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2019/20

www.compositesuk.co.uk
Welcome to the 2019/20 Composites UK Membership Directory. 2019 has been another excellent year for Composites UK. We commemorated our 30th birthday back in June with a celebratory dinner, bringing together our current members with those who founded the Association in 1989. It was great to see the history of Composites UK in one room discussing what future opportunities the industry has and where it will excel.

We introduced new topics to our events schedule, which were successfully received. These included ‘Composites 4.0 - Automation and Digitisation of Composites Manufacturing’ and a new biennial event titled ‘Confidence in Composites’ which aims to increase the trust in using composite materials through effective monitoring and repair.

Behind the scenes, we have been involved in the creation of several studies and roadmaps. We facilitated the creation of two new Good Practice Guides for composites on the topics of Fire and Joining, both of which will be released in the next few months.

With an ever-increasing interest in sustainability, we developed a ‘Vision and Roadmap for Sustainable Composites’ and from the results are developing an action plan. We are working globally to support knowledge sharing and collaboration in recycling and life cycle assessment.

Published in September, we have also put together a roadmap for the use of composites in construction applications. The opportunities in this sector are huge, but there are some critical blockers to overcome. Throughout the year, we have strengthened our relationships with other organisations, continuing to work with the Health and Safety Executive and other trade bodies to improve health and safety practices across the manufacturing sector.

Additionally, we are working closely with the British Standards Institute (BSI) on key areas such as ensuring appropriate composite representation is included on BS technical committees, and identifying gaps in standards that prevent the uptake of composite materials across a variety of sectors to enable BSI to develop a strategic approach to current standards revision and new standards development.

During 2019 four new directors were elected to the board and with current opportunities for members and the Association, the strategy for Composites UK is to be reviewed and updated in-line with the prospects, growth and industry needs. For 2020, we plan to grow the Association to represent a higher proportion of the UK composites industry and in the last few months, our operations team has increased by 50% to six members of staff, and this will enable us to work more closely with individual member companies to assess their requirements and provide improved support and guidance.

We are keen to see the benefits of composites grow into new sectors and applications, and support the UK industry to be world-leading. For example, we are working with the UK Space Agency to develop the UK’s excellent aerospace composite capability for the growing space sector. We are also in the process of reviewing all data on the Hub, updating where needed, and mapping the sectors, organisations and activities in the industry. This will give us an improved picture of the actual size of the UK composites market, where it currently supplies into and where the future opportunities for development lie.

Ben Wilson, Chairman - Composites UK
PRF Composite Materials is a leading manufacturer and supplier of high-performance materials for the advanced composites industry, with a comprehensive range of products available from stock: prepreg (tooling and component), reinforcements, epoxy resin systems, release agents and kitting services. With over 35 years’ experience supplying the aerospace, motorsport, renewable energy, defence, sports & leisure, medical and marine industries, we are now building on significant recent investment to further develop our prepreg manufacturing capability and extend our range of high quality prepreg systems.

2019 has seen continued growth and expansion for the company. We have installed a new, state-of-the-art unidirectional prepreg line and have just launched our new RP542-4 toughened system for UD and woven prepregs. Designed as an intermediately toughened system, complimenting both our RP542-1 and super-toughened RP549 systems, this new system is producing excellent results on unidirectional carbon and woven fabrics.

Other highlights in our prepreg range include standard cure RP542-1, which produces exceptional aesthetic results for visual quality applications. We have developed a highly toughened system, RP549, providing excellent mechanical results and Tg after post curing; Peak Tg is 214°C with an Onset Tg of 195°C (DMA). Our range also includes RP570 snap cure. Ideal for pressed components, this system has a complete processing time of just 4 minutes and can be demoulded without cooling the mould tool. In addition, our range of tooling systems are receiving outstanding customer feedback and provide a range of cure cycles and out life to suit our customers’ manufacturing requirements.

Both our UD and woven prepreg lines are supported by chemists, engineers and technicians with extensive lab facilities. We have a process laboratory to support our manufacturing, as well as our material testing laboratory where we perform thermal and rheology analysis, and mechanical testing. Continuing to invest in innovation and product development, R&D remains an important part of our prepreg developments – with fire-retardancy as a key focus for the team in 2020. We bring our significant experience working with technical textiles to our manufacturing; working with specialist fibres to meet technical requirements. We also offer short lead times and aim to supply our standard prepreg materials within three weeks.

With our wider range of advanced materials, we provide solutions for manufacturers using hand layup and infusion processing. We offer a comprehensive selection of reinforcements, which includes specialist fibre types and a range of constructions, high performance epoxy resin systems and Qicote mould release technologies. We support this with a range of consumables and Robuso cutters and shears – which are specifically designed for cutting technical fabrics.

Doing things differently, PRF is passionate about innovation and quality, 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 and cost-effectiveness.

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Toray Advanced Composites, previously known as TenCate Advanced Composites, is a global leader in the development and manufacture of advanced thermoset and thermoplastic based composite material solutions for aerospace, satellite, communications and high-performance industrial markets.

Material formats include:
- Unidirectional tapes
- Fabric prepps
- Bulk moulding compounds
- Reinforced thermoplastic laminates

You will find our products on nearly every commercial airliner, military aircraft, satellite, launch vehicle, Formula 1 racecar and across a wide range of high-performance medical, sporting goods, and consumer electronics products. Our key brands include Toray Cetex® thermoplastics and Toray AmberTool® tooling prepps. Toray Advanced Composites also supplies molded composite parts, honeycomb core, resin films, syntactic films and RTM resins to deliver a single, cost-effective solution to our customers.

