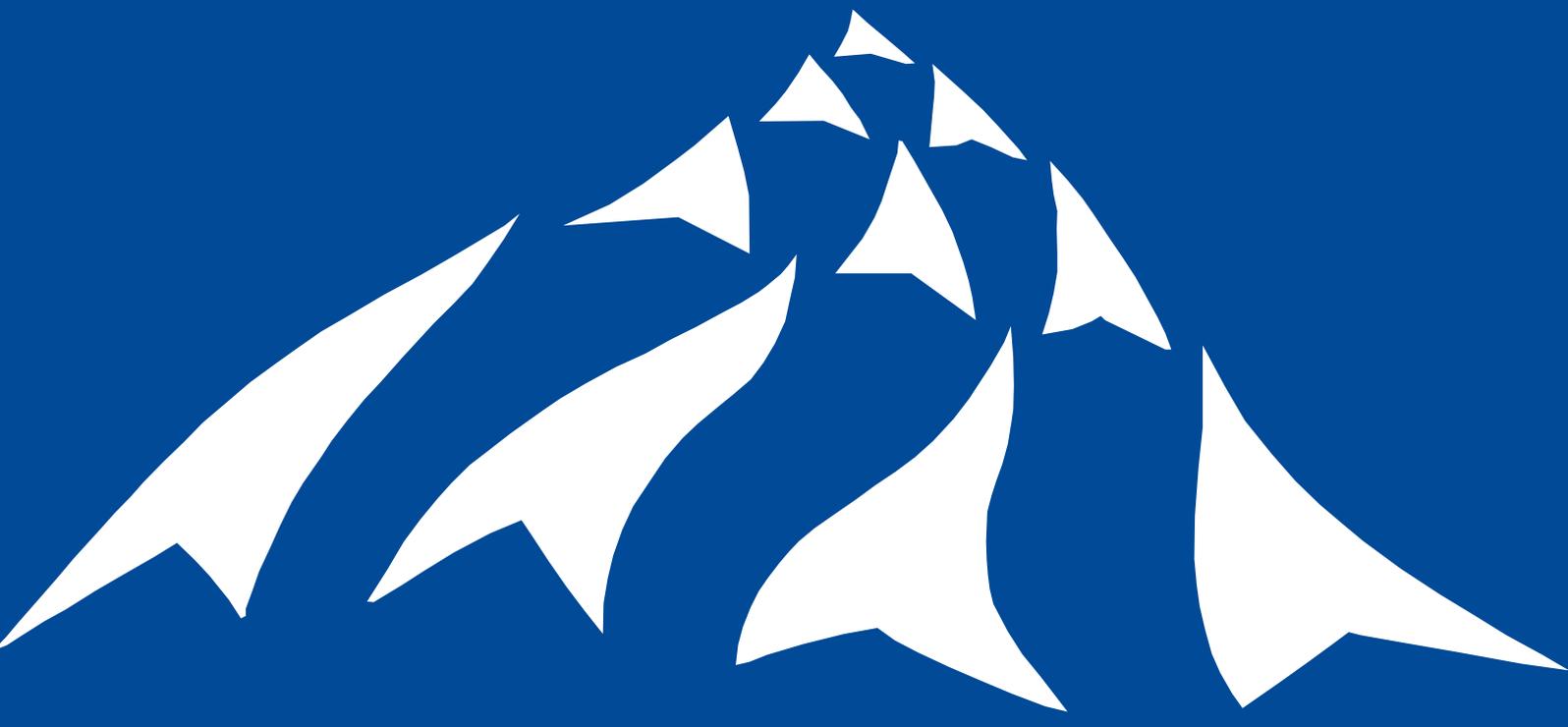




midlands aerospace alliance

Capabilities of Midlands Aerospace Companies 2016 – 2017



Midlands capability for the world's aerospace industry

The Midlands Aerospace Alliance is pleased to present you with the updated 2016-17 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 Rolls-Royce 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 Mair

Dr Andrew Mair

Chief Executive

Midlands Aerospace Alliance



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

www.midlandsaerospace.org.uk



RAF F-35B Lightning II aircraft, from Edwards Air Force Base in California

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Companies producing flying systems and parts

A & M EDM Ltd

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

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Abbey Metal Finishing Co Ltd

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Abbey Metal Finishing 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, 18001:2007 and third-party approvals such as Airbus, Rolls-Royce, Bombardier and Safran.

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

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Acorn Surface Technology Ltd

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Acorn is a specialist surface engineering company providing high-quality processes and service to aerospace, defence, automotive and industrial markets. We hold a wide range of quality accreditations including ISO 9001:2008, BS EN 9100/AS9100, NADCAP plus a number of third-party approvals including Airbus, Boeing, Rolls-Royce 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

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ActOn Finishing Limited signifies high-quality metal finishing. We are a one-stop shop for comprehensive metal finishing solutions. Our manufacturing capabilities include machines, media and compounds. We design and manufacture a wide range of metal finishing machines like: vibratory finishing machines, centrifugal high energy finishing machines, rotary dryers 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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Advanced Chemical Etching Limited

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

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Advanced Manufacturing Utilisation Ltd

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Advanced Manufacturing Utilisation 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 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.

Ian Beardsmore
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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 we 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.

Peter Bruch (pronounced Brooke)
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Companies producing flying systems and parts

Aerocom Metals Limited

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Aerocom Metals is 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, 155, 301, 304, 5515, 17/4 and T45, in bar, tube, sheet and plate.

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Aeromet International Ltd

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Aeromet International Ltd is a UK based world leader in production 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, ISO 14001 and NADCAP approved.

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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 we pride ourselves on exceeding customers expectations, consistently achieving class-leading quality and delivery performance. Manufacturing utilises computer-aided processing, with 6-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

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

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Alloy Heat Treatment Ltd

Block 6
Grazebrook Industrial Park
Peartree Lane, Dudley
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DY2 0XW
t: 01384 456777
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Alloy Heat Treatment is the largest and leading subcontract heat treater of aluminium and its alloys, in any form, in the UK. Cast, forged or wrought product into a variety of quenchant.

Steve Roberts
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Alloy Wire International

Narrowboat Way
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t: 01384 566775
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Manufacturer of wire (round, shaped and flat) in high performance nickel alloys.

Thomas Mander
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Alpha Adhesives & Sealants Ltd

Llewellyn Close
Sandy Lane Ind. Estate
Stourport-on-Severn
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DY13 9RH
t: 01299 828626
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We manufacture adhesives, sealants and coatings and have 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.

David Shaw
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Aluminium Special Products Limited

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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 a variety of industries with Aerospace as a focus. The company is AS9100 Rev C accredited and is an active member of the Midlands Aerospace Alliance as well as ADS (Aircraft Interiors Group).

David Robinson
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Amphenol Invotec Limited

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

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ANT Industries

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

Shaun Rowley
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Apperley Honing Machines Ltd

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Established in 1963, Apperley specialises in a wide range of honing capabilities including tube honing, vertical honing and hand honing. In addition, we have 20 commissioned honing machines operating in our subcontract department. Apperley Honing also buys, sells and reconditions used honing machines, available to be bought as they are seen or with a tooling, consumables, honing oil, training, delivery and installation. We currently sell honing machines to UK customers and also internationally. Used honing machines are also available to lease on a short term or long term basis. New bespoke TUBEHONES can be built in 2m - 10m lengths.

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APT Leicester Ltd

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APT supplies high precision turned components from 0.5mm to 50mm diameter, working across a diverse range of exotic materials as well as ferrous steels, high temperature alloys, aluminium and plastics. APT also engineers high precision prismatic parts. We work to the highest levels of AS9100 aviation, space and defence accreditation complemented by ISO 9001 quality management. With over 60 years serving the industry, we are able to fulfill even the most complex and demanding of projects: fast, precise, reliable.

