

UKDSC SMALL AND MEDIUM ENTERPRISE (SME) ENGAGEMENT NEWSLETTER

November 2020

Issue 3 – Nov 2020

SME and Industry Engagement during evolving times

Although the past few months have been a challenging and strange time for us all, in my experience, these troubling times have also brought some positive aspects. In particular, the increased frequency and better use of IT as a method of engagement and communication whilst travel has been restricted. Although not a substitute for some traditional face-to-face engagements, my experience so far has been a positive one.

The UKDSC has continued to support and attend virtual events, the most recent being the Defence Procurement, Research, Technology & Exportability (DPRTE) Event which provided continued opportunities to engage with and support the SME Community and raise awareness of the UKDSC.

For an update of the UKDSC's recent activities, particularly its cross-sector initiatives that may provide future opportunities for SMEs to potentially get involved in, take a look at the Defence Growth Partnership's (DGP) recent [Newsletter](#) in video format, during which the UKDSC's Executive Director of Innovation provides an overview of the its innovation activities.

Information on the UKDSC's upcoming webinars will be advertised on the UKDSC's website at www.ukdsc.org and social media sites.

Welcome

Welcome to our third issue of the UKDSC SME Engagement Newsletter that we hope you'll find of interest.

The purpose of the newsletter is to provide the DGP Community with a short summary of UK SME engagements undertaken by the UKDSC over the past few months. To ensure we accurately reflect the capabilities of these organisations, the enclosed company overviews are written/prepared by the respective SMEs.

The short summaries are best treated as an initial introduction to the SMEs we've managed to meet, albeit we're keen to support further dialogue if you believe there is merit in pursuing things further.

In summary, our aim is to provide early visibility of some UK SMEs and their associated technology offering, whilst providing the SMEs with a recognised DGP platform from which to share their capabilities.

If you have any feedback, suggestions or improvements to suggest then please contact

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SMEs in this edition





Industrial Scale
Additive Manufacturing

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UK defence
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Titomic the world's largest & fastest metal additive manufacturing process, are redefining what's possible for metal manufacturing.

Titomic (UK) limited uses a perfected form of Cold Spray metal deposition. Fine particulate metal is introduced into a high velocity gas and directed onto a target substrate. The particulates meld with the substrate allowing the build-up of solid metal layers to produce a range of unique geometries and near net shapes. Its largest machine prints parts are 9mts x 3mts x 2.5mts. Titomic can print 80Kg of material per hour in Titanium, Invar, Inconel, Copper, Nickel, steel and more. Dissimilar metals can be overlaid to produce parts with additional corrosion resistance or wear properties. This unique technology provides the capability for producing commercially viable additively manufactured metal products, competing directly with traditional manufacturing methods.

Titomic is head officed in Melbourne, Australia. A public company specialising in industrial scale metal additive manufacturing using its patented Titomic Kinetic Fusion® (TKF) technology.

Clarendon Specialty Fasteners expands SEMS Screw range for the Aerospace, Defence, Space, Avionics & Motorsport markets.

With the ongoing demands of size and weight reduction of electrical assemblies, PCB's and avionics equipment, Clarendon Specialty Fasteners have increased their SEMS Screw (Pre-assembled Screw & Washers) to include a micro sized range.

Manufactured in the UK against strict AS9100 practices, using fully traceable material from the UK, Europe or the US, SEMS Screws by Clarendon Specialty Fasteners offer a significant reduction in FOD (Foreign Object Debris) risk, improve ease of assembly, reduce production time and present an overall cost saving when compared with a standard screw and washer configuration. The current range has an extensive offering of drive styles, head styles, diameters, lengths, finish options and washer configurations, which can be selected using their online SEMS Configurator tool, including custom options.

To complement the current range, 1.6mm diameter SEMS are now available as part of our Micro Range, with additional sizes below the previous 2mm minimum to follow, including Inch size options.



Specialty Fasteners

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LOBO has been around for over 20 years with a global presence based in the UK.

The LOBO System is a safe alternative to aircraft staging and scaffolding, a versatile work platform that combines the flexibility and strength of traditional scaffolding with the simplicity and mobility of tower systems.

This provides an alternative which is used in many maintenance and production applications. LOBO can be reconfigured and adjusted, without the need for tools, into any shape or size, it is easy to use, portable and fast to assemble, think of a meccano set.

Applications include maintenance in confined spaces, aircraft, manufacturing production environments. Assembled by anyone, components can be flat packed and transported for storage and utilization anywhere. Your own crew can be upskilled to assemble the LOBO System quickly, easily, and safely around, under or above vehicles, machinery, and conveyors. Labour costs can be reduced without comprising safety.

Areas considered difficult to get to can now be accessed for maintenance and cleaning.

Full certified training is available, complete with regular refresher courses.

The LOBO System puts you back in control of your maintenance and provides a safe work at height solution.

www.runflatinternaional.com

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Official: Commercial in Confidence

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Nov-20



DRONEVOLUTION

www.dronevolution.co.uk

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Drone Evolution is an innovative drone products and services company based in Caerphilly, South Wales.

SkyWire from Drone Evolution allows almost any rotary UAVs to be tethered to heights up to 120m to keep it in the air for hours. SkyWire's components are ruggedized and modular, giving total flexibility to deploy comms or to increase ISR. Uniquely, the system can be partnered with a range of UAVs and can be powered either directly from the vehicle or from mains power. Cable management is handled by the intelligent auto-reel in/reel out system. Tether options include the ability to pass a signal via fibre optic cable, ensuring secure communications. The tether has a tensile strength of 100kg and the whole system is IP54 rated to ensure it can be used in a range of environments.

