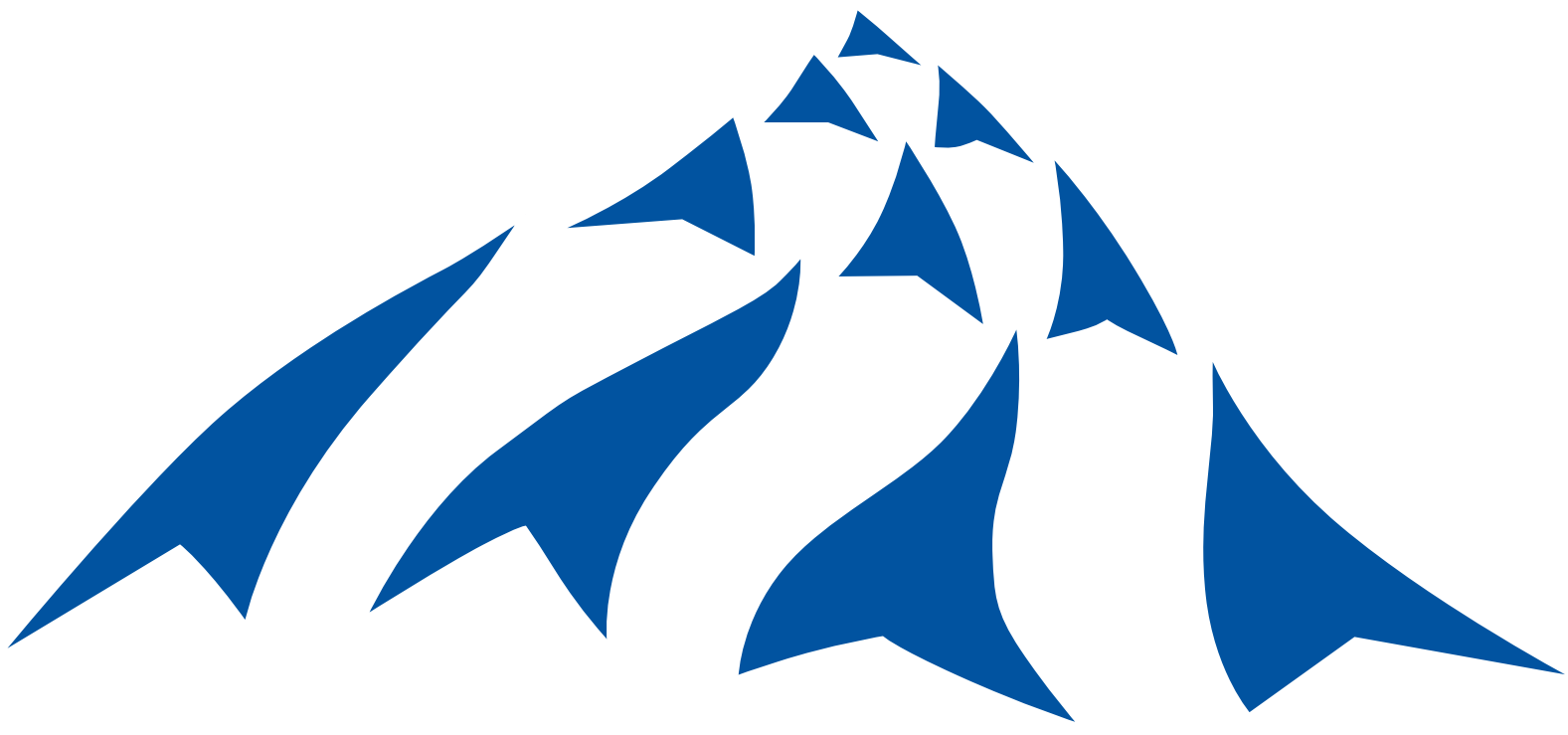




midlands aerospace alliance

Capabilities of Midlands Aerospace Companies 2013 - 2014



Midlands capability for the world's aerospace industry

The Midlands Aerospace Alliance is pleased to present you with the updated 2013-14 edition of our member capability directory – which marks our tenth annual edition. It has been designed to help you identify world-class Midlands partners and suppliers for your aerospace programmes and projects.

The Midlands is home to one of the largest aerospace clusters in the world. Aerospace technologies designed and made in the Midlands can be found on the world's most advanced aircraft. Leading names such as Aero Engine Controls, Meggitt, Moog, Rolls-Royce and UTC Aerospace Systems are major players in a region renowned for its core competency technologies:

- systems that power aircraft – gas turbine engines and other propulsion systems
- systems that control the moving parts of aircraft and engines – electrical, mechanical, electronic, hydraulic and pneumatic
- specialist metal and composite materials that enable these systems to perform with precision in exacting environments
- specialist engineering design services, factory equipment and tooling

The Midlands business environment fosters the highest levels of innovation. Aerospace supply chains extend deep into our cluster's world-class advanced engineering economy. We access and invest in a dynamic skills base, with more than 45,000 skilled people working in our aerospace industry.

The mission of the Midlands Aerospace Alliance is to enhance cooperation between customers, suppliers and partners in the Midlands and globally, so that we can improve the performance of all our companies and organisations. We invite you to join us, using this directory to identify the new partners and suppliers you need to make your projects successful.

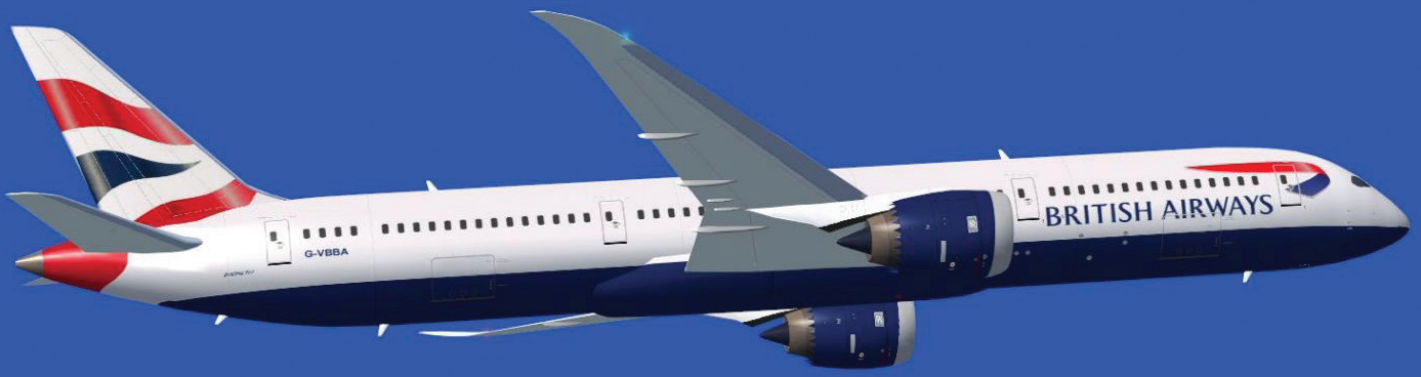


Dr Andrew Mair
Chief Executive
Midlands Aerospace Alliance



The Midlands Aerospace Alliance (MAA) website provides further information and access to all MAA publications. The information in this directory is available and constantly updated, as a searchable database on the website.

www.midlandsaerospace.org.uk



Boeing 787 in British Airways livery: Midlands technologies include Rolls-Royce Trent 1000 engines, Aero Engine Controls engine controls and Moog's high-lift system for the wings.

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Companies producing flying systems and parts

A & M EDM Ltd

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w: www.amedm.co.uk

A high-quality company specialising in electro discharge machining (wire and spark erosion), CNC and general machining.

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Abbey Metal Finishing Co Ltd

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LE10 3BZ
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w: www.amfin.co.uk

Abbey Metal Finishing undertakes a wide range of finishing operations on machined and formed parts at its state-of-the-art Midlands facility. These operations include plating, painting, anodising, NDT and thermal spraying. The wide process range available enables multiple finishing operations to be undertaken consecutively, at one location, thereby minimising lead times and meeting the increasingly stringent customer demands in aerospace for QCDR.

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DE21 7RX
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Accrofab is a class-leading manufacturer of precision fabricated and machined parts for the aerospace industry. We provide a single point of contact for end-to-end solutions across new product introductions, volume production and aftersales support, working closely with our customers to deliver added value, reduced risk and exacting performance. We operate an agile and flexible approach to managing capacity, providing a quick and comprehensive response to our customers' specific requirements. Design for manufacture advice forms part of our service. We now offer vacuum heat treatment in-house along with laser cutting, welding and NDT, all to Nadcap accreditations.

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Acorn Surface Technology Ltd

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Acorn is a specialist surface engineering company providing high-quality processes and service to aerospace, defence, automotive and industrial markets. We hold a wide range of quality accreditations including ISO 9001:2008, BS EN 9100/AS9100, NADCAP plus a number of third-party approvals including Airbus, Boeing, Rolls-Royce, Bombardier. The range of processes available includes NDT, anodising, plating, painting and IVD aluminium vacuum coating. We specialise in multi-process and selective coating and can advise on design and selection of surface treatments.

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ActOn Finishing Ltd

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ActOn Finishing Limited signifies high-quality metal finishing. We are a one-stop shop for comprehensive metal finishing solutions. Our manufacturing capabilities include machines, media and compounds. We design and manufacture a wide range of metal finishing machines like: vibratory finishing machines, centrifugal high energy finishing machines, rotary dryers, vibra polishers. The company also manufactures its consumables required for the process. ActOn Finishing services various companies involved in aerospace, automotive, medical and other general engineering. A state-of-the-art sub-contract facility offers both vibratory and high energy finishing as well as manual polishing of aerospace parts.

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Advanced Chemical Etching Limited

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Telford
Shropshire
United Kingdom
TF1 7EX
t: 01952 416666
w: www.ace-uk.net

ACE has a strong background in manufacturing custom precision components for defence and aerospace applications, experience in supplying many aircraft platforms and is ideally placed to meet their rapidly changing demands in terms of quality, speed, precision and innovation. ACE is well versed in producing critical components in the majority of compliant aerospace grade materials including beryllium copper, phosphor bronze, inconel, nimonic, incoloy, stainless steel, aluminium, aluminium bronzes, titanium and molybdenum. From flat metal profiles to complex formed components we have the in-house capability to manufacture your prototype and production requirements to exacting standards, using ACE etching technology and conventional tooling.

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AE Aerospace Ltd

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AE Aerospace is a world-class supplier of high-quality precision machined components supporting repeater, runner, stranger and alien demands for the aerospace and advanced engineering markets as the core of our business and future strategy. Our ERP system and infrastructure allow us to manage our business efficiently and are dedicated to ensuring that our customers receive the optimum performance necessary. Utilising 5 axis milling and turning machines, AE Aerospace has achieved the highest industry and customer qualifications including SC21 Bronze Award. Based in Birmingham close to major road networks, airports and rail services, we are ideally situated to support customers locally and internationally.

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Companies producing flying systems and parts

Aero Engine Controls

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B28 8SW
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Aero Engine Controls is part of Rolls-Royce plc. The consolidation of skills, knowledge and experience provides Aero Engine Controls with first-class industry insight and technical expertise. This combination accelerates the innovation, development and implementation of engine intelligence.

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Aerocom Metals occupies a 25,000 sq ft facility in Coventry, with representation in India, Malaysia, China, Japan, Greece, Turkey, Romania and Bulgaria. Aerocom's original competence was in the high strength steel tube sector; supplying tubes for restoration projects including Spitfires and Hurricane fuselages and modern day commercial aircraft interior structures. The high strength steel tube market remains at the heart of the business. Since 2010 we have expanded into bar, sheet and plate stocks along with tube. We have also invested in a sawing centre, with five band-saws, one tube saw and guillotining.

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Aeromet International PLC is a UK based, leading producer of premium quality aluminium and magnesium sand and investment castings. High property castings are available utilising SOPHIA process for conventional materials, and A20X® for next generation, ultra high property applications. A20X® material produces the highest strength aluminium castings commercially available. Registered with the Aluminium Association as AA205. AMS4471 for investment castings and AMS4482 for sand castings. FAA approved. The only Boeing approved aluminium investment foundry in Europe. Airbus "Supplier of the Year" award 2012. Castings – machining – treatments – assembly – design - rapid prototyping. Investment castings up to 1.5m³, sand castings to 1.0m³ AS9100: RevC, ISO9001:2008 and NADCAP approved.

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Akzo Nobel Aerospace Coatings Ltd

Unit 1 Meridian West
Meridian Park
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Manufacture and distribution of structural, exterior and specialist coatings for the aerospace and defence markets. ANAC are approved by all the leading OEMs and are a key supplier to the airline maintenance aftermarket (MRO).

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Alloy Heat Treatment Ltd

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DY2 0XW
t: 01384 456777
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Alloy Heat Treatment is the largest and leading subcontract heat treater of aluminium and its alloys, in any form, in the UK. Cast, forged or wrought product into a variety of quenchant.

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Alloy Wire International

Narrowboat Way
Hurst Business Park
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Manufacturer of wire (round, shaped and flat) in high performance nickel alloys.

Tom Mander
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Aluminium Special Products Limited

Aluminium Special Products Limited

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Aluminium Special Products Limited is a fully approved supplier of raw material specialising in aluminium and magnesium alloys. In-house manufacturing capability exists to process, from cutting to length to complete finished components and assemblies. With an established global supply chain, ASP offer customers a hands-on, cost-effective supply without compromise on quality, delivery or service.

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ANT Industries

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Established in 1972, ANTools Ltd manufacture a wide range of components and assemblies for the aerospace and its allied industries. We have the capability to manufacture complex prismatic parts and aero engine "ring" components. We are a first-tier supplier to a variety of OEMs and offer the capability to support both prototype and production requirements.

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Arrowsmith Engineering (Coventry) Ltd

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Founded in 1967 specialising in manufacture of components for the aerospace and motor racing fraternity. Privately owned company with highly skilled workforce providing CNC turning, milling and grinding engineered machining services in nimonics, titaniums and plastics, as well as specialist services of thread rolling, NDT and pressure testing. AS9100, ISO14001 and Nadcap approval. Awarded "Best Small Business 2009" in the Coventry and Warwickshire Business Awards and in 2010 completed construction of new factory and offices.

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Ashton & Moore Ltd

12 Smith Street
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Special process house offering NDT services, sulphuric and chromic anodising, passivation of aluminium and stainless steel, painting/stove enamel, ceramic anti-corrosion coating, cadmium, lead, indium, electroless nickel and silver plating, phosphating, electropolishing and ancillary services to aerospace and defence standards.

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Atlas Composites are a dynamic force in the development and manufacture of composite structures for a diverse range of aerospace and military applications. We are currently certified to AS9100 Revision C standard - the prestigious quality management system for aviation, space and defence. Our capabilities include project management, component and tool design, CAD/CAM technology, five-axis machining, autoclaves, press moulding, clean room facility, CNC materials preparation, non-destructive testing and AS 9102 compliant final inspection. We are currently engaged with the Midlands Aerospace Alliance and are working towards SC21 bronze recognition.

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Bodycote Heat Treatments Ltd

Thermal House
Colliery Lane North
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t: 02476 367786
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Bodycote is the world's leading thermal processing services provider. Offering extensive processing capability in the UK, and an international network of services with 170 locations in 27 countries, Bodycote is a vital provider offering local support to the international aerospace industry. Services include: heat treatment; metal joining including vacuum brazing and electron beam welding; hot isostatic pressing and metallurgical coatings. The world's most respected aerospace companies recognise the benefits of long-term relationships with Bodycote – allowing access to the wealth of knowledge, expertise and international quality accreditations that keep Bodycote at the leading edge of engineering technology.

