Membership Directory

Academics
Consultants
Designers
Engineers
Equipment Suppliers
Manufacturers
Material Suppliers
OEMs and Tier 1s
Service Providers

www.compositesuk.co.uk

Photos courtesy of Design and Display Structures Ltd (top left), BAMD Ltd (bottom left), Composite Integration (middle), Colorplas (top right), ELG Carbon Fibre (bottom right)

Member listings correct up to 10th August 2018
Over the past decade, Composites UK has seen its membership double every five years, with the numbers now over 350 and continuing to grow. This increase is driven by the exciting opportunities and challenges faced by a growing international and national composites sector, and the need for support to take advantage of this growth. Throughout this growth Composites UK is continually listening to its members and working with relevant organisations to grow and reorganise itself to deliver the support required. As part of this support, and voted for by members, we joined EuCIA (the European Composites Industry Association) earlier this year. This will give us a much stronger voice with the European Commission on legislation and standards, both pre- and post-Brexit. It will also enable us to be more involved in collaborative work on sustainability and standards development.

We are placing greater emphasis on sustainability at Board level, building on the work done by our thriving Sustainability Working Group; an area that affects all of our membership from the smallest member companies to our largest organisations. To further our scope, we will also look to support and develop ceramic and metal matrix composites.

Through our work with the Composites Leadership Forum (CLF), the High Value Manufacturing Catapult centres and our links with Government departments; we are able to ensure that our members stay abreast of the latest developments and funding opportunities to enable them to plan for growth. Over the last 12 months we have been working with the CLF and UK government to map and define the UK composites capability and future growth potential – all of which will be vital to ensure that the UK remains globally competitive. The development of The Hub – our UK composites capabilities database - was a critical step in achieving this. An online search tool, The Hub holds details of over 1,400 companies involved in the composites sector and gives easy access to the UK composites industry.

The UK composite supply chain needs to grow from its world-class, but low-volume production capability as an emergent technology, to become an extensive supply chain with high productivity manufacturing delivering higher volume composite parts across multiple sectors in the UK and export markets, as other countries are already doing.

These opportunities will be the focus of our forum sessions at the Composites Engineering Show, 31 Oct - 01 Nov 2018, Birmingham NEC, where major players, OEMs and Tier 1s will be talking about the challenges they face and where composites can fit into their future plans - make sure you’re there to hear what they have to say. Alongside the show is the annual Industry Awards Dinner – an opportunity to showcase and celebrate what’s great here in the UK in style, sharing stories of success across the sector. Details on this are available via the Composites UK website.

There is a lot more going on within the Association with a new three-year H&S action plan launched at the annual conference in April; this will deliver the targets set out in the new 2018-21 HSE SIMPLC strategy (Safety in Manufacturing of Plastics and Composites). There are some interesting and exciting times ahead – keep an eye on our website and member bulletins for updates on activities, opportunities and critical industry information.

Your views or thoughts on the support offered by Composites UK help us to evolve and deliver appropriately. Come and talk to us on our stand at Composites Engineering (stand L100) email us at info@compositesuk.co.uk or give us a call on +44(0)1442 817502.

Chris Taylor, Chairman of Composites UK
New Wet Laminating System: Putting Workers’ Health and Safety First

Safeguarding workers’ health and safety requires a comprehensive approach and spans from training and education, working environment and protective equipment, to effective control mechanisms.

To support this, Gurit has launched Ampreg™ 30, a new low toxicity epoxy laminating system for the manufacture of large composite structures in the marine, wind and construction industries. The laminating system has been reformulated to prioritise user health and safety of hand lay-up and vacuum bagging production techniques through the careful selection of chemicals.

Ampreg™ 30 features a robust resin matrix resulting in excellent mechanical and thermal properties of laminates produced at ambient temperature cures as well as moderate temperature post-curing processes. The laminating system is available with a range of hardener speeds from fast to extra slow, all applying the same simple mix ratio and the ability to blend hardeners to achieve a range of intermediate working times.

Ampreg™ 30 is also available as LRT (Light Reflective Technology) version. This soon-to-be-standard addition to the resin matrix causes the resin or mixed system to fluoresce under UV light without changing the mixing and handling properties of the laminating system or cured resin performance. LRT enables easy inspection of surfaces, equipment, clothing and skin. Resin contamination can be easily detected, ensuring minimum exposure for workers and helping to avoid transfer of resin outside the workshop. Suitable UV-A or UV-B inspection lamps for use with LRT are widely available and help establish a reliable control routine after each working period.

