire, LE12 5TY 01509 881581 http://www.patternsandmoulds. com

PE Composites Ltd

50 Dodnor Lane, Newport, Isle of Wight, PO30 5XD 01983 529164 http://www.pecomposites.com

PegBox Ltd

39 Chapel Road, Southampton, Southampton, SO30 3FG 03330 065664 http://www.pegbox.co.uk

Pentaxia Limited

Alfreton Road, Derby, DE21 4AG 01332 574 870 http://www.pentaxia.co.uk

Performance Engineered Solutions Ltd

AMP Technology Centre Brunel Way, Sheffield, S60 5WG 0114 321 6375 https://www.pes-performance.com



Permabond Engineering Adhesives Ltd

Wessex Business Park, Wessex Way, Colden Common, Winchester, Hampshire, SO21 1WP 01962 711661 http://www.permabond.com

Permali Gloucester Ltd

Bristol Road, Gloucester, Gloucestershire, GL1 5TT 01452 528282 http://www.permali.co.uk

Piran Advanced Composites Ltd

Unit 16, Barnfields Business Park, St. Issey, Wadebridge, Cornwall, PL27 7SE 01841 521011 https://pirancomposites.co.uk

PK Forming

131 Doddington Road, Lincoln, Lincolnshire, LN6 7HE 07834 739899 http://www.pkforming.com

Plyable

Unit B 33 Pony Road, Oxford, Oxfordshire, OX4 2RD 01865 686164 https://www.plyable.com

Polynt Composites Ltd

Laporte Road. Stallingborough, Near Grimsby, Lincolnshire, **DN41 8DR** 01469 552571 http://www.polynt.com

Power Adhesives Ltd

Lords Way, Basildon, Essex, SS13 1TN 01268 885801 https://www.poweradhesives.com

Prea Ltd

Prea House. Manchester, M43 0AB 0161 207 8007 http://www.prea.co.uk

Preform (Technical) **Textiles Limited**

Centurion Way Business Park, Alfreton Road, Derby, Derbyshire, DE21 4AY 01332 366587 http://www.preform.net

Premier Autoclaves Service & Solutions Ltd

Crown Works, Bradford Road, Sandbeds, Keighley, Bradford, BD20 5LN 01535 860015 http://www.premierautoclaves.com



PRF Composite **Materials Ltd**

3 Upton Road, Poole, BH17 7AA 01202 680022 http://www.prfcomposites.com

Princess Yachts

Newport Street, Stonehouse, Plymouth, PL1 3QG 01752 203888 https://www.princessyachts.com

Prodrive Composites Ltd

Precedent Drive. Milton Keynes, MK13 8PE 01908 776400 http://www.prodrive.com/composites

Progressive Technology Advanced Materials Ltd

Hambridge Lane, Newbury, West Berkshire, RG14 5TS 01635 500480 http://www.progressivetechnology.co.uk

Pultrex Ltd

18 - 20 Riverside Avenue West, Manningtree, CO11 1UN 01206 395559 http://www.pultrex.com

Pure Innovate UK Ltd

Unit 7, Verda Park, Wallingford, OX10 9SJ https://pureinnovate.uk

Q

Qube Buildings

Suite 5, 21 Farncombe Street, Godalming, GU7 3AY 01483 346070 http://www.qubebuildings.co.uk

R

RBJ Reinforced Plastics Ltd

Woodcock Hill Industrial Estate, Harefield Road, Rickmansworth WD3 1PE 01923 778853 http://www.rbjplastics.com

Reactive Components Ltd

Pioneer Park 75 Exploration Drive, Leicester. LE4 5NU 01162 257852 http://www.reactivecomponents.com

ReBlade

2 Stewart Street, Milngavie, Glasgow, G62 6BW http://www.reblade.co.uk

RECOUP

(Recycling of Used Plastics Ltd)

1 Metro Centre, Woodston, Peterborough, Cambridgeshire, PE2 7UH 01733 390021 http://www.recoup.org

Renewable Advice

Renewables House, Unit 1 Moorside Business Park, Moorside Road. Winchester, Hampshire, SO23 7RX 03306 600363

http://www.renewableadvice.com

Retrac Group Ltd

Units 1-5, Techno Trading Estate, Bramble Road. Swindon, SN2 8HB 01793 618822 http://www.retrac-group.com

RFID Systems Ltd (Trovan)

Orchard Lodge, Melton Grange, Gibson Lane South, Melton, East Riding of Yorkshire, HU14 3HG 01482 222070 http://rfidsystems.co.uk