We support our customers with state of the art production facilities in Europe (Nijverdal, The Netherlands and Langley Mill, UK), the USA (Morgan Hill CA, Fairfield CA, Camarillo CA) and Asia (Guangzhou, China).

Recent product introductions include Toray E732, a toughened snap-cure epoxy prepreg that achieves a full Tg of 170°C, in 4 minutes at 160°C, for press moulding processing. Suitable for high volume industrial applications, this prepreg system has a robust processing window and can also be used in autoclave processing.

Together with component prepps, our comprehensive AmberTool® series of epoxy tooling prepps are the trusted benchmark in the composites industry, delivering an unmatched reputation for reliability while producing a professional cosmetic surface finish. The Toray AmberTool® family is exceptionally flexible to your design needs. Our prepregs cure at low temperatures to allow the production of high-quality composite tooling from low-cost master patterns. Additionally, with their excellent tack, drape, and handling characteristics, AmberTool® tooling prepps easily fabricate into complex tool shapes.

Our philosophy
Whether you’re a new Toray Advanced Composites customer or long-time partner, you’ll find a commitment to customer satisfaction underpins every action we take. We serve customers ranging from the largest aerospace and defence and recreational products firms to industrial and medical equipment customers. We know a lot is riding on the products and services we provide to all customers, big and small, and we take their success personally. We work with you from the first day to help you select the optimum product, providing you with detailed information, instruction and technical advice, and even helping you solve design and final product issues. We recognize that we win only when all of our customers receive the best solutions and support.

Our UK site, located in Langley Mill, Nottingham, is Toray’s European Centre of Excellence for thermoset composite material systems, supplying the UK with advanced composite materials for over 30 years, and holds the AS9100 certification.

For more information, go to www.compositesuk.co.uk
The correct vacuum and overpressure technology can improve the manufacturing efficiency of composite materials. Busch (UK) Ltd, one of the leading suppliers of vacuum and low-pressure solutions in the UK, offers a comprehensive product portfolio of vacuum pumps, systems, and services for this industry.

Utilising over 50 years of experience with vacuum technology, and the accumulated knowledge from thousands of installations in diverse applications, Busch (UK) Ltd can work with you to provide you the optimal vacuum solution. With the correct vacuum and overpressure technology you can benefit from increased reliability to ensure a more stable vacuum supply, increased efficiency, and a reduction in maintenance costs.

In addition to the wide range of products, Busch (UK) Ltd can service all makes of vacuum pump at one of our UK service centres and has a dedicated team of trained engineers that provide rapid response to service requirements.

Busch (UK) Ltd also offers operators a vacuum consultation free of charge. A Busch specialist will visit the production site to analyse the entire process and the demands placed on the vacuum supply. The results of this analysis are used to evaluate the vacuum technology in terms of process reliability and efficiency. Further potential for optimisation may then be identified, and recommendations can be made to reduce energy and maintenance costs.

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Micro-Measurements®, a Vishay Precision Group, Inc. (VPG) brand are industry experts in the design, development, and manufacture of resistive-foil sensors for high-precision strain and high-stress measurements.

Strain gauge technology, a key internal component of finished sensor designs, is a long-recognized industry standard. Strain gauges change electrical resistance caused by changes of strain occurring in response to an applied force. In addition to their reliability, strain gauges are compact and low cost. This has facilitated their widespread adoption into many of today’s force, load, position, pressure, tension, weight, strain sensor designs, experimental stress analysis and materials testing.

Further design improvements over traditional strain gauge types include smaller and tighter grid-resistance tolerances, improved gauge-to-gauge repeatability, and enhanced measurement stability. All enhancements are implemented via a fully optimized fabrication process, incorporating the very latest in tooling, methods, and equipment. As a result, the prototype design and manufacturing of anywhere from a single strain gauge piece up to OEM volumes may be easily accommodated, with uniform high quality and competitive lead times.

The Micro-Measurements Advanced Sensors Technology product portfolio includes linear, shear and circular gauges, arranged as individual, half-bridge and full-bridge configurations, in ranges from 350Ω to 20kΩ, with added flexibility in mounting options.

CEA-Series strain gauges are used extensively to perform standard tension and compression tests on polymer matrix composite for Aerospace, Motorsport, Wind Turbine and many other applications. The new sensor patterns feature a unique configuration that is ideal for any strain measurement requiring close proximity to one-sided features, such as weld joints, structural discontinuities or stress risers like holes and cracks.

StrainSmart® Data Acquisition Systems can accept signals from strain gauges or strain-gauge-based transducers, thermocouples, high-level voltage sensors or piezoelectric sensors such as accelerometers. Strain gauge channels support full-, half-, or quarter-bridge configurations, and offer built-in precision completion for 120Ω, 350Ω, and 1000Ω bridges.

System 8000 is intended for static and dynamic test and measurement applications. 8-channel scanners may operate independently, or up to 16 scanners can be used concurrently for a maximum of 128 channels. Each channel’s data is processed in a modern 24-bit digital signal processor, and filtering is performed using finite impulse response (FIR), multi-stage filters. This provides excellent noise rejection, stability, and unsurpassed measurement accuracy. Sampling rates are 1000, 500, 200, 100, and 10 samples/second/channel.

