

Capabilities of Midlands Aerospace Companies 2015 – 2016



Midlands capability for the world's aerospace industry

The Midlands Aerospace Alliance is pleased to present you with the updated 2015-16 edition of our member capability directory – which marks our eleventh 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 Controls and Data Services, 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.

Andrew Mais

Dr Andrew Mair

Chief Executive

Midlands Aerospace Alliance



North East

Stokeon-Trent
Derby
Nottingham
Leicester

Birmingham
Coventry
Northampton
Warwick

Bristol & South West

Oxford

London & Cambridge

London
London

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



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A & M EDM Ltd

25 Mornington Rd Smethwick West Midlands United Kingdom B66 2JE t: 0121 558 8352 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

Unit 2 Dodwell Bridge Industrial Estate Dodwells Road Hinckley Leicestershire United Kingdom LEI0 3BZ t: 01455 637284 w: www.amfin.co.uk

Abbey Metal Finishing (AMFIN) is a company with tradition forged by experience over the last 67 years. Our extensive range of finishing processes includes electroplating, anodising, painting, NDT (including etch inspection) and thermal spraying. Our multifunctionality allows us to carry out a number of consecutive processes in one location. A strong, experienced team allows AMFIN to meet customer demands in aerospace, defence, railway and other business sectors. We hold a number of quality accreditations: NADCAP, ISO9001:2008 + AS/EN9100, ISO14001:2004 and third-party approvals such as Airbus, Rolls-Royce, Bombardier and Safran.

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Accrofab Ltd

Stoney Gate Road Spondon Derby Derbyshire United Kingdom DE21 7RX t: 01332 666878 w: www.accrofab.co.uk

Accrofab is a class-leading manufacturer of precision fabricated and machined parts for the aerospace industry. We provide a single point of contact for endto-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.

Nick Willers e: nickwillers@accrofab.co.uk

Acorn Surface Technology Ltd

Kirkby-in-Ashfield Nottinghamshire United Kingdom t: 01623 753107

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 and Bombardier. The range of processes available includes NDT, anodising, 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

213 Torrington Avenue Coventry West Midlands United Kingdom CV4 9HN t: 02476 466914 w: www.acton-finishing.co.uk

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 such as: vibratory finishing machines, centrifugal high energy finishing machines, rotary driers and 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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adi Group

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The adi Group is a large, multi-disciplined, privately owned, Midlands based engineering company, offering a single source fully integrated service to provide Totally Engineered Solutions. Founded in 1990, the group currently employs 450 people who specialise in supporting the aerospace manufacturing sector in the UK & Ireland, through each of the 14 limited companies and 22 service divisions. The depth and breadth of the adi group enables us to self-deliver varying sized mechanical, electrical, automation, civil, heating and cooling, environmental, compressor and plant efficiency projects, without the need for additional resource from external contractors.

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Advanced Chemical Etching Limited (ACE)

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ACE has a strong background in manufacturing custom precision components for defence and aerospace applications and 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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Advanced Manufacturing Utilisation Ltd

Atcham Business Park Shrewsbury Shropshire United Kingdom SY4 4UG t: 01743 761668 w: www.amu-ltd.com

Advanced Manufacturing Utilisation (AMU) is distinguished in helping its customers across diverse markets achieve their manufacturing, sales and commercial objectives through the supply of CNC machined, high integrity components manufactured on state of the art CNC machine tools, supported by documented and traceable CMM data. AMU Ltd. defines capability, with the application of six sigma. From rapid prototype one-off machining to batch production covered by documented project management systems. We will create and inspire economic value for our customers through the application of environmentally aware collective knowledge and implementation of sustained growth and profitability.

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Advanex Europe Ltd

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Advanex Europe is a world leader in the manufacture of high quality precision products from spring wire and flat strip. We offer creative solutions using our advanced technical resource, design capability and leading edge facilities. We provide support to customers with innovative solutions using a lean and agile manufacturing approach to optimise product and process specifications. We are well respected by global manufacturers who represent a wide cross section of industries including medical devices, aerospace, automotive and electronic equipment.

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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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Aerocom Metals Limited

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Aerocom Metals are a premier stockholder of aerospace alloys, supporting aerospace, defence, motorsport and all precision engineering sectors. Global contracts and in-house processing means a full supply solution for aluminium, titanium, stainless, nickel alloy and high strength steels anywhere in the world, to our customers' exacting requirements. Our pace-setting alloys include: 6061; 2024; 4130; 15/5; 301; 304; S515; 17/4 and T45; in bar; tube; sheet; and plate.

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Aeromet International Plc

Blackpole Worcester Worcs United Kingdom WR3 8UA t: 01795 415000 w: www.aeromet.co.uk

Aeromet International PLC is a UK-based leading producer of premium quality aluminium sand and investment castings and magnesium sand 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. 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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AGC AeroComposites Derby

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AGC AeroComposites Derby (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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Akzo Nobel Aerospace Coatings Ltd

Meridian Park Leicester Leicestershire United Kingdom IFI9 IWX t: 0116 223 4123 w: www.akzonobel.com

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

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Alloy Heat Treatment Ltd

Grazebrook Industrial Park Peartree Lane, Dudley West Midlands United Kingdom DY2 0XW

www.aluminiumheattreatment.com

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 quenchants

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Alloy Wire International

Narrowboat Way Hurst Business Park Brierley Hill West Midlands United Kingdom DY5 IUF t: 01384 566775 w: www.alloywire.com

Manufacturer of wire (round, shaped and flat) in high performance nickel alloys.

Thomas Mander e: tommander@alloywire.com

Alpha Adhesives & Sealants Ltd

Sandy Lane Ind. Estate Stourport-on-Severn . Worcestershire United Kingdom DY 13 9RH t: 01299 828626

w: www.alpha-adhesives.co.uk

Manufacture adhesives, sealants and coatings. Has in-house laboratories to develop products to suit customers' particular requirements. Products include approved, one-part water based adhesives for aircraft interior trim. One-part and 2-part epoxies for honeycomb and composites, polyurethanes, silicone sealants. Neoprene, PU and rubber based adhesives for inflatable life rafts, chutes and escape systems. Special structural adhesives for composites. Solutions for aircraft tyre manufacture and also aircraft tyre re-treading adhesives.

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Aluminium Special Products Limited (ASP)

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ASP is an approved supplier of aluminium, titanium, and magnesium alloys. Using a global network of approved material producers, we supply wrought products and bespoke in-house machined components to the aerospace, automotive, and general engineering sectors. The company is AS 9100 accredited and is an active member of the Midlands Aerospace Alliance.

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ANT Industries

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w: www.antindustries.com

Established in 1972, ANTools Ltd manufactures a wide range of components and assemblies for the aerospace and 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 the manufacture of components for the aerospace industry. AS9100, ISO14001 and Nadcap approved company with highly skilled workforce providing CNC turning, milling and grinding engineered machining services. Manufacturer of both large and small volume production runs in nimonics, titaniums and plastics, as well as specialist services of thread rolling, NDT and pressure testing. Based in Coventry in a newly constructed 18,000 sq ft HQ. Awarded SC21 Bronze in 2013, Goodrich Sustainable Supplier award 2012 and "Best Small Business 2010" in the Coventry and Warwickshire Business Awards.

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Ashton & Moore Ltd

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Sub-contract special process house offering: NDT services; sulphuric, thin film sulphuric, TSA and chromic anodising; passivation of aluminium and stainless steel; painting/stove enamel; ceramic anti-corrosion coating; cadmium; lead, indium and silver plating; phosphating (zinc, manganese, low temp. & calcium-modified); and

electropolishing and ancillary services to aerospace and defence standards.

Pat Ash

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Atlas Composites is 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

Colliery Lane North Exhall Coventry United Kingdom CV7 9NW t: 02476 367786 w: www.bodycote.com

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 longterm 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

European Business Park Taylors Lane Oldbury West Midlands United Kingdom B69 2BN t: 0121 552 5681 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.

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British Rema Processing Ltd

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British Rema is one of the UK's longest established businesses in powder processing and was a pioneer in the fields of particle size reduction and particle size control. With expert knowledge and experience of the characteristics and behaviour of a wide range of particulate materials, British Rema specialises in the 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 micronized powders include advanced adhesive systems, resin based polymers and composites used in component assembly

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Bulwell Precision Engineers Ltd

Wharf Road Industrial Estate Pinxton Nottingham Nottinghamshire United Kingdom NG16 6LE t: 01773 810102 w: www.bulwell.com

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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Burcas Ltd

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w: www.burcasonline.com

For over 70 years Burcas has been at the leading edge of technology and quality, providing innovative machining solutions to the aerospace, defence and precision engineering markets. Specialising in high complex critical machined components, Burcas is fully equipped with CNC milling, CNC turning and importantly CNC grinding including $5\ axis\ capabilities\ for\ milling\ and$ grinding. This capability supports repeater, runner and speed shop customer orders and contracts in accordance with our future strategy. Based in Birmingham in a 35,000 sq. ft. facility our robust infrastructure and 70 strong team is ideally situated to support customers locally and internationally.

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C & H Precision Finishers Limited

Precision House Derby Road Trading Estate Sandiacre Nottinghamshire United Kingdom NGIO 5HŪ t: 0115 939 4707 w: www.chprecision.co.uk

CHP has 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; and blisk polishing. We provide component finishing processes which include: de-burring; finish polishing; vibro and super polishing; and blasting including vapour blast; all to meet the most demanding quality levels and approvals.

Phil Akrill e: ppa@chprecision.co.uk

Caparo Accles & Pollock Ltd

Rood End Road Oldbury West Midlands United Kingdom B69 4NN t: 0121 543 2100 w: www.accles.co.uk

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

Simon Horton e: s.horton@accles.co.uk

Chinn Ltd

Coventry Road Exhall Coventry West Midlands United Kingdom CV7 9FT 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 e: mac.fletcher@nasmythgroup.com

Cinch Connectors Ltd

Shireoaks Road Worksop Nottinghamshire ${\sf United}^{\bar{}}{\sf Kingdom}$ 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

Kevin Goodwin e: k,goodwin@cinchuk.com

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.

e: adrian.marvin@cmgears.co.uk

Columbia Precision Ltd

140 Cheston Road Aston Birmingham West Midlands United Kingdom t: 0121 327 1500

'Ultimate Precision' is the benchmark Columbia has sought to maintain for more than 33 years. Internationally recognised, Columbia's reputation for supplying high quality precision components is unrivalled. A commitment to innovative technologies saw a $\pounds 2m$ investment in 2014. Latest additions include the Mazak Megaturn Nexus 900M and Matsuura MAM72-63V 6 Pallet Machine, increasing unmanned manufacturing to 520 hours a week, adding to capacity to produce components for aerospace, defence and other industries where on-time delivery is as vital as piece part cost. Columbia also offers NDT (magnetic particle, dye penetrant) as well as passivation and nital etch. Accreditations include: AS9100 Rev C, ISO 9001 and Nadcap processing approvals.

e: ted.yarnall@columbia.uk.com

Controls and Data Services

Shaftmoor Lane Hall Green Birmingham West Midlands United Kingdom t: 0121 707 7111 w: www.controlsdata.com

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

Wendy Stopher e: Wendy.Stopher@controlsdata.com

Copper & Optic Terminations Ltd

Unit I Stone Road Business Park 55 Stone Road Stoke on Trent Staffordshire United Kingdom ST4 6SR t: 01782 275810 w: www.copperandoptic.com

Copper and Optic is firmly established as one of the leading manufacturers of high quality cable assemblies and fibre optic solutions. Providing cable/wiring harness assembly, mechanical assembly, electro-mechanical assembly, printed circuit board assembly or fibre optic termination for the aerospace, defence, power and professional electronic manufacturing base we are proud to be associated with some of the most influential defence and aerospace companies in the industry. We return a first class service, delivering ON TIME, to the highest possible QUALITY, at a COST EFFECTIVE price, communicating progress on a regular basis.