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Bohler-Uddeholm (UK) Limited

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Taylors Lane
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West Midlands
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t: 0121 552 5681
w: www.bohlersteels.co.uk

UK sales organisation and service centre of Bohler-Uddeholm AG, a leading company in the development and production of special steels and nickel-based alloys, covering BS, AMS and other international standards. Forms of supply include billet, bar, sheet, plate, strip and rolled profiles. Bohler in the UK is a signatory to SC21 and actively encourages business improvement techniques within the company. The service centre has automatic saws, a specialised saw system for close tolerance multiple cut blanks, a fully automated saw centre, as well as machining and grinding facilities.

Judith Ridgway
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British Rema Processing Ltd

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Micronisation, classification and blending of powders and resins to tightly controlled specifications at the micron scale, either as a contract service or the design and manufacture of process equipment worldwide. Current aerospace applications for micronised powders include advanced adhesive systems, resin based polymers and composites used in component assembly.

Simon Abbott
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Bromford Industries Ltd

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Bromford Industries is a privately owned enterprise trading on a global basis supplying a wide range of precision machined components, fabrications and assemblies to OEM aero engine, landing gear and industrial gas turbine customers for civil and military applications. Operating from core facilities in the UK and with a broad engineering and sourcing capability including emerging market and supply-chain management, Bromford specialises in difficult-to-manufacture, performance-critical components in a variety of materials.

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Bulwell Precision Engineers Ltd

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A manufacturer of precision components, sub-assemblies and critical performance assemblies to aerospace primes and the aerospace supply chain. Provision of a full service of machining, fabrication, surface treatment and assembly makes the business a solutions provider to customers worldwide. Operating as a subsidiary of the Nasmyth Group, the business has access to extensive resources and capacities in other group companies.

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Companies producing flying systems and parts

Burcas Ltd

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Burcas Limited, founded in 1941, is an independent family-owned precision engineering company. The company has earned an enviable reputation for the production of high-quality, precision-engineered parts and components for the aerospace and defence industries. The machining department specialises in the manufacture of highly complex critical components and tooling and is fully equipped with CNC milling, CNC turning and CNC grinding machines, including a full 5-axis capability for milling and grinding. The inspection department has non-contact scanning measuring systems and co-ordinate measuring machines. Burcas also uses enhanced CAD/CAM software to help keep pace with the ever-increasing rate of change within this fast developing industry sector.

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C & H Precision Finishers Limited

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w: www.chprecision.co.uk

CHP have the specialist capabilities and production processes for accredited finishing on a wide range of components including: turbine blades and vanes, engine casings, undercarriage landing gear parts, one-off alien parts, blisk polishing. We provide component finishing processes which include: de-burring, finish polishing, vibro and super polishing, blasting including vapour blast, all to meet the most demanding quality levels and approvals.

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West Midlands
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w: www.accles.co.uk

Tube manipulators and coilers. Producers of metal rigid tube assemblies into the aerospace and scientific industrial sectors.

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Precision manufacture - machining and fabrication

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t: 02476 369400
w: www.chinnltd.com

Part of the Nasmyth Group of companies, Chinn Ltd specialises in the manufacture of machined and sheet metal components, complex assemblies and fabrications for airframe and engine customers in military and civil aerospace markets. With an extensive range of specialised and precision processes undertaken by a highly skilled and motivated workforce, including: machining, welding, FPI, X-Ray, hot and cold metal forming, chemical processing and heat treatment. Chinn Ltd also carries out reverse and concurrent engineering on legacy and prototype parts and holds an extensive range of ISO, NADCAP and OEM approvals.

Mac Fletcher
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Cinch Connectors Ltd

Shireoaks Road
Worksop
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United Kingdom
S80 3HA
t: 01909 474131
w: www.cinch.com

Cinch Connectors is a multi-national manufacturer of a broad range of interconnect products. Cinch is a major supplier of products to the military and aerospace market with significant presence in the commercial aircraft industry, as well as in the munitions, missile, and satellite communications segments. Cinch also possesses various enabling technologies and expertise, with which to provide custom solutions, and products, for strategic accounts within their focus markets.

Paul Connelly
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Clamonta Limited

Whitacre Road Industrial Estate
Whitacre Road
Nuneaton
Warwickshire
United Kingdom
CV11 6BX
t: 024 7638 2447
w: www.clamonta.co.uk

Founded in 1954, Clamonta manufacture high-precision machined components for the aerospace industry from stainless steel, nimonic, inconel, titanium and aluminium. We pride ourselves on our highly-skilled and dedicated workforce and our innovative machining methods. Our developed-in-house ERP/ MRP system is unique and offers features like touch-screen process control.

Steve Curtis
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Colledge & Morley Ltd

Unit 3 Hibberd House Curriers Close
Charter Avenue
Coventry
West Midlands
United Kingdom
CV4 8AW
t: 02476 462328
w: www.colledgeandmorley.com

Colledge & Morley was established in 1953 and became part of the Nasmyth Group in 2008. We are a supplier and manufacturer of high precision gear and spline related products for the aerospace and defence sectors and for specialist commercial products and the auto sport industries. We also offer a free issue single operation service for gear hobbing, gear shaping internal and external splines, broaching and gear grinding.

Adrian Marvin
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Columbia Precision Ltd

140 Cheston Road
Aston
Birmingham
West Midlands
United Kingdom
B7 5EH
t: 0121 327 1500
w: www.columbia.uk.com

Ultimate provider of multi-axis high-precision manufacturing solutions, we are a manufacturer of high-precision components using multi-axis manufacturing cells. This activity is supported by the supply of machined, tested and assembled kits to our customers' build lines.

Ted Yamall
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Component Coating and Repair Services

Unit 1 to 4
Lydford Road (Repair Division & HQ)
Alfreton
Derbyshire
United Kingdom
DE55 7RQ
t: 01773 546656
w: www.component-coatingsandrepairs.com/Where-toFindUs.aspx

CCRS Ltd is a privately own company based in both Glasgow and Alfreton, Derbyshire. The Glasgow division specialises in overlay and diffusion coatings for both new manufactured and overhaul components. Our Alfreton division carries out repairs to a variety of gas turbine components. For further information please see our web site.

Alan Dean
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Copper & Optic Terminations Ltd

90 Town Road
Hanley
Stoke on Trent
Staffordshire
United Kingdom
ST1 2LD
t: 01782 275810
w: www.copperandoptic.com

Copper and Optic are recognised as a premium sub-contract & electronic assembly company. Providing cable/wiring harness assembly, mechanical assembly, electro-mechanical assembly, printed circuit board assembly or fibre optic termination for the aerospace, defence and professional electronic manufacturing base we are proud to be associated with some of the most influential defence and aerospace companies in the industry.

Phil Latham
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Cosworth Limited

The Octagon
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Northampton
Northamptonshire
United Kingdom
NN5 5RA
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w: www.cosworth.com

A world leader in advanced engine and engineering technology, supporting a vast array of mechanical and electronic requirements. Cosworth combines state-of-the-art manufacturing facilities with highly experienced and focused engineers to provide total solution capabilities to the aerospace and defence sectors.

Paul Kincell
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Croft Engineering

Sawley Grange
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DE72 3QF
t: 01332 872274
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Croft Engineering of Draycott is a company of sixty employees, specialising in low to medium batch production of high precision components. The company offers three main areas of expertise: 1) precision grinding, covering cylindrical, centreless, internal and ring grinding, bore honing -- working routinely to tolerances of .0002" and often to .0001"; 2) CNC milling, with eight vertical machining centres, five of which have 4-axis capability; 3) CNC turning, with thirteen CNC lathes of which two have live tooling. These areas are supported by manual turning and milling. Croft Engineering also offers full CMM facilities with 3 full-time inspection representatives.

Ashley Beeden
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Cube Precision Engineering

Cakemore Road
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Design and manufacture of press, mould and composite tools for the aerospace, defence and automotive industries. Specialising in tooling and components up to 5m in length and 35T in weight our tryout facilities range from 400T-1,000T mechanical presses. We have AS9100 Rev B (Migrating to C), ISO9001 and are SC21 signatories.

Neil Clifton
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Cubewano Limited

Unit 8b
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Sutton Coldfield
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United Kingdom
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t: 0121 3781765
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Cubewano design, test and manufacture small multi-fuel internal combustion engines to AS9100 quality standards. We currently supply the US military with engines for UAVs primarily due to their ability to run on kerosene but also their high power to weight ratio and very low vibration. Being highly scalable and able to run on either gasoline or kerosene, Cubewano engines are also suitable for a multitude of aerospace power requirements from portable generators and APUs to primary power units. With an emphasis on latest management techniques, Cubewano are now able to offer rapid design and development with full project reporting all to AS9100 standards.

Craig Fletcher
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Cytec Industrial Materials (Derby) Ltd

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t: 01773 766200
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Cytec Industrial Materials is an established provider of composite material technology for the aerospace industry, and a leading manufacturer of prepreg material for UAV platforms. The company manufactures OEM qualified structural prepreps for out-of-autoclave processing of civil and military aircraft structural components. It also manufactures low volume speciality prepreps for space and high performance radomes. ACG's MTM® prepreps have the largest available Public 'B' and 'A' basis databases generated via FAA accepted methodology. The company manufactures aircraft interiors prepreps qualified by Airbus and other OEMs, meeting FAR25.853 requirements. It continues to develop new materials for durable lightweight composite mould tool solutions.

David Bernard
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D & S Engineering (Coventry) Limited

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United Kingdom
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Precision engineering company, established in 1973, supplying the aircraft and defence industries. We are AS9100 revision 'C' & ISO9001 approved, we have been awarded SC21 Bronze award in 2013 for the second year and are striving to achieve the silver award in 2014. We utilise the latest CNC machinery, including five-axis, and our inspection department includes three CNC CMM machines. We manage outsourced processes such as heat treatment & plating. We are a grade 'A' supplier to major tier one aircraft and defence contractors.

Richard Maconnachie
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Companies producing flying systems and parts

Danatrol

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Danatrol Ltd specialises in the production of precision CNC machined components offering exceptional levels of quality workmanship and customer service since 1977. Our expertise is to machine complex components in a wide range of materials for industries including aerospace, security, energy and electronics established as a key supplier to major companies in the UK, Europe, USA and China. Our range of precision engineering and machining services includes: CNC multi-axis machining, CNC 5 axis CMM inspection, high value complex components, CAD/CAM integrated machine shop facility, prototype manufacture, finishing processes.

Andy Morris
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Delcam Plc

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The aerospace industry demands the highest levels of quality and consistency, plus cost-effective production and the shortest possible delivery times. Delcam's wide range of manufacturing software and services helps companies both large and small to meet those requirements. Delcam's CAD/CAM systems have been used on virtually every major aircraft programme in recent years and in many MRO operations. Our customers have undertaken projects in all the various areas that go towards producing a successful aircraft, from developing more fuel-efficient engines, to manufacturing airframe components more effectively and even in designing more comfortable and more attractive interiors.

Peter Dickin
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Doughty Precision Engineering Ltd

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Nottinghamshire
United Kingdom
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Doughty is a leading global supplier of intricate sub-contract machined parts to aerospace, electrical engineering and other leading companies. Doughty specialise in a cost reducing 'one-hit machining' philosophy wherever feasible.

Nelash Nagar
e: nelashnagar@doughtype.com

Dunlop Aircraft Tyres Limited

40 Fort Parkway
Erdington
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West Midlands
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B24 9HL
t: 0121 384 8800
w: www.dunlopaircrafttyres.com

Dunlop Aircraft Tyres Limited is the leading specialist in design, manufacture and retreading of aircraft tyres with over 300 product lines and 500 type approvals in its range. The company provides a wide range of tyres and tubes on a worldwide basis for both civil and military aircraft.

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Electro-Discharge Ltd

Unit 14
Bagley Industrial Park
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United Kingdom
DY2 9DY
t: 01384 238451
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Wire and spark erosion specialist to the aerospace, satellite, oil and Formula 1 industries, capable of cutting up to 600mm thick. Also offering CNC milling, electrode manufacturing, tool and fixture design/manufacturing.

Rupin Vadera
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Encocam Ltd

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t: 01480 435302
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Encocam Ltd is the parent company of seven divisions with over 21 years experience, spanning globally a range of industries from energy absorption, safety testing solutions, composite panels, and a range of manufacturing and engineering services. Encocam prides itself on being a leader in innovation and creativity whilst being forward thinking in technology and manufacturing, believing strongly in continuous improvement. COREX-honeycomb, one of Encocam's divisions, manufactures and distributes aluminium honeycomb worldwide, providing a light-weight to high-strength solution using a wide range of cell-sizes, materials, and strengths for core material and complete panels to customers' exact requirements.

Helen Dighton
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Energy Tubes Ltd

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DY4 9AQ
t: 01902 671222
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Energy Tubes are a specialist producer of tig welded tubes in stainless steels, nickel alloys and titanium for industry all over the world. We have manufactured tubes in the UK since 1974, from gauges of 0.4mm to 2mm. In diameter they range from 6mm up to 42mm. Our services include in-house comprehensive testing and inspection, in-line eddy current testing and fully annealed coiled tubes up to 250m long.

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Erodex (UK) Ltd

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t: 01384 892011
w: www.erodex.com

Specialist in: sink erosion, wire erosion, mechanical carbon applications, semiconductor applications, metallurgical applications, furnace applications, machining services, carbon brushes, design services. Since its foundation in 1973, Erodex has had a guiding philosophy which has endured throughout the decades. The finest raw materials, when allied to first class manufacturing techniques and the best possible service, will result in a successful business. From the very beginning and continuing up to date, the finest carbon and graphite materials have been provided by Poco Graphite of the USA and Toyo Tanso of Japan.

Graham Eccles
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Fibracon-Insoll Machined Plastics

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High Peak
Derbyshire
United Kingdom
SK23 0QZ
t: 01298 811800
w: www.fibracon.com

A tailored manufacturing service for machining engineering plastics to your design. We provide: impartial advice on plastic material selection, including PTFE, PEEK, Vespel, Torlon and engineering polymers; guidance on designing parts from machined plastics; responsive CNC machining service from 1mm to 3000mm, turning and 5-axis CNC milling; prototype to high volume made-to-order service. High performance plastics as a replacement for metal and ceramic components present a serious choice for design engineers as reducing weight drives operational cost reduction. We aim to help aerospace businesses improve their supply chain responsiveness and assist with the design and development of machined plastic components.

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G & O Springs Ltd

Broad Ground Road
Lakeside
Redditch
Worcestershire
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B98 8YP
t: 01527 523764
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Manufacturer of all types of springs and wireforms for the aerospace industry. Approvals held: SC21 Bronze, AS9100:B & NADCAP (Heat Treatment). G&O is currently working towards SC21 Silver recognition. See our website for current performance statistics.

Steve Boyd
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Gardner Aerospace - Derby Ltd

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t: + 44 (0) 1332 274700
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Gardner Aerospace Derby is a supplier of aerospace detailed parts, sub-assemblies and total manufacturing services to the aerostructure and aero engine markets. Components are manufactured in soft, hard and exotic alloys and we have all the required engineering tools, processes and quality approvals to support these capabilities.

Mark Holland
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Glenair UK Ltd

40 Lower Oakham Way
Oakham Business Park
Mansfield
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NG18 5BY
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Glenair is a manufacturer of interconnect solutions and products - especially for harsh environment and harsh EMC applications. We manufacture a wide range of military aerospace qualified circular and Micro-D connectors, harness accessories, backshells, conduit, braiding, heatshrink boots and tooling. Other products include fibre optic components and assemblies, composite components and enclosures. We specialise in the design and manufacture of customised wire and flexi-harness assemblies for bespoke applications. We have a large design team in Mansfield able to support and solve any of your interconnection requirements. Glenair is proud to hold the SC21 Bronze Award.

