



midlands aerospace alliance

Capabilities of Midlands Aerospace Companies

2017-2018

Midlands capability for the world's aerospace industry

The Midlands Aerospace Alliance is pleased to present you with the updated 2017-18 edition of our member capability directory – which marks our fourteenth 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 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.



David Danger
MAA Chairman
Managing Director
UTC Aerospace Systems -
Marston Aerospace



Peter Smith
MAA Vice Chairman
Chairman and Chief
Executive
Nasmyth Group



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



Qatar Airways Airbus A350-941 on final approach to Frankfurt Airport

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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 (AMFIN) is a company with tradition forged by experience over the last 67 years. Our extensive range of finishing processes includes electroplating, anodising, painting, NDT (including etch inspection) and thermal spraying. Our multifunctionality allows us to carry out a number of consecutive processes in one location. A strong, experienced team allows AMFIN to meet customer demands in aerospace, defence, railway and other business sectors. We hold a number of quality accreditations: NADCAP, ISO9001:2008 + AS/EN9100, ISO14001:2004, ISO14001:2007 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 is a specialist surface engineering company providing high-quality processes and service to aerospace, defence, automotive and industrial markets. We hold a wide range of quality accreditations including ISO 9001:2008, BS EN 9100/AS9100, NADCAP plus a number of third-party approvals including Airbus, Boeing, Rolls-Royce, Bombardier. The range of processes available includes NDT, anodising, 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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Established since 1965, we are the UK leading experts in designing and developing machinery and consumables for mass finishing applications. Our products include vibratory finishing machines, high energy finishing machines, fully automated systems, waste water treatment equipment, ceramic, plastic, special & agro media and liquid, powders and pastes compounds. Using our quality products, we can achieve a range of finishing applications which include deburring, descaling, degreasing, cleaning, smoothening, radiusing, brightening, polishing, drying and corrosion protection. We also offer a complete range of subcontract services comprising barreling, shot blasting and peening, precision polishing and inspection, ISO 9001, AS 9100 Rev C, ISO 14001 and Rolls Royce approved supplier for RPS 251, RPS 709, precision polishing.

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

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Companies producing flying systems and parts



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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 five axis milling and turning machines, AE Aerospace has achieved the highest industry and customer qualifications including SC21 Bronze Award. Based in Birmingham close to major road networks, airports and rail services, we are ideally situated to support customers locally and internationally.

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

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

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

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We manufacture adhesives, sealants and coatings with 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 two-part epoxies for honeycomb and composites, polyurethanes, silicone sealants. Neoprene, PU and rubber based adhesives for inflatable life rafts, chutes and escape systems. Special structural adhesives for composites. Solutions for aircraft tyre manufacture and also aircraft tyre re-treading adhesives.

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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).

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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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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.

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With over 60 years experience, APT offers one of the most comprehensive subcontract machining services in the UK. Operating 24/7 and working to the highest levels of AS 9100 and ISO 9001 standards, APT is a globally recognised manufacturer of quality precision turned parts and multi-axis CNC machined components. Experts in working with a range of exotic materials as well as ferrous steels, high temperature alloys, aluminium and plastics, APT is a trusted supplier to the aerospace, security, automotive, medical and marine sectors.

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Founded in 1967 and specialising 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 nimonic, 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 hold SC21 Bronze since 2013.

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Ash & Lacy Perforators Ltd

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The Ash & Lacy Group manufactures a diverse range of engineered products and systems for the construction, automotive, aerospace and industrial markets. We have a strong ethos of innovation through engineering excellence. In-house capabilities include: metal processing, perforating, expanding, forming, powder coating, tool manufacture, performance testing, quality testing, design & assembly services. In aerospace, Ash & Lacy manufactures perforated metal components for a wide range of applications, across many aircraft platforms. We operate to BS EN 9001:2008 quality management standards and are proud to have achieved Rolls-Royce, Bombardier, HS Marston and Safran approvals.