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Founded in 1967 and specialise in the manufacture of components for the aerospace industry, AS9100, ISO14001 and Nadcap approved company with highly skilled workforce providing CNC turning, milling, thread rolling 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 NDT and pressure testing. Based in Coventry in a newly constructed 18,000 sq ft HQ with capacity to grow both in size and capability. Blue chip customer base and held SC21 Bronze since 2013.

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Ashton & Moore Ltd

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w: www.ashton-moore.co.uk

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.

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t: 0115 930 4058
w: www.atlascomposites.com

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

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Bodycote is the world's leading thermal processing services provider. Offering extensive processing capability in the UK, and an international network of services with 170 locations in 27 countries, Bodycote is a vital provider offering local support to the international aerospace industry. Services include: heat treatment; metal joining including vacuum brazing and electron beam welding; hot isostatic pressing; and metallurgical coatings. The world's most respected aerospace companies recognise the benefits of long-term relationships with Bodycote – allowing access to the wealth of knowledge, expertise and international quality accreditations that keep Bodycote at the leading edge of engineering technology.

John Jervis
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Bohler-Uddeholm (UK) Limited

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t: 0121 552 5681
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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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t: +44 (0)1246 269955
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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.

Simon Abbott
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Companies producing flying systems and parts

Bulwell Precision Engineers Ltd

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Operating from a state-of-the-art facility in Pinxton, Bulwell specialises in the manufacture of precision parts, kits, airframe assemblies and sub assemblies using the latest CAD/CAM technology to interface with customer design teams. Excellence in engineering and cutting-edge up to 5-axis technology has positioned Bulwell at the forefront of precision machining, producing quality assured components in steel, titanium, aluminium, nimonics and super alloys. Fine tolerance grinding, water jet cutting, heat treatment, anodising, non-destructive testing, paint and plasma spraying are also undertaken to manufacture complex airframe and finished equipment assemblies.

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Burcas Ltd

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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

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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.

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Chinn Ltd

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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.

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CN Alloys Limited

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Our product range covers aluminium, nickel alloys, special steels, titanium and stainless steel, including grades such as maraging and the precipitation hardenable steels. We stock a comprehensive range of specialised materials in a range of forms - from ingot to small diameter, flat and hexagonal bar. We can re-work larger ingot and billet stock with excellent lead times to any size or specification required. With warehouse and office locations in the UK and the United States, we continue to supply our worldwide customer base with a level of support that has become our trademark.

Andrew Clark
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Columbia Precision Ltd

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'Ultimate Precision' is the benchmark Columbia has sought to maintain for more than 35 years. Internationally recognised, its reputation for supplying high quality precision components to Aerospace, Nuclear, Defence, Motor Sport, Petrochemical and Medical industries is unrivalled. Continuous investment into innovative technologies ensures premium quality at a market competitive price with assured due date adherence. Recent acquisitions saw the arrival of 2 Matsuura machines, a MAM72-35V 32 pallet and MAM72-63V 6 pallet, 5 Axis prismatic CNC machine, Mazak Megaturn Nexus 900M and a Studer S33 twin spindle CNC grinder.

Ted Yarnall
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Copper & Optic Terminations Ltd

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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
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Croft Engineering

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

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Cube Precision Engineering

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

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**CW Fletcher & Sons Limited**

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With over a century of experience in precision engineering we work within a diverse range of industries, principally aerospace, nuclear and space exploration. Manufacturers of precision engineered components, we also offer a highly cost effective supply chain management service to reduce risk and maximise your margins. Our manufacturing facility is now split into 3 main value streams covering Machined Fabrications, Machined from Solid and Actuator Unison Rings. All of these value streams are self managing, operating in size ranges up to 2 metres. We are the safest choice for any customer in whatever market we chose to serve.

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D & S Engineering (Coventry) Limited

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A precision engineering company, established in 1973, supplying the aircraft and defence industries. We are AS9100 revision 'C' & ISO9001 approved, we were 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.

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Danatrol

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

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Davromatic Precision Ltd

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Davromatic manufacture 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.

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**Delcam Ltd**

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

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Doughty Precision Engineering Ltd

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Using hard, specialist metals and alloys, Doughty is a high volume manufacturer of components for electrical multiple connector components, diesel engine, marine and motorsport markets. The company's purpose built factory in Nottingham is home to over 30 skilled engineers offering a range of capabilities focused on fast response. Intricately machined transducer and electrical connector components can be precision engineered from a wide range of materials, including stainless steels, non-ferrous metals, titanium, nimonics, hastelloy and high performance plastics. Doughty has also invested heavily in advanced coordinate measuring and optical profile measuring equipment to manufacture components to the most exacting industry standards.

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Dunlop Aircraft Tyres Limited

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t: 0121 384 8800
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Dunlop Aircraft Tyres Limited is the leading specialist in design, manufacture and retreading of aircraft tyres with over 300 product lines and 500 type approvals in its range. The company provides a wide range of tyres and tubes on a worldwide basis for both civil and military aircraft.

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Dynamic Metals Ltd

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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
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Companies producing flying systems and parts



Electro-Discharge Ltd

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w: www.electro-discharge.co.uk

Wire and spark erosion specialist to the aerospace, satellite, oil and Formula 1 industries, capable of cutting up to 600mm thick. Also offering CNC milling, electrode manufacturing, tool and fixture design/ manufacturing.

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Energy Tubes Ltd

Energy House
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t: 01902 671222
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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.

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EPM Technology Group

Technology Centre
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t: 01332 680420
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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.

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Erodex (UK) Ltd

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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 up to date, the finest carbon and graphite materials have been provided by Poco Graphite of the USA and Tanso of Japan.

Paula Brettell
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Esterline Corporation

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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. This includes 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
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Extrude Hone Ltd

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Extrude Hone Ltd. provides surface finish solutions for aero engine components (blisk, impeller, blade, nozzle guide vane, turbine disk) for improved airflow and removal of stress risers and also deburring solutions for hydraulic components. We support our customers from early design phase through ramp-up in our contract shops to supply of capital equipment - abrasive flow machining (AFM), electrochemical machining (ECM and PECM) and thermal energy method (TEM).

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Flextronics understands aerospace and defence. Managing programmes across life cycles from NPI to volume. Design and value-engineering. Programme management, quality/IT systems for product, sourcing and supply chain requirements. Support entire life-cycle service capabilities, qualifications, certifications. Aftermarket logistics, including provisioning of spares and repairs. Coordinate capabilities/resources offerings into turnkey solutions. End-to-end solutions for rapidly changing marketplaces where quality, reliability, innovation, cost of products are critical. Markets: flex circuits, CCAs, avionics, in-flight entertainment, radios, thermal solutions, ruggedised devices; UAV; UGV. Vertical integration: 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.

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Forward Composites

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Supplying advanced composite solutions into the aerospace and defence markets, Forward Composites has a full range of capabilities. From product design and engineering services, to tooling, manufacture, testing and finishing. From initial briefing through to delivery, all aspects of the process are monitored by a proven, robust quality management system. Our state-of-the-art facilities in Huntingdon include CAD design, CNC 5-axis machines (including one of the largest in the UK), freezers, kit cutting, clean rooms, autoclaves, curing ovens and spray-bake paint booths, Faro Arm and Stiefelmayer and Faro 'lon' laser tracker.

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Future Metals UK

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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.

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G & O Springs Ltd

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Manufacturer of all types of springs and wireforms for the aerospace industry. Approvals held: AS9100:C & Nadcap (heat treatment and materials testing laboratory). See our website for current performance statistics.

Steve Boyd
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Gardner Aerospace - Derby Ltd

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

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Glenair UK Ltd

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

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Gould Alloys Limited

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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.