The scanner communicates with a host PC running over an IEEE-802.3u 100Base-TX or an IEEE-802.3 10Base-T Ethernet network, allowing multiple scanners to be distributed around large test articles.

About Micro-Measurements®

Micro-Measurements®, a Vishay Precision Group, Inc. (VPG) brand, is dedicated to the development, manufacture, and marketing of resistive-foil sensors for high-precision strain measurement. Micro-Measurements® offers a full complement of strain gauges, PhotoStress® equipment and coatings, data acquisition systems, and supplies necessary to obtain accurate, reliable stress data. Our products are used throughout the industrialized world — both in the practice of stress measurements analysis and as the sensing elements in a wide variety of transducers for measuring physical variables (weight, force, torque, pressure, etc.).


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Micro-Measurements® Releases New CEA-Series Strain Gauges

The 062UB, 125UB and 250UB patterns are designed with both solder tabs placed on one side of the linear sensing grid, which allows these foil strain sensors to be properly oriented on the composite specimen, keeping the sensing grid centered in the test zone.

Successful Integration of Advanced Sensors Technology into Strain Gauge Products

Advanced Sensors Technology applies tangible specification and manufacturing process improvements, along with industry-exclusive strain gauge sensor design techniques, for direct customer benefit.

System 8000 StrainSmart® Data Acquisition System

System 8000 from Micro-Measurements is a versatile, precision data acquisition instrument system intended for static and dynamic test and measurement applications.

Supports: Strain gauge (quarter-, half-, and full-bridges), Strain-gauge-based transducer, High-level voltage signal, Thermocouples.
EXPO-NET Danmark A/S is a leading European polymeric net manufacturer

We partner leading composite manufacturers around the world.

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For more information visit our web site www.expo-net.com

EXPO-NET Danmark A/S – Celebrates its Diamond Jubilee – 60 years in Manufacturing

2019 sees EXPO-NET celebrate 60 years in manufacturing. During this time, the business has grown, moved and evolved. The business originally based in Copenhagen moved to Jutland in the early seventies. It now employs over 90 people and operates more than 30 extrusion lines; the business is unrecognizable from our humble beginnings.

The extrusion lines, tertiary equipment and automated warehousing techniques employ 21st century technology, but the biggest change is in our motivators and relationships. No longer do we produce a range of products to supply a range of markets. Now our influencers are all external. Our customers are the reason we have evolved into the dynamic, lean organisation we are today. Our customers need futuristic products offering cost effective, efficient, environmentally friendly solutions.

Each of our customers has their own objectives, but we all have the same goals – to develop, to exceed expectations, to continuously improve and to lead the markets we service. Never loosing site of the need to protect the environment, working with integrity and shared values.

So in December the whole organisation will celebrate together and we will toast the people who have made our business what it is today – our customers.
Cygnet Texkimp is an international market-leader in the manufacture and export of fibre handling and converting machinery. Our technologies are used to process advanced materials for the global aerospace, automotive, wind energy, sporting goods and industrial markets.

Our portfolio of innovative and award-winning machines includes creels, prepreg, coating, lamination and consolidation processing lines, tape-slitting and spooling, and filament-winding equipment, alongside state-of-the-art fibre handling and robotics systems.

Around the world, we are widely recognised as the leading supplier of carbon fibre prepreg lines to the aerospace sector and the largest manufacturer of creel technologies to the international technical textiles market.

Four decades of fibre handling expertise
Our story began in 1974 when Cygnet Texkimp was founded by British textile engineer Colin Smith to manufacture creel technologies for the traditional textile market. Our move into technical fibres came in the late 1970s when the company was commissioned to create some of the first ever carbon fibre creels for the military aerospace sector.

Today, our global business is still headquartered in the UK with the capacity to deliver a full design, manufacture, installation and after-sales service to customers anywhere in the world.

All about the fibre
In the last four decades we have continually driven innovation in fibre handling and converting, developing the knowledge and machine capability that have made us a technical authority in our field.

In every piece of technology we design and build, our ultimate focus is always fibre integrity. We know the key to manufacturing the most valuable and useful performance materials lies in the quality of the fibre and the ingenuity of the handling technology used to create them.

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All about the fibre
Chem-Trend offers a broad product range for your efficient composite molding operations. Chemlease® and Zyvax™ release systems consisting of mould cleaners, mould primers, mould sealers and release agents are available under one roof to create a powerful system to simplify your applications and cover your production challenges – for an easy release and perfect surfaces.

Let us help you maximise your composites manufacturing potential.
Specialized release agents, mould cleaners, sealers and primers for the needs of high-quality composites manufacture

The replacement of metal parts by composite materials in the areas of automotive engineering and aerospace allows for the construction of lightweight, energy efficient vehicles, offering high fatigue and corrosion resistance. With growing demands and increasing part sizes, manufacturers seek to reduce costs, minimize scrap rates and improve their overall production processes while reducing environmental impact and supporting compliance with VOC regulations.

Chemlease® solutions for high-volume production in the automotive sector

Lightweight design is becoming more of a focus in automotive construction; as a result, composites and carbon fiber reinforced plastics (CFRP) have been more commonly used in high performance cars in recent years. Specialists that offer a complete portfolio of dedicated products for the respective production process can give automotive components manufacturers a boost. As an industry leader, Chem-Trend offers both solvent- and water-based complete release agent systems for RTM and press moulding processes, comprised of mould primers, sealers, internal and external release agents, and ancillary products like mould cleaners. Performance products such as these enable high-volume automotive composite manufacturers to keep their moulds in production, generating high-quality parts critical to the long runs needed to meet demand.