Tim Hall
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Gould Alloys Limited

Carrwood Industrial Park
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Chesterfield
Derbyshire
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t: 01246 263300
w: www.gouldalloys.co.uk

Gould Alloys is a leading supplier of high quality metals to the aerospace industry, holding major aerospace company approvals. The company pursues a policy of understanding the requirements of the customer, supplying materials in the most cost-effective form.

Jane Bradshaw
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Graves Aircraft Components Limited

Lighting Way
Alvechurch Road
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United Kingdom
B31 3PJ
t: 0121 475 5181
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Manufacturer of low-volume critical flying parts for the aerospace industry. Specialists in the supply of stranger and alien parts for the after-sales market. Parts manufactured include nozzles, jets, match ground spools and sleeves and other fuel-line components, small prismatics and actuation unit parts.

Dean Banks
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Greene Tweed and Co Limited

Mere Way
Ruddington Fields, Ruddington
Nottingham
Nottinghamshire
United Kingdom
NG11 6JS
t: 0115 931 5777
w: www.gtweed.com

Manufacturers of high performance sealing systems and complex thermoplastic composite components.

Tony Porter
e: tporter@gtweed.com

Henton Engineering Ltd

Faraday Road
Harrowbrook Industrial Estate
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Leicestershire
United Kingdom
LE10 3DE
t: 01455 238331
w: www.hentonengineering.com

Machined component supplier to aeroengine/aerospace industries.

Holden Aluminium Technologies Ltd

Linton Trading Estate
Bromyard
Hereford
Herefordshire
United Kingdom
HR7 4QT
t: 01885 482 222
w: www.holdenaluminium.com

With more than 50 years experience we are experts in CNC machining and forming of complex aluminium extrusions. We offer a full turnkey solution utilising extensive in house manufacturing capabilities with a strong, well developed supply chain. Our machining centres are 5-axis and able to machine aluminium up to 10500mm x 600mm x 300mm. In addition we have numerous smaller machining centres used for smaller precision components. Our forming division utilises four different methods of forming the aluminium extrusions enabling us to offer the most competitive solution to our customers needs.

Philip Lane
e: phil.lane@holdenaluminium.com

Companies producing flying systems and parts

Hucknall Sheet Metal Engineering Limited

Occupation Road
Off Cinderhill Rd, Bulwell
Nottingham
Nottinghamshire
United Kingdom
NG6 8RD
t: 0115 927 2840
w: www.hucknallsheetmetal.co.uk

Specialists in 2D & 3D laser & waterjet cutting, micro waterjet cutting, routing, punch press, 5 axis milling, 5 axis machining, CNC bending, fabrication and assembly. Non-conventional machining and welding to NADCAP. State of the art fully programmable welding systems. Prior part marking verification & CMM inspection service available. Reverse engineering capabilities. Thirty years experience as a tier one supplier. Rolls-Royce Deutschland, Rolls-Royce sector civil & marine approved. Involved in development work for Rolls-Royce Fuel Cells, renewable energy projects. Subcontractor to Rolls Royce Heritage Trust. All work approved to Rolls-Royce Sabre.

Tracey Tolliday
e: traceytolliday@btconnect.com

Icon Polymer Group

Thrumpton Lane
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United Kingdom
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Icon Polymer's portfolio of critical components includes aircraft platform, aerodynamic window seals, high and low pressure door and window seals, electrical connectors, oxygen supply hoses, specialist ducting, precision mouldings leading and leading edge aerodynamic seals. Aircraft seals produced from a range of silicone and polychloroprene facilitate a wide range of operating temperatures and when combined with fabrics such as glass, cloth and polyester, performance is further enhanced. Applications include canopy and hatch seals, aerodynamic wing fillet seals and inflatable seals. Sealing sections are available in a range of configurations, incorporating fabric and metal inserts for strengthening or for mounting location. Icon produces the most comprehensive range of aircraft oxygen-supply hose systems in Europe.

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Ilmor Engineering Ltd

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t: 01604 799100
w: www.ilmor.co.uk

Ilmor has a long established, successful history in motorsport and high performance engineering. We also offer precision subcontract machining services having an extensive range of machine tools, backed up by a full compliment of CMM equipped inspection department. This is of course, backed up by our extensive engineering department, that can benefit and support manufacturing, or offer their own services to support customers, to enable fast completion of forward design projects. We have recently been audited for aerospace AS9100 accreditation and have passed recommendation for certification.

Tim Roberts
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IM Kelly Aerospace

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IM Kelly was established in 1975 and supplies a range of interior products into the aviation, automotive, rail and marine markets. IM Kelly Aerospace manufactures soft interior and trimmed products for all types of aircraft and all classes, from economy to super first class. The core business is the manufacture of seat covers in leather or fabric as well as curtains, surged carpets and trimmed parts such as arm rests, dado panels etc. IM Kelly Aerospace can also provide a range of cabin interior products like blankets, headrest covers, fire containment sacks or bespoke cabin bags.

Neil Turner
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Indestructible Paint Limited

19-25 Pentos Drive
Sparkhill
Birmingham
West Midlands
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B11 3TA
t: 0121 702 2485
w: www.indestructible.co.uk

Inventors, developers, manufacturers and suppliers of engineering coatings and coatings for engineering, specifically for aero engine, airframe and aerospace accessories including heat exchangers, undercarriages, propellers, gas turbines; also production aids such as laser and acid bath stop offs.

Richard Banks
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Invotec Circuits (Tamworth) Limited

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t: 01827 263000
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Invotec specialises in the manufacture of high reliability, complex multilayer, HDI and flex rigid PCBs for the European aerospace and defence sectors. We have the capability to manage a vast array of leading-edge materials and technologies, which have been developed in partnership with our customers, to deliver optimum performance under extreme conditions. Through design support, prototyping and serial production fulfilment, we deliver world-class products from our UK facilities. Unrivalled technical capabilities, coupled with innovation and close customer relationships, ensure a comprehensive and competitive service-backed offering. Approvals include Nadcap (Electronics), AS9100C and SC21 Bronze Award.

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ITP Engines UK Limited

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w: www.itp-engines.co.uk

Design, test and manufacture of aero-engine components, systems and modules. Partners and suppliers to the world's leading aircraft engine makers.

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JJ Churchill Ltd

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We are a UK based, family-owned private precision engineering company founded in 1937 to provide sub-contract machining to the aerospace industry. The company subsequently diversified into power generation and defence markets. Our comprehensive engineering facility is dedicated to manufacture and supply of finished components and assemblies to a variety of 'blue chip' OEM customers. Products range from diesel-engine components and assemblies machined from ferrous and non-ferrous castings, through to gas-turbine blades 5-axis milled from bar; oversized and or precision forgings or castings in titanium and nimonic materials.

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Kepston Limited

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Coppice Lane
Walsall
West Midlands
United Kingdom
WS9 9AA
t: 01922 743133
w: www.kepston.co.uk

Sub-contract CNC internal and external jig grinding, con-tig general surface grinding processes and wire erosion. Kepston have over 75 years of precision grinding expertise; this, combined with continued investment in the latest precision grinding equipment, provides the complete solution to all of your precision grinding requirements.

Andrew Oakley
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Kigass Aero Components Ltd

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w: no web

Sub-contract manufacture and assembly of components for the aerospace and autosport industry. Kigass have an engineering team to take customer drawings and using CAD/CAM, programme our range of modern CNC machines to produce customer designs. Using our range of 3 to 5 axis machining centres we specialise in the manufacture of components from solid avoiding prohibitive lead times for forged and cast parts. We have 2 to 7 axis CNC turning, CNC EDM and wire erosion, gun drilling, surface and CNC cylindrical grinding. Test house facility for fuel, oil, water and air flow checks, calibration and pressure testing.

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KMF Precision Sheet Metal Limited

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ST5 7UF
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KMF provides world class customer service and solutions in the field of fully integrated bespoke metal work. With sales of over £30M, 340 committed employees and 130,000 sqft of manufacturing UK & Eastern European facilities. KMF customers can be assured of a professional response, production flexibility and total quality assurance from our systems driven approach. AS 9100, BS 9001, 14001, 18001

Lyndon Royall
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Knight Strip Metals Limited

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Established for over 70 years, Knight Strip Metals are specialist stockholders and processors of precision strip metals, stainless steels, nickel alloys, titanium and non-ferrous materials. Thin strip and foils form the strongest area of our relationship with the aerospace and defence industries. We combine our specialised, narrow rotary shearing skills with expertise in handling wide thin gauge strip in the supply of aerospace approved materials and services.

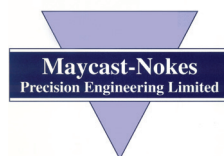
Dennis Cooke
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Manthorpe Engineering Ltd

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t: 01773 514 200
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Manthorpe Engineering Ltd is a supplier to the power generation, aerospace, defence and processing industries through its impressive precision machining and fabrication facilities. With CNC machining capacity including 5 axis milling/turning up to 3.0 metre diameter and fabrications up to 30 tonnes we can offer a wealth of experience working in aluminium, carbon steels, stainless steels and the exotic alloys including nimonic, inconel, waspaloy and titanium. Manthorpe has chosen UniGraphics NX6 as its CAD/CAM design and modelling package for the most challenging machining operations. We can also offer assemblies, testing and site installation services.

Mark Elliott
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Maycast Nokes Precision Engineering Ltd

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w: www.maycast.co.uk

Maycast-Nokes Precision Engineering is a privately owned company specialised in the manufacture of high quality precision castings. Operating from a single site our facilities include two modern foundries, NAD-CAP approved NDT and heat treatment departments, a metallurgical laboratory and a CNC machine shop. In addition to being ISO9001:2008 and AS9100 Rev C accredited we also hold a range of aerospace and defence company approvals. We can work from fully dimensioned 2D drawings or 3D CAD models and using rapid prototyping techniques supply castings on short lead-times for initial trials or fit, form and function tests. We can proceed to supply production quantities, from hard tooling, of machined, finished and assembled castings.

Dave Blower
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Meggitt

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w: www.meggitt.com

Several Meggitt companies are located in the Midlands including: Meggitt Aircraft Braking Systems (Coventry), a leading provider of wheel and braking systems products and services; Dunlop Equipment (Coventry), a supplier of pneumatic equipment and sub-systems for many aerospace and defence applications; Meggitt Control Systems (Birmingham), a provider of heat exchanger technologies to manage temperature by controlling and regulating the flow of system fluids; Meggitt Polymer Systems (Shepshed), designers and developers of precision-engineered sealing systems for multiple engine and airframe applications; and Meggitt Thermal Systems (Coventry), which produces electro-thermal and engine bleed air ice protection equipment including composite structures such as inlets and nacelles.

Ian McMurray
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Metal Spinners Group Ltd

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Newcastle upon Tyne
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Part of Standex International Corporation's Engineering Technologies Group, Metal Spinners Group Ltd provide innovative manufacturing solutions to Tier 1 and OEM level companies, supplying formed metal components and assemblies used in a wide range of performance critical industries

Brian Batchelor
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Companies producing flying systems and parts

Mettis Aerospace Limited

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Mettis Aerospace is a leading global service provider of precision-forged and machined components in titanium, aluminium and special steels. We excel at working with a diverse range of alloys and metals that can be forged and machined into numerous asymmetric and complex shapes. From conceptual design to test and certification, we provide our customers with a vertically integrated offering – this approach allows us to heat-treat and test our forged products, with the ability to supply fully machined and processed components straight to our customers. We base ourselves on maintaining a world-class status that revolves around exceptional customer service, engineering excellence, highly experienced management and continuous improvement.

Phillip Hughes
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MG Sanders Limited

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Stone
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ST15 8JU
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Manufacture of Densamet tungsten products for the aerospace, nuclear and motorsports markets, with 5-axis machining expertise in specialty metals.

Alan Dunbar
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Micro Spring & Presswork Ltd

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Micro Spring & Presswork are specialist manufacturers of a wide range of springs, presswork and assemblies and are accredited to AS9100 Rev c. NADCAP merit status and SC21 Bronze. Components are produced for customers spanning a broad spectrum of industry including aerospace, medical, telecoms and high-tech manufacturing. Our experience and strengths enable us to partner companies to assist from prototype and development through to volume production. With over 45 years in business we also have the experience and knowledge to offer flexible and innovative supply solutions that can add real value to your supply chain

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Micrometric Limited

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Micrometric Ltd provide a sub-contract laser manufacturing service including laser machining, profiling, drilling, welding, engraving and etching applications. The company has 12 laser systems including, Fibre, Nd:YAG and CO2, on up to five axis CNC control. This activity is supported by a conventional CNC machining, scanning, small press, wire EDM and grinding capability.

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MJ Sections Limited

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Precision cold and hot formed fabrications for aerospace, including section rolling, brackets and assemblies, pressings and fabrications, machined parts, sealing rings and wires, airframe stringers, made from stainless, titanium, nickel and nimonic alloys and aluminium.

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Moog Aircraft Group

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Design, manufacture assembly and test, servicing and repair of hydraulic, mechanical electrical/electronic flight controls, actuation systems and other aircraft equipment.

Stuart McLachlan
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MP Engineering UK Limited

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LE10 3BS
t: 01455 636063
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M P Engineering is an ISO9001:2008 UKAS approved company. We have recently enrolled onto the SC21 programme. Established in 1981, we have over 30 years experience in producing precision components for a variety of industries. We now specialise in the simultaneous machining of 5 axis components, which, alongside our CNC milling, turning and EDM capabilities ensures that we are well equipped to handle the reduced lead times and exacting quality requirements expected in today's demanding markets. Our new investment in plant enables us to not only maintain our enviable record of producing small batches for Formula 1 but seriously engage aerospace customers with cost effective contracts for larger batches.

Jason Poole
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Nasmyth Group Limited

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Nasmyth Group is a cohesive group of engineering businesses that consistently provides high quality services and products. The Group offers world class design, manufacturing assembly and product support service across the fields of precision mechanical and electro-mechanical engineering. A key strength of Nasmyth Group is its ability to offer customers a flexible and efficient "one-stop solution." Our impressive in-house capability and on-going investment programme, ensures that we remain at the forefront of manufacturing technology. For requirements ranging from specialized design contracts, which employ a full range of mechanical and electro-mechanical skills, to the production of complete assembled products, Nasmyth aims to exceed customer expectations every time.

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NMB-Minebea UK Limited

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NMB-Minebea UK Ltd is wholly owned by Minebea Co. Ltd of Japan and forms one part of its worldwide rod end fastener business unit. Each factory has its own key area of expertise. Lincoln's core competence is in landing gear bearings, aerospace bearings of swaged and split construction, helicopter, tram coupling and special vehicle suspension bearings. With the UK factory, two further manufacturing facilities in Japan and a sizeable support factory in Thailand, we have the capability to provide an engineering solution to all of our customer requirements.

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O.L.D Engineering Limited

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A family owned precision sub-contract machining company specialising in small to medium batch work, a tier one supplier to a major international blue chip company.

Neville Top
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**Osborn Metals****Osborn Metals Limited**

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Osborn Metals is a UK headquartered manufacturer, producing special extruded solid and hollow profiles in all grades of steel and titanium; sections used in both airframe and engine; low cost tooling and flexible on quantities; cold drawn precision profiles in carbon and alloy steels; cold drawn precision tubing in carbon and alloy steels used in aircraft structures, helicopter undercarriage and driveshafts, roll cages etc.