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GURIT® AMPREG™ 30 LOW TOXICITY LAMINATING SYSTEM WITH LIGHT REFLECTIVE TECHNOLOGY

GURIT® AMPREG™ 30:
A NEW STANDARD FOR HEALTH AND SAFETY

- New low toxicity epoxy laminating system
- Optimised for the manufacture of large composite structures
- Improved health and safety through the careful selection of chemicals
- Now available globally in a wide range of pack sizes from small packs to drums and IBC containers

GURIT® AMPREG™ 30 LRT:
SAFEGUARDING WORKERS’ HEALTH

- Easy inspection of contamination by means of UV light
- Soon-to-be standard addition to the resin matrix
- Pro-active reduction of workers’ exposure to chemicals
- Higher protection without changing mixing and handling properties or resin performance

Learn more at: www.gurit.com

For more information, go to www.compositesuk.co.uk
Attwater continues to innovate after 150 years

Attwater, the industrial laminates specialist, is celebrating its 150th anniversary in 2018. But while the Company is taking time to mark the milestone century-and-a-half since it began trading as a ship’s chandler in its home city of Preston, it is dedicated to looking to the future.

Attwater can proudly look back on work with the Titanic, Team GB dinghies that have won a number of Olympic gold medals, and innovations to keep the Royal National Lifeboat Institution saving lives around the shores of Great Britain, yet boss Richard Attwater is more excited about what lies ahead.

For example, in 2018, Attwater invested more than £100,000 in two new CNC machines. The purchase includes two TM-3P vertical machining centres from Haas, which are more efficient, more environmentally friendly replacements for its existing equipment. Such investment has generated success across a range of industries, with Attwater producing machined components for aerospace, automotive, rail and power generation sectors as well as its traditional marine work.

Achievements across these fields include independently verified certification at the highest level. Every year for more than a decade, the Company has earned MOD AQAP4, and ISO9001:2008 quality management certifications, showcasing an unrivalled commitment to quality. And most recently, Attwater earned AS9100 Rev D, a new quality mark only given to the very best of the aerospace industry’s supply chain.

The AS9100 certification is the aerospace sector’s equivalent to the ISO9001 quality mark, and reinforces Attwater’s position as a leader in industrial laminates.
GOING BEYOND
INDUSTRY STANDARDS

Industial laminates
Carbon and Glass Fibre Tubes
Precision Machining

Attwater Group

attwater.com
PRO-SET® composite 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.

Designed for use in wet lay-up procedures involving woven and multi-axial glass, aramid, carbon fibre and hybrid fabrics, PRO-SET resin/hardener combinations have been formulated specifically for laminating, infusion, tooling and assembly.

The specialist range of sophisticated epoxies spans everything from infusion epoxies and wet lay-up systems to adhesives, accessories and fairing compounds.

The results speak for themselves; PRO-SET epoxy is infused into the hulls of Black Marlin, a high-performance trimaran, which also uses composites to create a light rig and interior. Spirit Yachts uses PRO-SET epoxy in the stunning Spirit 52D racing yacht. While PRO-SET epoxy laminated Maguire Exocets took all 17 top positions in the last Moth World Championships. 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 doesn’t need to be a 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 with the team to develop your customised PRO-SET epoxy system.

Wessex Resins & Adhesives Limited
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W: www.pro-set.co.uk
Central vacuum supply for economical rotor blade production

Energy savings and reductions in noise and heat emissions can be achieved by using a centralized vacuum system.

Groß-Rotorblattfertigung GmbH produces different types of rotor blades with lengths currently up to 45 metres in three-shift operation. The individual components are produced using a vacuum infusion process and assembled afterwards. Different layers of glass fibres and other materials are manually inserted in a sandwich construction. These are covered with a plastic foil that is applied in a way that creates an air-tight seal along the edges of the form. Afterwards, vacuum is applied to remove/extract the air between the form and the plastic foils. After testing for leaks, resin infusion into the component begins. Due to the vacuum, the resin flows into all areas and spaces in the component and thus completely saturates it.