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Ashton & Moore Ltd

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

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

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Beadlight is an LED lighting specialist. We design, engineer and manufacture the ultimate aerospace reading lights using a unique patented diffusion system which creates the perfect reading light. We are British manufacturers proud of our quality and design. We work closely with our customers tailoring lights to meet their needs to ensure the best solution is provided.

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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.

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The name BÖHLER is synonymous with top quality specialty steels in the aerospace and defence industries. As part of Voestalpine AG with manufacturing plants in Austria and subsidiaries around the world, Bohler Steels UK supplies to a demanding and robust supply chain. Now stocking a complete range of aerospace grades in stainless and nickels to British Standard and AMS specifications in Oldbury - at the heart of the West Midlands. A purpose built automated racking system (KASTO) provides our customers JIT solutions and support with cutting, machining, bevelling, testing and more. Contact us now to discuss your needs.

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Companies producing flying systems and parts

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British Rema is one of the UK's longest established businesses in powder processing and was a pioneer in the fields of particle size reduction and particle size control. With expert knowledge and experience of the characteristics and behaviour of a wide range of particulate materials, British Rema specialises in the micronisation, classification and blending of powders and resins to tightly controlled specifications at the micron scale, either as a contract service or the design and manufacture of process equipment worldwide. Current aerospace applications for micronized powders include advanced adhesive systems, resin based polymers and composites used in component assembly.

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Bromford Industries Ltd

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Bromford Industries is a privately owned enterprise trading on a global basis, supplying precision machined components, fabrications and assemblies to leading OEM's in the aerospace, defence, marine, power generation and nuclear markets, demonstrating an impressive health and safety culture. Operating from facilities in the UK, the company specialises in engineering solutions utilising core competencies including, complex machining and fabrication of super alloys, supply chain management expertise, specialist finishes and assemblies, all fully integrated and supplied to customers requirements.

Bill Jones
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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.

Brian Cummings
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C & H Precision Finishers Limited

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CHP has over 40 years of experience in specialist capabilities and production processes for accredited finishing on a wide range of components including: turbine blades and vanes, engine casings, undercarriage landing gear parts, one-off alien parts, blisk polishing. We provide component finishing processes which include: centrifugal high energy barrelling system, deburring, finish polishing using variable speed spindles, vibro and super polishing, blasting including vapour blast, CMM inspection services, all to meet the most demanding quality levels and approvals. Process methods are carried out using a highly skilled and trained workforce. Superfast turnaround times, often within 24 hours

Jack Oldershaw
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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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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 USA 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 are 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 60 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 union 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 and plating. We are a grade 'A' supplier to major tier one aircraft and defence contractors.

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Companies producing flying systems and parts

Danatrol

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

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Datum Engineering Company Ltd

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Immediate capacity - hot forging and machining of high strength fasteners in exotic materials. Machine to print - CNC multi axis precision machined components in all materials, especially exotic and hard materials and ceramics. Capability includes CNC profile grinding, thread rolling, hot forging of high strength fasteners. Supported by a full range of CNC inspection equipment including laser scanning and roundness measurement. Specialist forged fasteners in nimonic, inconel, titanium, waspalloy, durahete 900 & 1055 for nuclear and aerospace applications.

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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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Destec Engineering Ltd

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Destec Engineering Ltd, established for over 47 years, is a privately owned engineering company providing product and services to sectors including oil & gas, power generation, defence, aerospace, nuclear & rail. Our inspection & NDT facilities offer in-house and on-site testing, including fluorescent magnetic particle up to 1.5m length/400mm dia on our programmable bench, fluorescent dye penetrant allowing for large or multiple small/medium component processing utilising 450 litre capacity tanks, ultrasonic testing, crack depth measurement, XRF positive material identification, hardness testing, and Faro arm CMMs. We offer in-house machining and bespoke on-site machining services where we "bring the machine to you". We are ISO 9001 accredited.

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Doncasters Aerospace Ltd

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Supplier of fabrications and machined components to the aerospace industry, including turbine blades and vanes for aero-derived gas turbines.