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PAB Coventry Limited

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At PAB we have a proud history within the aerospace industry. Our customers look for the very best in components quality and when it comes to pressings, brackets and welded assemblies they rely on PAB to deliver. PAB have longstanding relationships with Serck Aviation and Meggitt. This market sector demands high specifications in materials and tolerances to meet safety standards. Our quality accreditations ensure we are best placed to meet our client's rigorous process controls which you would expect from this industry. Again, our investment on the latest manufacturing processes and techniques enables PAB to fulfil our client's requirements.

Rob Lewis
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Paragon Engineering & Logistics Ltd

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Make-to-print low-volume high-variety for new product introduction, production and spares with precision and general machining capabilities using CNC and conventional machines including all types of turning, milling, deep hole drilling, grinding, honing, minor assembly work, gear manufacture along with material procurement, management and control of sub-contract processing including NDT, EDM, heat treatment and coatings. Ensuring that the resultant service achieves a standard that complies with customer requirements, the company complies with all national/international standards and all subsequent revisions, including the Health and Safety at Work Act 1974 and the aerospace standard AS9100 and BS EN ISO9001.

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**Paul Fabrications Ltd**

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Paul Fabrications manufactures complex fabricated and machined assemblies for the aerospace, industrial power generation and nuclear power sectors. Operating from a modern 60,000 sq ft facility it prides itself on exceeding customers expectations, consistently achieving class-leading quality and delivery performance. Manufacturing utilises computer aided processing, with 5-axis laser cutting and 5-axis CNC machining as core business competencies. With over 40 manufacturing processes in-house you gain an appreciation of the breadth of engineering capability available. Approved to AS9100 Rev C with five supporting NADCAP accreditations and multiple OEM approvals, an ongoing commitment to investment ensures that the latest manufacturing technologies are utilised.

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Perfect Bore Manufacturing Limited

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Subcontract deephole boring, gundrilling, honing, superfinishing, internal lapping, CNC datum turning.

Steve Amey
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Peterson Spring Europe Ltd

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Peterson Spring is a manufacturer of engineered metal products. The product range includes springs (compression, extension & torsion), pressings & stampings, wire forms, rings clips & clamps and assemblies.

Nick Scroggs
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Companies producing flying systems and parts

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CNC machining and fabrication of aerospace parts and components using 5, 4 & 3 axis machines. The company specialises in fast response at reasonable prices. We utilise two CMM inspection machines to ensure a quality product. Current approvals include AS EN 9100, ISO 9001 2008 and Airbus.

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t: 01432 279373
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PK Engineering has expertise and experience in a wide range of technology and industry sectors. The company is focused on CNC precision machining of component parts in batch sizes for customers' delivery schedules, kanban or as required for single event contracts. We have a good understanding of all types of materials including a comprehensive range of stainless steels, aluminium alloys and polymers. With an extensive list of approved suppliers for treatments/ metal finishing we will provide finished components of genuine excellence to your door via our own transport. Aerospace and defence products include antenna, horn, radome, piston, and filter components, via prime subcontractors for M.O.D., civil and military aircraft.

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Pre-met is one of the largest precision engineering companies in the U.K. and Europe. We specialise in contract metal presswork and metal stampings which enables us to manufacture precision metal components of a complex nature for Aerospace customers around the globe. Based at Redditch in the heart of England we are able to offer: prototyping, tool design and in-house tool production, component design and production feasibility evaluation, a comprehensive tool transfer service, efficient high quality manufacturing, low and high volume production, assembly & lead wire services, moulding and machining. AS9100 accredited and SC21 Bronze Award holder

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Preci-Spark Ltd

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Preci-Spark is a process based company specialising in forming, laser machining, EDM and vacuum brazing. The company has a comprehensive CNC machining capability. Core component competences include the manufacturing and supply of honeycomb seal assemblies, cooling inserts, stator vanes/assemblies together with a very extensive sub-con capability. The company holds the UTC Supplier Gold standard and meets all class leading performance monitors.

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P R E C I S I O N



Precision Micro Limited

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Precision Micro has over 40 years experience in the manufacture of precision components for safety critical systems. Our process technologies include chemical etching, electroforming, wire EDM and technical finishing and plating. Typical components manufactured include heat sinks, grilles, heating elements and electronics components, all from a wide range of aerospace grade materials, such as high tensile stainless steels, heat resisting steels, aluminum, aluminum bronze, aluminum lithium, titanium, beryllium copper, phosphor bronze, Inconel®, Nimonic® and Incoloy® alloys. Precision Micro is registered to comply with AS9100, has CAA approval and has accredited supplier status from a large number of major international companies.

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Pro-Tek Engineering Ltd

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Supplying precision components to numerous industries including defence, aerospace, satellite systems, turbine components, pipeline fittings to complex and critical rapid prototype components for research facilities. A well established manufacturing site with machining capacity that extends from single components to high volume quantities in most materials including aluminium, stainless steel, titanium, composites, castings and other exotic materials. A skilled workforce combined with modern CNC turning and 4/5 axis machining centres complete with measurement probes, supported with the latest conventional 5 axis CMM and CNC non contact vision measurement systems.

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PRP Optoelectronics

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PRP Optoelectronics is a specialist manufacturer of high quality LED-based systems for the most demanding applications in the military and commercial avionics, industrial and medical sectors. Our products are able to meet the most stringent levels of reliability and lifetime, even when operating in adverse environments. We offer a complete end-to-end design service – from chips right through to hardware and software integration. We also manufacture a range of both custom and standard hybrid and monolithic LED devices, optical and electronic hardware, and software.

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Ricardo UK Limited

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Ricardo High Performance Transmission Products is an approved sub-contract manufacturing company to the aerospace industry. We are approved to ISO 9001:2000, AS 9100 Revision B, and we specialise in the manufacture of high-quality gears and splined shafts that are produced in all kinds of materials. We have the added advantage of being able to grind gear profiles from solid, thus eliminating the lead time required for cutting tools. Added to this we also have in-house "high speed" 5 axis, 4 axis and 3 axis milling capabilities.

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Rolls-Royce PLC

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Rolls-Royce is a world-leading power systems company operating in civil aerospace, defence, marine, energy and nuclear markets. In civil aerospace Rolls-Royce offers the industry's broadest range of engines and more than 600 airlines rely on Rolls-Royce power, including 9 of the world's top 10. The installed civil engine base is 12,500 and engines for both the Boeing 787 Dreamliner and Airbus XWB programmes are in development. In defence aerospace we are involved in many of the major global programmes, powering approximately 25% of the world's military fleet and have 16 engine programmes in different stages of development, production or service.

RTI International Metals Ltd

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RTI International Metals Inc are a USA based titanium manufacturer that produces titanium mill products including sheet, plate, bar and billet and bloom from multiple facilities in North America. RTI is a true integrator, with the ability to provide turnkey finished components direct to line for the aerospace, aircraft, military, oil & gas, medical and industrial markets. RTI provides value added activities including waterjet cutting, sawing, extrusion, machining, super plastic forming, hot forming and fully managed engineering solutions with project management. RTI also offer material solutions for steel, nickel based alloys and other hard metals throughout our distribution network including locations in Los Angeles, St Louis, Connecticut, Birmingham and Paris.

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Rudd Macnamara

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Suppliers of labels and nameplates to the aerospace industry for over 50 years. We are certified to BS EN ISO 9001:2008, and hold customer approvals including: Rolls-Royce Plc - SABRe, Rolls-Royce Deutschland - SABRe & Goodrich Actuation Systems. We also supply Bombardier, Serck Aviation, HS Marston and other aerospace companies. We have the broadest process capability in the industry, for example - etching of stainless steel, brass and aluminium nameplates, data plates, sulphuric anodising of aluminium labels and plates, screen, lithographic and digital printing of labels and plates on metals and plastics, fabrication of parts using on site press shop facilities & 2D data matrix marking and bar coding.

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S & J Precision Ltd

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High quality CNC component manufacturing and jig/fixture production for all aspects of aviation and military equipment. 5-axis components production a speciality.

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Semelab Limited

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Semelab Limited has been a leading provider of high-end, innovative electronic solutions since 1974. A diverse, worldwide customer base benefits from our design innovation, our manufacturing strength and our total commitment to quality. Customers around the world are using Semelab devices in equipment such as space vehicles, aircraft equipment (both civil and military), telecoms and industrial power electronics. Specialists in: power modules; power diodes and MOSFETs; high reliability and space products; standard and custom discrete solutions; high performance RF MOSFETs; standard and custom opto devices.

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Shaw Sheetmetal (Rugby) Ltd

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t: 01788 536033
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Sheet metalwork and fabrication including in-house CNC laser cutting, punching, folding, machining and electro powder coat painting.

Phil Shaw
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Companies producing flying systems and parts

SIFCO Applied Surface Concepts (UK) Ltd

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SIFCO Applied Surface Concepts are a global leader in the field of selective brush plating. They offer in-house or on-site services for brush plating of components whether it be new part enhancement or repair to damaged or worn parts. They are also able to offer brush plating chemicals and equipment along with training courses on selective brush plating methods.

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Sigma Precision Components UK Ltd

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Sigma Precision Components UK Ltd manufactures rigid pipe assemblies, precision machined components and fasteners for aerospace and other markets. From simple components to complex assemblies of rigid pipes and fabrications, we have 100 employees and 50,000 sq ft of modern facilities. Our specialist processes include tube manipulation, fabrications, machining, welding, brazing, NDT, X-ray etc. Among our approvals are AS9100, NADCAP, ISO 14001, Rolls-Royce etc. Access to our sister company Chengdu Sigma Precision Components in China allows us to offer local supply whilst offering the highest possible value to our clients where we hold a leading position in our chosen markets.

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SL Engineering Ltd provides a full in-house solution for the manufacture of rigid tube assemblies and precision machined components for the aerospace and industrial gas turbine markets. Capabilities include CNC tube manipulation, CNC multi-axis precision machining, computerised orbital / manual tig welding, brazing, CatiaV5 CAD/CAM systems directly linked to contact / laser non-contact CMMs, pressure testing (nitrogen, hydraulic and air), and radiographic / dye-penetrant NDT inspection. With AS9100 and NADCAP approvals, over 50 years experience and state of the art plant and equipment, we have an internationally recognised reputation for producing very competitively priced high quality products used on many of today's leading aerospace programmes.

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Smiths Metal Centres Ltd

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Smiths Metal Centres is a stockholder and supplier of all forms of aluminium, brass, bronze, copper and steel as well as many other metals and plastics. Whatever alloy, grade, shape, size or specification, we aim to have it in stock and ready to be dispatched today. We offer many supply options and processing services that can enable our customers to make significant cost savings.

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Staffordshire Precision Engineering Ltd

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Staffordshire Precision Engineering utilise the latest CNC machine tools, a dedicated and highly skilled work force together with highest quality accreditations to produce high precision components for numerous different industries.

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Surface Technology Plc

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Surface Technology plc provide specialist surface coatings as part of a group of specialised coating companies comprising Armourcote, Surface Technology, AST and Ultraseal. We are dedicated to providing surface and corrosion resistant coatings. We provide high performance coatings across the globe. We provide a range of coating and plating services, with over 40 years experience in the development and application of high performance surface treatments, we have gained a reputation as a leading global supplier in the development and application of surface coatings for clients across a broad spectrum of industries.

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Tamworth Heat Treatment Ltd

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Vacuum heat treatment and surface engineering for aerospace, defence and specialist component manufacturers.

Alan Whitehouse
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Technetics Group UK

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Technetics Group UK, formerly Wide Range Elastomers, provides innovative elastomeric sealing solutions for aerospace and defence applications. An extensive range of capabilities, including moulding, hand-fabrication, extrusions and calendaring are available and produced in a comprehensive range of synthetic and natural rubber compounds, with the ability to incorporate reinforcement textiles, metals and composites where required. Sub-assemblies, kitting and direct line feed services are all offered to provide the most effective means of supply with solutions being tailored to suit specific customer requirements.

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Techniswage Ltd

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A leader in tube end forming and tube manipulation. Serving several blue chip aerospace companies, we are involved in the manufacture of over forty different aircraft parts, working in metals including stainless steel, titanium, aluminium alloys and most carbon steels.

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Technoset Ltd

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Manufacturers of high precision turned and milled components and assemblies mainly for aerospace and defence, telecoms, motor sports and medical industries.

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Tekdata Interconnections Limited

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Turnkey outsourcing capability for avionics, defence, space and autosport. Capabilities are almost unrivalled in breadth, including electric/electronic cable and harness design, qualification, rapid prototyping and manufacture (copper, fibre optic, metal alloys and cryogenic), complex cabinet/box assembly, test, commissioning, repair and maintenance. With its Cryoconnect products, Tekdata is one of very few companies meeting NASA's demanding standards for interconnection systems. Tekdata designs solutions to function, size, weight, routing and/or cost. Tekdata operates from a UK 40,000 sq ft facility on a prestigious industrial site and holds certification to AS9100 REV C and ISO 9001:2008 and approvals (including preferred supplier status) from major aerospace, space and military primes.

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Heat treatment services: thermal processing of ferrous and non ferrous materials; stress relieving; annealing; normalising; tempering; age hardening; solution treatment. From 1 kilo to 30 ton furnace charges, lengths up to 8m. 10 ton maximum single lift. Fabrications, tooling, machined components, springs, fasteners, raw materials, castings, forgings, pressure vessels, patterns.

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Thyssenkrupp Aerospace supplies aluminium, special steels and titanium processed to near net shape and delivered on a just-in-time basis. Further value is added by working with customers to optimise their metal usage, reduce their transitional costs, eliminate their inventory and manage their supply chain.

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TIMET is the world's largest supplier of high quality titanium metal products. With its unique combination of strength, light weight, corrosion resistance and other metallurgical properties, titanium is used in hundreds of diverse aerospace, industrial and emerging applications where no other metal is as reliable or economical, especially on a lifecycle costing basis. As a fully-integrated titanium manufacturer and distributor, TIMET's activities span every phase of titanium research, manufacturing and sales. We convert rutile ore into sponge; melt and refine ingot and slab; manufacture mill products; and distribute our products globally.

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A leading supplier of friction management and power transmissions solutions to OEMs and aftermarket services.

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Titanium Industries are world-wide stockholders and processors of titanium bar, titanium plate, titanium sheet, titanium wire, titanium tube, titanium pipe and fittings in all grades and specifications. We have 14 locations worldwide. Full processing facilities with various stocking programs and quick delivery. Bar cutting, plate sawing, water jet cutting. Titanium Industries has a wide range of OEM approvals and was recently awarded AS9100 Rev C approval. We welcome your enquiries.

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t: 01952 677372
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Nitriding Services was the first Nadcap approved plasma nitriding facility in Europe. This development is part of a group-wide extension of aerospace and defence industry quality accreditation for all the heat treatment and surface engineering services on offer; and is in response to the increasing demand for independent, third-party certification of the manufacturing supply chain within these sectors.

Martin Dyson
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Companies producing flying systems and parts

Tufnol Composites Ltd

Wellhead Lane
Perry Barr
Birmingham
West Midlands
United Kingdom
B42 2TN
t: 0121 356 9351
w: www.tufnol.com

Tufnol Composites Ltd manufacture laminated plastics and composite materials for engineering applications, including phenolic, epoxy, silicone and polyimide resins with glass, cotton and paper reinforcements. We have a comprehensive facility for machining these and other high performance engineering plastics.