Zyvax® release systems for composite materials for structural components and interior trim for aerospace industry

Chem-Trend supplies release systems for composite materials that are used to manufacture components for interior trims as well as structural components such as vertical fins. Because the number of manufactured components made from composite materials is constantly increasing, efficient production is becoming more and more important in aircraft construction. Zyvax® mould release systems from Chem-Trend are developed specifically to address the molding needs of premium aerospace composites materials.

Zyvax® TakeOff™ is a newly developed water-based, semi-permanent release agent (IPS 12-02-002-03) specifically formulated for aerospace manufacturers and is especially effective for vacuum bagged and autoclave molding of epoxy carbon fiber prepreg. This water-based release agent does not require a sealer in most cases when used on high-quality mold surfaces in aerospace and other epoxy prepreg applications.

A distinct advantage of TakeOff™ is its ability to be applied to moulds at varying temperatures, thus reducing the required downtime to allow the mold to cool, as is sometimes needed when using solvent-based release agents. TakeOff™ needs only a minimal number of coats to become effective, with short dry times between applications. It also provides multiple release capability, potentially contributing to improved productivity in the manufacturing process.

Zyvax® TakeOff™ is ideal for aircraft application because it is specifically formulated to work on extremely large epoxy moulded parts and uses an environmentally conscious water-based carrier. Additionally, there is very low transfer of the release agent to the moulded part. That can significantly reduce any cleaning process that might be required prior to a post-molding procedure, such as painting and gluing. This saves material, time and money for manufacturers.

TakeOff™ is virtually solvent-free, exceeds the most demanding environmental requirements and provides employees a more pleasant plant environment.

Chem-Trend continues to gather momentum with aerospace certificate

In 2018, Chem-Trend has been certified by the DQS (German Certification Company for Management Systems) in accordance with EN 9100:2016. In doing so, the company has fulfilled the strict quality requirements for aeronautics suppliers.

Complying with the highest quality standards has always been obligatory in the aeronautical industry. And as an innovative provider of release systems for composite materials, the company wants to aim high, together with their customers. The certification by DQS confirms that Chem-Trend is fully compliant with even stricter requirements.

For the EN 9100:2016 certification, the company demonstrated management processes that adhere to stringent requirements, such as strengthened process orientation and comprehensive documentation. The new certification supersedes Chem-Trend’s previous ISO 9001:2008 certification and replaces it with the new ISO 9001:2015 certification.

In the development and manufacture of new composite components, consulting with an industry specialist like Chem-Trend for processing aids can help increase production efficiency, reduce scrap and lower overall costs.

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Biesse Group SpA, headquarted in Pesaro - Italy, are one of the largest global manufacturers of CNC machining centres.

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- Composites
- Plastics

Biesse Group has over 30 subsidiaries around the world including Biesse Group UK, based in Daventry Northamptonshire, which is home to over 100 members of staff covering sales, service and spare parts, ensuring Biesse customers receive a world-class service.

Machining of composites, trimming of vacuum formed parts and production of complex tooling in wood and epoxy are just some of the activities undertaken on the MATERIA CL by our ever-growing network of customers worldwide. The MATERIA LD and FC machines offer unprecedented strength and precision for customers looking to machine more sophisticated materials such as light alloys. These cost effective machines are built to customer specification to suit their intended application.

Completing the range, is Terma, the Biesse thermoformer conceived by Fraccaro. Terma is designed for the thermoforming of plastic materials through the use of a mould and vacuum. With this technology it is possible to process different materials, thicknesses, and finishes, to cater to any market application.

At the Biesse UK HQ there are facilities to demonstrate this technology and conduct trials and samples of customer materials. This enables both parties to fully understand the behaviour of the materials and tooling to help correctly specify the machine suitable for the application.

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Farécla Products Ltd is a UK based, world-class manufacturer and supplier of ‘Surface Finishing Solutions’ across the Automotive, Marine, Industrial, Aviation, Aerospace, Composites, Wood, Solid Surfaces & OEM sectors.

An R&D breakthrough at Farécla led to the development of unique modified raw materials and engineered abrasives which are at the heart of Farécla’s latest game changing polishing compounds; included in the PROFILE Specialist Applications range for use across a wide variety of surfaces, from tooling and production gelcoats, to acrylic and polyester, painted surfaces and lacquered wood.

The newest addition to the PROFILE product range: PROFILE Advanced PLUS Liquid Compound is ideal for OEM clearcoats and industrial painted surfaces – offering cost savings on the finer grades of sanding papers and achieving faster results.

In late 2018 Farécla joined the Saint-Gobain group, further strengthening Farécla’s global position, selling high quality proprietary compounds and ancillaries to over 120 countries.

International Business Development Director, Christine Foster commented: “The enhanced performance that results from the new abrasive technology has already seen major market share gains for PROFILE in North America. We are now turning our attention to Europe and the UK market, and are confident of similar customer reactions to the range here.”

Farécla will be attending Advanced Engineering 2019 (Stand O20) with a unique display of exhibits that have been polished with Farécla products. The stand will also feature the winning bonnet from their 2019 Apprentice & Student Bonnet Painting Competition, celebrating young talent within the industry.