Drone Evolution is looking to expand the range of use cases for drones with further game-changing developments.

Merlin Flex, a subsidiary of Merlin PCB Group, manufactures Flexible circuits, Flexible Rigid circuits and Flexible interconnect assembled units.

The interconnect units form the unique service and product offering to the defence and commercial industry customers.

The circuit build to print process and circuit assembly process is entirely constructed as part of the same process in the same building.

Merlin Flex only assemble flex and or flex rigid interconnections with circuits made in house; all subject to AS9100 standards of release.

Merlin Flex participate in Design for Manufacture (DFM) collaborations with our customers.

The team effort in DFM drives towards the principle of Right First Time which leads to reduced time to market.

This activity also provides our customers with technical opportunities to save in space, weight, box final assembly efficiencies, and ease of assembly.

Administration costs are reduced by shrinking the supply chain with less POs, Bills of Materials and multi part schedules.

Merlin Flex is registered at JOSCAR Level 2 and is SC21 Bronze.



<http://www.merlinpcbgroup.com/>

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GroundGuards®

<https://www.ground-guards.co.uk/>

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GroundGuards Ltd are manufacturers of expedient matting systems for military and civil engineering applications. The product range includes modular plastic matting systems suitable for all applications from lightweight pedestrian shelter flooring through to heavy-duty trackway matting suitable for temporary logistics depots, hangers, field plant workshops, aircraft standing, and FOB flooring.

These matting systems are made out of lightweight high-tech plastics, enabling them all to be easily installed by hand. Even MaxiTrack which is the most heavy-duty man-handleable matting system in the world, weighs just 40kg per mat, enabling it to be installed by two persons. This allows for installation by regular troops with just a forklift and avoids the need for expensive specialised trackway laying equipment.

The mats are stored in stillages, making them efficient to store, and simple to transport by all modes of freight.

The mats simply connect together by interlocking overlapping flanges, enabling them to provide a firm and stable surface, even in soft or sandy ground conditions, and very hot or cold climates.



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Aeroservices provides end-to-end design and development capability with integrated services covering the structures, systems, avionics, hardware and ground-based systems and many other areas in the Aerospace Engineering domain. We develop Solution Accelerators and Frameworks and offer strong Next Generation Technology offerings in Digital Transformation, Data Analytics, and IoT, making us ready for next-gen aerospace through AI enablement. Aeroservices have solid supply chain partnerships major Aerospace & Defence companies.

Aeroservices historically is a tech-driven global player in the aviation industry offering single-point supply chain and inventory management services. Aeroservices' contractual & ad-hoc services portfolio includes Distribution of Spares & Aviation Components, Lubricants & Consumables, Tooling & Tyres, Management of Repair & Maintenance work, and Exchange & Leasing of Components.

The company is headquartered in the UK with regional offices in Dubai & Shanghai.

LMSA is a leading specialist in the fields of defence, public safety and clean energy, with a shared passion for creating a safer, more sustainable future.

Energy storage is an integral component of any efficient infrastructure, and is one of our core specialties. LMSA can deliver state-of-the-art Crystal® batteries that outperform other mainstream technologies from a dollar-per-watt standpoint. Crystal® batteries are safe, environmentally-friendly, and superior in quality and performance.

- Significantly longer life than other technologies like lithium-ion batteries.
- Significantly greater number of discharge cycles.
- Faster charge times for increased performance.
- Crystal® batteries maintain performance until close to end of cycle life, with an average capacity of 100% over 10 years.
- Crystal® batteries have an operating range of -40°C / -40°F to +65°C / 149°F
- Crystal® batteries are completely safe as there is no risk of thermal runaways and spontaneous combustion.
- Crystal® batteries are certified by UL, INTERTEC and ISE.
- Crystal® batteries comply with international standards of environmental protection.
- Crystal® batteries are classified as non-hazardous goods and can be shipped safely by air, sea and land.



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Incorporated in 2012 LC Tech is a global leader in data recovery software tools and data recovery lab services for flash memory and hard drives.

Experts in data recovery from memory cards and flash memory, LC Tech are recommended by SanDisk, other Memory and Camera manufacturers, approved suppliers to the BBC, ITV and over 50 other data recovery companies around the world. Service are also provided to law enforcements, retailers, and various other sectors including Defence. See our Privacy Policy here: <https://www.lc-tech.co.uk/pc/privacy-policy/>

Writers of SanDisk's RescuePRO software, Toshiba, PNY and Delkin's data recovery software tools. Free support for any data recovery query. LC Tech are based in UK, USA and Japan with customers around the globe.

Software: LC Tech can provide software development and rebranded data recovery software too including capabilities to build recovery details of specific OEM files: <https://www.lc-tech.co.uk/pc/oem-solutions/>

Assist with individual cases of data loss with data recovery software. Other utilities for SSD and Flash memory also available.

Services: Global experts at removing memory chips for chip reads (NAND reads), to recover seemingly dead or badly corrupted flash memory devices.

Includes reverse engineering of unusual NAND chips. Forensically recover and repair complex file types.

Testimonials can be found here: <http://www.lc-tech.co.uk/pc/testimonials/>

Also see Google reviews [here](#).