Roy Thomason
e: r.thomason@tufnol.co.uk

Turnell & Odell Limited

Sanders Road
Finedon Road Industrial Estate
Wellingborough
Northamptonshire
United Kingdom
NN8 4NL
t: 01933 222061
w: www.toengineering.co.uk

With over 100 years experience in the machining of precision engineering components, Turnell & Odell Ltd. is one of Europe's leading suppliers to the engineering and technology sector, offering a comprehensive sub-contract and repair facility. Turnell & Odell Ltd. offers specialist low volume prototype development as well as high volume manufacturing, and is equipped with a broad range of modern CNC machinery. Our philosophy is to keep abreast of advanced engineering techniques by continuous investment in the latest technology, embracing CNC turning, milling/ machining centres, borers, grinders, and other secondary operation machinery.

Stuart Fyfe
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Ultra Electronics PMES

Towers Business Park
Wheelhouse Road
Rugeley
Staffordshire
United Kingdom
WS15 1UZ
t: 01889 503300
w: www.ultra-pmes.com

Ultra Electronics PMES, based in Rugeley Staffordshire, provide a number of key products to support the aviation industry. Ultra's range of magnetic heading sensors provide accurate directional information for navigation systems used in helicopters, unmanned air vehicles, underwater vehicles and towed sensor systems. Ultra also provide a range of aircraft ground services with high performance electrical power management solutions. Ground service solutions are available for Merlin, Lynx, Super Lynx and the new Joint Striker Fighter.

Andrew Thompson
e: andrew.thompson@ultra-pmes.com

UTC Aerospace Systems - Actuation Systems

Stafford Road
Fordhouses
Wolverhampton
West Midlands
United Kingdom
WV10 7EH
t: 01902 624 644
w: <http://utcaerospacesystems.com/about/actuation-systems/>

UTC Aerospace Systems has a global market lead in the design, manufacture and through-life support of actuation systems for large commercial, regional, business and military aircraft as well as for helicopters and precision weapons. We develop and supply primary and secondary flight control systems, trimmable horizontal stabiliser actuation (HSTA or THSA), high lift (flap and slat) actuation systems, thrust reverser actuation and main and tail rotor and fuel and hydraulic system actuation as well as products for a variety of niche requirements.

Harriet Wollerton
e: harriet.wollerton@utas.utc.com

UTC Aerospace Systems - Marston Aerospace

Wobaston Road
Fordhouses
Wolverhampton
Staffordshire
United Kingdom
WV10 6QJ
t: 01902 572777
w: www.hsmarston.co.uk

Design, manufacture and repair of heat exchangers, ozone converters and fluids management components and systems (PTFE and metallic hose, fuel manifolds, rigid tube assemblies, ducting, lightning insulators) for the aerospace, motorsport and electronics industries

David Danger
e: david.danger@utas.utc.com

Valbruna UK Limited

Oldbury Road
West Bromwich
West Midlands
United Kingdom
B70 9BT
t: 0121 5535384
w: www.valbruna-stainless-steel.com

Valbruna Stainless Steel, leader in the steel industry and both supplier and producer of stainless steel and special metal alloys, is a privately owned company with over 1,500 employees and production of more than 170,000 tons of special high quality steels. Founded in 1925, Valbruna Stainless Steel maintains its original business strategy of serving niche markets with high quality products and dedicated service to its clients.

Keith Underhill
e: keith.underhill@valbruna-uk.com

Wallwork Heat Treatment Limited

Sydenham Road
Small Heath
Birmingham
West Midlands
United Kingdom
B11 1DG
t: 0121 6282552
w: www.wallworkht.com

Wallwork Heat Treatment operates a 24/7 fully integrated process house that encompasses a comprehensive list of aerospace approved thermal treatments, such as vacuum harden, age harden, solution, precipitation harden, nitride, Tufftride, case harden and annealing of components of various materials. All processing takes place to the exacting standards set out by NADCAP and OEMs such as Rolls-Royce, BAE Systems, Airbus, Bombardier and AgustaWestland. These high end processes are complemented by our lab facilities providing testing and quality monitoring. The Wallwork transport network also allows work to be collected in the majority of the UK and our in-house metallurgical services support the customer before, during and after treatments.

Howard Maher
e: howard.maher@wallworkht.com

Wheelabrator Impact Finishers

Unit 5 Sandy Lane Business Park
Sandy Lane
Coventry
West Midlands
United Kingdom
CV1 4DQ
t: 02476 258 811
w: www.wheelabratorimpact.com

Wheelabrator Impact Finishers is the specialized sub-contract supplier to industries requiring outsourced, controlled, automated shot peening services. Our expertise comprises: shot peen forming, correction peening, peen straightening and a full range of fatigue enhancement shot peening. Specialising in meeting demanding timescales, including emergency turnarounds, our unrelenting emphasis on quality is never compromised. We have an extensive list of approvals, including NADCAP, and are justifiably proud of the high levels of service which we provide to our customers.

Tony Grammauro
e: impact@wheelabratorgroup.com

Winbro Group Technologies Limited

Whitwick Business Park
Stenson Road
Coalville
Leicestershire
United Kingdom
LE67 4JP
t: 01530 516000
w: www.winbrogroup.com

Winbro is a global leader in providing advanced manufacturing systems and production services for the machining of cooling holes, forms and features in components for the gas turbine industry based upon VIPER creep feed grinding, laser drilling and ablation (milling), high speed EDM (electro discharge machining) and ECM (electro chemical machining) processes. Winbro has installed over 1,000 machine systems in 16 countries on 3 continents. Winbro Advanced Machining (WAM) in the UK and USA provides extensive subcontract component manufacturing services for turbine components using the latest developed technology from all our product areas covered by ISO9001, AS9100C and NADCAP accreditation.

Alan Duffield
e: aduffield@winbrogroup.com

WTI Fasteners Ltd

7 Marquis Court
Rawdon Business Park
Moiria
Derbyshire
United Kingdom
DE12 6EJ
t: 01283 215588
w: www.wireinserts.com

WTI Fasteners Ltd is a UK based company, established 20 years ago as a specialist manufacturer of helically coiled wire thread inserts. Produced from high quality materials the insert provides a high performance internal thread which resists the effects of temperature and corrosion. Registered to ISO 9001:2008 the WTI mission is to supply excellent products, and combine that with a high level of customer service, and technical support.

Jo Mason
e: jo@wti-fasteners.co.uk

Wye Valley Precision Engineering Ltd

Station Approach
Ross on Wye
Herefordshire
United Kingdom
HR9 7AQ
t: 01989 763519
w: www.wye-valley.co.uk

A family business in its third generation manufacturing precision rubber components in a very wide variety of polymers. Mould tools are produced on site in our own toolroom and we have the capability of mixing raw materials on site. The 30,000 sq. ft. factory houses all the necessary injection and compression machines and associated equipment to produce short or long runs for the electronic, military, medical, commercial and automotive applications together with aerospace applications where high performance elastomers are required.

Paul Nelson
e: paul.nelson@wye-valley.co.uk

Companies producing flying systems and parts

Company Capabilities	Company																									
	A & M EDM Ltd	Abbey Metal Finishing Co Ltd	Accrofab Ltd	Acorn Surface Technology Ltd	ActOn Finishing Ltd	Advanced Chemical Etching Limited	AE Aerospace Ltd	Aero Engine Controls	Aerocom Metals Limited	Aeromet International Plc	Alkzo Nobel/Aerospace Coatings Ltd	Alloy Heat Treatment Ltd	Alloy Wire International	Aluminium Special Products Limited	ANT Industries	Arrowsmith Engineering (Coventry) Ltd	Ashton & Moore Ltd	Atlas Composites Limited	Bodycore Heat Treatments Ltd	Bohler-Uddeholm (UK) Limited	British Rema Processing Ltd	Bromford Industries Ltd	Bulwell Precision Engineers Ltd	Burcas Ltd	C & H Precision Finishers Limited	Caparo Accles & Pollock Ltd
Adhesives & Coatings	•	•	•	•						•	•						•				•		•			
Armaments and Related Equipment				•						•								•							•	
Autoflight Systems & Equipment				•			•											•								
Communications Systems & Equipment				•														•								
Control Systems & Equipment			•	•			•																	•		
Electrical Cable Accessories/Electrical Harnesses				•				•										•								
Electrical Panels & Electrical Components				•				•										•								
Electrical Power Systems & Equipment				•				•																•		
Engines	•	•	•	•			•	•		•					•	•		•					•	•	•	•
Equipment-Furnishings				•														•								
Flight Training																		•								
Fuel & Fuel Systems				•				•										•								
Fuselage		•					•			•	•				•			•					•	•		•
Ground Systems and Equipment				•														•								
Hydraulic Systems & Equipment				•			•																•			
Indicating, Data & Recording Systems																		•								
Landing Gear				•																			•			
Material Manufacturer			•			•				•				•		•		•			•	•				
Material Supplier													•					•							•	
MRO		•				•				•					•	•		•			•			•		
Navigation Systems & Equipment																										
Processes & Shapes	•	•	•	•	•	•	•			•		•		•		•	•	•	•		•	•	•	•	•	•
Propellers & Rotors				•											•			•				•				•
Safety and Rescue Systems & Equipment																		•								
Services		•															•	•							•	
Space Systems and Equipment																		•								
Standard Parts	•		•												•			•					•	•		
Tooling & Testing/Test Equipment		•	•	•												•	•	•	•	•			•	•	•	•
Windows																										
Wings											•							•								
Industry Approvals																										
AS/EN/JISQ 9100	•	•	•	•	•			•						•	•	•	•	•	•		•					•
AS/EN/JISQ 9110								•																		
AS/EN/JISQ 9120																										
ISO 14001		•	•		•	•		•				•		•		•	•	•	•	•		•	•	•	•	•
ISO 17025																										
ISO 9001	•	•	•	•	•	•		•		•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ISO 9002																										
ISO 9003																										
Part 145								•															•			
Part 21								•															•			
Part 66																										
NADCAP	•	•	•	•				•		•		•			•	•		•		•	•		•	•	•	•
Customer Approvals																										
AgustaWestland				•			•			•		•		•		•		•		•		•	•	•		
Airbus		•		•			•	•		•		•		•		•		•		•		•	•	•	•	
BAE Systems		•		•			•	•		•		•		•		•		•		•		•	•	•	•	
Boeing		•		•				•		•		•		•		•		•		•		•	•	•	•	
GE								•					•				•		•				•	•	•	
GKN				•			•			•			•		•		•		•				•	•	•	
Goodrich		•		•			•			•		•		•		•		•		•		•	•	•	•	
Lockheed		•								•							•		•				•	•	•	
Messier-Dowty		•		•						•								•					•	•	•	
Moog							•										•		•				•	•	•	
MTU																		•		•			•	•	•	
Northrop Grumman														•												
Pratt & Whitney																	•		•				•	•	•	
Rolls-Royce		•	•	•	•		•	•		•		•		•		•	•	•	•	•			•	•	•	•
Snecma		•																•				•	•	•	•	
Other																			•							

Companies producing flying systems and parts

Company Capabilities	Company																												
	Indestructible Paint Limited	Invotec Circuits (Tamworth) Limited	ITP Engines UK Limited	JJ Churchill Ltd	Kepston Limited	Kigass Aero Components Ltd	KMF Precision Sheet Metal Limited	Knight Strip Metals Limited	Manthorpe Engineering Ltd	Maycast Nolkes Precision Engineering Ltd	Meggitt	Metal Spinners Group Ltd	Mertis Aerospace Limited	MG Sanders Limited	Micro Spring & Presswork Ltd	Micrometric Limited	MJ Sections Limited	Moog Aircraft Group	MP Engineering UK Limited	Nasmyth Group Limited	NMB-Minebea UK Limited	O.L.D Engineering Limited	Osborn Metals Limited	PAB Coventry Limited	Paragon Engineering & Logistics Ltd	Paul Fabrications Ltd	Perfect Bore Manufacturing Limited	Peterson Spring Europe Ltd	Phoenix CNC Engineering Ltd
Adhesives & Coatings	•																												
Armaments and Related Equipment		•		•									•	•	•								•		•				
Autoflight Systems & Equipment		•			•										•			•											
Communications Systems & Equipment		•												•	•							•							
Control Systems & Equipment		•	•			•							•		•			•											
Electrical Cable Accessories/Electrical Harnesses		•	•									•																	
Electrical Panels & Electrical Components		•					•																						
Electrical Power Systems & Equipment					•								•		•			•											
Engines	•	•	•	•	•	•			•			•	•	•	•		•									•			
Equipment-Furnishings		•					•						•		•														
Flight Training																													
Fuel & Fuel Systems																													
Fuselage													•	•			•								•		•		•
Ground Systems and Equipment									•																				
Hydraulic Systems & Equipment			•		•								•		•			•											
Indicating, Data & Recording Systems		•													•														
Landing Gear					•								•														•		
Material Manufacturer							•		•				•	•	•	•	•						•		•			•	
Material Supplier	•							•					•										•						•
MRO			•										•												•	•			
Navigation Systems & Equipment		•																											
Processes & Shapes	•		•	•	•	•			•	•		•	•	•	•	•	•	•		•				•	•	•	•	•	•
Propellers & Rotors			•	•									•																
Safety and Rescue Systems & Equipment	•													•	•														
Services			•													•													
Space Systems and Equipment		•																											
Standard Parts					•	•			•			•	•	•	•		•								•	•		•	
Tooling & Testing/Test Equipment			•	•	•				•				•	•			•								•	•			
Windows													•																
Wings																													
Industry Approvals																													
AS/EN/JISQ 9100	•	•	•	•	•	•			•			•	•	•	•	•	•	•					•	•	•	•	•	•	•
AS/EN/JISQ 9110												•																	
AS/EN/JISQ 9120								•																					
ISO 14001	•	•	•	•		•						•					•						•					•	
ISO 17025																													
ISO 9001	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•					•	•	•	•	•	•	•
ISO 9002																													
ISO 9003																													
Part 145												•																	
Part 21												•																	
Part 66																													
NADCAP		•	•	•		•				•			•		•		•	•								•			
Customer Approvals																													
AgustaWestland	•							•				•	•				•	•					•				•		•
Airbus	•				•			•		•		•	•	•	•	•	•	•					•	•	•	•	•	•	•
BAE Systems	•	•		•	•			•	•	•	•	•	•		•		•	•					•	•	•	•	•	•	•
Boeing	•											•	•	•	•	•	•	•					•	•	•	•	•	•	•
GE	•	•	•											•									•				•		•
GKN													•																•
Goodrich	•	•	•		•	•			•			•	•	•	•	•	•	•							•	•	•	•	•
Lockheed	•								•				•																•
Messier-Dowty	•							•				•						•											•
Moog	•	•													•											•	•		•
MTU	•		•			•					•												•						
Northrop Grumman																													
Pratt & Whitney	•		•																										
Rolls-Royce	•	•	•	•		•		•	•	•	•	•	•	•	•	•	•	•					•	•	•	•	•	•	•
Snecma	•																						•						
Other																													

Companies offering specialist support services and equipment

ENGINEERING AND DEVELOPMENT SERVICES

Aernnova Engineering UK Ltd

14 Commerce Road
Lynch Wood
Peterborough
Cambridgeshire
United Kingdom
PE2 6LR
t: 07972242631
w: www.aernnova.com

Aernnova is a leading, global aerostructures company focused on the design and manufacture of aircraft structures and systems. The Aernnova Group can provide a complete programme service from conceptual design, through testing and certification, into prototypes and full production runs. In particular, the design and manufacture of structures and light-weight components in advanced composite materials is offered not only in the aerospace sector but also to customers in the automotive, rail, defence and energy sectors. Aernnova has established a new division to bring its global services to the UK market, including R&D investment in new technology.