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Graves Aircraft Components Limited

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Manufacturer of low-volume critical flying parts for the aerospace industry. Specialist 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 prismatic and actuation unit parts.

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Greene Tweed and Co Limited

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

Tony Porter
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Henton Engineering Ltd

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Henton Engineering specialises in the machining and fine grinding of large complex sectioned ring and prismatic components, typically in the 200mm to 2m range, for aircraft engine, marine engine, space, satellite and precision engineering sectors. Employing 65, Henton Engineering has the expertise and capability to produce parts in titanium, nimonic, stellite, aluminium and other exotic and high temperature alloys. Its manufacturing facility is equipped with CNC lathe technology as well as full 5-axis continuous path machining equipment; all testing and assembly is also undertaken at the company's Coventry site. Taking advantage of the most advanced production management technology, the company is able to import customer schedules into its ERP system and react immediately to changing customer demands.

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Hucknall Sheet Metal Engineering Limited

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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
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Companies producing flying systems and parts

Icon Polymer Group

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

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Ilmor Engineering Ltd

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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

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

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UK facility of a world renowned industrial applicator of fluoropolymer, molybdenum disulphide, polyurethane, 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.

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Indestructible Paint Limited

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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.

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ITP Engines UK Limited

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Design, analysis, test and manufacture of aero-engine components, systems and modules. Partners and suppliers to the world's leading aircraft engine makers. Services include: Ccre engine design and analysis, test rig design and manufacture, engine airframe integration, engine control systems and space thermal design tools. The manufacturing site is a centre of excellence for small rotating parts within the wider ITP Group. Components include: blisks, discs, spools and shafts. The test facility contains a large vacuum test chamber and electric drive system with bespoke controls capability to carry out a variety of bird strike, over speed and blade off tests.

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JJ Churchill Ltd

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

Joss Engineering Ltd

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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.

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Kepston Limited

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

Bob Evans
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Kigass Aero Components Ltd

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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 turning, CNC EDM and wire erosion, gun drilling, surface and CNC cylindrical grinding. Test house facility for fuel, oil, water and air flow checks, calibration and pressure testing.

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Knight Strip Metals Limited

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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.

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Kugel Motion Ltd

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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.

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Lancaster Alloys Company manufacture and supply premium quality weld wire filler materials for the aerospace and defence industries. Established in 1993 by a small group of engineers, the company has grown and developed its business based on product quality, reliability and customer support. We manufacture and release materials to AMS, MSRR9500, OMat, AWS and more. Lancaster Alloys is an ISO9001 recognised company and Rolls-Royce approved. Our products are recognized and used by major manufacturers worldwide, including BAE, Chromalloy Gas Turbine Corporation, General Dynamics Land Systems, Lockheed-Martin, Airbus, Rolls-Royce plc and more.

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LGG Charlesworth

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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 and ongoing product and service development.

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Manthorpe Engineering Ltd

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

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Maycast-Nokes Precision Engineering Ltd

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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, Nadcap approved NDT and heat treatment departments, a metallurgical laboratory and a CNC machine shop. In addition to being ISO9001:2008 and AS9100 Rev C accredited, we also hold a range of aerospace and defence company approvals. We can work from fully dimensioned 2D drawings or 3D CAD models and using rapid prototyping techniques supply castings on short lead-times for initial trials or fit, form and function tests. We can proceed to supply production quantities, from hard tooling, of machined, finished and assembled castings.

Dave Blower
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Companies producing flying systems and parts

Meggitt

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

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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.

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

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Micro Spring & Presswork Ltd

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Micro Spring & Presswork is a specialist manufacturer of a wide range of precision springs, presswork and assemblies and is accredited to AS9100 Rev C, NADCAP 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.

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Microjet Precision Services Ltd

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

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Micrometric Limited

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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.

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Midland Tool & Design Limited

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With over 40 years' experience, Midland Tool & Design (MTD) has the skills to deliver the precision engineering services 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 services; high speed precision stamping; precision ceramic components and complete tooling services.

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MJ Sections Limited

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

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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.

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Moog Aircraft Group

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

Stuart Mclachlan
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MP Engineering UK Limited

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M P Engineering is a 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 1 but seriously engage aerospace customers with cost effective contracts for larger batches.

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Nasmyth Arden

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The latest addition to the Nasmyth Group, acquired in 2014, Nasmyth Arden manufactures complex machined cases for aerospace applications, including the housing for flight recorders and other critical electronic assemblies such as full authority digital engine controls. In addition to precision machining, Nasmyth Arden also specialise in CNC turning, CNC milling and up to 5 axis milling and 3D machining.

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



Nasmyth Group Limited

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Nasmyth Group is a cohesive group of engineering businesses that consistently provides high quality services and products. The Group offers world class design, manufacturing assembly and product support service across the fields of precision mechanical and electro-mechanical engineering. A key strength of Nasmyth Group is its ability to offer customers a flexible and efficient "one-stop solution." Our impressive in-house capability and on-going investment programme 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.

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NMB-Minebea UK Limited

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

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O.L.D. Engineering Limited

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

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Oerlikon Balzers Coating UK Ltd

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Oerlikon Balzers is one of the world's leading suppliers of surface technologies that significantly improve the performance and durability of precision components as well as tools for the metal and plastics processing industries. Extremely thin and exceptionally hard coatings, marketed under the BALINIT and BALIQ brand names, reduce friction and wear. Oerlikon Balzers operates a dynamically growing network of currently 106 coating centers in 34 countries in Europe, the Americas and Asia. Oerlikon Balzers is – together with Oerlikon Metco - part of the Surface Solutions Segment of the Switzerland-based Oerlikon Group.

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PAB Coventry Limited

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At PAB we have a proud history within the aerospace industry. Our customers look for the very best in components quality and when it comes to pressings, brackets and welded assemblies they rely on PAB to deliver. PAB 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.

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Paragon Engineering & Logistics Ltd

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

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Companies producing flying systems and parts

Parker Precision Ltd

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

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Pentaxia Limited

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Pentaxia is a rapidly growing advanced engineering business offering a complete "end-to-end" solution for composite tooling and component manufacturing. All aspects of tooling design, manufacturing and composite production are undertaken within our modern facility located in Derby. We supply patterns, moulds, jigs, fixtures and pressed components to many high-profile (Tier 1) aerospace, military and defence customers. We offer predictability in a demanding aerospace market. We are ISO9001 and AS9100 Rev C certified and offer extensive machining capabilities (with five 5-axis machines), combined with autoclave and composite pressing facilities; we also have an on-site paint facility.

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PK Engineering Ltd

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PK Engineering is focused on CNC precision machining of small batches of complex components in non-ferrous materials, including engineering polymers and high nickel content alloys. We have a strong track record of solving problems for our customers in the aerospace, medical and scientific sectors. PK Engineering Ltd is certified to AS9100 and ISO9001.

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Poeton Industries Ltd

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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 as metallography and chemical analysis.

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Porvair PLC

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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.

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Powdertech (Bicester) Ltd

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Experts in lightweight alloy coatings and pre treatment specialists. Specialist lightweight alloy processing for corrosion protection and superior aesthetical finishes. Aluminium pre-bonding treatments for the aerospace and automotive marketplace, super polyester applications for aluminium and magnesium components.

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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, and moulding and machining. AS9100 accredited and SC21 Bronze Award holder

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Preci-Spark Ltd

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

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

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Ricardo UK Limited

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Ricardo High Performance Transmission Products is an approved sub-contract manufacturing company to the aerospace industry. We are approved to ISO 9001:2000, AS 9100 Revision 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.

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Righton Aerospace

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Righton Aerospace is an AS9100 Revision C stockist and distributor of aerospace approved raw materials, which operates from three licensed sites. Our aerospace stock range includes stainless steels, alloy steels, copper alloys, aluminium, titanium, nickel alloys, bearing steels, bearing bronzes and engineering plastics, along with a wide range of contract driven customer bespoke stocked items. All of our aerospace centres are engaged in the SC21 programme and we proudly hold two Silver awards and one Bronze. SC21 is the template for all our business and process improvements and is fundamental in all our existing and future thinking and decision making.