Busch Vacuum Pumps and Systems designed a vacuum supply system consisting of individual dry, oil-free COBRA NX screw vacuum pump vacuum modules. This system was constructed in such a way that its dimensions fit into an already existing separate engineering room. Because of this, there are no adverse effects whatsoever in the workplace due to noise or heat emissions.

The vacuum system from Busch has been in operation since November 2016 and Groß-Rotorblattfertigung are very satisfied because all requirements for the new vacuum supply have been completely fulfilled. At least 50 percent energy savings were possible with the new vacuum system. This becomes apparent simply when one considers the total number of 36 rotary vane vacuum pumps that were previously in operation, as opposed to the six COBRA NX screw vacuum pumps in the new system.

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Efficiency Driven by Vacuum

From the manufacture of ultralight composite material parts to simple machine parts cleaning, or acceleration through flywheel energy – vacuum is a key component in many areas of automotive production.

Rely on the trusted name for vacuum. Chose vacuum technology from Busch.

Busch (UK) Ltd.
+44 (0)1952 677432 | sales@busch.co.uk
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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.

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 high-quality composites manufacture.

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 high-quality composite 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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For more information, go to www.compositesuk.co.uk
Chem-Trend offers a broad product range for your efficient composite moulding 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.
Biesse Group SpA, headquartered in Pesaro - Italy, are one of the largest global manufacturers of CNC machining centres.

The comprehensive range of machines include:
- 5 axis machining centres
- 3 axis routing systems
- Thermoforming systems

Providing solutions for the following industries:
- 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.

The MATERIA range of machines includes 5 axis machining centres with Z axis stroke from 900mm to 2500mm with bed sizes from 1500 x 3000, to mega size machines utilising the modular assembly system. This enables Biesse to manufacture CNC machining centres up to 30m in length (X) and over 5m in width (Y).

Of particular interest to the UK market is the MATERIA CL, which has been designed to offer class leading rigidity and ease of use. The adoption of lean manufacturing methods ensure that delivery times to the UK are as short as possible. This reduction in delivery times has been achieved by standardising the frame structure and adapting production to enable customers to specify machines to suit their needs from carefully considered options. All machines feature open NC control allowing customers to integrate the machine into their current production environment. NC control can be specified from either OSAI, Siemens or Heidenhain.
TECHNOLOGY FOR CREATIVITY.

The new Materia range of CNC processing centres, designed to meet a wide variety of machining needs in relation to milling of advanced and composite materials, 3D models and tooling and machining of thermoformed components.

BIESSE UK
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+44 (0)1327 300366
EXPO-NET Danmark A/S are pleased to announce completion of the latest stage in our business expansion programme. The new 2000 m² warehouse is now fully operational. Adding the new warehouse has released extra production space enabling us to incorporate 5 new extrusion lines. Our new lines not only increase our production capacity, but also expand our manufacturing capabilities. One of our new initiatives is a focus on producing wider, finer nets, which have enhanced stability and tighter tolerances. This allows us to support our customers in their business challenges, often increasing efficiency within their fields of expertise. Our extruded polymeric net manufacturing and head office is based in Northern Denmark, with sales operations strategically placed around the world to support our ever growing customer base.

We partner leading manufacturers around Europe. EXPO-NET Danmark A/S has been supporting a broad spectrum of industries for over 50 years. Within the field of composites, our focus is completely on customer partnerships. We use our expertise and knowledge to develop bespoke netting solutions, for example our biplaner thermoplastic nets for vacuum assisted resin infusion and transfer, expertly designed, unify flow channels which increases both control and resin flow rates, significantly reducing manufacturing costs by optimising processes.

We will continue to expand our business to support your businesses whilst never losing sight of our company ethos of caring for our customers, our colleagues and the environment.

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EXPO-NET Danmark A/S is a leading European polymeric net manufacturer
We partner leading composite manufacturers around the world.
Supplying Biplaner thermoplastic nets for vacuum assisted resin infusion and transfer within the composites industry.
We supply bespoke nets, expertly designed to unify flow channels which increases both control and resin flow rates, significantly reducing manufacturing costs by optimising processes.

Lean Manufacturing supported by design excellence and innovation

For more information visit our web site www.expo-net.com
As a leading manufacturer and supplier of high performance products to the advanced composites industry for over 30 years, PRF Composite Materials has been at the forefront of innovation and product development. Offering one of the widest product ranges available – including prepreg, reinforcements, epoxy resin systems, release agents, kitting services and more - the team works with their customers to find the optimal engineering solution.