Rhodes Interform Ltd

Unit 21 Calder Vale Road, Wakefield, Wakefield, WF1 9RD 01924 371161 http://www.grouprhodes.co.uk

Richard Baker Harrison Ltd

Albion Steet, Failsworth, Manchester, M35 0FP 01616 812691 https://www.rbhltd.com

Roaches international Ltd

27 Dark Lane, Birstall, Kirklees, WF17 9LN 01924 420083 http://www.roaches.co.uk

Unit 11, Springwell

Rockwood Composites

Long Road, Paianton, Devon. TQ4 7BB 01626 240026 http://www.rockwoodcomposites.com

Royal National Lifeboat Institution Trading Ltd (RNLI)

West Quay Road, Poole. BH15 1HZ 0300 300 9990 http://www.rnli.org

R-Tech Materials

Testing House, Kenfig Industrial Estate, Margam, Port Talbot, Neath Port Talbot, SA13 2PE 01656 748000 http://www.r-techmaterials.com



Ru-bix Tooling Board

Venus Court, Hardwick Industrial Estate, Kings Lynn, Norfolk, PE30 4HY 01485 313020 http://www.ru-bix.com

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S4TEK Ltd

Unit 13B The Old Sawmills, Halves Lane, East Coker, Yeovil, BA22 9JJ 01935 864098 http://www.s4tek.co.uk

Safran Nacelles Ltd

Bancroft Road, Burnley, Lancashire, BB10 2TQ 01282 419300 https://www.safrannacelles.com/country/safrannacelles-united-kingdom

SageZander

73/73a West Street, Congleton, Cheshire East, CW12 1JY 01260 295264 http://www.sagezander.com

Santander

Santander House, 100 Ludgate Hill, London, EC4M 7RE https://www.santandercb.co.uk

SBHPP

Suite 12, Endeavour House Endeavour Business Centre, Coopers End Road, Stansted, CM24 1SJ https://www.sbhpp.com

SciGrip Adhesives Ltd

Unit 22, Bentall Business Park, Glover Road, Washington, Sunderland, NE37 3JD 01914 196444 http://www.scigrip.com

Scott Bader

Wollaston Hall, Wollaston, Wellingborough. Northamptonshire, NN29 7RL 01933 663100 http://www.scottbader.com

Sharp & Tappin Technologies Ltd - CompCut

Unit 1 Tamar Technology Park, River Tamar Way, Holsworthy, Devon, EX22 6EW 01409 253534 http://www.sharpandtappin.com

SHD Composite Materials Ltd

Unit 4, The Reservation, Sleaford Enterprise Park, Sleaford, Lincolnshire, NG34 7BY 01529 307629

http://www.shdcomposites.com



Shimadzu UK Ltd

Mill Court. Featherstone Road. Wolverton Mill South, Milton Keynes, MK12 5RE 01908 552209 http://www.shimadzu.co.uk

Sigmatex (UK) Limited

Manor Farm Road, Manor Park Norton, Runcorn, Halton, WA7 1TE 01928 570050 http://www.sigmatex.com

Sika Advanced Resins

Head Office Watchmead, Welwyn Garden City, Hertfordshire, AL 7 1BQ 01707 394444 http://www.gbr.sikaadvancedresins com

Silverstone Technology Cluster

Silverstone Park Innovation Centre, Silverstone Park, Towcester, Northamptonshire, NN12 8GX 01327 856108 https://www.silverstonetechnology cluster.com

Simpson Patterns 269 Coleford Road, Sheffield,

Sheffield, S9 5NF 0114 2725561 http://www.simpsonltd.co.uk

Smyth Composites Ltd

Panmure Ind Estate, Carnoustie, Angus, DD7 7NP 01241 855799 http://www.scomp.co.uk

Solvay Advanced Materials

Composites House. Sinclair Close, Heanor Gate Industrial Estate, Heanor, Derbyshire, DE75 7SP 01773 766200 http://www.cytec.com

Step On Safety Ltd

Factory Lane, Brantham, CO11 1NH 01206396 446 http://www.steponsafety.co.uk

Strategic Recruitment **Partners Ltd**

48 Haslemere Road, Southsea, Portsmouth, PO4 8AZ 0800 6129657 http://srpltd.com

Strathcarron and Company

The INCUBA 1 Brewers Hill Road, Dunstable, Central Bedfordshire, LU6 1AA 01582 343824 http://strathcarron.com/composite s/sces-introduction