Carol Heath e: cheath@copperandoptic.com

Croft Engineering

Sawley Grange Sawley Road Draycott Derbyshire United Kingdom **DE72 3QF** t: 01332 872274

w: www.croftengineering.co.uk

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: I) 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 e: ashley.beeden@croftengineering.co.uk

Cube Precision Engineering

Cakemore Road Birmingham West Midlands United Kingdom B65 0QW t: 0121 559 3096 w: www.cubeprecision.com

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 e: N.Clifton@cubeprecision.com

Cytec Industrial Materials (Derby) Ltd

Composites House Sinclair Close Heanor Derbyshire United Kingdom DE75 7SP t: 01773 766200

w: www.umeco.com

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 prepriegs for out-of autoclave processing of civil and military aircraft structural components. It also manufactures low volume speciality prepregs for space and high performance radomes. Cytec's MTM® prepregs have the largest available Public 'B' and 'A' basis databases generated via FAA accepted methodology. The company manufactures aircraft interiors prepregs 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 e: david.bernard@cytec.com

D & S Engineering (Coventry) Limited

27 Brindley Road Exhall Coventry West Midlands United Kingdom CV7 9FP t: 024 7664 4648 w: www.dseng.co.uk

A precision engineering company, established in 1973, supplying the aircraft and defence industries. We are AS9100 revision 'C' & ISO9001 approved, awarded SC21 Bronze award in 2013 for the second year and are striving to achieve the silver award. 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 e: rjm@dseng.co.uk

Danatrol

Canal Bank Loughborough Leicestershire United Kingdom LEII IQA t: 01509 217516 w: www.danatrol.com

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; and finishing processes.

S Chauhan e: sailesh@danatrol.com

Davromatic Precision Ltd

8 Avon Industrial Estate Rugby Warwickshire United Kingdom CV21 3UY t: 01788 561969 w: www.davromatic.co.uk

Davromatic manufactures precision components for the aerospace, defence and fastener industries and has AS9100 rev C accreditation. The services include difficult-to-machine materials and tight tolerances for components and assemblies.

Martin Ollis e: martin@davromatic.co.uk

Delcam Ltd

Small Heath Business Park Talbot Way Birmingham West Midlands United Kingdom B10 0HJ t: 0121 766 5544 w: www.delcam.com

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 CADCAM 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 e: pjd@delcam.com

DMS Plastics Ltd

Lingen Road Ludlow Business Park Ludlow Shropshire United Kingdom SY8 IXD t: 01584 874679 w: www.dmsplastics.co.uk

DMS Plastics has been at the forefront of plastic forming technology since the company's incorporation in 1985 and is now regarded as one of the leading companies in the development and manufacture of a wide variety of products and as a supplier of services to a growing number of clients worldwide. Our plastic forming capabilities include the following: vacuum forming/thermoforming; press and twin sheet moulding; drape moulding; line bending; tooling and CNC machining; and finishing. Highly respected for providing an innovative and customer focused approach to projects, DMS is able to call upon a skilled and experienced workforce to ensure all work is to the highest standard.

e: pauldraper@dmsplastics.co.uk

Doughty Precision Engineering Ltd

100 Sherbrook Road Nottingham Nottinghamshire United Kingdom NG5 6AB t: 0115 966 0600 w: www.doughtype.com

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 Birmingham West Midlands United Kingdom 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.

Martin Pye e: martin.pye@dunlopatl.co.uk



Dynamic Metals Ltd

40 Eden Way Chartwell Business Park Leighton Buzzard Bedfordshire United Kingdom LU7 4FY t: 01525 217-556

w: www.dynamicmetals.co.uk

Dynamic Metals was set up to provide aerospace metals at competitive prices, against tight deadlines with no minimum order quantities. Titanium, nickel alloy, stainless steel, alloy steel and other exotic materials are held in a variety of different forms within our UK distribution centre. We have the ability to process them on site and despatch them on our own vehicles. This allows us to control quality, specification and lead times without needing to outsource. We have installed band saws in-house, invested in our own delivery vehicles and established a trusted global supply chain.

Sam Excell e: sam@dynamicmetalsltd.co.uk

Electro-Discharge Ltd

Unit 14 Bagley Industrial Park Dudley West Midlands United Kingdom DY2 9DY t: 01384 238451

w: www.electro-discharge.co.uk

Wire and spark erosion specialist to the aerospace, satellite, oil and Formula I industries, capable of cutting up to 600mm thick, Also offering CNC milling, electrode manufacturing, tool and fixture design/ manufacturing.

Rupin Vadera e: rupin@electro-discharge.co.uk

Encocam Ltd

5 Stukeley Business Centre Blackstone Road Huntingdon Cambridgeshire United Kingdom PF29 6FF t: 01480 435302 w: www.encocam.com

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 e: helen.dighton@encocam.com

Energy Tubes Ltd

Unit 2 & 3A Bean Road West Midlands United Kingdom **DY4 9AO** t: 01902 671222 w: www.energytubes.com

Energy Tubes is 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.

John Finnegan e: john@energytubes.com

EPM Technology Group

Technology Centre Westside Park Belmore Way, Derby Derbyshire United Kingdom DE21 7AZ t: 01332 680420

w: www.epmtechnology.com

EPM technology group is proud to be formally stepping into the aerospace supply chain as a composite components and assemblies supplier. EPM has a new purpose built 60,000 sq. ft. facility, based in Derby which is part of a £6.5m investment moving EPM technology into the aerospace sector. From this new site EPM brings an array of services to fully support all requirements for all clients. This includes design and engineering support right through to component supply and supporting line-side and just-in-time delivery requirements.

Graham Mulholland e: info@epmtechnology.com

Erodex (UK) Ltd

Tipper Industrial Estate Park Road Halesowen West Midlands United Kingdom B63 2RH 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; and 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 to date, the finest carbon and graphite materials have been provided by Poco Graphite of the USA and Toyo Tanso of Japan.

Paula Brettell e: Paula.brettell@erodex.com

Esterline Corporation

Stockton-on-Tees County Durham United Kingdom TS21 ILB t: 01740 630461 w: www.esterline.com

Esterline is a global specialty manufacturer serving primarily the aerospace and defence markets with highly engineered, reliable, and harsh-environment-tolerant components, products, sub-systems and services. Esterline has a global network of manufacturing, sales, and support resources for mission-critical products in the aerospace industry including cockpit electronics and displays, control products, power distribution components and systems, sensors, seals, clamps, thermal protection equipment, interconnect solutions, software and surface finishing services and more.

Annette Rothwell e: annette.rothwell@esterline.com

Flextronics Aerospace & Defense

5. Victoria Estate Monmouth Monmouthshire United Kingdom NP25 5AR t: 01600 719054

w: http://www.flextronics.com/business_groups/pages/ aeroanddefence.aspx

Experienced in managing programmes across life cycles from NPI to volume. Dedicated, experienced programme management resources, best-in-class quality/IT systems to manage product, sourcing & supply chain requirements of complex programmes. Systems support entire life-cycle service capabilities, qualifications & certifications. Aftermarket logistics support, including provisioning of spares and repairs during product support phase of programmes. Coordinate vast capabilities/resources service offerings into complete turnkey solutions. Markets: flex circuits, CCAs, avionics, in-flight entertainment, radios, thermal solutions, ruggedised devices; UAV; UGV; Vertically integrated solutions include machining, metal-stamping, plastics, cables, fabrication/assembly of multi-layer, high complexity, high density PCBs; mechanical assembly/ integration of enclosures; sub-assemblies; racks/systems encompassing multiple levels of test at all system

lan lones e: ian.jones@flextronics.com

Future Metals UK

Libra, Unit C, Maidstone Road Kingstone Milton Keynes Buckinghamshire United Kingdom MKIO OBD t: +44(0)1908585034

Future Metals is the global leader in the supply of aerospace tubing, and is the premier distributor of aerospace metals worldwide. We earn our leading market position by providing our customers with superior service and quality products from world class producers. Through our experienced, knowledgeable and dedicated staff of industry professionals, we conduct business in an honorable and ethical manner.

Paul Wingfield e: PWingfield@futuremetals.co.uk



G & O Springs Ltd Broad Ground Road Lakeside Redditch Worcestershire United Kingdom B98 8YP t: +44 1527 523764 w: www.springs.aero

Manufacturer of all types of springs and wireforms for the aerospace industry. Approvals held: SC21 Bronze, AS9100:C & Nadcap (heat treatment and materials testing laboratory). G&O is currently working towards SC2 I Silver recognition. See our website for current performance statistics.

Steve Boyd e: steve.boyd@springs.aero

Gardner Aerospace - Derby Ltd

Unit 9, Victory Park Victory Road Derby Derbyshire United Kingdom DE24 8ZF

t: +44 (0) 1332 274700 w: www.gardner-aerospace.com

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 engineer tools, processes and quality approvals to support these capabilities.

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Glenair UK Ltd

40 Lower Oakham Way Oakham Business Park Mansfield Nottinghamshire United Kingdom NGI8 5BY t: 01623 638100 w: www.glenair.co.uk

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 Silver Award.

Tim Hall e: thall@glenair.co.uk

Gould Alloys Limited

Carrwood Industrial Park Carrwood Road Chesterfield Derbyshire United Kingdom S41 9QB 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 e: j.bradshaw@gouldalloys.co.uk

Graves Aircraft Components Limited

Lighting Way Alvechurch Road Birmingham West Midlands United Kingdom B3 I 3PJ t: 012Í 475 5181

w: www.gravesac.co.uk

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 e: dean.banks@gravesac.co.uk

Greene Tweed and Co Limited

Ruddington Fields, Ruddington Nottingham Nottinghamshire United Kingdom NGII 6IS t: 0115 931 5777 w: www.gtweed.com

Manufacturers of high performance sealing systems and Xycomp complex thermoplastic composite parts.

Tony Porter e: tporter@gtweed.com

Harris RCS

3 Crondal Road Bayton Road Ind Estate Coventry West Midlands United Kingdom CV7 9NH t: 024 7636 4848

A privately owned company established in 1975, specialising in the supply of precision parts to aerospace. Sub-contract CNC machining to customer require-

Graham Harris e: g.harris@harrisrcs.com

Henton Engineering Ltd

Faraday Road Harrowbrook Industrial Estate Hinckley Leicestershire United Kingdom LEI0 3DE t: 01455 238331

w: www.hentonengineering.com

Machined component supplier to aeroengine/aerospace industries.

Chris Summers

e: chris.summers@hentonengineering.com

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 CO2 laser cutting, 5 axis waterjet & micro waterjet cutting, YAG laser drilling, electro discharge machining (EDM), CNC machining, routing, punch & brake press, general fabrication & assembly. Programmable welding systems, Prior part marking verification & CMM inspection with reverse engineering capabilities. NADCAP approved for non-conventional machining & welding. Thirty years experience as a tier one Rolls-Royce aerospace supplier, Rolls-Royce Nuclear Civil & Marine approved. Rolls-Royce Fuel Cells, renewable energy projects. Subcontractor to Rolls Royce Heritage Trust. All work approved to Rolls-Royce Sabre.

Tracey Tolliday e: tracey@hucknallsheetmtl.co.uk

Icon Polymer Group

Thrumpton Lane Retford Nottinghamshire United Kingdom DN22 6HH t: 01777 714300

w: www.iconpolymer.com

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 aero-dynamic seals. Aircraft seals produced from a range of silicone and polychoroprene 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 con-figurations, 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.

Tim Pryce e: tpryce@iconpolymer.com

Ilmor Engineering Ltd

Brixworth Northamptonshire United Kingdom NN6 9UB 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 complement of CMM equipped inspection department. Having gained AS9100/C accreditation in 2013 we have continued to increase our business in the aerospace market. We are very proud to have gained a Boeing Silver Supplier status from our work with this company. Ilmor can offer a fast, flexible service, but with the commercial sensitivity and qualified working that is a requirement of meeting AS 9100 procedures.