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Altran UK Ltd

Business Innovation Centre
Binley Business Park
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t: 02476 430300
w: www.altran.co.uk

Altran is a trusted innovation and engineering partner of leading businesses throughout the aerospace and defence sector world-wide. We also work closely with organisations in the energy, life sciences, automotive, rail and telecoms sectors. Our mission is to enable organisations throughout these sectors to develop and deploy leading-edge systems, products and services. We add unique value to our clients by constantly pushing the boundaries of technological innovation, minimising development cost and time to market, and assuring the highest levels of safety and integrity.

Denton Clutterbuck
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Ansys UK Ltd

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6 Europa View
Sheffield
South Yorkshire
United Kingdom
S9 1XH
t: 0114 2818888
w: www.ansys.com

ANSYS brings clarity and insight to customers' most complex design challenges through fast, accurate and reliable engineering simulation. Our technology enables organisations — no matter their industry — to predict with confidence that their products will thrive in the real world. Customers trust our software to help ensure product integrity and drive business success through innovation. We focus on simulating the complete product to help customers accurately model and confidently predict real-world performance. Our proven tools are what engineers rely on most to ensure product integrity and product dominance.

Russell King
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BHR Group

BHR Group - VirtualPIE Limited
The Fluid Engineering Centre
Cranfield
Bedfordshire
United Kingdom
MK43 0AJ
t: 01234 750422

BHR Group is a UK company providing independent consultancy, research and product development services based on expertise in fluids technology. We provide integrated solutions on many aspects of engineering design and operation covering aero-structures, turbo-machinery, actuation and sealing systems, fluid distribution systems and combustion. Our team of multi-disciplinary experts and external consultants employ advanced modelling tools, analytical techniques and test facilities to deliver solutions tailored to your needs. A well established company, we have built a loyal customer base in many industrial sectors and across the globe based on a reputation for providing effective solutions to complex engineering challenges.

Gerry McNulty
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CNR Services International Ltd

6 Spencer Avenue
Mapperley
Nottingham
Nottinghamshire
United Kingdom
NG3 5SP
t: 0845 009 8633
w: www.cnrdesign.co.uk

CNR delivers leading-edge engineering design services to a wide range of industry sectors. From concept generation and development, through the design and optimisation of the product, to the effective integration into the manufacturing process, CNR's dedicated team of specialist engineers, designers and analysts will help you achieve the results you are looking for.

Chris Reckless
e: creckless@cnrdesign.co.uk

Eminate Limited

Sutton Bonington Campus
Sutton Bonington
Leicestershire
United Kingdom
LE12 5RD
t: 0115 7484130
w: www.eminate.co.uk

Eminate is dedicated to the design and commercial application of micro and nano particles, coatings and powders. The business operates across a range of sectors, including: food and ingredients, health, pharmaceuticals and energy storage. Our research and development teams work in partnership with a number of companies, universities and research organisations to develop new products and provide innovative solutions to commercial challenges. We are based in the East Midlands with offices, a fully equipped research laboratory and state of the art production facilities in Sutton Bonington and Nottingham.

Nick Botterill
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LMS UK Ltd

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Coventry
West Midlands
United Kingdom
CV5 9AB
t: 02476 408120
w: www.lmsintl.com/UK

Provider of engineering products and services for aircraft design and testing.

Leigh Gillard
e: leigh.gillard@lmsintl.com

Morson Projects Limited

Midlands Engineering Centre (MEC)
Trinity 3
Solihull
West Midlands
United Kingdom
B37 3ES
t: 0121 460 3900
w: www.morson-projects.co.uk

Multi-disciplined engineering consultancy providing turn-key project managed technical expertise. Specialist in systems engineering, design and analysis, structure design and analysis, tooling, process and support.

Mark Johnstone
e: mark.h.johnstone@morson-projects.co.uk

Resource Group Limited

Temple House
Whittington Hall
Worcester
Worcestershire
United Kingdom
WR5 2RY
t: 0845 375 2500
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Resource Group, established over 20 years ago, is an international supplier of high-end technical and operational resources to the aerospace, aviation and defence sectors providing engineering, manpower and training solutions. Resource Group has established a leading position within the market working with large aircraft manufacturers and tier 1 suppliers. Our software and systems engineering division provides outsourced capabilities for real-time embedded safety-critical software and systems development. We operate in a range of niche markets including aerospace, defence, nuclear, rail and automotive. Manpower supply includes aircrew, professional licensed engineers, production, maintenance technicians, security cleared personnel and other specialist staff.

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VirtualPIE Ltd

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WV1 4QP
t: 07917804630
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VirtualPIE Limited (trading as BHR Group) is a UK company providing independent consultancy, research and product development services based on expertise in fluids technology and fluid-structure behaviour. We provide integrated solutions for many aspects of engineering design and operation covering aero-structures, turbo-machinery, actuation and sealing systems, fluid distribution systems and combustion. Our team of multi-disciplinary experts and external consultants employ advanced modelling tools, analytical techniques and test facilities to deliver solutions tailored to your needs. A well established company, we have built a loyal customer base in many industrial sectors and across the globe based on a reputation for providing effective solutions to complex engineering challenges.

Gerry McNulty
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PRODUCT AND MATERIAL TESTING SERVICES

CERAM

Queens Road
Penkhull
Stoke-on-Trent
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t: 0845 0260902
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Materials testing, analysis and consultancy, Metals, advanced ceramics, composites, polymers, powders. Materials selection, development of lightweight materials, computational modelling, novel processing, components/systems verification, depth profiling of coatings, tribological analyses in lubrication and wear, components cleanliness validation, QC testing, contamination and bonding analyses of electronic devices, failure analysis.

John Cotton
e: john.cotton@ceram.com

Glass Technology Services Ltd (GTS)

9 Churchill Way
Sheffield
South Yorkshire
United Kingdom
S35 2PY
t: 0114 290 1801
w: www.glass-ts.com

A centre for glass research and development, Glass Technology Services is an independent glass laboratory and consultancy accredited to ISO:9001, ISO:14001 and ISO:17025 quality standards and unrivalled in the UK for its glass expertise. The specialist team provide a range of services to analyse defects, composition and contamination, resolve issues, conduct research and verify international quality standards for glass, coatings and glass products. Expert analysis and assessment is conducted by a dedicated team of scientists, who have specialist knowledge in glass, including manufacture, processing, material sciences, chemistry, physics and engineering disciplines and together hold over 380 years collective glass experience.

Philip Marsh
e: p.marsh@glass-ts.com

NDT Services Limited

Unit 10 Victory Park
Victory Road
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DE24 8ZF
t: 01332 275700
w: www.ndtservices.co.uk

NDT services Ltd is now one of the most approved materials testing organisations in Europe covering all aspects of non destructive testing and supported by a comprehensive mechanical and metallurgical inspection facility. Company approvals include: UKAS, NADCAP, CAA and FAA. NDT Services operates from two purpose designed test laboratories in Derby. A comprehensive site service covering all NDT disciplines to support our customers anywhere in Europe is also offered. We have moved into a new 33,000 sq ft facility in Derby. In addition to our existing NDT capabilities enhanced services now include: digital radiography, eddy current inspection of heat exchangers.

Peter Maiden
e: pete.maiden@intertek.com

Smithers Rapra and Smithers Pira Ltd

Shawbury
Shrewsbury
Shropshire
United Kingdom
SY4 4NR
t: 01939 250383
w: www.rapra.net

Smithers Rapra Limited is recognized as a world leading rubber, plastics and composites consultancy delivering a comprehensive and strictly independent service covering: design and material selection, material and product testing, chemical analysis, specialist production and funded research projects. Clients come from the polymer industry and industries using rubber and plastics in any component, product or production process.

Chris Hubble
e: chubble@rapra.net

Test and Measurement Experts Limited

1 Oakwood Court
Bundle Hill
Halesowen
West Midlands
United Kingdom
B63 4AR
t: 0208 7980491
w: www.TestAndMeasureExperts.co.uk

Reduce manufacturing costs by test and measurement automation sharpening your competitive edge with leading technology. We work with you from the moment of product conception, creating integrated test strategies for in-house testing and repair centres. Working in partnership with you to find the best solution for you, ensuring a smooth transition to the automated systems through following a clear process allowing for the systems to be easily qualified and proven within the most demanding environments.

Sammuel Yisrael
e: sammuel@testandmeasureexperts.co.uk

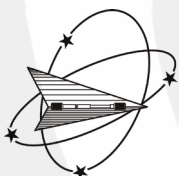
Companies offering specialist support services and equipment

TRaC

Rothwell Road
Warwick
Warwickshire
United Kingdom
CV34 5JX
t: 01926 478478
w: www.tracglobal.com

TRaC is a market leading group of testing, regulatory and compliance laboratories, providing full environmental testing, EMC testing, safety testing and FEA services to the global aerospace and defence market. With UKAS accredited test laboratories located in Warwick and Malvern, TRaC provide a single source for turnkey qualification test programmes to international standards, including Def Stan 00-35 and 59-41 I, RTCA DO160E, MIL STD 810 and MIL STD 461. With our large range of climatic chambers, EMC chambers, and vibration shakers, TRaC can assist our customers testing components up to full military vehicles.

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Westmoreland Mechanical Testing & Research Ltd

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Westmoreland Mechanical Testing and Research Ltd is a leading materials test laboratory located in Banbury UK. WMT&R, accredited to UKAS 17025 and NAD-CAP, specialise in a range of materials from common metals and alloys through to aerospace alloys, composites, and adhesives amongst others. Tensile, fatigue and other mechanical/materials tests are performed at ambient sub-zero or elevated temperatures. WMT&R also specialise in materials failure analysis. WMT&R are the European subsidiary of WMT&R Inc.

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EQUIPMENT, TOOLS AND CONSUMABLES FOR ENGINEERING, PRODUCTION AND PRODUCT SUPPORT

Acres Engineering Limited

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Fabrication and engineering solutions. Acres are fully CAD enabled and have an integrated IT infrastructure to satisfy our partners' needs from design concept, manufacture and integrated automation to finishes such as shot blasting, powder coating, e-coating, chemical-blackening, anodizing, load testing and CE marketing. Products include but are not limited to; custom handling and lean engineering equipment, including maintenance, trolleys, trucks, dollies, jigs, fixtures, tooling racks, workbenches, workstations, test stations with electrics and hydraulics and automation, turnover frames, inspection lighting rigs, lifting fixtures, manipulator/gimbal arms with interlock switches, turbine blade cooling cabinets and baffle check jigs. See website for examples.

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Experts in: curing, drying, heat treatment oven/dryer systems to all aerospace specifications (composite specialists); dust and fume extraction systems to current HSE guidance; fume scrubbers and dust collectors; process environment control; process automation; energy recovery; LEV testing/repairs; energy saving reports/solutions; general fabrications and contract engineering.

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Established over 40 years ago, Arrow forms part of Reabrook Ltd and is a specialist British manufacturer of both off the shelf (COTS) & bespoke chemical solutions to the aerospace industry. With partnerships in both the civil and military theatres, Arrow have one of the most comprehensive range of original equipment manufacturer (OEM) approvals in the MRO environment, including Defence Standards and Aircraft Materials Specifications (A.M.S.). Arrow are accredited to ISO 9001:2008, ISO 14001:2004, BH OHSAS 18001.

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ATA Grinding are specialists in air tools and consumables products for the aerospace industry. We offer high quality tools for metal grinding and finishing applications. We are experts in improving processes, increasing productivity and reducing cost. Our additional services involve expert advice on health & safety, particularly HAVS and preventative maintenance. Alpine Abrasive is an independent specialist abrasive distributor servicing the aerospace sector offering impartial advice on your abrasive requirements. We supply all the major brands and supply you the best for your application.

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Brown & Holmes is an acknowledged leading supplier in the design and manufacture of workholding solutions offering everything from simple manual to complex hydraulic fixturing to many UK blue chip companies. With our depth of shop floor machining expertise we also offer a sub-contract machining service for small to medium batch sizes utilizing the latest CNC machine tool technology. Brown & Holmes is now also an exclusive agent for Forkardt and Fresmak Arnold workholding equipment in the UK and Ireland offering top quality standard and special rotary power chucking, expanding mandrels and steady rest packages.

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Carbolite

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Carbolite manufactures furnaces and ovens for the aerospace industry used in heat treatment applications. Carbolite has over 70 years of experience in the design and manufacture of electric laboratory and industrial furnaces, laboratory and industrial ovens and incubators. Our extensive portfolio includes both laboratory chamber/box furnaces & laboratory tube furnaces to 1800°C. Tube furnaces are available as single or multi-zone, horizontal/vertical, split & rotating models. A wide variety of tube diameters and tube heated lengths is available. Chamber/box furnaces are available in many sizes; models include high temperature furnaces, ashing/calcining furnaces, furnaces for the analysis of coal and coke and precious metals evaluation furnaces.

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Censol's unique managed and fully audited absorbent stations have proved to be major development in the cost effective management of oil and chemical spills on the shop floor. Each station can be customised to end user requirement with absorbent socks, pads, roll mats together with Rolls-Royce and Airbus approved dry and wet specialist wipers. Our range of wet wipes includes Wipemaster Wipe 2 approved to CSS 255 Type A & B and Wipemaster Wipe 3, an aqueous eco-friendly cleaner / degreaser approved to CSS 255 Type C. Both products are used for the safe and effective removal of grease, grime and marking inks from composites and metal components.

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Design and manufacture of special purpose test equipment, suppliers of hydraulic and pneumatic equipment. Test rigs for proof pressure, fatigue, endurance, impulse testing. General hydraulic component sales, repair and installations. Comar work with many Tier 1 manufacturers and have produced full Iron Bird systems as well as individual unit level machines.

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Craig Tools International Limited manufacture and distribute aerospace rotary cutting tools and associated aircraft tooling. Our primary focus is on the airframe manufacturing industry and aircraft MRO facilities. Craig Tools is the prime source for 'Microstop' cutting tooling and manufacture tools in high speed steel, cobalt, carbide tipped, solid carbide and polycrystalline diamond PCD. Following the acquisition of Bardolph Aircraft Tools in 2006 we are able to offer a comprehensive range of aircraft tools from our US based partner suppliers to the UK and European aerospace industries.

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CTR-Carbide Dies Ltd

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Established in 1973 and located in the heart of England, CTR Carbide Dies Ltd manufacture carbide and steel machine tooling for the aerospace fastening industry which we export world-wide. We specialise in the manufacture of complete tool kits and offer a fast turnaround service, helping our customers achieve their own schedules on-time and in full, which is why we are one of the largest fastener tool manufacturers in the world today. We produce tools like forming-, extrusion-, heading-, drawing-, trimming dies, punches, cases & sleeves, transfer fingers & KO pins, ejectors & cut off knives.

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Cullum Detuners Limited specialise in the design, manufacture, installation and commissioning of noise control equipment associated with gas turbines and in particular have over sixty years experience supplying jet engine test facilities, hush houses, silencers and other bespoke testing equipment associated with the aircraft industry. One of our most significant test cell projects was the turnkey design and supply of a new 155,000 lb thrust development test bed at Rolls-Royce Derby (58 Bed).

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Durr Ecoclean offers you an all round service for all cleaning, automation and filtration installations – starting out with the design, following through to the implementation and then continuing far beyond. A wide spectrum of services accompanies your facility's entire lifecycle, ensuring it maintains its value and is also fitted according to your individual demands. Our offer supports you in the planning of new product lines, ensures the availability of your Durr Ecoclean facility and helps optimize your production process. Cleaning processes can be used with, solvents, aqueous, modified alcohols, steam and other medias.