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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.

Rolls-Royce PLC

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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, the 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.

Rotastat

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Established in 1972, Rotastat is a build to print manufacturer of aerospace quality stators-rotors-motors/generators, and associated wound magnetic components, such as transformers, inductors, toroids, and component level windings and sub assemblies. The company operates in accordance with BS EN ISO 9001:2008. We are members of both MAA and WEAf.

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Rudd Macnamara

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B21 0BS
t: 0121 523 8437
w: www.ruddmacnamara.com

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 & 2D data matrix marking and bar coding.

Valerie Smith
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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, and 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 Haberin
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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
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Companies producing flying systems and parts

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. We offer in-house or on-site services for brush plating of components whether it be new part enhancement or repair to damaged or worn parts. We are also able to offer brush plating chemicals and equipment along with training courses on selective brush plating methods.

Mark Smith
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Sigma Precision Components UK Ltd

Alan Bray Close
Dodwells Bridge Industrial Estate
Hinckley
Leicestershire
United Kingdom
LE10 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, ISO 14001, Rolls-Royce etc. Access to our sister company Chengdu Sigma Precision Components in China allows us to offer local supply whilst offering the highest possible value to our clients where we hold a leading position in our chosen markets.

Michael Andraea
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SL Engineering Ltd

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Aslackby
Sleaford
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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.

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Smiths Metal Centres Ltd

Unit 3 Power Station Road
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United Kingdom
WS15 2HS
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 80 years' experience in offering a very comprehensive range of high quality electro-plating, anodising, chemical conversion coatings, painting 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. Our latest processes include tartaric sulphuric anodising and our new patented chemical cleaning of additive layer products - Almbrite. We can also offer technical support on new projects to identify best practices/ applications.

Chris Smith
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Spincraft ETG Ltd

9 Shelley Road
Newburn Industrial Estate, Newburn
Newcastle Upon Tyne
Newcastle upon Tyne
United Kingdom
NE15 9RT
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 1 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

Summit Engineering (Birmingham) Ltd

Unit 31
Monkspath Business Park
Solihull
West Midlands
United Kingdom
B90 4NZ
t: 0121 733 5410
w: www.summit-engineering.co.uk

Summit Engineering (Birmingham) Limited is a precision engineering manufacturing company, originally formed in 1965 under the name of D.A. Dowler Engineering Limited and established to support the subcontract requirements of the aerospace industry. Today still a family business and under AS9100 and ISO9001, Summit Engineering continues to produce high quality, tight tolerance, precision turned, milled, ground, drilled, assembled and kitted machined components for the aerospace and defence industries.

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Surface Technology Plc

Alpha Business Park
Coventry
West Midlands
United Kingdom
CV2 1EQ
t: 0845 450 0870
w: www.surfacetechnology.co.uk

Surface Technology Plc provides 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
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Swiftool Precision Engineering Limited

Swiftool House
Brookside Way
Huthwaite
Nottinghamshire
United Kingdom
NG17 2NL
t: 01623 515544
w: www.swiftool.co.uk

Swiftool Precision Engineering Ltd specialises in the supply of high integrity precision machined components, kits, and mechanical assemblies. Supporting customers globally in the nuclear, marine, aerospace and petrochemical markets. We offer 80,000 hrs of manufacturing capacity per annum, utilising the latest multi axis cnc machine tools, grinders, EDM, CMM and optical inspection technologies. Further services include, PMI, NDT, pressure testing, grade B clean room and a military packing facility. Accredited to ISO9001:2008 and Sabre, Swiftool is a SC21 signatory with aspirations of attaining AS9100 by September 2016.

Paul Seagrave
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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

Taylor Engineering Ltd

Unit 1
Glensyl Way
Burton on Trent
Staffordshire
United Kingdom
DE14 1LX
t: 01283 538935
w: www.taylor-engineering.co.uk

Taylor Engineering is a well established business with over 30 years of experience and knowledge of development work in aerospace industry. Specialising in producing precision machined and ground components in a wide range of exotic aerospace materials including inconel, nimonic and titanium. We also specialise in the grinding of carbide coatings HVOF. With Rolls-Royce, Messier-Dowty and BS EN ISO 9001:2008 approvals, we provide an excellent and dedicated service, meeting high efficiency whilst maintaining high standards.

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Technetics Group UK

Acan Way
Coventry Road
Narborough
Leicestershire
United Kingdom
LE19 2FT
t: 0116 272 7411
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Technetics Group UK, formerly Wide Range Elastomers, provides innovative elastomeric sealing solutions for aerospace and defence applications. An extensive range of capabilities, including moulding, hand-fabrication, extrusions and calendaring are available and produced in a comprehensive range of synthetic and natural rubber compounds, with the ability to incorporate reinforcement textiles, metals and composites where required. Sub-assemblies, kitting and direct line feed services are all offered to provide the most effective means of supply with solutions being tailored to suit specific customer requirements.

Techniswage Ltd

Unit 3B
Summit Crescent Industrial Estate
Warley
West Midlands
United Kingdom
B66 1BT
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 1DB
t: 01788 560522
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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
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Tekdata Interconnections Limited

Innovation House
The Glades
Stoke on Trent
Staffordshire
United Kingdom
ST1 5SQ
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, commissioning, repair and maintenance. With its Cryoconnect products, Tekdata is one of very few companies meeting NASA's demanding standards for interconnection systems. Tekdata designs solutions to function, size, weight, routing and/or cost. Tekdata operates from a UK 40,000 sq.ft. facility on a prestigious industrial site and holds certification to AS9100 REV C and ISO 9001:2008 and approvals (including preferred supplier status) from major aerospace, space and military primes.

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Tex Tech Industries

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0001
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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 including Airbus, Boeing, Gulfstream, Bombardier, Embraer and others. TexTech'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
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The Autins Group

Central Point One
Central Park Drive
Rugby
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Development of acoustic (NVH) and thermal insulation solutions, manufacturer of lightweight acoustic absorbers, manufacturer of acoustic and thermal components.

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Companies producing flying systems and parts



Thermofax Ltd

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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. 1.6 tonne maximum single lift. Maximum diameter 7000mm. Fabricated tools processed in mild steel, aluminium, titanium, stainless steel, invar, other nickel alloys.

Thomas Bullock
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Thomas Brown Engineering Ltd

Oldfield Street
Huddersfield
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United Kingdom
HD4 5AJ
t: 01484 548903

Provide aviation grade precision components and assemblies.

Tom Brown
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Timet UK Limited

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Witton
Birmingham
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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
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Trust Precision Engineering Ltd

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Nottinghamshire
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NG16 3SL
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
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TT Electronics

Coventry Road
Lutterworth
Leicester
Leicestershire
United Kingdom
LE17 4JB
t: 01455 552505
w: www.semelab-tt.com

Semelab Limited, part of TT Electronics, 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; and standard and custom opto devices.

Josh Slater
e: josh.slater@ttelectronics.com

TTI Group Ltd - Nitriding Services

Hortonwood 40
Telford
Shropshire
United Kingdom
TF1 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
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Tufnol Composites Ltd

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

Tufnol Composites Ltd 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.

John Armitage
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Turnell & Odell Limited

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

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

Clive Odell
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UTC Aerospace Systems - Actuation & Propeller Systems

Stafford Road
Fordhouses
Wolverhampton
West Midlands
United Kingdom
WV10 7EH
t: 01902 624 9494
w: <http://utcaerospace.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, USA, 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
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UTC Aerospace Systems - Marston Aerospace

Wobaston Road
Fordhouses
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t: 01902 572777
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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.