With a comprehensive range of compounds designed to offer significant time savings and lower production costs, a global user base, over 60 years of experience and continued investment into R&D – Farécla remain the go to source for surface finishing solutions.

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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/membership

FLUENCY MARKETING

Recently announced as Composite UK’s marketing partner, Fluency Marketing is a full-service marketing and communications specialist focusing on the Composites and Advanced Materials Sectors.

With a wealth of expertise and experience within the industry, we have access to a huge network of customers, partners, investors and influencers. We are passionate about the industry we serve, helping our customers to build their brands and expand their markets, increase their sales and extend their network. We provide a range of specialist services, specifically tailored to our chosen market including event and conference management, PR and news, marketing strategy and implementation and creative design across all media.

Our unique approach and commitment to the success of our customers has seen us achieve significant growth and we are currently seeking new premises to accommodate new members of the Fluency team.

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For more information, go to www.compositesuk.co.uk
Designed, manufactured and built in the UK, Minden Systems provides a one stop shop for your centralised dust extraction systems, mobiles, tools and accessories.

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Come and see us and our product on stand L110

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Engineered Composites is one of the UK’s leading independent supplier of GRP Pultruded Structural Profiles, such as tubes, box and channel sections and GRP Handrails, GRP Fencing, Moulded Grating and GRP Rebar.

Engineered Composites is one of the UK's leading independent supplier of GRP Pultruded Structural Profiles, such as tubes, box and channel sections and GRP Handrails, GRP Fencing, Moulded Grating and GRP Rebar. Through our trusted global manufacturing network, we leverage best price solutions without compromising on quality. All products supplied by Engineered Composites are manufactured to our specified formulation to ensure the consistency and longevity of each component and are produced in accordance with stringent ISO 9001 quality standards. We offer an efficient, fast and friendly service with a one hour turnaround on quotations and next day delivery and also offer a free cutting service for most items.

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TAKE YOUR PERFORMANCE TO THE NEXT LEVEL
GAZECHIM COMPOSITES UK, official distributor of Nouryon’s (formerly AkzoNobel Specialty Chemicals) thermoset products.

After several years of collaboration between Gazechim Composites and Nouryon the two entities have decided to strengthen their partnership in Europe. Gazechim Composites will distribute Nouryon’s complete portfolio of organic peroxides and auxiliaries for the thermoset business in United Kingdom & Ireland but also in France & Italy.

Besides working together in technical and safety support for customers, Gazechim and Nouryon experts will also jointly develop new projects and commercial opportunities. "Our partnership with Nouryon strengthens our European position in the thermoset market and opens up new opportunities," said Jean-Marc Libes, Business Manager.

Gazechim Composites

European distributor of composite materials, the Gazechim Composites Group has a network present in 17 countries in Europe. With a unique expertise in distribution of composite raw materials, it provides a full range of products for all markets: Composite, Advanced and Tooling.

Nouryon

Industries worldwide rely on our essential chemistry in the manufacture of everyday products such as paper, plastics, building materials, and personal care items. Building on the dedication of our employees and our shared commitment to safety, sustainability, and open innovation, we have established a world-class business and built strong partnerships with our customers. We operate in over 80 countries around the world and our portfolio of industry leading brands includes Eka, Dissolvine, Trigonox, and Berol. www.nouryon.com

Gazechim Composites UK Ltd is an established distributor of high quality composites products, with many years’ experience supplying satisfied customers in the UK and Ireland. We have centralised offices and warehouses in locations across the UK to provide a comprehensive coverage of service and supply.

Our unrivalled technical and sales team, with over 150 years of combined composite experience, is at your service whether you are an existing customer or require assistance on a new project. The extensive technical knowledge enables us to provide pre-sales suggestions and advice on product choice as well as post-sales support, backed by our suppliers where necessary.

Our business reputation has been created by providing a professional, customer focused service, with a broad range of top quality products and brands. We will continue to develop our product portfolio in line with customers’ demands, technical advances in the industry and the changing economic climate. As we enter a period of trading, which undoubtedly will have significant headwinds, our aim is to provide reliability, consistency and security to enable our customer to plan for the future with confidence. We know that production down-time and delay can be a big concern to your business, which can impact both financially and in terms of loss of reputation. So, to help prevent this and protect your business, we warehouse products locally and manage stock levels with these issues in mind.

Gazechim Composites UK Ltd has a long-standing commitment to the philosophy of continuous improvement. We were ISO 9001:2008 accredited from 2012 and successfully transitioned to the updated ISO 9001:2015 standard last year. This ongoing commitment to quality and improvement is always targeted to bring the best value and consistent supply to our customers.

Contact us for a no commitment consultation and quotation for your composites needs, we look forward to the opportunity to work with you.

Gazechim Composites UK Ltd
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T: +44 (0)1235 432610
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Sharp & Tappin's COMPCUT advanced composite plate saws continue to gain an enviable reputation within the materials testing community for consistently offering quicker, better and safer composite cutting to the highest technical specifications.

With the introduction of the ‘entry level’ Compcut 200, Sharp & Tappin have created a market for a compact yet technically sophisticated plate saw – offering Test Centres & R & D departments access to very affordable small form sample cutting technology.

The Compcut 200 effectively complements both the high volume Compcut 500 and larger capacity Compcut 1000 to offer a comprehensive range of intuitive cutting solutions.

This range will be further enhanced this year with the introduction of their new Compcut Precision Router with its ability to cut ‘dog bone’ specimens and other complex geometries from a wide range of composites.