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Established in the 1980s, Electroservices has become one of the leading calibration companies in the UK and has an excellent reputation for providing an efficient, and competitively priced calibration and repair service for electronic, electrical and mechanical test equipment that includes, calibration and repair of crimp, dimensional, HV, optical, torque, pressure, RF & microwave, air velocity, vibration and non-ionising radiation. 50-60% of turnover is for repair of equipment. A tier 1 prime contractor to the MOD, & defence agencies, sectors include, aerospace & aviation, homeland security, IT, manufacturing, medical, nuclear, & rail industry. Accreditations: QMS - ISO 9001:2008, UKAS – laboratory No. 0126, EMS - ISO: 14001: 2004.

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Exmac Automation is a part of the Macdonald Humfrey group of companies, and specialises in the manufacture of bespoke materials handling solutions. Based in Worcester, the company has the in-house expertise to offer a complete service including design, manufacture, assembly, test and integrated control systems.

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Companies offering specialist support services and equipment

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Design and manufacture of jigs, fixtures, press tools, special purpose machines and automation.

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Frezite Metal Tooling (UK) Ltd

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Manufacturer of special cutting tools into various industries including aerospace, automotive, FI, medical, power generation to name a few. The company provide the optimum solution to its clients for solid carbide, carbide tipped, HSS and through its parent company Frezite Metal Tooling (FMT) PCD tooling, as well as a refurbishment and regrind facility for all the aforementioned. With over 45 years experience, we have developed a client partnering ethos where "Your tooling problem is our problem to solve." Whatever the application, Frezite Metal Tooling (UK) Ltd will offer the most cost effective solution to the customer.

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Fuchs Lubricants (UK) is one of the world's largest manufacturers of coolants and cutting fluids and is a leading supplier to the UK aerospace industry. Our innovative range of premium quality metalworking fluids, which includes specialist aluminium grades, has been developed in close consultation with leading manufacturers in the European aerospace industry. Our product portfolio is complemented by a range of tailor-made coolant management programmes, designed to maximise fluid life, cut operating costs, reduce machine downtime and improve efficiency and our customers are supported by an experienced team of lubrication specialists, solely dedicated to serving the needs of the aerospace industry.

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Greentree-Shercon specialise in the supply and provision of masking, protection and jigging products and have the benefit of over 60 years' experience. As well as our large range of standard products we also specialise in custom products specifically for application such as powder coating and wet paint, plating and anodising, shot peening, plasma spraying, component protection, etc. In-house manufacturing, high specification die-cutting facilities and our engineering and design team ensure that Greentree-Shercon is able to provide cost-effective, engineered solutions.

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Güdel are global leaders in supplying handling and automation technology. The design, development and application of precision handling solutions reflects a 50 year track record of innovation and product development. The solutions are typically employed for high performance metal working, assembly or manufacturing applications in aerospace, machine tool, automotive, sheet metal, chemical, food, logistics, nuclear, electronics and process sectors. The company's capabilities also include a worldwide network of manufacturing, sales and service facilities to ensure that all Güdel equipment is backed by the highest standards of product availability and customer service.

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Specialist in custom built special purpose equipment & total solutions provider, incorporating design manufacture, installation and after sales. Complete turnkey solutions in aircraft component testing. In-house disciplines of design and manufacture encompassing high speed electronics, qualification, data acquisition and system proving test rigs.

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Hexagon Metrology, in the UK, operates from a purpose-built base in Telford from where it sells and maintains all the Hexagon Metrology Group's brands - including DEA, Leitz, Optiv, Brown & Sharpe, Romer, Leica Geosystems, Cognitens, Tesa and the aerospace standard software PC-Dmis. The product portfolio covers every measuring application with CMMs, multi-sensor and optical machines, portable measuring srms, laser trackers, scanning systems, turn-key solutions, software and hand tools. A large service, support and applications team support all of our products to ensure complete customer satisfaction.

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Hockley Pattern & Tool Co Ltd

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Hockley was founded in 1979 and has grown from a background of automotive patterns and tooling into one of the leading aerospace toolmakers in Europe.

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Industrial Tooling Corporation Ltd

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ITC is the leading UK manufacturer; modifier; re-grinder and distributor of precision round cutting tools in carbide, PCD and HSS. In addition to possessing one of the most modern and well equipped tool grinding facilities in the UK, with CNC grinding machines from Walter, Rollamatic, Schneeberger, Anca and Deckel, ITC is sole UK stockist of Widia Hanita Cutting Tools, Widia Metal Removal Industrial Tooling and Air Turbine Technology High Speed Spindles (USA). High performance production tools are available from our extensive stocks. Special-to-product tooling can be designed and manufactured to suit the most demanding applications.

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From lightweight composite materials to exotic alloys, Kennametal is committed to reducing risks and costs in the manufacture of aerospace and defence components. We partner with our customers to implement standard and customised cutting tool solutions with minimum cost per part and high repeatability in mind. Kennametal has unique capabilities and resources to cover the total manufacturing equation from roughing to automated deburring and finishing. Try our best-in-class technologies and services that are used today by our customers to deliver up to 30% cost reduction and 60% cycle time reduction.

Clive Brittain

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Kyocera Unimerco Tooling Limited

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Global manufacturer and distributor of high-performance standard and customised tools for your industry. Reducing your costs is our specialty; optimized tooling solutions for the machining of applications within many typical aerospace segments, such as airframes, avionics and missiles, aerostructure, control systems and aero engines; wide range of advanced, customized tools for the aerospace industry, for example veined tools, PCD tipped tools and solid carbide tools; we give you access to an extensive range of high-precision chucks suitable for any situation; with RE•NEW™ tool maintenance your old tools become as good as new - or even better. Efficient tool management gives you complete control over tool consumption and reduces the costs related to procurement and processing.

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LB Foster Materials Handling

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CI Logistics are one of the UK's largest suppliers of materials handling and storage solutions. Our offices and 16,000 square feet of manufacturing space are based in Leicester. Products supplied by CI Logistics are: overhead conveyors; telescopic boom loaders, van loaders, flexible conveyor systems etc; belt conveyors including belt bends, spirals and merges etc; powered roller; gravity roller; transfers etc; modular slat and chain conveyor; mezzanine platforms; storage racking and shelving. Services available include: technical sales support; in-house design; in-house control systems; manufacturing facilities; project management; installation; after sales service including spares and service.

Adrian Pryce

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Supplier of high performance solid carbide milling and drilling tools to the aerospace industry. From its European stock and technical support centre M.A. Ford Europe can advise customers of the best component machining strategy from a supplied model through to producing sample programmes along with estimated cycle times. This process using the most up to date versions of CAD/CAM software and high performance tooling/cutting data can drastically reduce customers' cycle times and hence costs.

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Mills CNC, established over 38 years ago, are the exclusive distributor of Doosan CNC Machine Tools in the UK and Ireland. Located in a modern 36,000sq ft facility in the Midlands, Mills CNC specialise in providing technical engineering solutions to a wide customer base in all industry sectors. Delivering in excess of 300 machines every year, Mills employ over 30 engineers to provide an industry leading service, spares and training support organisation to over 1,500 individual customers with more than 4,000 CNC machine tool installations. Doosan machines are designed and manufactured by the machine tool division of Doosan Infracore.

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Mitsubishi Materials UK is an advanced materials & tools business. The entire production process of every tool is carried out in-house – from raw material selection to the end product – therefore, we offer our customers optimised solutions that derive from our leading carbide technology. Mitsubishi tools are created for a vast range of applications; our drills and milling tools are used extensively in the aerospace and automotive sectors, for example. Making full use of our knowledge in the areas of cutting materials and coatings, we constantly improve our successful products by introducing new technologies and expanding our portfolio.

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Companies offering specialist support services and equipment

Newbow Aerospace Limited

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World leading manufacturer and supplier of specialist aircraft ground support equipment, maintenance tooling and instrumentation. Key products include nitrogen & oxygen service trolleys, wheel & brake dollies, tyre inflation equipment, pressure check tools, wheel service trailers, strut charging tools, tyre bay equipment, access steps and bespoke engineered solutions. Established since 1964, Newbow Aerospace supplies its equipment to more than two hundred and fifty leading airlines, MROs and armed forces around the globe.

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NHE

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NHE through its well known brands of Plasticraft, Ardnox Engineering and Lancy Technology design, manufacture, install and commission chemical process and surface treatment plant, environmental protection equipment, effluent and water treatment plant, fume exhaust and fume abatement systems, water recirculation equipment and NDT FPI lines both manual and automatic. Most plants supplied today include full computer control and data logging with total traceability features to meet the requirements of NADCAP.

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UK manufacturer of torque tools, measurement & calibration equipment; provides related calibration services. Worldwide sales support and overseas offices in USA, Asia and Australasia, Norbar has many military & civilian approvals & has its own UKAS accredited Calibration Laboratory, Number 256. Norbar specialises in MRO applications. In addition to our large range of listed torque, fastener and bolting related product & services, Norbar also offers a specialist "engineered to order" service.

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Parmelee Safety are a market leader in the supply of both prescription and non-prescription safety eye wear. We currently supply many of the leading Aerospace companies in the UK, providing not only eye wear but complete eye wear programmes which with the aid of our unique I.T. solutions take the hassle out of safety eye wear. With over 60 years experience in the manufacture of prescription eye wear and our own on-site laboratory we can achieve deliveries of 2-3 working days currently unrivalled in the industry at present this along with one of the largest frame ranges makes Parmelee a popular choice in the aerospace industry.

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PT Technologies Europe

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PT Technologies Europe is a leading manufacturer of specially formulated low VOC water-based cleaners and environmentally responsible solvent surface cleaning systems for use in OEM and MRO operations. We promote the development of improved environmental, health & safety and logistic practices through the supply of environmentally responsible, high performance and fit-for-purpose packaged products. We are AS 9100 Rev C certified, a Tier 1 Airbus UK supplier and have received 2 x Material Supplier Awards for Outstanding Achievement, Delivery and Quality Performance from Airbus UK. In January 2013 PT Technologies Europe was acquired by SOCOMORE. We can now propose additional products complimentary with our own, to customers worldwide.

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R E Bowers & Freeman are suppliers of heading punches for forging aerospace fasteners and stamps for second operation marking. Our products have very high quality character definition which results in good production rates and gives excellent tool life. Our continued investment in research into new materials and the development of production methods and procedures is helping us to supply our customers with new ideas to further improve punch longevity and character definition on difficult materials.

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Roemheld (UK) Limited

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Specialises in delivering flexible, cost effective, workholding solutions designed to increase work throughput while also reducing handling times, raw super alloy material costs per billet and overall cycle times. Improving aerospace customers' competitiveness by reducing set-up times and increasing productivity. Roemheld is the sole UK supplier of Hilma 5-Axis vices, Stark zero point mounting systems, Jergens vice systems, M-TECS magnetic clamping and Kostyrka clamping sleeves. Workholding solutions from Roemheld include: 5-Axis vices; hydraulic workholding; swing clamps; quick change die clamping systems; hydraulic clamping for bespoke fixturing; power units; zero point mounting; machine vices.

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Supplier of bespoke, turnkey, electro-hydraulic test rig control systems for the aerospace industry. Specialists in customisation, integration and non-standard applications, supplying test rig system modelling with HIL testing services, closed loop servo control systems, control instrumentation with data acquisition. Complete turnkey solution for design, manufacturing and commissioning services. Qualification and production test rigs designed for primary and secondary flight controls, thrust reverser systems, landing gear, utility actuators and other specialist equipment. RTC's main projects are commercial and military aircraft programmes associated with Airbus, Boeing and Bombardier; plus JSF, Eurofighter, Typhoon, Tornado aircraft. RTC supplies test equipment and ground support equipment.

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Sil-Mid are a leading international distributor of adhesives, cleaning compounds, lubricants, oils, greases, sealants, silicones and surface treatment products. We serve a wide global customer base, specialising in aerospace, defence, rail, electronics, telecommunications, marine and general engineering. Our extensive stock file, built up over 30 years, list some 15,000 items from over 400 suppliers. Our vast experience means our ability to source products is available to all our customers, Sil-Mid provides consignment stock, on-line information, ship-to-shore delivery, technical support and training of our customers' staff.

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Snap-On is the leading global manufacturer and distributor of hand and power tools, tools storage and torque equipment for the aerospace industry. Our range includes FOD prevention products and tool control systems, from basic shadow concept to a fully advanced electronic "asset tracking management system." All products conform to international standards and/or aerospace technical specification, SBACTS48, JDSI200 and MOD Defstans.

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Star Micronics GB is a wholly owned subsidiary of machine tool manufacturer Star Micronics Co Ltd, Japan, which produces multi-axis CNC sliding-head and fixed-head lathes. The GB subsidiary is also sole agent in the UK and Eire for the FMB range of short and full-length bar magazines from Germany, as well as for JB5 compensating guide bush systems. A particular strength of Star GB is that it has experienced applications engineers able to configure highly efficient, single-operation mill-turning solutions, enabling world class, high added value production of extremely complex parts in exotic aerospace materials.

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Surface Finishing Engineering Limited

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We design and build electroplating and surface treatment equipment in partnership with the end user. Equipment is selected to specifically fulfil all operational requirements. Our flexibility is paramount in achieving our ongoing success, with trained and experienced engineers available to service, modify or relocate existing equipment. Our constant pursuit of perfection in satisfying the increasing demands of the EC machinery directive, environmental legislation and health and safety keeps us at the forefront of the surface finishing industry.

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Teer Coatings Limited (TCL) provides a physical vapour deposition (PVD) coatings service, and manufactures a range of PVD coating and associated test equipment. TCL also undertakes contract research and development, for example in collaborative projects at the UK and EU level.

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Thyssenkrupp System Engineering Limited

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Thyssenkrupp System Engineering Limited provides concept, design, manufacturing and implementation of automated assembly systems. We are specialists in research, development and implementation of new processes and joining techniques including welding, structural adhesive, laser processing and drill/rivet systems. Other services include provision of equipment lifecycle support with on-site maintenance and design and manufacture of 'low cost' press tooling.

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Tower Tool Company Limited

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Precision engineers and toolmakers to the aerospace elastomer industry, specialising in the manufacture of mould tools to produce airframe seals, fire seals, annulus filler seals, leading edge seals, trailing edge seals, passenger entry door seals, cargo door seals and canopy seals.

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Companies offering specialist support services and equipment

Trimate Technologies Ltd

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We are respected suppliers of process chemicals to the metal pretreatment plating and aerospace industries. The Trimate Product Treatment division supply both in house technology and market leading chrome free technologies from Bulk Chemicals Inc, hexavalent chrome free technologies from Surtec GmbH (including Surtec 650) as well as aerospace approved treatments such as Alocrom from Henkel. We also have a range of own manufacture aerospace approved products. Winners of the coveted ADS SC21 Bronze award in 2012 for delivery performance to the industry. We also installed a specialist high performance low volume powder coating line in 2012.

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UK Dies Group Limited

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U.K. Dies Group is a precision engineering company specialising in the manufacture of tooling for either cold, warm or hot forging applications. We have extensive facilities at our Birmingham site with a highly skilled workforce supported by continuous investment in the latest CNC machine tools. Around 70% of production is currently exported.

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Yamazaki Mazak is the world's largest manufacturer of metal cutting machine tools. Products include multi-tasking machines, CNC turning centres, vertical and horizontal machining centres, CNC laser cutting machines, flexible manufacturing systems (FMS), CAD/CAM products and factory management software. Yamazaki Mazak UK Ltd is based at the European manufacturing plant in Worcester, which also houses the UK Technology Centre and gives customers direct access to support from the UK's largest and most expert team of engineers, with vast experience in machine tool applications for almost every industry sector.

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MAINTENANCE, REPAIR AND OVERHAUL

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Line maintenance, AOG support, ad hoc maintenance, AD & SB compliance, short/long term parking, storage maintenance, aircraft partout and disposal.