STRUCTeam Ltd

The Stables, Northwood House Ward Avenue, Cowes, Isle of Wight, PO31 8AZ 01983 240534 http://www.structeam-ltd.com

Structural Science Composites

Unit 8 James Freel Court, James Freel Close, Barrow in Furness. Cumbria, LA14 2NG 01229 814340 http://www.structuralscience.net

Sui Generis International

The Chandler Centre Hythe Quay, Colchester, Essex, CO2 8JF 01206 798 798 http://www.suigeneris.co.uk

Surface Generation Ltd 7 Brackenbury Court,

Lyndon Barns, Edith Weston Road, Lyndon, Oakham, Leicestershire, LE15 8TW 01572 737011 http://www.surface-generation.com

Tappex Thread Inserts Ltd

Masons Road, Stratford-upon-Avon. Warwickshire, CV37 9NT 01789 206600 http://www.tappex.co.uk

Taziker Industrial Ltd

Levens House, Ackhurst Business Park, Foxhole Road. Chorley, PR7 1NY 0344 8800 385 http://www.taziker.com

Team Refrigeration Ltd

Unit 9 Westland Distribution Park, Winterstoke Road, Weston-Super-Mare, Somerset, BS24 9AB 01934 613500 http://www.teamrefrigeration.co.uk

Tebis (UK) Ltd

The TechnoCentre, Coventry University Technology Park, Puma Way, Coventry, CV1 2TT 024 7615 8178 https://www.tebis.com/en

Tech Connect Group

The Gantry, Calcot Lane, Curdridge, Southampton, SO32 2BN 01489 539 200 http://www.techconnectgroup.co.uk

Techlan Ltd

Unit 1A Dura Park, Yspitty Road, Llanelli, SA14 9TD 01792 366999 http://www.techlanltd.co.uk

Technical Composite Systems Ltd

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Technical Fibre Products Ltd

Burneside Mills, Kendal, Cumbria, LA9 6PZ 01539 818220 http://www.tfpglobal.com

Teledyne CML Composites

Tebay Road, Bromborough, Cheshire West and Chester. CH62 3PA 01513 348200 http://www.teledynecml.com

The Composite Engineer Hillcrest House Leigh Road,

Eastleigh, Southampton, SO50 9DT 02380 200 121 https://thecompositeengineer.com

The Rodwell Autoclave Company

Bentalls Pipps Hill Industrial Estate, Basildon, Essex, SS14 3SD 01268 286646 http://www.rodwell-autoclave.com

The Source Technical

33 Laithe Hall Avenue. Cleckheaton, York, BD19 6UA 07859 974803 http://www.thesourcerec.co.uk

The Tax Credit Company

First Floor, Swan Buildings, 20 Swan Street, Manchester, M4 5JW 0161 524 1515 http://taxcreditcompany.co.uk

Thomson Composite Solutions

3 Nursery View, Faringdon, Oxfordshire, SN7 8SJ 01367 243270 https://www.tillett.co.uk

Thriv3 Group

1 Melbourne Court, Richmond-upon-Thames, London, TW2 6PH 0203 859 2289 https://www.thriv3group.org/

Tillett Racing Seats

Styles Close, Sittingbourne, Kent, ME10 3BF 01795 420312 https://www.tillett.co.uk/

Tony Gee and Partners LLP

Hardy House 140 High Street, Esher, Surrey, KT10 9QJ 01372 461600 http://www.tonygee.com



Tool-Temp Ltd

Unit 3 Everitt Close, Denington Industrial Estate, Wellingborough, Northamptonshire, NN8 2QE 01933 442623 http://www.tool-temp.net

Toray Advanced Composites

Amber Drive, Langley Mill, Nottingham, Derbyshire, NG16 4BE 01773 530899 http://www.toraytac.com

Toray International UK Ltd

7th Floor Landmark House. 69 Leadenhall Street, London, EC3A 2BG 02076 637779 http://www.toray-intl.co.uk

Total Composite Solutions Ltd

Unit 6 Kenwood Business Park, New Lane, Havant, Hampshire, PO9 2NT 02392 459513 http://www.totalcompositesolution

Total Machining Solutions Ltd

Unit 14 Lordswood Industrial Estate, Revenge Road, Lordswood, Chatham, Kent, ME5 8UD 01634 685319 http://www.tms-ltd.net

Towergate Insurance Brokers

Pegasus Court, Olympus Avenue, Tachbrook Park, Warwick, Warwickshire, CV34 6LW 01926 439 430 http://www.towergate.co.uk