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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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Dunlop Aircraft Tyres specialises in the design, manufacture and retreading of world class aircraft tyres. Manufacturing new tyres in Birmingham UK, the company offers a retread and distribution service from England, the USA and China for popular aircraft from manufacturers like Airbus, Boeing, Bombardier, Embraer and more.

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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.

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Electro-Discharge Ltd

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

Rupin Vadera
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Energy Tubes Ltd

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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

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epm: technology is a high-performance engineering business which specialises in composite component design and manufacture of complex assemblies and sub systems for automotive, aerospace, defence and FI clients. From our purpose-built, 60,000 sq. ft. technology centre in Derby, we manufacture complex, lightweight, performance-critical and environmentally advantageous components, including patterns, jigs and prototype parts. Our AS9100 certified quality management system applies across all sectors at our technology centre.

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

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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 including cockpit electronics and displays, control products, power distribution components and systems, sensors, seals, clamps, thermal protection equipment, interconnect solutions, software and surface finishing services and more.

Annette Rothwell
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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, spray-bake paint booths, Faro Arm and Stiefelmayer and Faro 'Ion' laser tracker.

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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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Companies producing flying systems and parts

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

Tim Hall
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GMT is a global leader in the supply of structure stabilising tie rods, anti-vibration mounts and shock control solutions. GMT's structural tie rods are purpose-designed to fix walls, galleys, lavatories and hat racks to the structure of the aircraft. They are also used in the wings, flaps and undercarriage. Strong lightweight materials such as carbon fibre, titanium and aluminium are used to optimise weight and performance. GMT's rubber to metal bonded anti-vibration mounts are used to reduce harmful vibration and noise using specially formulated rubber compounds for use in jet engines and aircraft cabins.

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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. Specialists in the supply of stranger and alien parts for the after-sales market. Parts manufactured include nozzles, jets, match ground spools and sleeves and other fuel-line components, small prismatic and actuation unit parts.

Dean Banks
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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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Hauk Heat Treatment Ltd

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

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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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Specialists in 2D & 3D CO2 laser cutting, 5 axis waterjet & micro waterjet cutting, YAG laser drilling, electro discharge machining (EDM), CNC machining, routing, punch and brake press, general fabrication and 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.

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Icon Aerospace Technology

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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 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 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, FER, ECTFE, ECTFE (Halar®), flame spray tungsten carbide and chrome oxide, and arc spray zinc, aluminium [TSA], stainless steel and nickel alloy. The new SafeCoat 600 series is a highly effective anti-microbial decorative coating.

Guy Williams
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Indestructible Paint Limited

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Sparkhill
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B11 3TA
t: 0121 702 2485
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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.

Richard Banks
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Investment & Precision Castings Ltd

Nari Road
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Gujarat
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364006
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We have a foundry at Bhavnagar, India with capacity to supply 1,500 TPA of precision cast parts by lostwax process in ferrous & non-ferrous materials having air-melt, rollover and vacuum melt induction melting furnaces. Our QMS & HSE practices are certified for ISO 9001, TS 16949, AS:9100 & PED 97/23/EC, ISO 14001 & BS OHSAS 18001. We have Type Approval Certification by Center for Military Airworthiness & Certification (CEMILAC), Defence Research and Development Organisation (DRDO), Ministry of Defence Government of India for aluminium investment casting for Light Combat Aircraft 'Tejas'. We offer 3D printed rapid prototype castings and PMMA patterns (Voxeljet VX500). Our CNN machine shop supplies precision machined parts from profile bar stocks.

Saraj Andhariya
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ITP Engines UK Limited

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United Kingdom
LE8 6LH
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w: www.itp-engines.co.uk

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: core engine design and analysis, test rig design and manufacture, engine airframe integration, engine control systems, 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 the manufacture and supply of finished components and assemblies to a variety of 'blue chip' OEM customers. Products range from diesel-engine components and assemblies machined from ferrous and non-ferrous castings, through to gas-turbine blades 5-axis milled from bar; oversized and or precision forgings or castings in titanium and nimonic materials.