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IM Kelly Aerospace

The Moorings Business park Channel Way, Exhall Warwickshire United Kingdom CV6 6RH t: 02476 644202 w: www.imkelly.co.uk

I M Kelly was established in 1975 and supplies a range of interior products into the aviation, automotive, rail and marine markets. I M 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. I M Kelly Aerospace can also provide a range of cabin interior products such as blankets, headrest covers, fire containment sacks or bespoke

e: nturner@imkelly.co.uk

Impregion UK Ltd

Kingsbury Link Trinity Road, Picadilly Tamworth Staffordshire United Kingdom B78 2EX t: 01827 871400 w: www.impreglon.co.uk

UK facility of a world renowned industrial applicator of fluoropolymer, molybdenum disulphide, polyure thane, anti-microbial and thermal spray coatings. Our systems, experience and high level of service can help you solve your surface technology requirements. With decades of experience, Impreglon UK is the fluoropolymer and thermal spray coating applicator for the UK and Ireland. Accredited to ISO 9001:2008 and ISO 14001:2004, our range includes, amongst others, the full Teflon®, Xylan® and Greblon® ranges, PTFE, PFA, FEP, ETFE, ECTFE (Halar®), flame spray tungsten carbide and chrome oxide, and arc spray zinc, aluminium [TSA], stainless steel and nickel alloy. The new SafeCoat 600 series is a highly effective anti-microbial decorative coating.

Guy Williams e: guy@impreglon.co.uk

Indestructible Paint Limited

19-25 Pentos Drive Sparkhill Birmingham West Midlands United Kingdom 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 e: richard@indestructible.co.uk

Invotec Circuits (Tamworth) Limited

Hedging Lane Dosthill Tamworth Staffordshire United Kingdom B77 5HH t: 01827 263000

w: www.invotecgroup.com

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.

Mandy Cotterill e: mandy.cotterill@invotecgroup.com

ITP Engines UK Limited

The Whittle Estate Cambridge Road Leicester Leicestershire United Kingdom LE8 6LH t: 0116 284 5400 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.

Neil Howes e: neil.howes@itp-engines.co.uk

JJ Churchill Ltd

Market Bosworth Nuneaton Warwickshire United Kingdom CVI3 OPF t: 01455 299600 w: www.jjchurchill.com

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.

Kevin McCormick e: kevin.mccormick@jjchurchill.com

Joss Engineering Ltd

647a Melton Road Thurmaston Leicester Leicestershire United Kingdom LE4 4GA t: 01229 825445 w: www.josseng.com

Founded in 1982, Joss Engineering is now recognised as one of the UK's premier engineering solution providers. Founded to support the ship building activities in Barrow-in-Furness, Joss Engineering has developed and grown to its current stature supplying companies both home and abroad with products that demand high quality and quick turnaround. Currently trading from three manufacturing sites in the UK and exporting to over twenty countries worldwide. Joss engineering is your ideal partner for all your engineering requirements. These include: aerospace fasteners; mechanical engineering; precision engineering and services; fabrication; special & non special fasteners; industrial supplies and consumables; and onsite engineering services.

Kish Parmar e: kp@josseng.co.uk

Kepston Limited

Unit I 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.

Roy Brooks e: r.brooks@kepston.co.uk

Kigass Aero Components Ltd

Montague Road Warwick Warwickshire United Kingdom CV34 5LW t: 01926 493833 w: no web

Sub-contract manufacture and assembly of components for the aerospace and autosport industry. Kigass has 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 tuning, 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.

Peter Platt e: peter.platt@kigassaero.co.uk

KMF Precision Sheet Metal Limited

Millennium Way High Carr Business Park Newcastle-under-Lyme Staffordshire United Kingdom ST5 7UF t: 01782 569060 w: www.kmf.co.uk

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 sq ft of UK & Eastern European manufacturing 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 e: l.royall@kmf.co.uk

Knight Strip Metals Limited

Cumbria Way Saltley Business Park Birmingham West Midlands United Kingdom B8 IBH t: 0121 322 8400 w: www.knight-group.co.uk

Established for over 70 years, Knight Strip Metals is a specialist stockholder and processor 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.

Heath Davies e: heath.davies@knight-group.co.uk

Kugel Motion Ltd

Unit 7,The Fulcrum Lows Lane Stanton-by-dale Derbyshire United Kingdom DE7 4RI t: 01558 377674 w: www.kugelmotion.co.uk

Kugel Motion is the only UK manufacturer of custom precision ground ball screws for the aerospace, defence and automotive industries. We have over 60 years' experience in the design, application and manufacturing of precision ballscrews for use in actuators and linear motion systems; from moving aircraft and missile fin control surfaces, acting as dampers & inerters in motor-sport suspension systems and for the actuation elements of aircraft electronic braking systems. As an AS9100 quality accredited company all of our precision ballscrews are built to the highest standards in a clean room environment with controlled axial play or in a preloaded condition.

Alexander O'Neill e: aoneill@kugelmotion.co.uk

LGG Charlesworth

Spring Lane Malvern Worcestershire United Kingdom WRI4 IBS t: 01684 892892 w: www.lggcharlesworth.com

With over 80 years in moulding plastics, LGG Charlesworth Ltd. has the experience to know what you require. Our total moulding solution will support you from initial concept through to finished product, meaning you will benefit from: reduced costs through consolidation of suppliers, and a continuous improvement programme for both products and service. Throughout the process, we offer you unrivaled expertise in the following areas: tooling design & manufacture; raw material selection advice; design, development & plastic prototyping; injection moulding & compression moulding; assembly & post moulding finishing; delivery & storage; ongoing product and service development.

Fiona Turner e: fiona.turner@lggc.co.uk

Manthorpe Engineering Ltd

Manthorpe House Brittain Drive Ripley Derbyshire United Kingdom DE5 3ND t: 01773 514 200 w: www.manthorpe.co.uk

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 e: mark.elliott@manthorpe.co.uk



Maycast Nokes Precision Engineering Ltd

Factory Lane West Halstead Essex United Kingdom CO9 IEX t: 01787 477021 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 e: dblower@maycast.co.uk

Meggitt

Holbrook Lane Coventry West Midlands United Kingdom CV6 4QY t: 02476 294200 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 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 pacelles. inlets and nacelles

Ian McMurray e: ian.mcmurray@meggitt.com

MEP Ltd

St Michael's Close The Forstal Estate Aylesford Kent United Kingdom ME20 7BU t: 01622 718642 w: www.mep.co.uk

Manufacturing excellence in plastic and metal; at MEP we focus on delivering high quality components within your tight timescale from our AS9100 and ISO14001 environment. We specialise in the manufacture of complex metal and plastic parts, and our focus on quality and on-time delivery has led MEP to win multiple SC21 awards and preferred supplier status for some of the most prestigious aerospace and defence companies in the world.

Alan Fisher e: alan.fisher@mep.co.uk

Mettis Aerospace Limited

Redditch Worcestershire United Kingdom B97 6EF

t: 01527 406400

w: www.mettis-aerospace.com

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.

e: phillip.hughes@mettis-aerospace.com

MG Sanders Limited

Newcastle Street Staffordshire United Kingdom t: 01785 815544 w: www.mgsanders.co.uk

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

Paul Atkinson e: patkinson@mgsprecision.co.uk

Micro Spring & Presswork Ltd (MSP)

Brookside Flizabeth Way Redditch Worcestershire United Kingdom B97 6BI t: 01527 69121

w: www.microspring.co.uk

Micro Spring & Presswork is a specialist manufacturer of a wide range of precision springs, presswork and assemblies and is accredited to AS9100 Rev C. NA-DCAP merit status and SC21 Bronze. MSP make all parts to drawing and is not a 'from stock' supplier. We specialise in the hard to make parts from difficult to find material, MSP celebrated its 50th year in business in 2014, supplying aerospace and defence for over half a century we also have the experience and knowledge to offer flexible and innovative supply solutions that can add real value to your supply chain.

Graham Hawes e: graham.hawes@microspring.co.uk

Microjet Precision Services Ltd

Unit I Ash Court Millenium Way East The Phoenix Centre Nottingham United Kingdom NG8 6AR t: 0115 927 4748 w: www.mjpsl.co.uk

Manufacturer of components in stainless steel, titanium, brass, copper, composite materials including laminates by 2D & 3D water jet cutting. Laser drilling & welding & CNC machining

Kevin Parsons e: kparsons@mjpsl.co.uk

Micrometric Limited

Doddington Road Lincoln Lincolnshire United Kingdom LN6 3RX t: 01522 509999

w: www.micrometric.uk.com

Micrometric Ltd provides 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.

Neil Main e: neilmain@micrometric.co.uk

Midland Alloy Limited

Stafford Park 17 Telford Shropshire United Kingdom t: 01952 290961 w: www.midlandallov.com

Established for over 40 years, Midland Alloy specialise in: bending & stretchforming of aluminium extrusions to complex 2D & 3D shapes; 5-axis CNC machining of small and large components within a 5000x3000x-1000mm envelope; coded TIG welding including very small extrusions; tooling & full form fixture design and manufacture; CMM inspection & verification; fabrication, finishing and assembly. Many types of aluminium trims and components have been produced for aircraft seating, tables and partitioning. We operate from purpose-built 22,000 sq ft premises. Modern technology is combined with traditional craftsmanship and specialist skills. With a zero-defect philosophy, quality products are manufactured to demanding shapes and tolerances. Technical support is offered at all stages of product development

James Beirne e: sales@midlandalloy.com

Midland Tool & Design Limited

Barnfield Road Tipton West Midlands United Kingdom t: 0121 520 1171 w: www.mtdltd.co.uk

With over 40 years' experience, Midland Tool & Design (MTD) has the skills to deliver the precision engineering sérvices you need. Our commitment to quality now extends to aerospace with our AS 9100 accreditation. Our clients include demanding and high profile names in industries such as: medical; automotive: food: project management: metals packaging; aerospace & defence; housing & construction; consumer products; oil & gas exploration; and precision engineering services. Our precision engineering services include: progressive tool and die design and manufacture; contract CNC precision engineering ser-vices; high speed precision stamping; precision ceramic components; complete tooling services.

Nick Brittle e: nick.brittle@mtdltd.co.uk



MI Sections Limited

Marriott Road Industrial Estate Cradley Road Dudley West Midlands United Kingdom DY2 0|Z t: 01384 217000 w: www.misections.co.uk

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.

Steve Cresswell e: steve@mjsections.co.uk

MNB Precision Ltd

Units 3-5 Binns Close Torrington Avenue Coventry West Midlands United Kingdom CV4 9TB t: 02476695959 w: www.mnbprecision.com

A leading UK precision engineering and CNC machining manufacturer, MNB Precision is currently obtaining AS9100 as we diversify into the defence and aerospace industries to supplement our recent move into a new 32,000 square-foot HQ in Coventry. Manufacturing precision components, sub and full assemblies, our capabilities including CNC milling and turning, horizontal & vertical jig boring, spark and wire erosion, grinding, shot peening and NDT. A temperature controlled CMM facility housing a 4.2m Zeiss Accura II, Mitutoyo C9166 and Impact is supported with a team of skilled inspectors to ensure quality is delivered to exacting standards. Certifications include API 9001, API Q1 & 7-1 and OHSAS 18001.

Will Melly e: willmelly@mnbprecision.com

Momentum Engineering Ltd

Unit 50 Coleshill Industrial Estate Station Road Coleshill West Midlands United Kingdom B46 IJT t: 01675 465024

w: www.momentumengineeringltd.co.uk

Momentum Engineering builds on over 40 years of supplying customers with dependability and reliability in the automotive, aerospace, railway, construction, petro-chemical, electronics and defence sectors. We are an accredited ISO 9001 company providing high-precision components internationally, AS9100 accreditation is in process, Our CNC machining projects range from one-off prototypes through to large batch sizes, requiring 24 hour unmanned machining. Continuous investment in the latest technology and machine tools confirms we offer exceptional flexibility, versatility, reliability and efficiency. Our 2014 investment in a Mazak VTC 800/30SR offers our customers outstanding five axis versatility up to 3m in the X axis, with unsurpassed accuracy.