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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 produces 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.

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Victoria Drop Forgings

Wednesfield Road
Wolverhampton
West Midlands
United Kingdom
WV13 1AG
t: 01902 605 141
w: www.victoriaforgings.co.uk

The company has been established for over 100 years and has supplied forged parts to 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
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Wallwork Heat Treatment Limited

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

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

Howard Maher
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WH Tildesley Ltd (Forging)

Clifford Works
Bow Street
Willenhall
West Midlands
United Kingdom
WV13 2AN
t: 01902 366440
w: www.whtildesley.com

WH Tildesley has a long and successful history of supplying forgings to the aerospace industry, for both OE and legacy applications. Continual investment in people, plant and processes has made our facility the most modern forge in the UK. We combine forging expertise with full project support from initial design through to finished parts production. We are specialists in the manufacture of closed die drop forged components from a few grams up to 70kg. We forge in a wide range of ferrous and non-ferrous materials including aluminium, carbon steels, stainless steels, nickel and copper alloys.

Philip Hobley
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Wheelabrator Impact Finishers

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

Wheelabrator Impact Finishers is the specialized 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
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Winbro Group Technologies Limited

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

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

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WTI Fasteners Ltd

Meridian
Leicester Road, New Packington
Ashby de la Zouch
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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 like 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 to combine that with a high level of customer service and technical support.

Josephine Mason
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Wyken Tools Ltd

Unit 3
Bodmin Road
Coventry
West Midlands
United Kingdom
CV2 5DB
t: 02476 621515
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Precision engineering including grinding, CNC turning and milling of motorsport components, small to medium aerospace components for landing gear, braking systems and associated parts.

Gez McDonald
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Companies producing flying systems and parts

Company Capabilities	A & M EDM Ltd	Abbey Metal Finishing Co Ltd	Accrofab Ltd	Acorn Surface Technology Ltd	ActOn Finishing Ltd	Advanced Chemical Etching Limited	Advanced Manufacturing Utilisation Ltd	Advanex Europe Ltd	AE Aerospace Ltd	Aerocom Metals Limited	Aeromet International Ltd	AGC AeroComposites Derby	Alkzo Nobel Aerospace Coatings Ltd	Alloy Heat Treatment Ltd	Alloy Wire International	Alpha Adhesives & Sealants Ltd	Aluminium Special Products Limited	Amphenol Invotec Limited	ANT Industries	Apperley Honing Machines Ltd	APT Leicester Ltd	Arrowsmith Engineering (Coventry) Ltd	Ashton & Moore Ltd	Atlas Composites Limited	Bodycore Heat Treatments Ltd	Bohler-Uddeholm (UK) Limited	British Rema Processing Ltd	Bulwell Precision Engineers Ltd	Burcas Ltd	C & H Precision Finishers Limited	Chinn Ltd	CNAlloys Limited			
Adhesives & Coatings	•		•	•	•						•		•			•							•				•	•							
Armaments and Related Equipment				•							•							•							•					•					
Autoflight Systems & Equipment				•					•									•						•											
Communications Systems & Equipment				•		•												•						•											
Control Systems & Equipment			•	•		•												•			•			•											
Electrical Cable Accessories/Electrical Harnesses				•		•												•						•											
Electrical Panels & Electrical Components				•		•												•						•											
Electrical Power Systems & Equipment				•		•		•	•									•						•											
Engines	•	•	•	•		•			•		•	•						•	•				•		•				•	•	•	•	•	•	
Equipment-Furnishings				•														•						•											
Flight Training																								•											
Fuel & Fuel Systems				•																				•											
Fuselage	•		•	•					•		•	•	•					•						•		•			•	•	•	•	•	•	
Ground Systems and Equipment				•																				•											
Hydraulic Systems & Equipment				•					•														•		•										
Indicating, Data & Recording Systems																		•						•											
Landing Gear				•																				•											
Material Manufacturer			•			•				•	•													•		•			•	•	•	•	•	•	
Material Supplier					•					•							•							•		•		•	•	•	•	•	•	•	
MRO	•								•		•	•											•	•	•			•	•	•	•	•	•	•	
Navigation Systems & Equipment																	•							•											
Processes & Shapes	•	•	•	•	•	•	•		•	•	•	•					•			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Propellers & Rotors				•																				•											
Safety and Rescue Systems & Equipment																								•											
Services		•										•											•		•										
Space Systems and Equipment																		•						•											
Standard Parts	•	•	•		•		•																•		•										
Tooling & Testing/Test Equipment	•	•	•	•			•																•		•										
Windows																								•											
Wings											•													•											
Industry Approvals																																			
AS/EN/JISQ 9100	•	•	•	•	•				•		•	•					•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
AS/EN/JISQ 9110																								•											
AS/EN/JISQ 9120										•														•											•
ISO 14001	•	•	•	•	•	•		•			•						•						•	•	•	•	•	•	•	•	•	•	•	•	
ISO 17025																								•											
ISO 9001	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
ISO 9002																								•											
ISO 9003																								•											
Part 145																								•											
Part 21																								•											
Part 66																								•											
NADCAP	•	•	•	•							•	•						•					•	•	•	•	•	•	•	•	•	•	•	•	
Customer Approval certificates																																			
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Companies offering specialist support services and equipment

ENGINEERING AND DEVELOPMENT SERVICES

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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 clients.

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

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Altran is a trusted innovation and engineering partner of leading businesses throughout the aerospace and defence sectors 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.

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AXISCADDES 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 1 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 AXISCADDES becoming a trusted value partner. AXISCADDES 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.

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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.

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CNR has provided a range of engineering and design services for the automotive and aerospace sectors since 1989 with 15 years' specific experience in helicopter transmission design, analysis and testing. Our team of qualified and experienced specialist engineers provide complete design and build services, from concept generation, design optimisation, validation through to production integration. We have a strong track record of understanding our customers' business objectives and developing industry leading solutions on time and budget. We build and are proud of our long-lasting client relationships.

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At Cyient, we deliver aerospace engineering solutions from concept to qualification, with system-level ownership for engines, avionics systems, structures, aero systems and interiors. And we manage aftermarket value streams such as repair engineering, reliability engineering, technical documentation and performance monitoring on behalf of OEMs worldwide. We use a collaborative engineering approach that combines domain expertise, process rigour, design automation and program management skills to deliver large system-level designs – on time and within budgets. Our track record includes having co-created 25 patentable design solutions and improved our engineering productivity by 3%-5% annually. We help our customers design tomorrow's aerospace products today.

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Frazer-Nash Consultancy is a multidisciplinary engineering consultancy that excels at solving some of today's most complex challenges in engineering. Our experience of working in diverse industries enables us to transfer unique skills across different markets to benefit our clients.

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FTT specialises in the engineering, development, and testing of gas turbines, propulsion components, turbopumps, and in 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 programs further add value to our services.

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

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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

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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 conceptualization to aftermarket maintenance repair and operations.

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Companies offering specialist support services and equipment

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

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PRODUCT AND MATERIAL TESTING SERVICES

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With 13 Nadcap approved laboratories, conducting accredited testing to ISO 17025 standards, Exova is qualified to deliver a full range of services to meet aerospace testing requirements. Whether your requirement is in metals or composites, we provide solutions across mechanical, non-destructive and chemical testing, wear properties, structural and failure analysis. At Exova Dudley, our NDT personnel are qualified specialists, holding approvals to ASNT Level III. We carry out a wide range of non-destructive testing, from the development process through to end products and products in use. We test a wide range of materials, from raw such as sheet, plate, bar, and pipelines, to finished components.

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Materials testing, analysis and consultancy. Metals, advanced ceramics, composites, polymers, powders. Materials selection, development of lightweight materials, computational modelling, novel processing, components/systems verification, depth profiling of coatings, tribological analyses in lubrication and wear, components cleanliness validation, QC testing, contamination and bonding analyses of electronic devices, failure analysis.