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Kepston Limited

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WS10 7BW
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Kepston Limited has the ability to provide a specialist sub-contract service to the aerospace industry. Kepston has the capability to offer heat treatment and brazing using vacuum and protective atmospheres, along with the latest generation wire eroders with clean cut technology that leaves a zero cast layer and specialised high precision CNC jig, surface and universal grinding, CNC turning and milling.

Chris Marsh
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Companies producing flying systems and parts

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.

Matthew Lacey
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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 ball screws 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 ball screws 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 UK

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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 recognised 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

Spring Lane
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Precision plastic injection and compression mouldings. Over 90 years LGG Charlesworth has established a unique combination of experience successfully supplying components and assemblies into most technical manufacturing sectors; aerospace & defence, automotive, petro chemical, medical, electronics etc. Another strength that differentiates LGG Charlesworth in the supply chain is the processing expertise across the full range of engineering plastics up to top end PPS, LCP, PEEK etc. Extra to the core moulding activity LGG Charlesworth offer sub-assembly services. Our UK manufactured products, especially for the aerospace and defence sector, form a cornerstone of our cross industry ability to support you.

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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, waspalloy 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.

Barry Lomas
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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.

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Medley Precision Engineers Ltd

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Medley Precision Engineers Ltd is a family owned business with over three decades of experience in a wide array of machining disciplines, supplying precision machined components to a diverse customer base. Medley's operates to the quality management system AS 9100 Rev C.

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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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Mettis Aerospace Limited

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

Phil Thornton
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MGS Precision

Newcastle Street
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Manufacture of complex precision parts for the aerospace, nuclear, power generation, marine and motor-sports markets, with 5-axis machining expertise in speciality metals including MGS's propriety Densamet Tungsten alloys. Fast make and prototype parts specialists.

Paul Smith
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Micro Spring & Presswork Ltd

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Micro Spring & Presswork is a specialist manufacturers of a wide range of precision springs, presswork and assemblies and is accredited to AS9100 Rev C, NADCAP merit status and SC21 Bronze. MSP makes 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, 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; complete tooling services.

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MJ Sections Limited

Marriott Road Industrial Estate
Cradley Road
Dudley
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United Kingdom
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t: 01384 217000
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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.

Steve Cresswell
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Companies producing flying systems and parts

Momentum Engineering Ltd

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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 and AS9100 company providing high-precision components internationally. 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

Wolverhampton Operations
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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 an AS9100 BSI approved company. We have recently enrolled onto the SC21 programme. Established in 1981, we have over 30 years' experience in producing precision components for a variety of industries. We now specialise in the simultaneous machining of 5 axis components, which, alongside our CNC milling, turning and EDM capabilities ensures that we are well equipped to handle the reduced lead times and exacting quality requirements expected in today's demanding markets. Our new investment in plant enables us to not only maintain our enviable record of producing small batches for Formula 1 but seriously engage aerospace customers with cost effective contracts for larger batches.

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Nasmyth Arden

The Highlands
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t: 0121 683 5200
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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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Nasmyth Group Limited

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t: 02476 361156
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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.

Nicky Forster
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NMB-Minebea UK Limited

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w: www.minebea.co.jp

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

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O.L.D Engineering Limited

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t: 01455 612521
w: www.oldengineering.co.uk

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

Neville Top
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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 centres 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 clients' 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 clients' requirements.

Rob Lewis
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Paragon Engineering & Logistics Ltd

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t: 01902 789888
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Make-to-print low and high volume precision machined components. New product introduction through to full production including spares and repair work incorporating precision and general machining capabilities using CNC and conventional machines including all types of turning, milling, grinding, honing, 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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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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Paul Fabrications Ltd

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t: 01332 818000
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Paul Fabrications manufactures complex fabricated and machined assemblies for the aerospace, industrial power generation and nuclear power sectors. Operating from a modern 60,000 sq. ft. facility it prides itself on exceeding customers expectations, consistently achieving class-leading quality and delivery performance. Manufacturing utilises computer-aided processing, with 6-axis fibre 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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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 metallography and chemical analysis.