John Ridding e: John@momentumengineeringltd.co.uk

Moog Aircraft Group

Wolverhampton Operations Valiant Way Wolverhampton West Midlands United Kingdom WV9 5GB t: 01902 397700 w: www.moog.com

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

Stuart McLachlan e: smclachlan@moog.com

Morgan Technical Ceramics - Certech

92 Brunel Road Earlstrees Industrial Estate Corby Northamptonshire United Kingdom NN 17 4JW t: 01536 202282

w: www.morgantechnicalceramics.com

The Certech division of MTC manufactures ceramic components for the aerospace and IGT markets. Other MTC products include engineered ceramic cores and components, braze alloys, ceramic/metal assemblies, metal injection moulded components, hard coatings, piezoelectric ceramics, microwave ceramics and high voltage & RF capacitors.

Steve Hastie e: stephen.hastie@morganplc.com

MP Engineering UK Limited

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MP Engineering is an AS9100 BSI 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 I but seriously engage aerospace customers with cost effective contracts for larger batches.

lason Poole e: jason@mpengineering.co.uk

Nasmyth Arden

The Highlands Maidwell Drive Solihull West Midlands United Kingdom B90 40N t: 0121 683 5200 w: www.ardenprecision.com

Arden Precision Ltd is a Solihull based company established in 1980 specialising in a wide range of precision engineering services. Our experience, expertise and efficient approach have ensured that we have become an established and trusted name throughout Solihull and beyond with a reputation for quality work and courteous, professional service. We undertake services such as CNC turning, CNC milling, 4 axis milling and 3D machining. We also specialise in CMM inspection and provide a range of prismatic

Terry Mansell e: Terry.mansell@nasmytharden.com

Nasmyth Group Limited Nasmyth House

Coventry Road Coventry West Midlands United Kingdom CV7 9FT t: 02476 361156

w: www.nasmythgroup.com

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 ensure that we remain at the forefront of manufacturing technology. For requirements ranging from specialised 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.

Chris Henson e: chris.henson@nasmythgroup.com

NMB-Minebea UK Limited

Doddington Road Lincoln Lincolnshire United Kingdom LN6 3RA t: 01622 500933 w: www.minebea.co.jp

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.

Alan Morton e: alan.morton@nmb-minebea.com

O.L.D Engineering Limited

Plot I Sketchley Lane Industrial Estate Burbage Hinckley Leicestérshire United Kingdom LEI0 3EN t: 01455 612521 w: www.oldengineering.co.uk

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 e: nevt@oldengineering.co.uk

PAB Coventry Limited

Falkland Close Charter Avenue Industrial Estate Coventry West Midlands United Kingdom CV4 8AU t: 02476 694419 w: www.pabgroup.co.uk

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 has 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 e: robertl@pabcoventry.co.uk

Paragon Engineering & Logistics Ltd

41 Fordhouse Road Industrial Estate Wolverhampton West Midlands United Kingdom WVI09XF t: 01902 789888

w: www.paragon-eng-log.com

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.

e: johnharper@paragon-eng-log.com

Parker Precision Ltd

Vulcan Works Vulcan Road West Midlands United Kingdom WVI47HW t: 01902 353453 w: www.parkerprecision.co.uk

Precision CNC machinists specialising in small components manufactured from exotic materials using the latest equipment.

Phil Parker e: phil@parkerprecision.co.uk

Pentaxia Limited

40-44 Longbridge Lane Ascot Business Park Derby Derbyshire United Kingdom DE24 8UJ t: 01332 574870 w: www.pentaxia.co.uk

Pentaxia combines a significant machining division with a high quality composite manufacturing operation. This allows us to offer a comprehensive manufacturing and supply service to the aerospace market. We already supply patterns, moulds, jigs and fixtures to the major tier I suppliers in the industry. We are ISO 9001 approved and AS9100 Rev C certified. We pride ourselves on cost effective predictable performance that seems to please our customers, which is why we have been growing at 50%+ per year.

Stephen Ollier e: stephen@pentaxia.co.uk

Perfect Bore Manufacturing Limited

Unit 3 Hunstrete House Sterling Park Andover Hampshire United Kingdom SPI0 3TZ t: 01264 360800 w: www.pbm-ltd.com

Perfect Bore has 27 years' experience in gundrilling, honing, deep hole boring, CNC turning and superfinishing. Bore solutions supplied by Perfect Bore can be found in components manufactured by OEMs such as Airbus, BAe, UTC Actuation Systems, Boeing, Moog and Rolls-Royce; supporting projects including B787 Dreamliner, A400M and A350. We provide singular and turn-key solutions and can design the boring process to improve quality, reduce costs of production and reduce processing times. Our single 32,000 square feet site location means internal communication lines are short and efficiencies and economies in the machining process can be quickly realised.

e: steve.amey@pbm-ltd.com

PGM Re-Ball Ltd

Unit 6-7 Teal Business Park Dodwells Road Hinckley East Midlands United Kingdom LEI0 3BZ t: 01455 618100

w: www.hollycroftengineering.co.uk

PGM Reball is a UK based ballscrew specialist. We design and manufacture our own ballscrews and produce both critical and non-critical flying parts to aerospace and commercial OEMs as well as their supply chain. Our in-house ballscrew repair facility offers a fast turnaround where time is critical. We offer unbiased advice and can source ballscrews and linear products from all major manufacturer as well as smaller niche manufacturers. We hold several patents and our R&D team create innovative, bespoke and often unique ballscrew and actuator design solutions. Our Machining facility holds AS9100 and also holds Approvals from Agusta Westland and Dunlop Aero-

e: anne.ford@reball.co.uk

Phoenix CNC Engineering Ltd

Long Eaton Nottingham Nottinghamshire United Kingdom NGI0 IFU t: 0115 9469896 w: www.phoenixcnc.com

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.

Glenn Richardson e: glenn@phoenixcnc.co.uk

PK Engineering Ltd

Rotherwas Industrial Estate Hereford Herefordshire United Kingdom HR2 6JQ t: 01432 279373 w: www.pkengineering.co.uk

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

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Plastic Coatings Limited

Ham Lane Kingswinford West Midlands United Kingdom DY67IY t: 01384 400066 w: www.plasticcoatings.co.uk

Plastic Coatings can solve all aerospace coating requirements. Our Kingswinford site, approved to AS9100, is widely approved by aerospace manufacturers for low friction, heat resistance, non-conductive and corrosion resistant coatings. With over 50 years experience we can offer technical support to determine the best coating for almost any application. Plastic Coatings offer a wide variety of coating processes including electro paint, electrostatic powder coat, fluid-bed coating, nylon, PTFE, phenolic, halar and many others. Two dedicated production cells provide the perfect environment for technically demanding coating processes

Malcolm Edwards e: medwards@plastic-coatings.com

Poeton Industries Ltd

Gloucester Gloucestershire United Kingdom t: 01452 300500 w: www.poeton.co.uk

Poeton is a privately owned surface treatments group based in the UK. Production facilities are based in Gloucester and Cardiff. The group employs 150 across its two UK sites. The business was founded in 1898. A JV, called ATC Poeton, was established in 2012 and has treatment capabilities in Singapore and Malaysia Our expertise covers design support, research & development and low, medium and high volume processing on a wide range of surface treatments, many trade-marked under the Apticote brand name. Our customer base covers all manufacturing sectors and we have a global customer base. Poeton R&D can provide wear and corrosion testing as well metallography and chemical analysis.

Trevor Amos e: trevoramos@poeton.co.uk

Porvair PLC

7 Regis Place Bergen Way Kings Lynn Norfolk United Kingdom PE30 2JN t: 01553 765500 w: www.porvair.com

Porvair is a specialist filtration technology group with two operating divisions, Metals Filtration and Microfiltration. Porvair-SELEE Metals Filtration division provides filtration solutions for molten metal to produce the high quality aluminium-alloy castings used in aircraft structures and superalloy turbine blades for aero engines. The Porvair-Microfiltration division provides bespoke aviation filtration solutions for commercial airframes.

Lorenzo A. Bacigalupo e: lbacigalupo@selee.com

PowerKut Limited

23 Brindley Road Bayton Road Industrial Estate Coventry West Midlands United Kingdom CV7 9FP t: 02476 644661

w: www.powerkut.co.uk

Engine, airframe, industrial gas turbine and defence machined and fabricated components supplied to customers globally. Machined components of all sizes and all metals including aluminium, magnesium, stainless steels to nickel and cobalt alloys. Nuclear components and assemblies supplied across the globe. UKAS electrical and mechanical calibration sites in Birmingham and Coventry providing full asset management and facilities management with paperless online certification and asset tracking. Single and multi-site total asset management program for gauge calibration and testing, including full repair and overhaul of equipment. OEM manufacture of laboratory inspection equip-

ment accuracy of 0,000 l mm. Manufacture of standard

range of thread gauges, plug gauges, multi meters,

Peter Everitt e: Pete.everitt@powerkut.co.uk

pressure gauges, micrometers.

Pre-Met Limited

Studley Road Redditch Worcestershire United Kingdom B98 7HJ t: +44 (0)1527 510535 w: www.pre-met.com

Pre-Met is one of the largest precision engineering companies in the UK 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 and lead wire services; moulding; and machining. AS9100 accredited and SC21 Bronze Award holder.

Mark Smith e: mark.smith@pre-met.com

Preci-Spark Ltd

Chapel Street Syston . Leicester Leicestershire United Kingdom LE7 IHN t: 0116 260 7911 w: www.preci-spark.uk.com

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.

e: andre@preci-spark.uk.com

Precision Micro Limited

I I Vantage Way Erdington Birmingham West Midlands United Kingdom B24 9GZ t: 0121 380 0100 www.precisionmicro.com

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.

Lee Weston e: lee.weston@meggitt.com

Ricardo UK Limited

Midlands Technical Centre Southam Road Leamington Spa Warwickshire United Kingdom CV31 IFO t: 01926 319319 w: www.ricardo.com

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 C, and we specialise in the manufacture of high-quality transmission products 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" prismatic machining up to 1.5 meters long.

Mick Strong e: mick.strong@ricardo.com

Roechling Bowden Hey Road Chapel-en-le-Frith High Peak Derbyshire United Kingdom SK23 0QZ t: 01298 811800

w: www.roechling-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 1 mm 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.

Mike Fryer e: mike.fryer@roechling-fibracon.co.uk

Rolls-Royce PLC

PO Box 3 Moor Lane Derby Derbyshire United Kingdom DE24 8BI t: 01332 242424 w: www.rolls-royce.co.uk

Rolls-Royce is a global company, providing integrated power solutions for customers in civil and defence aerospace, marine and energy and power markets. We support our customers through a worldwide network of offices, manufacturing and services facilities. In civil aerospace Rolls-Royce is powering over 30 types of commercial aircraft. The installed civil engine base is around 13,000 and in 2014 the Trent XWB, world's most efficient aero engine, entered service. In defence aerospace Rolls-Royce is supporting 160 customers in over 100 countries and has 16,000 engines in service. In Marine, Rolls-Royce is the leader in clean, efficient power and propulsion systems and has equipment installed on over 25,000 vessels for 4,000 customers.

Rudd Macnamara

Holyhead Road Handsworth Birmingham West Midlands United Kingdom B21 0BS

t: 0121 523 8437

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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 and UTC Actuation Systems We also supply Bombardier, Meggitt Controls, UTC Marston Aerospace 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 and 2D data matrix marking; and bar coding.

e: vsmith@ruddmacnamara.com

Schivo Group

Unit C Mortimer Road Narborough Leicestershire United Kingdom LE19 2GA t: (0) 1162 864898

SCHIVO Group has over 35 years expertise in the manufacture of high-precision machined components, complex fabrications and complex assemblies, operates from four facilities in Ireland and the UK, Serving the medical device, instrumentation, aerospace, process control, electronics, IT/telecom, automotive and oil & gas industries, SCHIVO Group has established a reputation for innovation, performance and excellence within its customer base. Employing circa 130 qualified, trained and empowered staff, SCHIVO Group operates a fully integrated manufacturing and supply capability with high levels of customer focus, quality and cost competitiveness.