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Engineering laboratory and consultancy service.

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NDT Midlands is an independently owned company offering high quality non destructive testing solutions for all industry sectors across the UK. Based centrally in the West Midlands within the industrial heartland of the UK we provide a quality, competitive and efficient non destructive testing service for the UK manufacturing industry and are ideally placed on the nation's motorway network to serve our customers nationwide. Our vastly experienced personnel offer a high degree of expertise and product knowledge which allows us to support all industry sectors including: fastener, engineering, oil/petrochemical, power & energy, automotive, aerospace, construction and defence.

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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.

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

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Westmoreland Mechanical Testing and Research Ltd is a leading materials test laboratory located in Banbury UK. WMT&R, accredited to UKAS 17025 and 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 specialises in materials failure analysis. WMT&R is the European subsidiary of WMT&R Inc.

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

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Acres designs and manufactures custom finished products, typically (but not limited to) access, kitting, production, inspection, transport, storage and lean manufacturing, with a focus on designing for manufacture and assembly (DFMA). Since 1948 Acres has had an established reputation in the aerospace, automotive, rail, power and material handling industries. Where necessary, products (including machines and automation) are load tested and CE marked and where needed regular thorough examinations are provided. Acres also provides a sub-contract parts and sub assembly service working to customers' drawings. See examples at: www.AcresEngineering.co.uk.

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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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AFT Automation Ltd is a specialist manufacturer and installer of electrified monorail systems (EMS), automated guided vehicles (AGVs), automation and conveying products. We supply bespoke automated solutions to manufacturing processes, have design capability and provide turnkey solutions. Substantial experience in various industries including aerospace and automotive.

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Almor is a group of specialist alloy fabricators and furnace engineers supporting the needs of processes where high temperature and corrosive environments are encountered. Wellman Furnaces, now a division of Almor, has the capability to build new furnace equipment (standard and bespoke), service and upgrade existing furnaces and supply a large range of furnace parts.

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Our team of engineers has wide experience of developing test, measurement, control and automation solutions in the aerospace industry. We can provide either a software-only solution or, in conjunction with our strategic partners, a turnkey solution. All of our solutions are based on National Instruments' hardware and software, LabVIEW. We are a National Instruments Alliance Partner and all of our engineers have current National Instruments certification up to Certified LabVIEW Architect. We also have experience of developing simulation models and bespoke planning and scheduling solutions to support lean manufacturing process improvement projects in a wide range of sectors.

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

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Experts in industrial and process automation, quality & IT Solutions, ATS offers solutions for industrial & process automation and information technology users world-wide. We provide products and services for all three levels of the automation pyramid - control, execution and information. Our business activities have been specifically designed to support the full life-cycle of automation and IT systems, and include: consultancy, project/programme delivery, system service & support, ATS products & partners, software development, training and workshops.

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Caltherm is a world-class designer and manufacturer of industrial ovens, furnaces and dryers, plus associated product handling and automation. We manufacture to Nadcap AMS2750E for processes including heat treatment, composite curing, NDT drying, paint curing, reticulation, etc.

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Companies offering specialist support services and equipment

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Fluid Technology is more than just a slogan; it is and has been our business and culture for more than 65 years. Our metalworking fluids are the premier choice in automotive, aerospace and industrial metalworking applications. Worldwide, our customers enjoy productivity gains with the technology provided from Cimcool's complete line of metalworking products: precision metal removal fluids, rust preventatives, innovative metal forming fluids, HVAC specialty fluids, productive process and maintenance cleaners, specialty fluids.

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

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Currently, CCS Ltd. provide first class LabVIEW based software, signal conditioning and turnkey solutions to a number of high profile customers in a wide spectrum of industries, particularly aerospace. By maximising the expertise of our certified LabVIEW architects and the rest of our development team, CCS is always ready to take on a new engineering challenge. In addition, we specialise in LabVIEW consultancy services and bespoke training for those who prefer to design their own testing in house.

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

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

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

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Durr Ecoclean 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. Media include aqueous, solvent, modified alcohols and steam.

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Electroservices is one of the leading calibration and repair companies in the UK. We provide full customer support and satisfaction throughout the UK for on- and 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 Silver Award. A Tier 1 prime contractor to the MoD and defence agencies, support to avionics, aerospace, communications, media and manufacturing sectors. Micro Movements is a recent acquisition to the Electroservices Group providing data acquisition, signal conditioning, recording, analysis and bespoke test rigs.

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Exclusive UK distributor of high speed 5-axis Chiron 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.

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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 complimented by one of the largest production facilities for PCD tooling in the UK and supported by a team of experienced aerospace engineers.

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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 on LinkedIn!

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

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

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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.

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Heller Machine Tools has produced high quality machines and delivered complex projects from its Midlands facility in Redditch for over 40 years. We employ 150 people and deliver 200 machines annually. In addition to our production, our engineering department has all the skills required to help deliver your complete engineered turnkey solution. With our aerospace customers demanding high accuracy and performance machines for the life of their programmes, Heller operates an apprenticeship programme, providing the ongoing knowledge required to ensure this. Service cover comes from our highly skilled team supported by over £2 million spares stock giving 24 hour response.

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Hexagon Manufacturing Intelligence

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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.

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Companies offering specialist support services and equipment

Hockley Pattern & Tool Co Ltd

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

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Hydro Systems UK

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Hydro Systems provides world class design and manufacture of aircraft airframe and engine tooling, ground support equipment and transportation stands. Hydro Systems are a preferred supplier of Rolls-Royce and licensees of Airbus, Boeing, BAE Systems, Goodrich and other various OEMs. Hydro Systems UK Ltd is part of the Hydro Systems Group. Hydro is a company of over 600 employees, based in multiple sites across Europe, North America and the Middle and the Far East. Currently around 60 people work in Hydro UK (Derby), providing design and manufacture solutions and equipment servicing for Rolls-Royce and numerous airlines and MROs.

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ITC is the leading UK manufacturer; modifier; re-grinder and distributor of precision round cutting tools in carbide, PCD and HSS. In addition to possessing one of the most modern and well equipped tool grinding facilities in the UK, with CNC grinding machines from Walter; Rollmatic, Anca and Deckel, ITC is the major UK stockist of Widia solid carbide and indexable cutting tools, and is sole UK stockist for BIG/KAISER spindle and boring systems. High performance production tools are available from our extensive stocks. Special-to-product tooling can be designed and manufactured to suit the most demanding applications.

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IPG Photonics

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IPG is transforming the industrial materials processing landscape with fibre lasers that deliver a dramatic difference to manufacturing industries, including aerospace, automotive, marine and energy provision. IPG Photonics is the world's leading provider of industrial high power fibre lasers and fibre amplifiers that are revolutionizing performance and utility in a remarkable array of materials processing, micro-machining, telecommunications, medical and other advanced applications. Our fibre lasers are compact and rugged, meeting the demands of the most challenging applications with a maximum of efficiency and a minimum of size.

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ITI is the global leader providing reliable interoperability, validation, translation and migration solutions for engineering product data and related systems. ITI solves complex product data interoperability problems so that the world's leading manufacturers can focus on core competencies. ITI's solutions support key areas of PLM and MBE implementation for aerospace manufacturers and their supply chain including: product design and computational analysis, engineering change management, legacy aircraft modifications and restarts, FAA certification, ITAR regulatory compliance, long term data archival solutions, technical data packaging, and secure engineering information transfer.