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Pre-Met Limited

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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, 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.

Andre Russell
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Precision Technologies International Ltd

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Precision Technologies is an accomplished manufacturer of precision components, tools and gauges. We have been supplying leading OEM's and 1st tier suppliers, including UTC Aerospace Systems, Moog and Leonardo Helicopters with high precision drive components for many years. Products manufactured in our fully equipped facility include: machine cut or ground gears, splines, threads and worms. Maximum flexibility ensures we are able to offer both full component manufacture or single operation sub-contract processing for small batch production.

Patrick Walker
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Companies producing flying systems and parts

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.

James Sundler
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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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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

Unit 2 Manchester Business Park
Tewkesbury Road
Cheltenham
Gloucestershire
United Kingdom
GL51 9EJ
t: 01242 521998
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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 WEAFA.

Shane O'Donnell
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Rudd Macnamara

Holyhead Road
Handsworth
Birmingham
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United Kingdom
B21 0BS
t: 0121 523 8437
w: www.nameplates.co.uk

Manufacturer of labels and nameplates for use in aerospace applications such as engines, flight controls, actuated systems etc. We also manufacture specialist branding decals suitable for the exterior of the aircraft. Fully conversant with documentation and procedures required for the aerospace environment. We are certified to AS9100C/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 UTC Marston Aerospace and other aerospace companies. Our broad process capability includes: etching of stainless steel using either chemical etching or laser etching processes, anodising and printing of aluminium, printing polycarbonate labels, fabrication of parts using on site press shop facilities & 2D data matrix marking and bar coding.

Robert Minors
e: rminors@ruddmacnamara.com

Schivo Group

Unit C
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Narborough
Leicestershire
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LE19 2GA
t: (0) 1162 864898

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

David Kidd
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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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Sheen Spark Ltd

Unit 1, Ewhurst Avenue
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Birmingham
West Midlands
United Kingdom
B29 6EY
t: 0121 472 6241
w: www.sheenspark.co.uk

Sheen Spark Limited is a well-established Birmingham based family run business who have provided competitive sub contract EDM services to the aerospace industry for over 45 years - specialising in a combination of CNC wire erosion and CNC spark erosion. We employ a team of highly skilled, experienced operators with our quality department ensuring we maintain the high standards of work that we pride ourselves upon. We are AS9100 Revision C and Nadcap quality approved; SC21 Bronze accredited, and we also hold approvals from major aerospace companies including Rolls-Royce, Goodrich/UTC Aerospace Systems, MTU and others. MTU and others.

Richard Sheen
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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.co.uk

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

Andreas Bergman
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**Sigma Precision Components UK Ltd**

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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, ISO14001, Rolls-Royce etc. Access to our sister company Chengdu Sigma Precision Components in China allows us to offer local supply whilst offering the highest possible value to our clients where we hold a leading position in our chosen markets.

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SL Engineering Ltd

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Aslackby
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NG34 0HJ
t: +44 (0)1778 440228
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SL Engineering Ltd provides a full in-house solution for the manufacture of rigid tube assemblies and precision machined components for the aerospace and industrial gas turbine markets. Capabilities include CNC tube manipulation, CNC multi-axis (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

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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
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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 out 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.

Madeline McGee
e: reception@spincraft-etg.com

Summit Engineering (Birmingham) Ltd

Unit 31 Monkspath Business Park
Highlands Road
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United Kingdom
B90 4NZ
t: 0121 733 5410
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Summit Engineering (Birmingham) Limited is a precision engineering manufacturing company, originally formed in 1965 under the name of Da.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

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United Kingdom
CV5 9PF
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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Companies producing flying systems and parts

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, preferred supplier of high integrity precision machined components, integrated kits and mechanical assemblies. Nottinghamshire based, Swiftool support customers globally operating within the aerospace, nuclear, marine and petrochemical markets. Swiftool offer 80,000 hours of manufacturing capacity per annum, utilising the latest 5 and multi axis CNC machine tools, grinders, EDM, CMM and optical inspection technologies. Further services include NDT, pressure testing, grade B cleaning and military packing. Swiftool are a SC21 signatory approved to AS9100, Babcock S1 and Rolls Royce 3001 – Sabre.