Liam Haberlin e: lhaberlin@schivogroup.com

Semelab Limited

Coventry Road Lutterworth Leicester Leicestershire United Kingdom t: 01455 552505 w: www.semelab-tt.com

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.

e: sales@semelab-tt.com

Shaw Sheetmetal (Rugby) Ltd

2-6 Upton Road Rugby Warwickshire United Kingdom CV22 7DL t: 01788 536033

w: www.shawsheetmetal.co.uk

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

Phil Shaw e: phil@shawsheetmetal.co.uk

SIFCO Applied Surface Concepts (UK) Ltd

Units 12 - 14, Aston Fields Trading Estate Aston Road Bromsgrove Worcestershire United Kingdom B60 3EX t: 01527 557740 w: www.sifcoasc.com

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

Mark Smith e: m.smith@sifco.co.uk

Sigma



Sigma Precision Components UK Ltd

Alan Bray Close Dodwells Bridge Industrial Estate Hinckley Leicestershire United Kingdom LEI0 3BP t: 01455 445500 w: www.sigmacomponents.co.uk

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, ISO14001, 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.

Michael Andreae e: mike@avingtrans.aero

SL Engineering Ltd

Temple Road . Aslackby Sleaford Lincolnshire United Kingdom NG34 0HJ t: +44 (0) 1778 440228 w: www.sl-engineering.co.uk

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 (5-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 CNC plant and equipment, we have an internationally recognised reputation for producing competitively priced high-quality products used on many of today's leading aerospace programmes.

Shaun Stevenson e: sstevenson@sl-engineering.co.uk

Smiths Metal Centres Ltd

Unit 3 Power Station Road Rugeley Staffordshire United Kingdom WSI5 2HŠ t: 01889 576117 w: www.smithmetal.com

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.

Martin Underhill e: underhillm@smithmetal.com

Southwest Metal Finishing Ltd

Alphinbrook Road Marsh Barton Trading Estate Exeter Devon United Kingdom EX2 8TJ t: 01392 258234 w: www.eicgroup.co.uk

We are part of the EIC group of companies and have over 75 years experience in offering a very comprehensive range of high quality electro-plating, anodising, chemical conversion coatings and non-destructive testing. We hold many aerospace prime approvals as well as Nadcap, AS 9100 & ISO 14001. We also carry out work for the defence, marine and automotive industries. We can also offer a one stop shop for metal treatments as we have the option to paint at our paint facility. We can also offer technical support on new projects to identify best practices/applications.

Chris Smith e: chris-s@eicgroup.co.uk

Specialized Shot Peening

I Park Gardens Huthwaite Nottingham Nottinghamshire United Kingdom NG17 4FX t: 01623 614792

w: www.shotpeeningservicesuk.com

Specialized shot peening provides a subcontract controlled shot peening, glass bead peening, peen forming, on site shot peening, plastic media stripping and xylan coating service. All our work is carried out to the highest of standards. We meet all demanding timescales and carry out emergency work.

Callum Martin e: callum@sspeening.com



Spincraft ETG Ltd

9 Shelley Road Newburn Industrial Estate, Newburn Newcastle Upon Tyne Newcastle upon Tyne United Kingdom t: 0191 267 1011 w: www.spincraft-etg.com

Part of Standex International Corporation's Engineering Technologies Group, Spincraft ETG Ltd provides innovative manufacturing solutions to Tier I and OEM level companies, supplying formed metal components and assemblies used in a wide range of performance critical industries.

Brian Batchelor e: bbatchelor@spincraft-etg.com

Surface Technology Plc

Alpha Business Park Coventry West Midlands United Kingdom CV2 IEQ t: 024 7655 1401

w: www.surfacetechnology.co.uk

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.

Debbie Reilly e: debbie.reilly@surfacetechnology.co.uk

Tamworth Heat Treatment Ltd

7 Darwell Park Mica Close Tamworth Staffordshire United Kingdom B77 4DR t: 01827 318030 w: www.tamworth-heat.co.uk

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

Alan Whitehouse e: ALAN@TAMWORTH-HEAT.CO.UK

Technetics Group UK

Acan Way Coventry Road Narborough Leicestershire United Kingdom LEI9 2FT t: 0116 272 7411

w: www.techneticsgroup.com

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.

Steve Hill e: steve.hill@technetics.com

Techniswage Ltd

Unit 3B Summit Crescent Industrial Estate Warley West Midlands United Kingdom B66 IBT t: 0121 553 2364 w: www.techniswage.com

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.

Paul Fellows e: sales@techniswage.com

Technoset Ltd

Unit 3A Roman Way Glebe Farm Industrial Estate Rugby Warwickshire United Kingdom CV21 IDB t: 01788 560522 w: www.technoset.com

Manufacturers of high precision turned and milled components and assemblies using multi axis CNC turning and machining centres, mainly for aerospace and defence, telecoms, motor sports and medical industries.

Kevan Kane e: kevan@technoset.com

Tekdata Interconnections Limited

Innovation House The Glades Stoke on Trent Staffordshire United Kingdom t: 01782 254700

w: www.tekdata-interconnect.com

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, cryogenic), complex caonierbox 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.

Tracy French
e: tracy,french@tekdata-interconnect.com

Tex Tech Industries

Kilkenny County Kilkenny Ireland United Kingdom t: 353 56 7761426 w: www.textech.us

World's largest supplier of aviation seat fire blocking materials. Designer and manufacturer of state of the art thermal/acoustic insulation for all leading OEMs art thermal/acoustic insulation for all leading OEMs including: Airbus; Boeing; Gulfstream; Bombardier; Embraer; and others. Tex Tech's advanced technologies are specified by military, commercial, business and new composite aircraft. With many years of aviation industry experience we have worked directly with the FAA to pass the strictest FAA, DOT and JAA aviation standards for fire and burnthrough protection. Products used by completion centres throughout the world include acoustic over and between frame blankets, carpet underlay, divider panel and moisture control felt.

Seamus Mulrooney e: textech2@eircom.net



Thermofax Ltd

Block 2, Grazebrook Industrial Park Peartree Lane Dudley West Midlands United Kingdom DY2 0XW t: 01384 230214 w: www.thermofax.co.uk

Heat Treatment Services. Stress relieving: annealing; normalising; tempering; precipitation hardening; solution treatment. From 1 gram to 30 tonne furnace charges, lengths up to 8000mm. 16 tonne maximum single lift. Maximum diameter 7000mm. Fabricated tools processed in mild steel, aluminium, titanium, stainless steel, invar, other nickel alloys

Thomas Bullock e: tombullock@thermofax.co.uk

Timet UK Limited

PO Box 704 Witton Birmingham West Midlands United Kingdom t: 0121 356 1155 w: www.timet.com

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.

Ben Kitson e: ben.kitson@timet.com

Timken Aerospace UK Ltd

P O Box 667 Upper Villiers Street Wolverhampton West Midlands United Kingdom WV2 4UH t: 01902 719300 w: www.timken.com

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

Mark Doherty e: mark.doherty@timken.com

Trust Precision Engineering Ltd

Unit 2 Meadowbank Cour Eastwood Nottingham Nottinghamshire United Kingdom NG16 3SI t: 01773 719239

w: www.trustprecisionengineering.co.uk

Trust Precision Engineering is a family-owned and run East Midlands based company specialising in sliding head machining. A 'no compromise' philosophy has been adopted from day one. The aim is to provide the highest level of service using the best available machine tools, systems and associated equipment. Accredited to AS9100 Revision C, Trust Precision Engineering provides a subcontract machining service to the aerospace and associated high integrity industries.

Stephen Doyle e: steve@trustprecisionengineering.co.uk

TTI Group Ltd - Nitriding Services

Telford Shropshire United Kingdom TFI 7YU t: 01952 677372 w: www.ttigroup.co.uk

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 e: martindyson@ttigroup.co.uk

Tufnol Composites Ltd

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

Tufnol Composites Ltd manufactures 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.

Terry Bettridge e t.bettridge@tufnol.co.uk

Turnell & Odell Limited

Sanders Road Finedon Road Industrial Estate Wellingborough Northamptonshire United Kingdom NN8 4NI 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 opera tion machinery.

Clive Odell e: clive@toengineering.co.uk

UTC Aerospace Systems - Actuation & Propeller

Stafford Road Fordhouses Wolverhampton West Midlands United Kingdom WVIO 7EĤ t: 01902 624 9494

w: http://utcaerospacesystems.com/cap/systems/Pages/systems.aspx

Actuation & Propeller Systems (APS) is a global leader in actuation and propeller design and manufacturing for commercial and military aircraft. We have facilities in the UK, Europe, US, North Africa, Canada and Singapore which provide design, manufacture, maintenance and support. Our products range from single actuators to complete flight control systems for fixed wing, rotorcraft and missile segments as well as high power propeller systems, fly-by-wire cockpit and cabin controls, THSA and flight safety parts for helicopters. All our products are serviced by a global network including maintenance, repair and overhaul, spare parts, training, logistics and technical support.

Donna Halfpenny e: donna.halfpenny@utas.utc.com

UTC Aerospace Systems - Marston Aerospace

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

Peter Law e: peter.law@hsmarston.co.uk

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

Victoria Drop Forgings

Wednesfield Road Wolverhampton West Midlands United Kingdom WV13 IAG t: 01902 605 141

w: www.victoriaforgings.co.uk

The company has been established for over 100 years and has supplied forged parts into the aircraft industry since the 1920s. We are dedicated to total quality and service and although we are proud to have achieved over 94% deliveries on time and with over 96% quality right first time, we will not be satisfied until we consistently achieve 100%. Accredited to AS9100C, we supply many of the major OEMs and their 1st & 2nd tiers with closed die forgings in various materials including aluminium alloy and stainless steel for connectors, actuators, levers and general closed die forgings.

Geoff Radford e: geoff.radford@victoriaforgings.co.uk

Wallwork Heat Treatment Limited

Sydenham Road Small Heath Birmingham West Midlands United Kingdom BII I DG 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 CVI 4DQ t: 02476 258 811

w: www.wheelabratorimpact.com

Wheelabrator Impact Finishers is the specialised subcontract 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 (WAIM) 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

Meridian
Leicester Road, New Packington
Ashby de la Zouch
Leicestershire
United Kingdom
LE65 1TR
t: 01530 416888
w: www.wireinserts.com

WTI Fasteners Ltd is a UK based company, established in 1989 as a specialist manufacturer of helically coiled wire thread inserts. Produced from aerospace quality stainless steel, the insert provides a high performance internal thread in materials such as aluminium, which resist the effects of temperature and corrosion. Registered to AS9100 revC /ISO 9001:2008, our mission at WTI is to supply excellent products, and combine that with a high level of customer service and technical support.