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KG Washford specialise in the design and manufacture of hydro-mechanical test and control rigs for aircraft fuel system components - mainly fuel pumps, fuel metering units and actuators. A full service support is offered for the life of the rig after initial installation. Complementing the work we carry out on test rigs we also design and manufacture assembly/dis-assembly tools for the aforementioned units, vibration test fixtures for EEC and fuel system components, fire test fixtures and pressure test fixtures. With its high quality engineers and vast knowledge KG Washford is ideally positioned to meet your engineering requirements.

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Global manufacturer and distributor of high-performance standard and customised tools for your industry. Reducing your costs is our specialty; optimized tooling solutions for the machining of applications within many typical aerospace segments, such as airframes, avionics and missiles, aerostructure, control systems and aero engines; wide range of advanced, customized tools for the aerospace industry, for example veined tools, PCD tipped tools and solid carbide tools; 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.

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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 is a leading supplier of abrasives and tools, offering abrasive products, tools, tool servicing and training for different grinding and finishing applications in various markets - particularly the aerospace industry. We manufacture a comprehensive range of abrasive belts and offer a complete range of Meister superabrasives products together with all sizes of MASTER conventional grinding wheels. Working to provide solutions for you, our partners include Standard Abrasives, Cratex, Urma Rolls and Darmann. Master Tool Services department offers a range of tools and full support (HAV testing, training etc.) and servicing of tools, plus "safe use of abrasives" training.

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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 36,000 sq.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 Doosan Infracore.

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

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New Technology CAD/CAM supply SOLIDWORKS 3D CAD software to engineering companies so you can innovate faster, design better products and deliver engineering solutions that will revolutionise the way you and your team work. We back this up with one of the most experienced and qualified SOLIDWORKS' support teams. Our customers benefit from access to multi-level support, web-based training modules, and SOLIDWORKS' certified training courses at our training centres throughout the UK.

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NHE -- through its well known brands of Plasticraft, Ardrex 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 NADCAP.

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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 on-site maintenance and repair on all of the above.

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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.

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Pryor Marking Technology

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Pryor Marking Technology design and manufacture the widest range of permanent marking systems in the world. We offer manual punches, handstamps, engraved dies, dotpeen marking machines, scribe machines, laser marking and chemical etching and we are a world leader in the manufacture and design of innovative marking, identification and traceability solutions.

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Companies offering specialist support services and equipment

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

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Roemheld (UK) Limited

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

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RTC Electronics Ltd

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RTC is a solution providers for turnkey electro-hydraulic test rigs and ATE equipment covering all market sectors. A specialist in customisation, integration and non-standard applications, supplying avionics hardware in the loop systems, closed loop servo control systems, control instrumentation with data acquisition. With 30 years' experience in the aerospace industry, RTC has gained an impressive customer base including Airbus, Boeing, Bombardier, Safran, Lockheed Martin and Raytheon Missile Systems. RTC strongly believe in delivering 'Right First Time' solutions, designed and built to the highest reliability and quality standards. Full 24/7 customer support and service are provided on critical programmes.

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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.

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Snap-On Industrial

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Snap-On is the leading global manufacturer and distributor of hand and power tools, tools storage and torque equipment for the aerospace industry. Our range includes FOD prevention products and tool control systems, from basic shadow concept to a fully advanced electronic "asset tracking management system". All products conform to international standards and/or aerospace technical specification, SBAC TS48, JDS1200 and MOD Defstans.

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Star Micronics GB is a wholly owned subsidiary of machine tool manufacturer Star Micronics Co Ltd, Japan, which produces multi-axis CNC sliding-head and fixed-head lathes. The GB subsidiary is also sole agent in the UK and Eire for the FMB range of short and full-length bar magazines from Germany, as well as for 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.

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Straaltechniek International Ltd

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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.

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

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For over 30 years Tebis has ensured process efficiency and a technological edge in international die, mold and aerospace manufacturing, in industrial design and in machinery and equipment. Tebis is the only software and consulting company for manufacturing operations that introduces innovative processes comprehensively and successfully – and we can do this just as well in a family-owned and operated business as in a major international corporation. We're able to do this because we effectively mesh all enterprise levels with our outstanding consulting, software and implementation expertise: strategy, goals, standardisation, process reliability, automation, planning, information flow and tool technologies.

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

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Engineered thermal products and solutions.

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Vacuum Brazing Consultants Ltd

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Manufacturer, stockist and distributor of aerospace grade brazing and welding filler alloys and auxiliary 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.

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

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MAINTENANCE, REPAIR AND OVERHAUL

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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.

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

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

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RECYCLING

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ELG Utica Alloys Limited provides recycling solutions for all scrap/redundant materials from within the aerospace industry. Our in house sorting/processing/mutilation capabilities ensure that our partners realise absolute maximum value for their scrap material. As we are often the final consumer of materials, we are able to give the very best market pricing. ELG Utica Alloys Limited can also provide a toll processing revert service. We are interested in all nickel base and cobalt base materials in all physical forms.

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PARTS AND LOGISTICS MANAGEMENT

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Supplier of aviation parts.

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We have real hands-on experience and insight in the aerospace sector; identifying opportunities and solving challenges in your indirect and MRO operations. Our pedigree? We have helped one of our aerospace clients save over £6 million on their indirect maintenance spend. Our services cover maintenance parts procurement, stores and stock management and the provision of maintenance services. We have an extensive supplier data base covering machine parts, PPE, consumables and tooling. Active deliver resilient, responsive and robust solutions, providing a competitive edge to the aerospace sector.

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Companies offering specialist support services and equipment

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

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Founded in 1983, Amco Services (International) Ltd 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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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.

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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.

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AEB is one of Europe's leading providers of supply chain logistics software, consultancy and services, and has been delivering solutions to customers for over thirty five years. The company has over 5,000 customers worldwide, supported by offices in the UK, Germany, Singapore, Switzerland, Sweden, the Netherlands, Czech Republic, France, and the USA. AEB's core product - ASSIST4 - is the comprehensive solution suite for all logistics processes in global business. ASSIST4 offers a complete set of business services for end-to-end logistics, including international goods movements, making it possible to standardise and automate business processes in supply chain execution.

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Hays is a leading global experts in qualified, professional and skilled recruitment. With over 245 offices in 33 countries we are able to support our clients both across the UK and internationally across the world. Hays Aerospace Engineering recruit for expert engineering candidates across quality, design, manufacturing and maintenance, with specialist consultants working within each function, enabling us to support our clients with unrivalled expertise within our markets. Hays currently works in partnership with a number of key clients across the industry, from SMEs and tier 2 suppliers to global tier 1 suppliers into the aerospace and defence market.

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Based in the heart of the West Midlands, the In-Comm partnership offers a range of world class-leading services to industry and commerce. In-Comm has over thirty three years' experience in the design and delivery of development programmes to suit a wide range of needs. We also have a specialised training services academy and team to offer apprentice programmes. Whether you are an owner-managed company looking to develop your workforce, or a multi-national company looking for a customised training and development programme, our team of highly competent specialists are here to help.

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Network Recruitment Partnership Ltd, trading as Technical Network, is a specialist engineering and technical recruitment consultancy with over 30 years experience recruiting permanent and contract/ interim professional, technical staff and management. Disciplines include: engineering and manufacturing - design & CAD engineers, development, CAE, lean manufacturing, production, quality, operations, systems, electronics, software, maintenance and reliability; purchasing & supply chain - purchasing, material control, planning, supply chain, logistics & distribution. Working with a range of customers including primes, OEMs and manufacturing supply chain organisations across automotive, aerospace, defence, manufacturing and energy industries nationwide and abroad. We are very adept with identification and transfer of scarce skills across industrial sectors.

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Training 2000 has been established for almost 50 years. We are one of the largest group training associations, providing business solutions, commercial courses and apprenticeship programmes within the aerospace industry and across multiple industry sectors. We have developed long term relationships with national and global businesses based on our ability to work with our customers as their trusted training partner; providing development teams and training partner services covering manufacturing, engineering and commercial within aerospace and other business sectors. Our core focus is to listen and understand customers needs by developing business solutions to support successful achievement of company goals through operational excellence.