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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 providing an excellent and dedicated service, meeting high efficiency whilst maintaining high standards.

Craig Parker
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Technetics Group UK

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Coventry Road
Narborough
Leicestershire
United Kingdom
LE19 2FT
t: 0116 272 7411
w: www.techneticsgroup.com

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

Mr Alan James
alan.james@techneticsgroup.com

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 40 different aircraft parts, working in metals including stainless steel, titanium, aluminium alloys and most carbon steels.

Paul Fellows
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Technoset Ltd

Unit 3A Roman Way
Glebe Farm Industrial Estate
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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.

Tracy French
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The Autins Group

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Development of acoustic (NVH) and thermal insulation solutions, manufacturer of lightweight acoustic absorbers, manufacturer of acoustic and thermal components.

Jim Griffin
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Thermofax Ltd

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

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

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Timet UK Limited

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Birmingham
West Midlands
United Kingdom
B6 7UR
t: 0121 356 1155
w: www.timet.com

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

Ben Kitson
e: ben.kitson@timet.com

Trust Precision Engineering Ltd

Unit 2 Meadowbank Court
Eastwood
Nottingham
Nottinghamshire
United Kingdom
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 provide 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.ttelectronics.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 parts designed and made in Lutterworth in equipment such as aircraft equipment (both civil and military), space vehicles, telecommunications and industrial power electronics. The TT Electronics Lutterworth facility specialises in: power modules, discrete semiconductors and high performance RF MOSFETs.

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

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

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://utcaerospacesystems.com/cap/systems/Pages/systems.aspx>

Actuation & Propeller Systems (APS) is a global leader in actuation and propeller design and manufacturing for commercial and military aircraft. We have facilities in the UK, Europe, USA and 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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Companies producing flying systems and parts

UTC Aerospace Systems - Marston Aerospace

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

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

Peter Law
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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 production of more than 170,000 tons of special high quality steels. Founded in 1925, Valbruna Stainless Steel maintains its original business strategy of serving niche markets with high quality products and dedicated service to its clients.

Nick Bate
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Victoria Drop Forgings

Wednesfield Road
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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
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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, Tuffride, case harden and annealing of components of various materials. All processing takes place to the exacting standards set out by Nadcap and OEMs such as Rolls-Royce, BAE Systems, Airbus, Bombardier and AgustaWestland. These high-end processes are complemented by our lab facilities providing testing and quality monitoring. The Wallwork transport network also allows work to be collected in the majority of the UK and our in-house metallurgical services support the customer before, during and after treatments.

Howard Maher
e: howard.maher@wallworkht.com

WH Tildesley Ltd (Forging)

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

W H 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
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West Midlands
United Kingdom
CV1 4DQ
t: 02476 258 811
w: www.wheelabratorimpact.com

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

Tony Grammauro
e: impact@wheelabratorgroup.com

Winbro Group Technologies Limited

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

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

Alan Duffield
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WTI Fasteners Ltd

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

Established in 1989, WTI Fasteners is a specialist manufacturer of helically coiled wire thread inserts. Produced from aerospace quality stainless steel, the wire thread inserts provide a high performance internal thread resistant to the effects of temperature and corrosion. With a number of other materials and platings available in an extensive range of sizes, along with complementary tooling, WTI is the source for all your wire thread insert needs, whether fulfilling high volume orders or meeting smaller requirements. Registered to AS9100 revC/ISO 9001:2008, we strive to uphold our reputation for excellent products, quality customer service, and expert technical advice.