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RECYCLING

Meadowbank Vac Alloys Ltd

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Meadowbank VAC Alloys is internationally recognised as the established processor of choice within the complex alloy revert processing sector. As a buyer of high value revert material from the Aerospace, Oil & Gas and advanced engineering sectors, our company provides a unique processing facility and is an approved quality supplier to the world-wide vacuum, air melting and blending markets. All our material is recycled and re-melted by our customers to produce prime material thereby creating the environmentally compliant "closed loop". Meadowbank VAC Alloys is undoubtedly the most complete complex alloy recycling solution for customers and suppliers alike.

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Established in 1972, the company is one of the leading reclaimers of precious metals from the industrial sector. From the initial contact through to settlement, we provide a professional service tailored to your requirements. The company is fully licensed and holds ISO Quality and Environmental standards. We operate our own in-house laboratory and processing facilities. Our key principle is that when possible, we sample and analyse material prior to processing, agreeing expectations and charges before recovery begins. This approach gives our customers confidence that their material will realise its true market valuation before they release the consignment for treatment.

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SOS Metals has over forty years of demonstrated performance and specialised experience in the recovery, processing and recycling of these valuable assets, as well as metallic powders, grindings, coatings and surface finish residues. Our privately owned and operated company is proud to be certified compliant to the latest quality standards of ISO 9001:2008 and approved by virtually every major mill in North America and abroad for the supply of prepared and fully certified aerospace quality materials for re-melt into new products. "SOS Metals: we mine above ground."

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PARTS AND LOGISTICS MANAGEMENT

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Supplier of aviation parts.

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Stockists and suppliers of components for the aerospace and defence industry. We also offer support solutions for all aviation world fleet platforms. We have several enabling agreements with major OEMs allowing us to trade on the highest level.

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Air Cargo Transport (ACT) specialises in the transportation by road of aerospace components, including aircraft engines and spares, and containerised airfreight. Based at East Midlands Airport we cover the UK and major locations within the EU. Our modern vehicle and trailer fleet run on full air-suspension and our staff are trained to Aviation Security Level D. We provide a bespoke and dedicated road transport service for high value and time sensitive consignments to airlines, manufacturing companies and international forwarders.

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We provide a wide range of logistical solutions to help streamline your operations, ranging from fulfilment, warehousing, worldwide distribution and delivery sequencing right through to time-critical transport. Our objective is to provide practical solutions along with clear and measurable performance targets.

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CEVA Logistics is a leading global supply chain management company and provides bespoke logistics services to the aerospace and defence sectors. The scope of services covers the design and management of the inbound supply chain, warehousing activities including inventory management, kitting and packaging. Outbound logistics embraces the delivery of engines and spares worldwide and also lineside delivery within manufacturing facilities. The after-sales activities include supporting total care packages for the civil and defence sectors with optimisation of reverse logistics loops to enhance service and reduce inventory.

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Distributor and supplier of consumable overhaul materials to overhaul bases and airlines world wide, specialising in low volume niche market products.

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DAHER is an aerospace and defence equipment and services supplier. With a strong focus on research and technology, DAHER conceives the products and solutions of tomorrow, both for its own use and on behalf of its buyers. From manufacturing services to logistics, DAHER offers a comprehensive package: off-site or in-situ logistics, module assembly, production outsourcing, line-side supply, integration on the assembly line, in-service support, with further services and capabilities to bespoke requirements. Each service represents a core expertise that DAHER has the knowledge to combine in order to manage the customer's supply chain from end to end.

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JJX Logistics specialists provide same day courier service, delivering and collecting to all parts of the UK and Europe. We have a wide range of vehicles with full tracking systems on board. Aerospace, defence and automotive are our biggest clients supplying to the supply chain. Warehousing, distribution, hazardous materials and airfreight carriers are just some of the services we offer to our customers, to the highest standards.

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KWE (UK) Ltd provides fully-integrated aerospace, automotive and FMCG global logistics services using a worldwide network of 280 offices in 30 countries. Our supply chain team are able to offer diverse and innovative solutions with a full range of forward and reverse logistics at their disposal.

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Macfarlane Packaging is one of the leading UK companies in the design, manufacture and assembly of bespoke packaging for the protection of valuable and fragile products in both storage and transit. We use leading 3D design software, an extensive range of packaging materials and a variety of manufacturing and assembly processes to: deliver enhanced levels of protection, so you can ship your products with confidence, improve cost-efficiency, to help reduce your packaging and transport costs, eliminate excess packaging, to reduce waste from your shipping operations, respect the environment by using easily recyclable and sustainable materials wherever possible, make packaging easier to use by freeing up labour and storage space for more productive use.

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On Logistics Ltd have been serving the civil and defence aerospace sectors for a number of years providing a best in class solution that covers inbound and outbound logistics. We specialise in a number of solutions covering, on site packaging and release, warehousing, AOG support, reverse flow solutions and tracked domestic and international delivery. Our expertise adds value to the companies we serve saving them time and money.

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Companies offering specialist support services and equipment

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Wherever you are and whatever you need, we can provide you with global expertise in aerospace and defence supply chain management services. Pattonair will help you enhance your competitive edge through more effective supply chain management, allowing you to focus on your core business activity and customer needs, whilst increasing efficiency, reducing costs and increasing profitability. Our strategy, unique in aerospace and defence, is based on operating globally while meeting the needs of individual customers with hands-on local support. We already support leading companies including Agusta, Airbus, ATK, BAE Systems, Boeing, Eaton, Finmeccanica, Meggitt, Parker Aerospace, Rolls-Royce, Thales, Turbomeca and UTC.

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Walkers European Express Services Ltd provide a fast, reliable and secure same day logistics service throughout the UK and Europe. We operate 24 hours a day, 365 days a year providing our clients the solutions to their transport requirements. All our vehicles have round the clock live satellite tracking so we can tell you exactly where your goods are at any time. We specialise in dedicated door to door deliveries and offer an extensive next day service throughout the whole of the UK and many areas of Europe. We also offer an ADR service should you require it.

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Wincanton is the largest UK listed third party logistics operator and a European leader in the design and delivery of advanced supply chain solutions. Wincanton's Defence Business Unit supports land, sea and air civil defence platforms ranging from helicopters to jet aircraft, armoured vehicles, communication systems and fire and urban rescue vehicles. Wincanton Defence manage the physical logistics including storage, distribution and packing services with in-house design and manufacturing of packaging in line with UK, NATO and US defence standards. Wincanton Defence have a proven track record of operating both within military establishments and off-base and have relevant accreditations and experience with guidelines.

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DISTRIBUTION AND SALES

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Since 1965 Ed Fagan has supplied speciality metals, alloys and hard-to-locate materials to high technology industries, aerospace, defence, electronics, magnetics, medical optical and telecommunications. Ed Fagan maintains a broad inventory of the highest quality controlled expansion, soft magnetic and refractory metals and alloys.

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Freudenberg Simrit are well positioned to offer the global aerospace market a best value proposition with our comprehensive range of sealing and vibration control components. Freudenberg Simrit's product range includes O rings, radial shaft seals, PTFE seals, fire seals, aerodynamic/environmental seals, anti-vibration mounts and metallic seals. Our comprehensive support package extends to material development, component modelling, design and testing.

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Oxford Aviation is a stocking distributor of OEM & FAA-PMA aerospace filtration parts and associated products. We are an accredited supplier of consumables and specialise in oil, fuel, hydraulic and air filters for various civil and military aerospace applications. We represent Microfiltrex division of Porvair Filtration Group, Purolator Facet, PMA Products, British Filters, Trelleborg Sealing Solutions. We can also supply parts manufactured by PTI Technologies, Pall, Donaldson, Pentair and many more.

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SUPPORT FOR MANAGEMENT, PRODUCTIVITY, ACCREDITATION, INFORMATION TECHNOLOGY

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If you're are looking to develop business and market-focused strategies for growth, talk to us. Achieving the Difference LLP is a UK-based business advisor specialising in helping clients become successful, market-focused businesses: better business strategy, marketing strategy, compelling brand development, effective marketing operations, bespoke market research.

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We excel at enabling companies deliver technology innovation that is open, collaborative and effective. Specialising in advanced engineering and high value manufacturing, we work closely with industry, academia and government agencies. We build consortia, support partners in developing proposals and achieving funding, coordinate all aspects of research projects and programmes, support partners in disseminating and exploiting their research outcomes, enable partners to work in new ways and share knowledge with new businesses, forging beneficial relationships that would not otherwise exist, and build knowledge that makes a difference to UK industry as a whole.

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CANDA have developed the web based supply chain portal XACTIO, which provides supplier data on the web either with manual uploads or scheduled uploads by using the link module - automatically sending data from the client's own MRP system directly to the portal. The system provides accurate data on supplier performance, quality, cost, and responsiveness with all data being displayed using easy-to-view graphs and tables against the SC21 performance matrix. Suppliers can download orders and RFQs, complete NCRs, view their performance and communicate with ease with their customers.

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Concept Visual Management manufacture bespoke 5S and lean manufacturing magnetic visual management whiteboards along with H&S signs, stickers, banners and vehicle graphics. We can produce single boards or a suite of boards for a 'war room' environment. We are prepared to go that extra mile to make sure you get exactly what you need, as quickly as possible and yet we still keep our prices competitive in a tough market. I would welcome the opportunity to demonstrate the products' usability and explain why our customers find them essential in the day to day running of their organisation.

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CONSULTAVILA

real solutions - real results - at pace

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Consult Avila is a well-established business consultancy with a solid reputation for delivering real solutions, real results at pace. Its team of management professionals has a track record of achievement in the aerospace and defence sectors, providing support to clients through the entire process of change. Consult Avila provides the following services: business transformation; working capital optimisation; performance improvement; leadership development.

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Integrator and reseller of software and systems. Suppliers of mechanical design software (catca, smartteam and cosmos).

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Dot Net IT is an established business solutions provider specialising in IT infrastructure and Epicor ERP. Our team brings years of experience in consultancy, development, technical support and education, enabling us to deliver cost effective solutions to our world-wide customer base. Dot Net It provides a complete solution for your business and targeted industry. Our Epicor team draws on their collective wealth of experience to assist you in identifying precisely what your requirements for the new system are and match those requirements to the package with the best fit.

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Everards Quality Consultants have a team of dedicated, experienced, highly motivated and skilled quality improvement engineers & consultants, offering FAIR compilation and over-check to high-level specifications (as per AS9102, Rolls-Royce, GKN, Airbus and other major aerospace company requirements), as well as Nadcap special process requirements and pre-Nadcap audits, along with a varied range of continuous improvements and implementations.

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A local IT company that provides IT solutions for many advanced engineering companies in the West Midlands and beyond. GCC Innova has been in business for over 20 years and specialises in support and management of IT network infrastructure, along with cloud based IT solutions such as email, document management and customer relationship management (CRM) GCC innova has also been a Sage Business Partner for over 20 years. Cut through the technology hype and discover how IT should work seamlessly every day and discover how cloud computing and GCC online services can reduce running costs and improve competitive advantage.

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IngPro Ltd is a specialist consultancy supporting manufacturing companies in delivering improved profitability and cash flow by; developing powerful business strategies, creating step changes in productivity and sales growth. IngPro Ltd has long experience in Central Europe and can support companies to grow business in the region, through establishing a manufacturing presence, building sales and distribution networks or making acquisitions.

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IPI Solutions Ltd is a software company that develops Integrated Process Improvement applications for the aerospace and other related sectors. Our apps are designed to mistake-proof business processes and remove waste. We have developed 20+ apps including FAI, PPAP, FMEA, Control Plan, CMM and BOM data import. Our software applications are available in standard and enterprise versions with the latter being based on SQL Server for business process reporting via our Management Information Dashboard app. IPI's solutions are deployed globally to 2000+ users including BAe, EADS, GKN, Goodrich, HS, Rockwell, Moog, Woodward, Sikorsky, AugustaWestland, Martin Baker.

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Companies offering specialist support services and equipment

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Mycon Marketing Services Ltd provides a high quality professional approach to strategic marketing issues facing companies in aerospace, defence, offshore, power generation, marine and other high-tech industries. Mycon is a worldwide provider of performance improving market services: environmental scanning, scenario generation, forecasting, industry and market appraisals, qualitative and quantitative surveys, customer satisfaction and attitude tracking, supplier satisfaction and attitude tracking, competitor monitoring, benchmarking, business appraisals, new product/service development.

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Oakwell Management Services Limited are a multi role consultancy, working with clients large, medium and small, across all business sectors. Disciplines include engineering design, production/operations management, quality control, supply chain management, procurement, sales, marketing, and sustainability. Our focus is on manufacturing industries including aerospace. Other business areas supported include all public sector activity, local, regional, national government, education, and service industries. All work is carried out to fully accredited standards, and utilising specialist tools developed in house. One of our specialist areas is procurement: see www.sites.google.com/site/managementspend. Oakwell is an approved ISO 9000 accredited assessing body. We guide clients through the ISO process of approval and beyond.

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Sanderson is a UK author of comprehensive, completely integrated manufacturing (ERP) software for engineering companies, many of whom are within the aerospace sector. We develop, implement and support our manufacturing system ourselves from our offices around the UK. We have a 30 year history and accumulated experience of providing complete end to end business systems for engineers and pride ourselves on developing long term relationships with our customers, many of whom have been with us for 20 or more years. Sanderson is a public quoted company and provides long term security for our customers.

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Siemens is an industry leader operating at the technological forefront to meet the specific manufacturing requirements of the aerospace industry at all levels of the supply chain. It is the only company today which can offer a totally integrated manufacturing answer via end to end plan to production solutions with the delivery of state of the art, innovative production and process techniques which are assisting aerospace companies improve productivity, safety and reduce energy costs, whatever their requirement.

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A business consultancy that provides advice and support for companies seeking growth through the development of new products, processes, and services or new markets. We assist companies through the full innovation life cycle from idea generation, assessment, development, commercialisation to launch and evaluation. We help companies identify their innovation potential. We have a strong track record of assisting companies raise funds for investment in innovation and growth. We have an in depth knowledge of the broad transport and energy sectors with a strong focus on low carbon technologies and advanced material applications.

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TEC is a specialist research, development, training and implementation organisation that is focused on unlocking the potential of SC21 in order to provide you with business improvements both in the short term and long term. TEC has conducted over 100 SC21 diagnostics with a wide range of company profiles, 27 of which have been approved for SC21 recognition awards and most have moved onto phase 2/3 of their SC21 implementation journey. TEC is a recognised SC21 'Strategic Partner' and SC21 'Training Partner' for SC21 diagnostics and Tools & Techniques. TEC will support all phase 2/3 continuous improvement initiatives using appropriate and practical improvement methodologies.

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Coventry City Council's Business, Investment and Enterprise Team is leading the drive to support the City's growth plans by encouraging and supporting business investment. Our sector development strategy is designed to give Coventry based businesses a competitive advantage which they can exploit. We actively encourage and support collaborative working within our aerospace sector businesses.

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The Institute of Materials Finishing was founded in 1925, its title then being the Electroplaters and Depositors Technical Society. Its main purpose was to disseminate technical information on electrodeposition by means of technical publications, meetings and conferences. The area of interest broadened into all aspects of surface finishing on metal when it assumed the title of the Institute of Metal Finishing in 1951. In 2013 the name was changed to the Institute of Materials Finishing to embrace all technologies of surface finishing on a much wider variety of materials

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The Midlands Aerospace Alliance (MAA) is the voice of companies in the British Midlands supplying global aerospace. It was established in 2003 to improve wealth creation and employment for companies and people involved in the aerospace industry across the Midlands.



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