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With offices at BioCity and MediCity, Nottingham's leading innovation centres, AdamsonJones offers a comprehensive intellectual property protection service encompassing patents, trade marks, design and copyright protection in the UK, Europe and throughout the world. Our highly experienced team of patent and trade mark attorneys provides technical expertise ranging from chemistry and biotech to mechanical engineering and advanced physics. AdamsonJones provides commercial advice of the highest quality, ensuring that our clients get maximum value from their intellectual property. We work not only with major multinational companies, like Alliance Boots, Google and Sanofi, but also with innovative SMEs in the UK and overseas, such as Vectura, Intersurgical and Advancis Medical, as well as with internationally renowned universities.

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Cooper Parry Group is an accountancy advisory firm with an award-winning corporate finance team in the East Midlands delivering corporate finance advice and related strategic advisory services. We are part of an international network, Global M&A, which provides unrivalled access to international markets.

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DWF is a top 20 national law firm offering commercial and strategic advice tailored to aerospace businesses. We are experienced in acting for OEMs, tier one and tier two suppliers, as well as for insurers and finance companies operating in the aerospace sectors, which includes providing commercial, EU/competition, mergers and acquisitions, banking, property, employment, pensions, regulatory, intellectual property and dispute resolution services.

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Investx's strategy is to create and/or acquire, build, then sell small to medium sized engineering, manufacturing and technology businesses operating within specialised, global niche markets. Growth is achieved via internal development and acquisitions focused on entities with strong fundamentals whose performance can be improved. Our chosen industry sectors enable us to supply products and technology which positions our businesses in markets with high barriers to entry and long-term growth. Portfolio companies currently operating in the aerospace sector are: Lumenox Ltd, Waveguide Lighting Ltd, and South West Battery Charging Systems Ltd. We are actively seeking further opportunities in the sector.

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RBS has a team of managers covering the aerospace and defence sectors and is particularly proud to support UK manufacturing. Our activity in the sector includes the provision of banking services, bonds, guarantees, letters of credit, loans, invoice finance, asset finance, cash management, FX risk management and introduction to equity funding/structured finance. In addition we support firms in the the sector through hosting and attending leadership/networking events and by actively participating with policy influencers such as the MAA, EEF, AGP and ADS.

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RPC is a modern, progressive and commercially-focused City law firm, with 76 partners and over 550 employees based in London, Hong Kong, Singapore and Bristol. Our market-leading lawyers provide top quality legal services to global businesses across a wide range of industry sectors and practices, including aerospace, insurance, commercial litigation, construction, engineering and projects, corporate/M&A, IP and technology, media, real estate, employment and pensions, outsourcing, regulatory, tax and competition. We ascribe our success to the level of service we give – delivering what businesses want, on time, on budget and in an easily accessible manner.

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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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Wright Hassall is a top ranked law firm, based in Warwickshire, which advises clients across the aerospace and advanced manufacturing sectors on all their legal requirements. Independent directory Chambers UK - which researches UK law firms and ranks them according to service and experience - said of the firm "impressed by their commercial awareness, their speed and the top quality of their advice. They get things done.". An active member of the Coventry & Warwickshire Local Enterprise Partnership, Wright Hassall provides a credible alternative to any business supplying the aerospace sector that needs expert, cost effective and efficient legal advice.

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Coventry University is a forward-looking modern university with a proud tradition as a provider of high quality education and a focus on multi-disciplinary research, and has a robust academic presence regionally, nationally and internationally. The School of Mechanical, Aerospace & Automotive Engineering offers undergraduate and post-graduate courses, post-doctoral research and consultancy in all aspects of mechanical and manufacturing engineering, metrology, aerospace and aviation management.

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The Institute for Aerospace Technology at The University of Nottingham is a major centre for aerospace research. More than 350 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. Our 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 for our graduates, improve their innovation capacity and solve technology problems.

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Loughborough University is internationally recognised for excellence in research, teaching and strength of industrial collaboration, with aeronautical engineering taught here since 1935. The University has one of the largest engineering schools in the UK and more than 400 academics and 3,000 students across advanced engineering and manufacturing, electronic, electrical and systems engineering, energy, big data and design. Loughborough University is ranked 3rd in the UK for quality of research in mechanical, manufacturing, aeronautical, and chemical engineering. It delivers innovation support to SMEs and challenging research collaborations, including the new £9.8m National Centre of Excellence in Gas Turbine Combustion System Aerodynamics, and the Rolls-Royce UTC (a strategic relationship spanning 3 decades), and is a founding partner of the Manufacturing Technology Centre.

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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. The University of Birmingham is a founding partner of the Manufacturing Technology Centre and has announced a partnership with Rolls-Royce to build a £60m High Temperature Research Centre - a unique casting, design, simulation and advanced manufacturing research facility.

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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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HONORARY MEMBER



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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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Adamson Jones IP Ltd	42	Croft Engineering	8	Ilmor Engineering Ltd	12	Oakwell Management Services Ltd	40	The Autins Group	19
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Advanced Chemical Etching Limited	5	CTR-Carbide Dies Ltd	30	Impreglon UK Ltd	12	O.L.D. Engineering Limited	15	Thermofax Ltd	19
Advanced Manufacturing Utilisation Ltd	5	Cube Precision Engineering	9	In-Comm Training & Business Services Ltd	41	On Logistics Ltd	37	Thomas Brown Engineering Ltd	20
Advantex Europe Ltd	5	Cullum Detainers Ltd	9	Indestructible Paint Limited	12	Orchard Environmental Systems	33	Timet UK Limited	42
AE Aerospace Ltd	5	CW Fletcher & Sons Ltd	9	Industrial Tooling Corporation Ltd	32	PAB Coventry Limited	15	Training 2000	20
AEB (International) Ltd	38	Cyient Europe Ltd	27	IngPro Ltd	39	Paragon Engineering & Logistics Ltd	15	Trust Precision Engineering Ltd	20
Aernova Engineering UK Ltd	26	D & S Engineering (Coventry) Limited	9	Institute for Aerospace Technology (The University of Nottingham)	44	Parker Precision Ltd	16	TTI Electronics	20
Aerocom Metals Limited	6	Daher Aerospace Limited	36	Institute of Materials Finishing	43	Pattosaur (Derby) Limited	37	TTI Group Ltd - Nitriding Services	20
Aeromet International Ltd	6	Danatrol	9	Investix Ltd	43	Pentaxia Limited	16	Tufnol Composites Ltd	20
Aerospace Capability Project Ltd	39	Davromatic Precision Ltd	9	IPG Photonics	32	Phoenix Calibration & Services Ltd	33	Turnell & Odell Limited	45
AFT Automation Ltd	29	Delcam Ltd	9	IPJ Solutions Limited	40	PK Engineering Ltd	16	Turner & Townsend Plc	45
AGC AeroComposites Derby	6	Derby City Council	44	ITI	32	PM Group	45	Unite the Union	45
Air & Ground Aviation Ltd	36	Design Rule Ltd	39	ITP Engines UK Limited	12	Poeton Industries Ltd	16	University of Birmingham - Birmingham Research Park	46
Alko Nobel Aerospace Coatings Ltd	6	DLA Piper UK LLP	43	JJ Churchill Ltd	12	Porvair PLC	16	University of Derby College of Engineering Technology	46
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Amco Services (International) Ltd	36	Electro-Discharge Ltd	10	Kintetsu World Express (UK) Ltd	36	RE Bowers & Freeman Limited	34	Vacuum Brazing Consultants Ltd	35
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CFS AeroProducts Limited	35								
Chinn Ltd	8								
Cimcool Europe Bv	30								
CN Alloys Limited	8								





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