Josephine Mason
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Wyken Tools Ltd

Unit 3
Bodmin Road
Coventry
West Midlands
United Kingdom
CV2 5DB
t: 02476 621515
w: www.wykentools.co.uk

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
e: info@wykentools.co.uk

Companies producing flying systems and parts

Company Capabilities

Company	A & M EDM Ltd	Abbey Metal Finishing Co Ltd	Accrofab Ltd	Acorn Surface Technology Ltd	ActOn Finishing Ltd	Advanced Chemical Etching Limited	Advanex Europe Ltd	AEAerospace Ltd	Aeromet International Ltd	Alkzo Nobel Aerospace Coatings Ltd	Alloy Heat Treatment Ltd	Alloy Wire International	Alpha Adhesives & Sealants Ltd	Aluminium Special Products Limited	Amphenol Innotech Limited	ANT Industries	APT LEICESTER LTD	Arrowsmith Engineering (Coventry) Ltd	Ash & Lacy Perforators Ltd	Ashton & Moore Ltd	Atlas Composites Limited	Beadlight Ltd	Bodycore Heat Treatments Ltd	Bohler-Uddeholm (UK) Limited	British Rema Processing Ltd	Bromford Industries Ltd	Bulwell Precision Engineers Ltd	Burcas Ltd	C & H Precision Finishers Limited	Chinn Ltd	CNAlloys Limited	Columbia Precision Ltd	
Adhesives and Coatings																																	
Armaments and Related Equipment																																	
Autoflight Systems and Equipment																																	
Communications Systems and Equipment																																	
Control Systems and Equipment																																	
Electrical Cable Accessories/Electrical Harnesses																																	
Electrical Panels and Electrical Components																																	
Electrical Power Systems and Equipment																																	
Engines																																	
Equipment-Furnishings																																	
Flight Training																																	
Fuel and Fuel Systems																																	
Fuselage																																	
Ground Systems and Equipment																																	
Hydraulic Systems and Equipment																																	
Indicating, Data and Recording Systems																																	
Landing Gear																																	
Material Manufacturer																																	
Material Supplier																																	
MRO																																	
Navigation Systems and Equipment																																	
Processes and Shapes																																	
Propellers and Rotors																																	
Safety and Rescue Systems and 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																																	
Leonardo/AgustaWestland																																	
Airbus																																	
BAE Systems																																	
Boeing																																	
GE																																	
GKN																																	
Goodrich/UTC																																	
Lockheed																																	
Messier-Dowty																																	
Moog																																	
MTU																																	
Northrop Grumman																																	
Pratt and Whitney																																	
Rolls-Royce																																	
Snecma																																	
Other																																	