2018 has seen the completion of a significant phase of development for the company, with the team moving into a new purpose-built facility in June 2018. PRF now operates over three sites, with increased office space, warehousing and cold storage facilities. Extending its manufacturing capabilities, PRF has also completed the installation of a new, state-of-the-art prepreg line in Autumn 2018, supported by extended R&D facilities such as DMA testing. Product development remains a key objective, focussing on fire retardant systems, improved systems for x-ray applications, and an emphasis on helping customers reduce manufacturing time, and improve efficiency and cost-effectiveness.

Evolving together with the company, the PRF brand has been refreshed with a new logo and corporate image which reflect these exciting developments. As always, the team remain committed to PRF’s core values: offering high quality products, and a professional and responsive service with technical support. PRF is ISO 9001:2008 certified.

Contact PRF Composite Materials today to discuss your next project.
TenCate Advanced Composites, now part of the Toray Group, 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 prepregs
- 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 TenCate Cetex® thermoplastics and TenCate AmberTool® tooling prepregs. TenCate 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).

Our UK site, located in Langley Mill, Nottingham, is TenCate’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.

Our philosophy
Whether you’re a new TenCate 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.

Recent product introductions include TenCate 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 prepregs, our comprehensive AmberTool® series of epoxy tooling prepregs are the trusted benchmark in the composites industry, delivering an unmatched reputation for reliability while producing a professional cosmetic surface finish.

The TenCate 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 prepregs easily fabricate into complex tool shapes.

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Permabond is an engineering adhesives manufacturer providing bonding solutions throughout industries using composites for lightweight product design. Our composites adhesives range has evolved and adapted to the changing demands of the composites industry and includes:

- **Polyurethanes**: Ideal for bonding dissimilar materials, carbon fibre, black leather and rubber. High shear and peel strength, excellent impact resistance.

- **Two part epoxies**: Ideal for carbon fibre, FRP/GRP and other materials. Available in colours to match substrate materials, providing an aesthetically pleasing bond. Various cure speeds and strengths to suit applications and production processes.

- **Single part epoxies**: Thixotropic grades, ideal for vertical application.

- **Toughened acrylics**: Rapid cure, high strength, good gap fill capability and high temperature resistance.

- **Cyanoacrylates**: Instant adhesives including rubber toughened grades.

- **Modified epoxy hybrids**: Soft and flexible with high elongation, high peel strength, toughness and durability. Low shrinkage makes them ideal for bonding thin gauge composites or metal skins, affected by witness marks/print through with regular adhesives.

Permabond Engineering Adhesives Ltd
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UK Flowtechnik is an established distributor of specialist pumps, magnetic couplings, flowmeters and instrumentation designed to work with resins and composite materials. It offers pumping and metering solutions for a wide range of viscosity, pressure and accuracy requirements. Fitted to OEM machines or for use in production, its range of products are well established and specified widely in many diverse challenging applications.

Why they became Composite UK members
Thom Shannon, Business Development Manager at UK Flowtechnik said: “We became Composites UK members to provide industry synergy with our existing customers and product base, as well as the opportunity to broadcast our abilities through the Association and reach further potential customers. “We are looking forward to utilising our membership to assist equipment OEMs build quality machines by supplying high-end products technical know-how and support in their field.”

Idea partners or clients
“Our customer base is companies looking to monitor and deliver composite products in areas such as automotive, aerospace, subsea oil & gas, chemical Atex fuel oil and gases in industrial processes. They can look to UK Flowtechnik for specialist technical support in the many applications it has added value to over the years.”
Describing Devon based Company Sharp & Tappin Technologies, as ‘cutting edge’ is very appropriate given the growing reputation of their range of Compcut Composite Plate Saws.

A young (2003), innovative and dynamic enterprise, Sharp & Tappin has rapidly evolved into an extremely well respected engineering, electromechanical and software development company focussing on delivering hi-end technical solutions for a wide range of businesses.

If that wasn’t enough, the company has developed and manufactured their Compcut range of advanced composite saws, winning critical acclaim in a most demanding marketplace.

Their latest model – the Compcut 200 has been specifically designed to provide Composite R & D teams together with dedicated test centres access to a compact, highly affordable, sophisticated, robust but remarkably easy to use plate saw - ideally suited to the test lab environment.