TRB Lightweight Structures

12 Clifton Road, Huntingdon, Cambridgeshire, PE29 7EN 01480 447400 https://trbls.com

Trelleborg Sealing Solutions

Ryder Close, Swadlincote, Derby, DE11 9EU https://www.trelleborg.com/en/seals

Tricel Composites

Milltown Industrial Estate, Greenan Road. Warrenpoint Units 10 & 11, Newry, Newry And Mourne, BT34 2JR 01132 703 133 http://www.tricelcomposites.co.uk



Trident Foams

BKB House, Goyt Valley Ind Est, Calico Lane Off Station Road, Furness Vale, High Peak, Derbyshire, **SK23 7SN** 01663 740120 http://www.tridentfoams.co.uk

TTS Nortest

7 Everdon Park. Heartlands Business Park, Daventry, Northamptonshire, NN11 8YJ http://www.nortest.co.uk

TWI Ltd

Granta Park, Great Abington, Cambridge, Cambridgeshire, **CB21 6AL** 01223 899000 https://www.twi-global.com

UK Flowtechnik

1 Central Park, Lenton Lane, Nottingham, NG7 2NR http://www.ukflowtechnik.com

UK Innovations -Ford Motor Company

Dunton Technical Centre. 15/3A-U05-A, Laindon, Basildon, Essex, SS15 6EE https://www.ford.com

Ultima Forma

Unit 1, Ash Hill Common, Bunny Lane, Sherfield English, Romsey, SO51 6FU https://ultima-forma.com

Ultra Decking

72 Manchester Road, Woolston, Warrington, WA1 4AE 01925 943011 http://ultradecking.co.uk

University of Bristol - Bristol Composites Institute

Queen's Building, University of Bristol, Bristol, Bristol, BS8 1TR http://www.bristol.ac.uk/composites

University of Derby

Kedleston Road, Derby, Derbyshire, DE22 1GB https://www.derby.ac.uk

University of Edinburgh

South Bridge, Edinburgh, Edinburgh, EH8 9YL http://www.ed.ac.uk

University of Portsmouth -School of Mechanical and **Design Engineering**

Anglesea Road, Portsmouth, PO1 3DJ http://www.port.ac.uk

University of Southampton -**School of Engineering Sciences**

Highfield, Southampton, SO17 1BJ 023 8059 2356 https://www.southampton.ac.uk/ advancedmaterials/index.page

University of Surrey

Stag Hill, University Campus, Guildford, GU2 7XH https://www.surrey.ac.uk

University of Warwick -School of Engineering

University of Warwick, Coventry, CV4 7AL 02476 522528 http://www2.warwick.ac.uk/fac/s ci/eng/

V Carbon

20 North Audley Street, Mayfair, London, M1K6WE 07555 888080 http://www.v-carbon.com

Vac Innovation Ltd

Wheatfield Way, Hinckley, Leicestershire, LE10 1YG 01858 882000 http://www.vacinnovation.co.uk

Vacuum Furnace Engineering

Unit 8 Hingley Road, Hayes Industrial Estate, Halesowen, Dudley, B63 2RR 01384 426170 http://www.vfe.co.uk

Velocity Composites PLC

Billinton Road, AMS Technology Park, Burnley, BB11 5UB 01282 577577 https://www.velocity-composites.com

VeriVide Ltd

Quartz Close, Enderby, Leicester, Leicestershire, LE19 4SG 01162 847790 https://www.verivide.com

Vestas Blades UK

West Medina Mills Stag Lane, Newport, Isle of Wight, PO30.5TR http://www.mhivestasoffshore.com

Victory Lighting

Unit 10, Chartmoor Rd, Leighton Buzzard, LU7 4WG 01525 487960 http://www.victorylighting.co.uk

Victrex

Hillhouse International, Thornton Cleveleys. Lancashire, FY5 4QD 01253 897700 http://www.victrex.com

Virtek Vision International

Gerber Technology, Unit 7, Mercury Way, Trafford Park, Manchester, M41 7LY 0775 772 5247 https://virtekvision.com

Vishav Measurements Group

Stroudley Road, Basingstoke, Hampshire, RG24 8FW 01256 462131 http://www.vishaypg.com/micromeasurements

Volta Trucks

The American Barns, Banbury Road, Warwick, CV35 0AE 033 6 30 67 87 53 https://voltatrucks.com

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Warwick Manufacturing Group

International Manufacturing Centre, University of Warwick, Coventry, CV4 7AL 02476 524871 https://warwick.ac.uk/fac/sci/wm g/about

Wessex Resins and Adhesives

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WSP UK Ltd

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Zund UK

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