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

Company Capabilities	A & M EDM Ltd	Abbey Metal Finishing Co Ltd	Accrofab Ltd	Acorn Surface Technology Ltd	ActOn Finishing Ltd	adi Group	Advanced Chemical Etching Limited	Advanced Manufacturing Utilisation Ltd	Advanex Europe Ltd	AE Aerospace Ltd	Aerocom Metals Limited	Aeromet International Plc	AGC AeroComposites Derby	Akzo Nobel Aerospace Coatings Ltd	Alloy Heat Treatment Ltd	Alloy Wire International	Alpha Adhesives & Sealants Ltd	Aluminium Special Products Limited	ANT Industries	Arrowsmith Engineering (Coventry) Ltd	Ashton & Moore Ltd	Atlas Composites Limited	Bodycote Heat Treatments Ltd	Bohler-Uddeholm (UK) Limited	British Rema Processing Ltd	Bulwell Precision Engineers Ltd	Burcas Ltd	C & H Precision Finishers Limited	Caparo Accles & Pollock Ltd	Chinn Ltd	Cinch Connectors Ltd	Colledge & Morley Ltd
Adhesives & Coatings	•	•	•	•	•							•		•			•				•				•	•						
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Colledge & Morley Ltd	Columbia Precision Ltd	Controls and Data Services	Copper & Optic Terminations Ltd	Croft Engineering	Cube Precision Engineering	Cytec Industrial Materials (Derby) Ltd	D & S Engineering (Coventry) Limited	Danatrol	Davromatic Precision Ltd	Delcam Ltd	DMS Plastics Ltd	Doughty Precision Engineering Ltd	Dunlop Aircraft Tyres Limited	Dynamic Metals Ltd	Electro-Discharge Ltd	Encocam Ltd	Energy Tubes Ltd	EPM Technology Group	Erodex (UK) Ltd	Esterline Corporation	Flextronics Aerospace & Defense	Future Metals UK	G & O Springs Ltd	Gardner Aerospace - Derby Ltd	Gould Alloys Limited	Graves Aircraft Components Limited	Greene Tweed and Co Limited	Harris RCS	Henton Engineering Ltd	Hucknall Sheet Metal Engineering Limited	Icon Polymer Group	Ilmor Engineering Ltd	IM Kelly Aerospace	Impregion UK Ltd	Indestructible Paint Limited	Invotec Circuits (Tamworth) Limited	ITP Engines UK Limited	JJ Churchill Ltd	Joss Engineering Ltd	Kepston Limited	Kigass Aero Components Ltd
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Company Capabilities	KMF Precision Sheet Metal Limited	Knight Strip Metals Limited	Kugel Motion Ltd	LGG Charlesworth	Manthorpe Engineering Ltd	Maycast Nokes Precision Engineering Ltd	Meggitt	MEP Ltd	Mettis Aerospace Limited	MG Sanders Limited	Micro Spring & Presswork Ltd	Microjet Precision Services Ltd	Micrometric Limited	Midland Alloy Limited	Midland Tool & Design Limited	MJ Sections Limited	MNB Precision Ltd	Momentum Engineering Ltd	Moog Aircraft Group	Morgan Technical Ceramics - Certech	MP Engineering UK Limited	Nasmyth Arden	Nasmyth Group Limited	NMB-Minebea UK Limited	O.L.D Engineering Limited	PAB Coventry Limited	Paragon Engineering & Logistics Ltd	Parker Precision Ltd	Pentaxia Limited	Perfect Bore Manufacturing Limited	Phoenix CNC Engineering Ltd	PGM Re-Ball Ltd PK Engineering 1 rd
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Armaments and Related Equipment			•						•	•	•				•					•		•					•					4
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Control Systems & Equipment			•						•		•	1							•			•										
Electrical Cable Accessories/Electrical Harnesses							•								•																	
Electrical Panels & Electrical Components Electrical Power Systems & Equipment	•								•		•				•				•			•										
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Meadow Lane St Ives Cambridgeshire United Kingdom PE27 4LG t: 01480 302700 w: www.42technology.com

42 Technology is a technology innovation and product development company that has been working with clients to create products and manufacturing processes in the aerospace, industrial, consumer and medical sectors since 1998. Our team has particular strengths in addressing complex system level problems, often requiring in-depth analysis, and modelling and has established an impressive track record in sensor development, wireless, fluid handling and thermal management. The in-house team of engineers, physicists, designers and project managers is supplemented by an extensive network of associates and partner companies to assemble the right project team for our

e: andy.rhodes@42technology.com

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Adel Ben Smida e: adel.ben@aernnova.com

R&D investment in new technology.

Altran UK Ltd

Business Innovation Centre Binley Business Park Coventry West Midlands United Kingdom CV3 2TX 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 e: denton.clutterbuck@altran.com

Axis-Eu Ltd

Unit 15, Narborough Wood Park Enderby Leicestershire United Kingdom LEI9 4XT t: 0116 275 4130 w: www.axiscades.com

AXISCADES offers solutions that range from concept generation phase to manufacturing support and certification, making us the preferred choice of engineering partner for aerospace OEMs and tier I suppliers. Our deep domain expertise across commercial, business and military aircraft both in fixed wing and rotary aircraft segments has enabled us to adopt a customer centric approach and an ability to co-create innovative solutions resulting in AXISCADES becoming a trusted value partner. AXISCADES provides integrated solutions for system and sub-systems including: primary and secondary structures (metallic and composites); electrical wiring harness design; aircraft interiors; manufacturing engineering; technical publication; reports on non-conformances and avionics.

Malcolm Moore e: moorem@axis-eu.com

BHR Group

BHR Group - VirtualPiE Limited The Fluid Engineering Centre Cranfield Bedfordshire United Kingdom MK43 0AI 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 e: gmcnulty@bhrgroup.co.uk

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Nikki Thomas e: nikki.thomas@cyient.com

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.

David Park e: david.park@eminate.co.uk

FTT(UK) Ltd

21 Sadler Bridge Road Bold Lane Derby Derbyshire United Kingdom DEI 3NT t: 01332 258371 w: http://www.fttinc.com/

FTT specialises in the engineering, development, and testing of gas turbines, propulsion components, turbopumps, and systems for military and commercial aircraft, space propulsion, and industrial applications, including clean power generation and oil and gas. FTT's extensive working knowledge of the detailed design process and our expertise – more than 4000 years of turbomachinery and combustion experience – gives our customers industry-best durability and performance for their products. We leverage our cross-industry capabilities to deliver innovative cost-saving solutions for our customers. Our extensive supplier base and continuing education programmes further add value to our services.

Robert Ress e: rress@fttukltd.co.uk

Institute of Materials Finishing

Exeter House 48 Holloway Head Birmingham West Midlands United Kingdom BIINQ t: 0121 622 7387

w: www.materialsfinishing.org

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

Ken Hoare e: ken@materialsfinishing.org

LMS UK Ltd

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

Leigh Gillard e: leigh.gillard@lmsintl.com

Morson Projects Limited

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

QuEST Global

Kelvin House, RTC Business Park London Road Derby East Midlands United Kingdom DE24 8UP t: 01934 421500

w: engineering.quest-global.com

QuEST Global is a focused engineering solutions company catering to the product development, introduction and service support needs of a diversified clientele. QuEST is headquartered in Singapore with more than 4200 global employees distributed across engineering centres in USA, Europe, and Asia Pacific. A leader in offshore aerospace engineering services, QuEST Global facilitates increased scalability and cost optimisation through flexible business models, giving customers the freedom to enhance their engineering requirements. With over 17 years of engineering excellence, we have served leading aerospace companies including Airbus, Boeing, Bombardier, GKN, Pratt, Rolls-Royce and UTAS amongst others

e: alison.tanner@quest-global.com

Sim-Cast Limited

Unit 5, 2 Lancaster Court Lancaster Park, Newborough Road Burton on Trent Staffordshire United Kingdom DE13 9PD t: +44(0) 1283 576 976 w: www.sim-cast.co.uk

Sim-Cast is a provider of improvement solutions to foundries producing vacuum cast components, specialising in single crystal, directional solidified and equiax casting processes. Using a range of quality tools such as ProCAST solidification software as well as 6 sigma and lean methodologies, Sim-Cast can provide turnkey improvement services to the aerospace, automotive, power generation and medical markets.

Ben Anderson e: Ben.anderson@sim-cast.co.uk

Tata Technologies

Enterprise Centre, University of Coventry Technology Park Puma Way Coventry West Midlands United Kingdom CVI 2TT t: 08443 759685 w: www.tatatechnologies.com

Tata Technologies, a company of engineers, led by engineers, helps manufacturers design and build better products. Through the company's comprehensive portfolio of engineering/IT services and solutions, manufacturers can better manage product development throughout the full manufacturing cycle. With over 8,000 employees, the company's delivery model is formulated specifically to offer a unique blend of deep, local expertise for global engineering and product development IT engagements. Tata Technologies currently serves clients in 25 countries with eight global delivery centers. Tata Technologies covers every aspect of the value chain starting from product conceptualisation to aftermarket maintenance repair and operations.

Tim Goodhead e: tim.goodhead@tatatechnologies.com

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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 build 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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Don Mann e: donn.mann@exova.com

Lucideon Ltd

Penkhull Stoke-on-Trent Staffordshire United Kingdom ST4 7LQ t: 0845 0260902

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e: john.cotton@lucideon.com

NDT Services Limited

Unit 10 Victory Park Victory Road Derby Derbyshire United Kingdom t: 01332 275700

NDT Services Ltd is now part of the Intertek Group PLC and is 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 facility. Company approvals include: UKAS, NADCAP, CAA and FAA. NDT Services operates from purpose-designed test laboratories in Derby and works with many industry sectors including: aerospace; nuclear; defence; power generation; oil and gas; transport; etc. A comprehensive site service to support our customers anywhere in Europe and covering all non-destructive testing disciplines is also offered.

Peter Maiden e: pete.maiden@intertek.com

Smithers Rapra and Smithers Pira Ltd

Shawbury Shrewsbury Shropshire United Kingdom t: 01939 250383

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Smithers Rapra Limited is recognised as a world leading rubber, plastics and composites consultancy delivering a comprehensive and strictly independent service covering: design and material selection; ma terial 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.

Jenny Cooper e: jcooper@smithers.com

Westmoreland Mechanical Testing & Research Ltd

19 Wildmere Road Banbury Oxfordshire United Kingdom OX163JU t: 01295́ 261211 w: www.wmtr.co.uk

Westmoreland Mechanical Testing and Research Ltd (WMT&R) is a leading materials test laboratory located in Banbury UK.WMT&R, accredited to UKAS 17025 and Nadcap, specialises 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.

Alan Cooper e: acooper@wmtr.com

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

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Castle Lane Melbourne Derbyshire United Kingdom t: 0844 209 0006

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Tony Parker e: tony.parker@acresengineering.co.uk

AFT Automation Ltd

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Christopher Rushton e: chris.rushton@aftuk.co.uk

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Chris Woodhams e: chris.woodhams@argentaconsult.com

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Scott McGarry e: scottmcgarry@atagroup.ie

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Kevin Partington e: kevin.partington@ats-global.com

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Kevin Ward e: kward@brownandholmes.co.uk

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Stuart Martin e: stuart@comarfluidpower.com

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Sidney Atkins e: sida@craigtools.com

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DENIOS Ltd

Units 1-3 Audley Avenue Enterprise Park Newport Shropshire United Kingdom TFI0 7DW t: 01952 822241 w: www,denios.co.uk

DENIOS Ltd design, manufacture and supply the most comprehensive range of products relating to all aspects of hazardous materials storage, environmental protection and health and safety at work including: storage solutions for drums & IBCs; cabinets for heating; melting and cooling substances for pre and post production operations; equipment for storing and handling gas cylinders; drum handling equipment; absorbents; spill kits; and personal protective equipment. DENIOS also offers a comprehensive training programme relating to the safe handling of chemicals and hazardous substances, ATEX awareness, managing safely, all designed to increase employee knowledge and appreciation of the dangers and so help minimise the costly risks businesses face daily. Your overall work safety and environmental protection solution provider in one place

Steve Hogan e: sth@denios.co.uk

Durr Ecoclean UK

Warwick Warwickshire United Kingdom CV34 5QF t: 07799 346611

w: www.durr-ecoclean.com

Dürr Ecoclean delivers products, systems and service solutions for technical cleaning applications and surface treatment processes. Aerospace industry customers and their suppliers, as well as part and component manufacturers from the wider industrial market – from the medical and optical equipment sectors to automotive and aircraft construction - appreciate our technology and our services. Equipment for the most diverse parts' cleanliness requirements, ultrafine cleaning, loading, unloading equipment, surface activation systems, fluid-based surface treatments prior to coating or painting, as well as high-pressure paint stripping, cavity preservation, phosphating and deburring applications. Medias include aqueous, solvent, modified alcohols and steam.

Matthew Cooper e: matthew.cooper@ecoclean.durr.com

Electroservices (Midlands) Ltd

Halesfield 7 Telford Shropshire United Kingdom TF7 4QL t: 0845 519 6724

www.electroservices.biz

Electroservices is one of the leading calibration and repair companies in the UK.We provide full customer support and satisfaction throughout the UK for onand off-site calibration and repair of test equipment including: air velocity; crimp; dimensional; HV; optical; pressure; RF & microwave; temperature; torque; vibration; and non-ionising radiation. Accreditations - UKAS, ISO 9001:2008, ISO 14001:2004 and SC21 Bronze Award. A Tier I prime contractor to the MoD and defence agencies, support to avionics, aerospace, communications, media and manufacturing sectors. Micro Movements is a recent acquisition by the Electroservices Group providing data acquisition, signal conditioning, recording, analysis and bespoke test rigs.

e: judith.smith@electro-services.com

Engineering Technology Group

Northfield Road Southam Warwickshire United Kingdom CV47 0FG t: 01926 818418

Exclusive UK distributor of high speed 5-axis Chrion machining centres and multi-spindle Nakamura-Tome turning centres. As part of ETG, Hyfore Engineering design and manufacture bespoke workholding and clamping devices for metal cutting applications.