Over the past 12 months, the Compact 200 has won admirers and satisfied customers across the composite testing sphere, including the prestigious Renault F1 Test facility at Enstone in Oxfordshire.

Maria Brooks, Renault Sports Racing Senior Materials Technician commented, “Our testing work has to be of the highest quality and standard which is exactly what the Compcut 200 delivers. Productivity has increased significantly as we can now set up and run multiple panels and specimen cuts automatically. The Compcut 200 consistently delivers high quality test specimens, with excellent edge finishes within tight tolerances.”

Sharp & Tappin have also installed and commissioned a Compcut 200 at SHD Composites in Sleaford Lincolnshire – leading specialists in Advanced Composite Prepreg Materials working at the leading edge of advanced composite technology.

Alix Sauget, SHD’S Research & Development Manager reflects on their initial experience, “Whilst initially running the Compcut 200 we quickly discovered the benefits of its enhanced production capabilities.

“In short, the unit has enabled us to quickly and consistently produce high quality test samples - all of which have an exceptional cut, perpendicularity and parallelism – allowing us now to be able to test our samples straight from the saw without any need to first deburr or polish - saving a significant amount of time and effort.”

Ben Sharp, Technical Director at Sharp & Tappin, sums up the Compcut 200 story so far, “We are delighted with the industry response to the Compcut 200. Composite testing is an exacting process demanding the very highest technical standards. “We thrive on developing imaginative engineering and technical solutions and the Compcut 200 represented the ideal challenge of taking a concept through to a satisfying outcome - in this case identifying a niche for an economically priced, compact yet technically advanced composite plate saw and turning those parameters into a viable product.

“Our aim was to create the opportunity for smaller and specialist test labs to be able to access compact, easy to use, high spec plate saw technology at an affordable price – something we feel we have achieved!"

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What do you think about when you have to think about composite cutting?

If you’re thinking ‘whatever works’ think again. Think consistency, think efficiency, think safety.

THINK COMPCUT. THE LEADING COMPOSITE CUTTING TECHNOLOGY IN THE REAL WORLD.
compcutacm.com

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Designed, manufactured and built in the UK, Minden Systems provides a one stop shop for your centralised dust extraction systems, mobiles, tools and accessories.

Built with over 30 years experience our custom built systems are powerful, reliable and easy to use. Our experience in the industry helps us to create dust extraction systems that work efficiently with minimal servicing and maintenance. We are dedicated to saving your business energy and costs through developing and installing high-quality efficient dust extraction systems.

Our services span the design of products and components, to manufacturing and installation, right through to servicing, advice and training. Our small team of nine employees is involved every step of the way, they have knowledge of every part of the service we provide. All of our staff are fully trained and qualified, we don’t use subcontractors.

Come and see us and our product on stand L110

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Dust Extraction Systems
keeping your work place clean...

For over 30 years Minden Systems have been manufacturing high quality, efficient on tool dust extraction systems. Each system is custom built to your requirements, helping you to increase production and reduce your operating costs.

Our services span the manufacturing and design of your system, right through to servicing, advice and training. Our team is involved every step of the way, ensuring you receive the best system and service to suit your requirements.

To find out more, visit our website or call us on the number below.

+44 (0) 1788 890571 | minden.co.uk
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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Patterns and Moulds Ltd, exhibiting at the NEC at Advanced Engineering 2018 Wednesday 31st & Thursday 1st November 2018, we offer both 3 and 5 axis CNC machining of master patterns and direct tooling on 5 large scale CNC machines with single machined part capacity up to 13 x 5 x 2.5 metres, on our CMS Poseidon 5 axis machining centre.

Full in-house Cad/Cam with Solidworks for design & FEA, Delcam Powermill & Mastercam for tool path creation along with verification software.

Offering one of the largest 5 axis CNC machines in the midlands, combining technically advanced machinery and software systems with time served skilled craftsmen ready and willing to take on any challenge and offering a tiered or complete end to end service.

Using varied materials from light weight foams through modelling and tooling boards to epoxy seamless modelling pastes for large scale master patterns and tools.

GRP and Composite production moulds 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.