Success has been hard won and reflects the company’s structured approach to product development – an integrated process that combines Sharp & Tappin’s proven technical innovation with closely developed, friendly working relationships with customers and test centres – sharing knowledge and experience to ensure that the Compcut range will continue to meet current and future industry demands.

Ever aware of the complexity of composite testing, Sharp & Tappin are deliberately setting out to achieve recognition for their ability to continually meet the challenge of cutting and handling new advanced composite materials. Recently the company have been working closely with the prestigious National Composites Centre in Bristol to successfully run cutting trials on Ceramic Matrix Composites (CMC). The results have underpinned the Compcut Range’s ability to produce consistently precise, high quality specimens from an ever-widening range of composites.

Building on a very loyal client base throughout the UK, Sharp & Tappin also have their sights set on developing their presence in Europe & beyond and will be regularly attending major conferences and exhibitions and building relationships with respected test centres throughout Europe.

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CUTTING IT FINE?
A promise not an excuse!

Advanced Composite Machining
Fast, accurate, efficient, consistent & safe

THE COMPUCUT RANGE OF ADVANCED COMPOSITE PLATE SAWS & ROUTER
INTUITIVE CUTTING

SHARP & TAPPIN
GREAT BRITISH ENGINEERING

POWERED BY SHARP & TAPPIN

compcutacm.com
Frewer Engineering provides creative and innovative engineering solutions through advanced integrated design and analysis services to a wide-ranging customer base in the Aerospace, Marine, Defence, Energy and Automotive sectors. Services include developing designs from initial concepts and ideas through to fully optimised solutions through the use of advanced materials, including high grade alloys and composites.

Applying state-of-the-art, fully integrated 3D CAD Design, Finite Element Analysis and Computational Fluid Dynamics tools to complex structures and assemblies is core to Frewer Engineering’s approach. This along with the company’s ability to take on complex projects with an agile, multi-disciplined engineering team, means we can provide a bespoke turnkey service with fast and reliable results.

A key ingredient to Frewer Engineering’s success is that we offer a close-working, inter-connected team of professional engineers with diverse skill sets - capitalising on the benefits of the company size to give a committed personal service. The ability to remain flexible and agile as an organisation, combing the skills of everyone in the team, provides enormous benefit to our customers in terms of value for money and response time.

Frewer Engineering provides an interlinked design and analysis service to the most technically demanding industries. Our design engineers have expertise in conceptual design, sketching, complex 3D CAD surfacing, geometric modelling and engineering drawing production for manufacture. Our highly qualified FEA and CFD analysts perform conceptual assessments to aid in design selection, followed by detailed analysis of final design to ensure integrity. Furthermore, we provide the option of standalone design or analysis services if required.

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LEADING SUPPLIERS OF CHOICE FOR ADVANCED DESIGN AND ANALYSIS SOLUTIONS
Complex Design Solutions without the Complications

AGILE | INNOVATIVE | COMMITTED

“Frewer Engineering has provided an expert design and analysis service to Jacobs UK on recent projects and we have found them to be an entirely capable and professional partner.”
- Jacobs UK
PRO-SET® epoxy products are used for building high-performance, lightweight composite structures that can withstand the harshest environments. From automotive parts to wind turbine blades to hi-tech hulls, PRO-SET epoxy can enhance the strength and durability of practically any composite component.

PRO-SET Laminating Epoxy is formulated for use in wet lay-up processing, utilising woven and multi-axial glass, aramid, carbon fibre and hybrid fabrics, PRO-SET Infusion Epoxy combinations have been formulated specifically for infusion. This specialist range of epoxies also includes high strength assembly adhesives, fairing compounds accessories and high temperature tooling products.

The results speak for themselves; PRO-SET epoxy is infused into the hulls of Black Marlin, a high-performance trimaran, which uses carbon fibre composites to create a light rig and interior. Spirit Yachts use PRO-SET epoxy in the stunning Spirit 52D racing yacht. PRO-SET epoxy laminated Maguire Exocets placed in the top 17 positions in the 2018 Moth World Championships. With the 2019 worlds, coming up in December (Perth Australia), Maguire is expecting more wins. PRO-SET epoxy is also used in the manufacture of Bernico’s durable, lightweight powerboats designed for offshore racing. Using PRO-SET products means there’s little compromise between strength and weight.

If standard formulations of PRO-SET epoxy do not match a customer’s requirements, the team at Wessex Resins & Adhesives create custom formulated epoxy systems to match requirements exactly. It’s worth a conversation to develop your customised PRO-SET epoxy system.

Wessex Resins & Adhesives are exhibiting at the Advanced Engineering Show, NEC, 30/31 October. Visit M18 to start your PRO-SET conversation.

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Exocet Moth by Maguire Boats built using PRO-SET | Image courtesy of Martina Orsini

For more information, go to www.compositesuk.co.uk
Driving lightweighting innovation – We are Far

Far Composites offers innovative solutions in the design and manufacture of lightweight carbon fibre components - developing processes, products and facilities for new and existing suppliers within the composites industry.

The dynamic team at Far brings knowledge from the automotive, aerospace, mass transit and energy sectors to maximise the value of cost-effective lightweighting in manufacturing.

We specialise in structural components, with particular expertise in crash proof and multi-material chassis parts - developing, designing and producing our own carbon fibre solutions or working with existing Original Equipment Manufacturers (OEMs) to bring new composite components into production and overcome barriers to market entry.