Graham Thomas e: gthomas@engtechgroup.com

Exactaform Cutting Tools Ltd

Little Heath Industrial Estate Coventry West Midlands United Kingdom CV6 7ND t: 02476 665823 w: www.exactaform.co.uk

A premium manufacturer of advanced PCD cutting tools since 1979, primarily supplying the aerospace industry with solutions for abrasive applications. We supply blue chip OEMs through all tiers of the supply chain. Exactaform has a proven track record of innovation in composite machining and CRFP stack machining and has developed a leading range of one-shot solutions for high volume applications. This is complemented by one of the largest production facilities for PCD tooling in the UK and supported by a team of experienced aerospace engine

Iamie White e: jamie@exactaform.co.uk

Expert Tooling & Automation Ltd

Wickmans Drive Coventry West Midlands United Kingdom CV4 9XA t: 02476 428500 w: www.expert-amt.com

Design and manufacture of industrial solutions for the aerospace industry. With 40 years of experience, we develop the most suitable systems to match our clients' specification. We have in-house teams of designers, project managers, fitters and inspection engineers for all aerospace needs. Expert also provide

contract manufacture services to aerospace clients. We are global aerospace suppliers with headquarters based in Coventry, West Midlands. Expert's aerospace brochure is available to view on our website. Find us

Jason Glasse e: sales@exta.co.uk

Fisher Smith LLP

I-3 Spencer Street Ringstead Northamptonshire United Kingdom NN 14 4BX t: 01933 625162

w: www.fishersmith.co.uk

Fisher Smith LLP provides bespoke, innovative, turnkey machine vision solutions based upon computerised camera systems to inspect components during manufacture for adherence to tolerance. Inspection criteria often demand minute attention to size requirements and the detection of tiny flaws, as well as presence/ absence, placement and the accurate reading of codes. As long as we can obtain an image, which we usually can, then the inspection possibilities are almost limitless. We are proud suppliers to Rolls-Royce in Singapore and Barnoldswick.

Keith Philpot e: keith@fishersmith.co.uk

FMT Tooling Systems Limited

14b Orgreave Close Handsworth Industrial Estate Sheffield South Yorkshire United Kingdom S13 9NP t: 0114 293 9750

w: www.fmttooling.co.uk

Manufacturer of special cutting tools for various industries including aerospace, automotive, FI, medical, power generation to name a few. The company provides 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.

Martin Johnson e: Martin.johnson@fmttooling.co.uk

Fuchs Lubricants (UK) plc

New Century Street Hanley Stoke-on-Trent Staffordshire United Kingdom STI 5HU t: 01782 203700

w: www.fuchslubricants.com

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.

e: jill.cowell@fuchs-oil.com

Greentree

Sigma Close Shannon Way Tewkesbury Gloucestershire United Kingdom GL20 8ND t: 01684 533800

w: www.greentree-eng.co.uk

Greentree specialises in the supply and provision of masking, protection and jigging products and has the benefit of over 60 years' experience. As well as our large range of over 9000 standard masking and protection products we also specialise in custom products specifically for application such as powder coating & wet paint, plating & anodising, shot peening, plasma spraying and component protection, etc. With our in-house manufacturing facilities, extensive UK stocks and team of experienced design engineers Greentree provides cost effective solutions to increase productivity, reduce waste, provide a consistent component finish and protect products during storage and transportation.

Tessa Abraham e: tabraham@greentree-eng.co.uk

Heinrich Georg (UK) Limited

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Specialist in custom built special purpose equipment and 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. Neil Wyke

e: n.wyke@georguk.com

Hexagon Metrology Limited

Metrology House Halesfield 13 Telford Shropshire United Kingdom TF7 4PI t: 0870 446 2667

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Hexagon Metrology Ltd, 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 arms CMMs, laser trackers, white-light scanning systems, automation turnkey solutions, software and hand tools. A large service, support and applications team underpin all of our products to ensure complete customer satisfaction.

Christopher Ivory e: chris.ivory@hexagonmetrology.com

Hockley Pattern & Tool Co Ltd

Lodgefield Road Halesowen West Midlands United Kingdom B62 8AR t: 0121 561 4665 w: www.hockleypattern.co.uk

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.

Neil Williams e: neil.williams@hockleypattern.co.uk

Industrial Tooling Corporation Ltd

Cyber House I Kepler, Lichfield Rd Ind. Estate Tamworth Staffordshire United Kingdom B79 7XE t: 01827 304500 w: www.itc-ltd.co.uk

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, Anca and Deckel, ITC is sole UK stockist of Widia Hanita Cutting Tools, Widia Metal Removal Industrial Tooling, Air Turbine Technology High Speed Spindles and Micro 100 precision carbide tooling. 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.

Andy Boyles e: andy.boyles@itc-ltd.co.uk

Kennametal UK Ltd

Pensnett Trading Estate PO Box 29 Kingswinford West Midlands United Kingdom DY6 7NP t: 01384 401000 w: www.kennametal.com

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-inclass technologies and services that are used today by our customers to deliver up to 30% cost reduction and 60% cycle time reduction.

Clive Brittain e: clive.brittain@kennametal.com

Kyocera Unimerco Tooling Limited

Nanscawen Road Fradley Park Industrial Estate Fradley Staffordshire United Kingdom WS13 8LH t: 01543 267777 w: www.kyocera-unimerco.co.uk

Global manufacturer and distributor of high-performance standard and customised tools for your industry. Reducing your costs is our specialty; optimised 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; 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 costs of procurement and processing.

Jason Chodynicki e: jcc@unimerco.com

LB Foster Materials Handling

43 Wenlock Wa Troon Industrial Area Leicester L eicestershire United Kingdom LE4 9HU t· 0116 276 1691 w: www.conveyors.co.uk

LB Foster Materials Handling is 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 LB Foster Materials Handling 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, robotic automation. 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 e: adrian@conveyors.co.uk

Companies offering specialist support services and equipment

Link 51 (Storage Products)

Halesfield 6 Telford Shropshire United Kingdom TF7 4LN t: 0800 169 5151 w: www.link51.co.uk

Midlands-based Link 51 designs, manufactures and installs bespoke pallet racking and shelving systems for a range of requirements including parts and component storage, record and archive storage and personal storage systems. Our solutions can be found in manufacturing and engineering premises across the UK and Europe. We supply the aerospace supply chain with storage solutions for the efficient handling, selection and control of stock and other manufactured products including palletised goods or individual items which can be automatically or manually picked.

Simon Baugh e: enquiries@link5 l .co.uk

MA Ford Europe Ltd

Unit 38, Royal Scot Road Pride Park Derby Derbyshire United Kingdom DE24 8AJ t: 01332 267960

w: www.mafordeurope.com

We design and manufacture advanced high performance cutting tools for the aerospace industry, with a clear focus on performance and precision. Our extensive experience within this sector has enabled us to introduce a range of innovative tooling solutions to meet demanding high performance cutting specifications on aluminium and specialised aerospace alloys together with composite and stacked composite materials. Our expertise also goes beyond the high performance tooling within our range and incorporates precision 'non-pull out' tool holding solutions, optimised tool path software and cutting tool performance enhancement systems to give a unique suite of machining solutions for aerospace applications.

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Master Abrasives Ltd

Long March Ind Estate East Midlands United Kingdom NN11 4PG t: 01327 703813

w: www.master-abrasives.co.uk

Master Abrasives is a leading supplier of abrasives for grinding and finishing applications in various markets, but particularly the aerospace industry. Manufacturing a comprehensive range of abrasive belts with an impressive 5 day lead time, Master represent sia, Standard Abrasives, 3M and Saint-Gobain Abrasives. The portfolio also includes the complete range of Meister superabrasive products and all sizes of Master branded conventional grinding wheels. Other partners of Master include Atlas Copco, Apex Tool Group, Dynabrade, Cratex, Urma Rolls and Darmann. Through the Master Tool Services department, they can offer full support (HAV testing, training etc) and servicing of tools.

Abigail Adams e: aadams@master-abrasives.co.uk

Mills CNC Limited

Tachbrook Link Leamington Spa Warwickshire United Kingdom CV34 6SN t: 01926 736736 w: www.millscnc.co.uk

Mills CNC, established over 38 years ago, is 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 specialises in providing technical engineering solutions to a wide customer base in all industry sectors. Delivering in excess of 300 machines every year, Mills employs 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

Kevin Gilbert e: kgilbert@millscnc.co.uk

Mitsubishi Materials UK

Mitsubishi House Galena Close, Amington Heights Staffordshire United Kingdom B77 4AS t: 01827 312312 w: www.mitusbishicarbide.com

Mitsubishi Materials UK is an advanced materials and 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

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NHE

Godiva Place Coventry West Midlands United Kingdom CVI 5PN t: 024 7625 3099 w: www.nhe.uk.com

NHE -- through its well known brands of Plasticraft, Ardrox Engineering and Lancy Technology -- designs, manufactures, installs and commissions 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

Will Green e: will,green@nhe.uk.com

Orchard Environmental Systems

Ettingshall Road Wolverhampton West Midlands United Kingdom WV2 2LD t: 01902 408766

w: www.orchardenvironmetalsystems.co.uk

Process engineers, we specialise in the design and manufacture of automatic and manual chemical process plant, fume extraction systems and scrubbers to meet the latest clean air regulations, together with the handling and treatment of chemical effluent to meet customer's consent conditions. We are able to offer a total service, including: environmental assessment of your present system, provision of a new turnkey system, operator training, and maintenance. We offer a 24 hour breakdown service to all our established clients. We also manufacture one-off fabrications in all thermoplastic materials, tanks etc. We undertake onsite maintenance and repair or all of the above.

Ray Smith e: rsmith@oesgroup.co.uk

Phoenix Calibration & Services Ltd

Unit 8,The Wallows Industrial Estate Fens Pool Avenue Brierley Hill West Midlands United Kingdom t: 00 44 (0) I 384 480 545

w: www.phoenixcalibration.co.uk

Phoenix leads the way in specialist test machines and sub-contract testing services for a diverse range of sectors; aerospace, automotive, pharmaceutical and energy are just some of the sectors we work with. Phoenix offers a complete end to end service: from bespoke design, manufacture and installation of machines and control systems, to ongoing support, refurbishment and re-purposing of existing equipment.
The specialist in-house, sub-contract, materials testing lab allows us to collaborate fully with our customers, offering development of testing techniques and technologies, as well as added capacity for overflow or bespoke work,

Vicki Wilkes e: vicki@phoenixcalibration.co.uk

R E Bowers & Freeman Limited

15 Saffron Road South Wigston Leicestershire United Kingdom LEI8 4TG t: 0116 278 5311

w: www.bowersfreeman.co.uk

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.

e: johnbowers@bowersfreeman.co.uk

Roemheld (UK) Limited

28 Knowl Piece Wilbury Way Hitchin Hertfordshire United Kingdom SG4 0TY t: 01462 459052

w: www.roemheld.co.uk

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

e: bneal@roemheld.co.uk

mounting; and machine vices.

RTC Electronics Ltd

Systems House Willenhall Lane West Midlands United Kingdom CV2 3AS t: 02476 444000

w: www.rtcelectronics.co.uk

Supplier of bespoke, turnkey, electro-hydraulic test rigs for the aerospace industry. Specialists in customisation, integration and non-standard applications, supplying avionics Hardware In the Loop systems, closed loop servo control systems, control instrumentation with data acquisition. Complete turnkey solutions for design, manufacturing, installation and commissioning services. Iron bird, development, qualification, production test rigs supplied for military/commercial programs on primary/secondary flight controls, thrust reverser systems, landing gear, helicopter MRA/TRA, utility actuators. Commercial programs include A380, A350, A320neo, 787, C-Series. Military programs include JSF, Eurofighter and Typhoon. RTC supplies ground support and specialist ATE test equipment.