Patterns & Moulds Ltd
Unit D2, Wymeswold Industrial Park, Wymeswold Lane, Burton On The Wolds, Leicestershire LE12 5TY
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VELOX UK showcases its range of Advanced Composite Materials

VELOX GmbH is a leading composites raw materials distributor in Europe with a composite division that offers the capabilities and geographical footprint to provide expert sales and applications support in sourcing and testing products and identifying new opportunities. Founded in 1993 by Bernard Goursaud and N. Max Schlenzig, VELOX is headquartered in Hamburg, Germany.

In addition to its traditional range, VELOX offers its new range of Advanced Composites Materials these include bespoke pre-preg systems, carbon dry reinforcement, Epoxy composite resins, closed mould reinforcements, structural adhesives and film adhesives. VELOX offers composite solutions for the automotive, aerospace, sports and leisure industries and for industrial applications. With our local warehousing solutions materials are in stock enabling short lead times.

VELOX core competences are its technical expertise and support on a European level, professional sampling service and a full portfolio of specialties for the advanced composite market.
Based in Huntingdon, Cambridgeshire, CP Composites operates from a 27,000 ft² facility equipped with high quality composite production equipment and is staffed by knowledgeable and experienced staff. Several key capital equipment investments have recently been made to increase capacity and offer a broader service to a customer base that demands the very best, such as motorsports, automotive, medical, marine, sports and leisure.

As we go to press a new mezzanine flooring is being installed to provide secure storage and ‘quarantine’ areas. The trim and fitting department now has a dedicated insert preparation room complete with reverse osmosis water system, acid etching and Vixen Aquablast. This is supplemented by a new bond assembly and silicon moulding rooms.

These new facilities allow CP Composites to offer services that its customers would normally do in-house. Existing customers know they can rely on the company to supply composite components fully prepared, so they can be used more efficiently.

Of course, all these impressive facilities are only as good as the people using them. Fortunately, CP Composites has a core of well-trained and experienced staff and a dedicated inhouse training scheme, currently running at twelve apprentices.

Accredited to ISO 9001:2015, and working towards IAFT 16949:2016, quality and attention to detail is incorporated throughout the business. From one-off prototypes to multiple production runs, its skilled workforce is focused, flexible, dedicated and has an appreciation for the customers’ confidentiality.

The recent equipment investment levels; the training of new staff, and the philosophy of delivering quality components on time certainly highlights the strengths of CP Composites, and with all that in your arsenal why would you want to deviate off course.

CP Composites
Unit 2, Stukeley Business Centre, Blackstone Road, Huntingdon, Cambridgeshire, PE29 6EF
T: +44 (0)1480 437277
E: enquiries@cpcomposites.co.uk
W: www.cpcomposites.co.uk

INTEGRITY DELIVERS PERFORMANCE

1600 sq ft. Clean room with decontamination entrance
Separate dedicated bagging room
Two large jacketed autoclaves
Insert preparation facilities including Vixen Aquablast
Large walk in freezer with backup condensers
Comprehensive training program with dedicated clean room facilities

MOTORSPORT | AUTOMOTIVE | MARINE | INNOVATION | PROTOTYPE | R&D

For more information, go to www.compositesuk.co.uk
Zünd UK Ltd will return to Advanced Engineering UK on October 31st and November 1st, showcasing its market-leading modular cutting equipment to professionals from a variety of markets composite and manufacturing markets. This makes it an ideal environment for a showcase of the Zünd G3 L-3200 digital cutting table. The Zünd G3 is a fast, versatile and robust system that is popular with many manufacturing companies worldwide.

With intuitive and production-friendly software for digitising templates, nesting CAD files and driving the Zünd cutter, Zünd will be showcasing the complete workflow solution for cutting, marking, routing and many other processes. The vast array of tooling that can be interchanged on the Zünd range allows for a wide variety of materials to be processed, up to 50mm thick, including carbon fibre, glass fibre, textiles, foams, plastics and many more all on the same machine.

Zünd UK will be exhibiting at Advanced Engineering 2018 on stand F32. For further information or to book a meeting at the show please email salesuk@zund.com or call 01727 833003.

About Zünd UK Ltd
The Zünd name is synonymous with the words performance, reliability and quality. Established in 1993, Zünd UK Ltd has become one of the industry leaders in the supply and service of precision cutting systems. Situated to the north of London and close to the M1/M25 motorway network is Zünd UK’s sales and service centre offering a full pre- and aftersales service and a state-of-the-art demonstration suite complete with a range of new cutters, cutting table options and finishing solutions.