Our extensive experience in material technology and design for high-volume manufacture are underpinned by technical expertise and capability in Finite Element Analysis (FEA) - simulating composite materials at micro, meso and macro-scale.

We can manufacture one-off proof of concept demonstrators or pre-production prototypes to validate the feasibility of new ideas within short-time scales and take lightweighting innovations to the next stage.

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W: www.far-uk.com

We are Far

Innovators in the design and manufacture of lightweight structural composite components

Extensive industry expertise in engineering, manufacturing and materials.

- Low carbon vehicle and energy engineering
- Future manufacturing capabilities and solutions
- Design, prototyping and development
- FEA including crash analysis
- Testing and evaluation
- Training and consultancy

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Barrett Aerospace excels in the prototyping of new composite systems and entire vehicles. We are a data orientated company that utilises simulation and computational analysis to quickly design, test and manufacture primary and secondary composite structures. These structures can be fully composite, hybrid and/or highly integrated.

Our sectors are Aerospace, Motorsport, Automotive and Sports & Leisure. Our experience is uniquely broad, based on the success of multiple and global projects.

We participate in academic research and our colleagues have published a handful of composite textbooks. We work scientifically with chemical & weaving specialists allowing us to explore highly customise solutions.

We have experience in Electric Vehicle Design and System Integration. Our most recent success has been to design and prototype the all-Electric “ALICE” Aircraft Empennage.

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BARRETT AEROSPACE PTE Ltd

The Composite Specialists

Find out more www.BarrettAerospace.com
MSP specialise in world-class part manufacturing solutions and have over 17 years experience within the composite manufacturing industry. Their systems are used across the sector to aid the manufacture of various parts including Formula 1 chassis, nose cones and front wings, aerospace blades, wings, skins and interior components.

MSP's products are key for the finishing of composite parts on CNC machine tools. They compensate for distortion, eliminate the need for complex fixturing, assess a part’s condition of supply and perform iterative alignments for optimum accuracy.

MSP's products have been key for reducing lengthy setup times for a leading Formula 1 team. First, NC-Checker analysed the movement of the probe tip to ensure it was correctly calibrated and confirmed in three or five-axis. Errors at this stage could have affected how accurately the parts were machined. Following this, NC-PerfectPart measured the part to check its condition of supply. If there was too much distortion, or not enough material to create a ‘good part’, production could be stopped.

The F1 team’s main issue was their part alignment process which involved moving the part manually on the machine. MSP’s software automated the probing cycle and used the measurements to calculate what the part alignment should be. It automatically aligned the machine to the part, eliminating the need to move the part manually to correct its position. This reduced the team’s 10-hour setup time to just 38 minutes and removed errors due to discrepancy between the part location and machining program.

The team were also struggling to produce accurate countersinks. MSP’s automated solution was able to measure the surface and correct the tool length, allowing the machine to compensate for the distortion; enabling them to produce perfect countersinks repeatedly.

**Composite part setup in 38 minutes**

MSP understand the detrimental effects of distortion and manual methods in composite part production, especially when tolerances are tight.

MSP’s software automates the process and adjusts part setup for any positional error, form error or surface distortion by measuring the part on the machine and then automatically compensating for any misalignment.

This provides huge benefits for the composites industry and, in one case, reduced part setup time from 10 hours to just 38 minutes for a leading Formula 1 team.
Global manufacturer of adhesives, resins and gelcoats

Scott Bader has been pioneers in glass fibre composites since 1921 with our products earning a reputation for quality, reliability and innovation.

Today, we are an established global chemical company employing almost 700 people across 6 manufacturing sites in the UK, France, South Africa, UAE, Croatia and Canada as well as offices worldwide. Using our combined global resource and expertise we continue to be a leader in the manufacturing of products for the Composites, Advanced Composites, Adhesives and Specialty Polymers markets.

Our extensive range of technologies and manufacturing capabilities permits us to serve many market sectors including: automotive, building & construction, chemical containment, Fire, Smoke & Toxicity (FST), marine, transport and wind energy.

FORTHCOMING EVENTS

CTT Show, US – 10-11 September
Automechanika, South Africa – 18-20 September
CAMX, US - 24-27 September
Western Coatings Show, US – 21-23 October
IBEX, US – 1-3 October
Advanced Engineering, UK – 30-31 October
Nantes Business Meetings, France – 13-14 November
JEC Asia, South Korea – 13-15 November

Purpose-built, state-of-the-art technical facilities provide R&D as well as complete evaluation, testing and application support. We are committed to ensuring quality and innovation through an ongoing investment in developing new and existing products to meet our customers’ specific needs.

This Autumn, we will be exhibiting at a number of industry events where our experts will be on hand to answer questions.

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A global manufacturer of adhesives, resins and gelcoats.
bigHead® expands its innovation team

bigHead® Bonding Fasteners continues its investment in innovation with the appointment of two more engineers.

Central to bigHead’s strategy is the long-term investment in engineering expertise and composites knowledge. Having received an outstanding report earlier this year from Innovate UK for a KTP with Cranfield University, bigHead has now built a team dedicated to meeting their customer’s most challenging problems. “When you have companies like GE or Faurecia knocking on your door for help with fastening their composites, I think we might be onto something!”, comments MD Matthew Stevens. “We believe in investing in UK innovation for the long term. Great solutions are not created overnight.”