Nick French e: sales@rtcelectronics.co.uk



Our innovation, your solution

Sil-Mid Ltd

Units I & 2 Roman Park Roman Way Coleshill West Midlands United Kingdom B46 IHG t: 01675 432850 w: www.silmid.com

Sil-Mid Limited is an international distributor of specialist consumables which includes adhesives, lubricants, silicones, PPE, cleaning agents and many more. Our core business has traditionally been within the aerospace industry which now extends to include automotive, rail, marine, renewable energy, engineering, defence, electronics and oil and gas exploration. Our expertise includes contract management, export packing and shipping of hazardous goods as well as a custom product repackaging service. With over thirty five years of trading, Sil-Mid Limited has built an extensive product listing of over 14,000 products from more than 400 vendors. We have a dedicated multi lingual customer service team. Order 24/7 from our website.

Gary Marriner e: garym@silmid.co.uk

Snap-On Industrial

38A Telford Way Kettering Northamptonshire United Kingdom NN 16 8UN t: 01536 413800 w: www.snapon.com

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, JDS1200 and MOD Defstans.

Eric Bright e: eric.bright@snapon.com

Star Micronics GB Ltd

Chapel Street Melbourne Derbyshire United Kingdom DE73 8JF t: 01332 864455 w: www.stargb.net

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 JBS 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.

Bob Hunt e: bob@stargb.com

Straaltechniek International Ltd

8 Valley Works Grange Lane Sheffield South Yorkshire United Kingdom S5 0DQ t: 01142 945437

w: www.si-shotpeening.co.uk

Straaltechniek International Ltd. is one of the few companies worldwide that both designs and manufactures automated shot peening and high-end blasting machines. Straaltechniek International Ltd. is very flexible in the individualised, tailor-made and bespoke configuration of machines and will always do its utmost to adapt a machine to fulfil all of the customer's requirements. Our footprint extends from the USA to the Far East, A sales and service network is available all over the world. Straaltechniek International Ltd. aims for potential customers within the (high-end) metalworking industries and is specialised in the aerospace industry.

Marco Wildhagen e: marco.wildhagen@si-shotpeening.co.uk

Surface Finishing Engineering Limited

Unit 16 Webner Industrial Estate Ettingshall Road Wolverhampton West Midlands United Kingdom WV2 2LD t: 01902 409186 w: www.sfeuk.com

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.

David Addison e: d.addison@sfeuk.com

Companies offering specialist support services and equipment

Teer Coatings Limited

Berry Hill Industrial Estate Droitwich Worcestershire United Kingdom WR9 9AS t: 01905 827 550 w: www.teercoatings.co.uk

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.

Andrew Murray e: andrew.murray@miba.com

UK Dies Group Limited

15 Birchall Street Birmingham West Midlands United Kingdom t: 0121 7735770 w: www.ukdiesgroup.com

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.

Paul Singh e: paul@ukdies.com

Vacuum Brazing Consultants Ltd

Unit 12 Pavilion Way Castle Business Park Loughborough Leicestershire United Kingdom TELL 5GW t: 01509 218008 w: www.vbcgroup.com

Manufacturer, stockist and distributor of aerospace grade brazing and welding filler alloys and auxhillary products. Technical support, training and project consultancy for metal joining. Manufacturer of the VBC InterPulse controlled heat power management tig set for welding of crack sensitive materials. Manufacturer of bespoke welding positional systems.

David Talbot e: david@vbcgroup.com

Yamazaki Mazak UK Ltd

Badgeworth Drive Worcester Worcestershire United Kingdom WR4 9NF t: 01905 755755 w: www.mazak.eu

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

Richard Smith e: rsmith@mazak.co.uk

MAINTENANCE, REPAIR AND OVERHAUL

CFS Aeroproducts Limited

The Alvis Works Bubbenhall Road Coventry West Midlands United Kingdom CV8 3BB t: 02476 305873 w: www.cfsaero.com

CFS Aero is an EASA and FAA Part 145 component overhaul facility based in Coventry supporting the GA, commercial and military market in repair and overhaul of a wide range of propellers, undercarriage, piston and turbine engines. CFS Aero holds Level 3 NDT capability and offers both an in-house and field service.

David Newhouse e: david@cfsaero.com

GJD Aerotech Limited

The Main Hangar, Bruntingthorpe Aerodrome Bruntingthorpe Lutterworth East Midlands United Kingdom **LE17 5OS** t: 0116 2799 195 w: www.gjdaerotech.com

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

Gary Spoors e: gary.spoors@gjdaerotech.com

Copeland Street Derby Derbyshire United Kingdom DEI 2PU t: 01332 349094 w: www.med-lab.co.uk

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

Steve King e: steve.king2@cytec.com

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2 Bramble Way Clover Nook Industrial Estate Alfreton Derbyshire United Kingdom t: 01773 836132

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Darren Beadell e: dbeadell@ermcuk.com

PARTS AND LOGISTICS **MANAGEMENT**

AAR International

Joint Sentry Support Team RAF Waddingtor Lincoln Lincolnshire United Kingdom I N5 9NB t: 01522 728734 w: www.aarcorp.com

Supplier of aviation parts.

Steve Higgins e: steve.higgins@aarcorp.com

Air & Ground Aviation Ltd

Aviation House London Road Shirleywich **Staffordshire** United Kingdom STI8 OPN t: 01889 271777

w: www.airandground.com

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.

Matthew Powell e: matthew.powell@airandground.com

Amco Services (International) Ltd Unit I 6a Blackpole Trading Estate Blackpole Road Worcester Worcestershire United Kingdom WR3 8SG t: 01905 75800

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Founded in 1983, AMCO Services (International) Limited has provided reliable, cost-effective logistics services across a wide range of business sectors for over 30 years. Our highly experienced team also specialises in the supply of high-quality sequencing and logistics services to the defence, automotive, aerospace and FMCG (fast moving consumer goods) industries. AMCO has developed sophisticated and robust systems in order to satisfy our clients' demands and to deliver a full, integrated range of services to the highest standards possible. We achieve this through the use of ISO standard work processes, investment in our staff and technology, and the employment of reliable distribution and warehousing systems.

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CEVA Logistics

CEVA House Excelsior Road Ashby de la Zouch Leicestershire United Kingdom LE65 INU t: 01530 568500 w: www.cevalogistics.com

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

Sean Kelly e: sean.kelly@cevalogistics.com

Daher Aerospace Limited

Amberley Drive Sinfin Lane Derby Derbyshire United Kingdom DE24 9RE t: 01332 274300 w: www.daher.co.uk

Daher is an equipment manufacturer that develops integrated industrial systems for aerospace and advanced technologies. By linking its know-how in industrial manufacturing, product and process engineering, logistics and transport, and industrial services, Daher designs and develops value-added solutions for its industrial partners, who benefit from this convergence of industry and services. Daher has established itself as a leader in 5 fields of activity: aircraft manufacturer, aerostructures and systems, integrated logistics, nuclear services, and valves. Daher posts turnover of nearly a billion euros, and its order book stands at around three and a half years of turnover.

Roberto Tonna e: r.tonna@daher.co.uk

DS Smith

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 $\ensuremath{\mathsf{DS}}$ Smith Packaging Division specialises in the design and manufacture of heavy duty packaging, supplying packaging solutions to protect, store and transport product locally and globally. We are a local, responsive network centred at Hinckley, supported by 4 dedicated heavy duty sheet plants, with the resources of DS Smith Plc behind us employing over 20,000 people across 20 countries. Industrial packaging solutions is what our business is all about.

Helen Wiggins e: helen.wiggins@dssmith.eu

GEFCO

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Nick Bennett e: nick@on-logistics.co.uk

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Wincanton

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In-Comm Training & Business Services Ltd

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Gareth Jones e: garethj@in-comm.co.uk

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MPI Aviation Ltd

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MPI Aviation is a consultancy in the broadest sense of the word and has provided personnel and specialist aircraft services to the industry since 1962. MPI operates from 5 UK offices and its portfolio is wide-ranging including: recruiting: screening and assigning skilled temporary (contingent) personnel and permanent staff to MROs; airlines; manufacturers and the MOD; performing fuel tank leak repairs; component and loom harness replacements and structural repairs; delivering classroom-based human factors; SFAR88; EWIS/EZAP and other health and safety training; providing vendor management services by screening; aligning and managing the agency supply chain; undertaking aircraft repairs; and modifications on a fixed price basis.

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Vault IP Ltd

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Vault IP is a new intellectual property law firm set up to service UK engineering SMEs. The company's founder, Phil Sanger, has an MEng from Bath, as well as experience as an engineer (working for Arup) before joining the patent profession. He has 10 years experience in IP, and is a Chartered and European patent attorney and a qualified litigator. The company is therefore well placed to help engineering SMEs protect their innovations. We understand the problems SMEs face - because we are one. Therefore we are focused on providing a friendly, commercial and responsive service at a reasonable cost.

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As the local authority for the City of Derby we are committed to supporting our companies and helping to achieve economic growth. We work with a huge range of local partners to build on Derby's historic success, particularly in manufacturing, and are proud to be home to global brands such as Rolls-Royce and Bombardier. In 2012 we officially secured £40m worth of Regional Growth Funding. £20m of this is being used to promote the expansion of business in and around Derby. For more information about funding support available see www.derby.gov.uk/degf

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Institute for Aerospace Technology (The University of Nottingham)

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The Institute for Aerospace Technology at The University of Nottingham is a major centre for aerospace research. 50+ academics and 300 researchers, involved with projects worth c. £75 million, provide world leading research in materials and structures, manufacturing, electrical systems, engines and propulsion, and operations. The IAT provides a range of facilities for aerospace research and technology demonstration, including an $1850 m^2$ dedicated research and knowledge transfer centre. This Aerospace Technology Centre houses multi-disciplinary projects that build on our world-leading fundamental research, strengthening relationships with our industrial partners. We work with both SMEs and multi-nationals to provide access our graduates, improve their innovation capacity and solve technology problems.

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University of Birmingham - Birmingham Research

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The University of Birmingham has been collaborating with the aerospace industry for several decades With world class facilities for materials research in our School of Metallurgy and Materials, we have developed key expertise relevant to the aerospace industry in titanium based alloys, net shape manufacture, composites and casting technology. Further expertise includes energy saving and waste reduction in manufacturing processes and laser fabrication.
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University of Derby, School of Technology

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The School of Technology at the University of Derby offers education to the aerospace industry in mechanical and manufacturing engineering, electronics and electrical engineering and business improvement techniques at foundation degree and honours degree level. We also offer consultancy, learning through work and short course provision in the same areas.

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University of Leicester

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University of Wolverhampton

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Warwick Manufacturing Group

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w: www.finditinwolverhampton.gov.uk

Wolverhampton is home to many precision engineering firms which supply essential components to the motor and aerospace industries. These companies proudly share their technological innovation and best practice, set high standards in training and development, and have a strong skills base. The Lightning II Joint Strike Fighter - the latest vertical take-off and landing superjet - would not be able to leave the ground without essential engine rotation and actuation components manufactured in Wolverhampton. Many other aircraft - civilian and military - rely on precision engineered components from the city.

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HONORARY MEMBER



3(F) Squadron, Royal Air Force RAF Coningsby Lincolnshire LN4 4SY

www.raf.mod.uk/organisation/3squadron.cfm

No. 3 Squadron is one of the UK's front-line RAF fighter units. No. 3 was one of the three founder squadrons of the Royal Flying Corps, formed in 1912. In 1917, Sopwith Camels were received and the squadron became a fighter/scout unit. Just as the Second World War started, the squadron received Hurricanes at Biggin Hill, also flying Typhoons and Tempests. After the war, No.3 Squadron was based in Germany, converting to Vampires, Sabres, Hunters, Javelins then Canberras. From the early 1970s, there followed many years flying Harriers based in Germany before returning to RAF Cottesmore. In 2006 the squadron moved to RAF Coningsby to become the third RAF and first front-line RAF squadron to be equipped with the Eurofighter Typhoon.

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