Zund UK Ltd
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Highly automated, efficient and reliable

• Fully automated operation
• Superb reliability and efficiency
• Module-based versatility
• High-performance tools for maximum output
Built on a long history of composite manufacturing achievements, Rockwood Composites provides cost effective composite component manufacturing solutions to technically demanding applications across a wide range of sectors including aerospace, defence, nuclear, cryogenic, medical and automotive.

Our main “out of autoclave processes” of bladder and compression moulding offer a wide range of component design options not available through other processing techniques. We use hard tooling, CNC machined from CAD/CAM, within heated platen presses or dedicated stand-alone tools.

Rockwood is a leader in its field through the key philosophy of “Design for Manufacture”. This enables us to support customers through multi-feature integration, minimising tooling cost, maximising quality, and reducing component cost and lead time.

We offer:
- Cost effective manufacturing processes and expertise, not frequently found in the UK composites industry.
- Short lead times from concept to hardware, through in-house design, tool manufacture and development, supported by our ISO 9001 manufacturing systems.
- Support to customers in the selection of materials, tooling options and production techniques.

**VISIT US AT THESE FORTHCOMING EVENTS:**
- Bondexpo - 8-11 October 2018 - Stuttgart
- IBEX - 2-4 October 2018 - Tampa, US
- CAMX - 15-18 October - Dallas, US
- Advanced Engineering - 31 October - 1 November 2018 - NEC
- Composites Europe - 6-8 November 2018 - Messe Stuttgart, Germany
- JEC Asia - 14-16 November - Seoul, Korea

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**Rockwood Composites**
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E: info@rockwoodcomposites.com
W: www.rockwoodcomposites.com
With over 75 years of experience, SikaAxson is a world leading provider and developer of high performance Epoxy and Polyurethane solutions for the composites industry.

Our composites product range includes high performance EP and PU resin systems, which are optimized regarding to their viscosity, reactivity and temperature resistance for a variety of applications (RTM, Vacuum-Infusion, Filtrusion, Filament Winding, Wet-lay-up, ...) and demanding processes. The systems can be customized on request for special demands. To supplement our range, we also have a wide range of structural adhesives mainly based on EP and PU for composite bonding.

SikaAxson can supply the complete solution: we can provide products for all three parts of the production cycle - from the model via the mould to the finished part - with a wide range of liquid resins and board materials, based on EP and PU. In addition to this range, we also manufacture products including moulding pastes, vacuum casting and RIM systems, gelcoats, laminating systems, as well as a large number of EP and PU based casting resins.

SikaAxson generates an annual turnover of € 130 million with 450 employees and is part of Sika AG, which is headquartered in Baar, Switzerland. Sika has subsidiaries in 100 countries around the world and manufactures in over 200 factories. More than 18,000 employees generated annual sales of CHF 6.25 billion in 2017.
Surface Finishing Specialists
Continued growth and development with advanced polishing technology from Farécla

Farécla Products Ltd is a UK, family owned, 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 in 2015 led to the development of unique modified raw materials which are at the heart of Farécla’s fastest ever polishing compounds; included in the new 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.

Specialist Applications Business Manager, 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 2018 (Stand Q145) – expanding upon last year’s display of unique exhibits including a custom bass drum and motorcycle helmet that have been polished with Farécla products – with the winning bonnet from the Apprentice & Student Bonnet Painting Competition on display – celebrating young talent within their industry.

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

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Farécla Products Ltd
Broadmeads, Ware, Hertfordshire, SG12 9HS
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For more information, go to www.compositesuk.co.uk
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Highlights from our range of innovative epoxy prepreg systems:

- **RP442** Low temperature prepreg with a longer out life
- **RP542-1** Mid-temperature component prepreg with superb surface finish
- **RP549** Highly toughened prepreg with a Tg of 214°C (DMA) and excellent mechanical properties
- **RP570** A true snap cure prepreg, with a complete processing time of 4 minutes
- **RP800** New tooling prepreg providing excellent quality with an 8 hour cure at 50°C

Contact our team for more information or to arrange a material sample today:
(+44) (0)1202 680022  |  enquiries@prfcomposites.com  |  www.prfcomposites.com

Doing things differently