Some of the innovations planned for launch in the next year include a new range of fasteners with application performance data, designed to remove a lot of the guesswork in fastener selection. Another solution is focussed on speeding up and automating the bonding process. A third is focussed on the integration of fasteners in the moulding process itself, saving time and improving repeatability.

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Permabond manufactures engineering adhesives providing bonding solutions throughout industries using composites for light weight product design.

Our range includes polyurethanes and single & two part epoxies for bonding carbon fibre, FRP/GRP & other composites as well as rapid curing, gap filling structural acrylcs with high temperature resistance.

NEW for 2019, Permabond is launching TA4207, a versatile, fast cure, structural acrylic adhesive which achieves high strength bonds with little or no surface preparation! Suitable for carbon fibre and other composites as well as metals and plastics, TA4207 also achieves impressive shear strengths on metals, cutting through oxide layers to form strong bonds with the parent material beneath and even performs well on unprepared oily steel!
Developing software tools almost exclusively for the Engineering sector, with a focus on composite material structural applications, Anaglyph delivers truly quality products for analysis design and manufacturing.

Following successful business partnerships with the Centre for Composite Materials at Imperial College, the National Physical Laboratory (NPL), and various major software groups we have established our position in the composites field.

**Flexibility with stand-alone products**

All our products are stand-alone and interface with most industry standards, allowing a flexible workflow. In addition to our standard software products, we developed a revolutionary visual aid for composite manufacturing, combining software and hardware. PlyMatch provides the workshop operator with a tool for the accurate placement of plies for the manufacturing, repair or quality control of composite structures.

Our products have been widely adopted in the aerospace, motorsport, marine, energy, sports and other high-technology industries.

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**MTAG COMPOSITES**

Growing rapidly, MTAG has become a leading composite manufacturer in the UK having developed a complete in-house production system with the capability to develop and manufacture moulds, fabricate components in FRP using a variety of resins and painted parts to all specifications.

We manage a large portfolio of manufacturing for rail, aerospace and leisure sectors producing train interiors, aircraft seating and pleasure craft. Specialising in vacuum-assisted injection RTM, vacuum-infusion RTM, hand-lay, closed moulding and silicon vacuum bagging, we offer rapid tooling and short-run capabilities alongside manufacturing high volume parts.

Using CNC patternmaking, 3D scanning and robotic machining, MTAG delivers parts to market on reduced lead times and maintain high standards with skilled operators focussing on delivering quality products to customers. This ethos has driven successful projects with ACR, Hitachi, Bombardier, and MRSS, and long-term production of seating for Jet-2, Air New Zealand and Etihad Airways to name but a few.

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MSA MANUFACTURING

Making material outsourcing simpler and easier

- Core machining & kitting
- Reinforcement fabric/Prepreg, Adhesive film, Peel-ply, Surface veil cutting & kitting
- Multilayer bonded dry fabric slitting & 2D Preforming
- 3 & 5 axis CNC Machining/Waterjet cutting parts from sheet & plate
- Digital Engineering, 3D Scanning & Prototyping

www.msamfg.co.uk

Specialists in machining, cutting & kitting of composite core & reinforcement materials

Ferndown Industrial Estate, Wimborne, Dorset, UK. +44 1202 850440

MSA Manufacturing Ltd. (MSA) is an independent UK supplier, specialising in the machining, slitting, cutting and kitting of materials for the composites industry and has been a Composite UK member since 2011.

Hassle Free Materials & Kitting Outsourcing: From over 45,000 sq ft in Wimborne, Dorset, MSA’s three factories provide a wide range of services to OEM and Tier 1 composite part manufacturers looking to outsource some or all of their material and kitting requirements. The MSA team looks at clever ways to save customers time and money. Being independent, MSA provides complete supply chain flexibility, using either free issue materials or approved material suppliers.

Markets Served: MSA primarily supplies the wind energy, marine, defence, transportation, sport and industrial markets. Cut parts and kits are supplied for moulding composite components ranging from small, complex parts to large structures, such as yacht hulls, decks and wind turbine blades.

Production Capabilities: CNC cut-to-shape, cut-to-length and slitting of reinforcement fabrics/prepregs up to 2600mm wide; multilayer fabric bonding and 2D preforming; 3 & 5 axis CNC routing, milling, vertical wire cutting and kitting of cores up to 2450mm x 1225mm x 1200mm; waterjet cutting of cores, fibreglass laminate, E-glass, carbon fibre, engineering plastic and ballistic grade sheet/plate materials up to 100mm x 3000mm x 2000mm.

Added Value Services: Digital engineering services include: kit designing from CAD and templates; surface flattening; 3D scanning and 2D digitising. MSA also does reverse engineering and prototyping, optimising material processes and developing sub-assemblies.

Quality Systems: LROA ISO 9001, ISO 14001 and JOSCAR Stage 2 accredited, providing full traceability of materials and parts. MSA is also able to offer PPAP, covering engineering and manufacturing.

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<td>30A Barrington Rd</td>
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<td><strong>Kadant UK Ltd</strong></td>
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<td><strong>Kraibon &amp; Wickert</strong></td>
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<td>6 Orchard Court</td>
<td>Birley Business Park</td>
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<td>Unit B, 33 Pony Road</td>
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<td><strong>Mouldbox</strong></td>
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<td><strong>Moulds, Patterns and Models Ltd</strong></td>
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<td>Maroishi Manor Barns</td>
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<td>Saxon House, Shillrew Crescent</td>
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