Companies producing flying systems and parts

Company Capabilities	Lancaster Alloys UK	LGG Charlesworth	Manthorpe Engineering Ltd	Maycast Nokes Precision Engineering Ltd	Medley Precision Engineers	Meggitt	Mettis Aerospace Limited	MGS Precision	Micro Spring & Presswork Ltd	Microjet Precision Services Ltd	Micrometric Limited	Midland Tool & Design Limited	MJ Sections Limited	Momentum Engineering Ltd	Moog Aircraft Group	MP Engineering UK Limited	Nasmyth Arden	Nasmyth Group Limited	NMB-Minebea UK Limited	OLLD Engineering Limited	Oerlikon Balzers Coating UK Ltd	PAB Coventry Limited	Paragon Engineering & Logistics Ltd	Parker Precision Ltd	Paul Fabrications Ltd	Pentaxia Limited	PK Engineering Ltd	Poeton Industries Ltd	Pre-Met Limited	Preci-Spark Ltd
Adhesives and Coatings	•							•	•			•						•					•						•	
Armaments and Related Equipment							•	•	•			•											•						•	
Autoflight Systems and Equipment										•						•														
Communications Systems and Equipment								•	•												•					•	•			
Control Systems and Equipment								•	•							•								•						
Electrical Cable Accessories/Electrical Harnesses						•						•												•						
Electrical Panels and Electrical Components																			•										•	
Electrical Power Systems and Equipment							•		•			•				•													•	
Engines			•			•	•	•	•			•					•			•					•			•	•	
Equipment-Furnishings							•		•																	•	•			
Flight Training																														
Fuel and Fuel Systems																														
Fuselage							•	•				•					•			•					•		•			
Ground Systems and Equipment			•																											
Hydraulic Systems and Equipment							•		•						•												•			
Indicating, Data and Recording Systems									•																					
Landing Gear							•																							
Material Manufacturer	•	•	•					•	•		•														•	•	•	•	•	
Material Supplier	•							•																						
MRO	•				•				•			•		•			•							•		•	•		•	
Navigation Systems and Equipment																														
Processes and Shapes	•		•	•	•		•	•	•		•	•	•	•	•	•	•		•				•		•	•	•	•	•	
Propellers and Rotors							•																							
Safety and Rescue Systems and 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																														
Leonardo/AgustaWestland								•	•	•					•				•									•		
Airbus				•			•	•	•																				•	
BAE Systems			•	•		•	•	•			•	•	•	•	•	•			•									•	•	
Boeing							•	•	•						•														•	
GE							•		•																				•	
GKN							•	•				•																	•	
Goodrich/UTC				•					•			•												•					•	
Lockheed			•				•																							
Messier-Dowty							•												•										•	
Moog									•																				•	
MTU						•	•										•												•	
Northrop Grumman																														
Pratt and Whitney																									•			•	•	
Rolls-Royce	•	•			•	•	•	•	•		•	•	•	•	•	•			•					•	•	•	•	•	•	
Snecma																			•										•	
Other																									•	•			•	

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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ARA is a research and development company providing aerodynamic research, design, development and analysis services to the aerospace industry. Working with the world's leading OEMs and academia, we provide research and technology capability to take products and capabilities from basic research through to industrialised products. Our aerospace business activities centre on the design and development of new aircraft and defence systems from initial design through to in-service updates, specialising in aerodynamic, aero-elastic and acoustic analysis of external and internal flows. Our services are high speed wind tunnel testing, wind tunnel model design and manufacture and aerodynamic design and analysis.

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

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AXISCADES offers solutions that range from concept generation phase to manufacturing support and certification, making us the preferred choice of engineering partner for aerospace OEMs and tier 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 AXISCADES becoming a trusted value partner. AXISCADES provides integrated solutions for system and sub-systems including primary and secondary structures (metallic and composites), electrical wiring harness design, aircraft interiors, manufacturing engineering, technical publication, reports on non-conformances and avionics.

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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. We also 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 the co-creation of 25 patentable design solutions and an improvement in 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 multi-disciplinary 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 systems for military and commercial aircraft, space propulsion, and industrial applications including clean power generation and oil and gas. FTT's extensive working knowledge of the detailed design process and our expertise – more than 4000 years of turbomachinery and combustion experience – gives our customers industry-best durability and performance for their products. We leverage our cross-industry capabilities to deliver innovative, cost-saving solutions for our customers. Our extensive supplier base and continuing education programmes further add value to our services.

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Institute of Materials Finishing

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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 4,200 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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Romax Technology is the global leader in software, analysis and services for gearbox, bearings and driveline systems. Providing engineering services and solutions for product and process design, enabling the world's largest OEMs and suppliers to achieve right first time design.

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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 centres. Tata Technologies covers every aspect of the value chain starting from product conceptualisation to aftermarket maintenance repair and operations.

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Vector provides aircraft OEMs and suppliers an open development platform of tools, software components and services for the development and testing of embedded avionic networks. Our customers appreciate Vector as a reliable and technically competent partner when seeking efficient solutions for electronic networking. Customers from across the globe – in the automotive, heavy-duty vehicle, aerospace, transportation and control engineering fields – rely on solutions and products from the independent Vector Group.

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

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Companies offering specialist support services and equipment

PRODUCT AND MATERIAL TESTING SERVICES

Exova

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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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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 has been a trusted partner of the plastics and rubber industries for over 90 years. Our business is built around delivering a complete portfolio of rubber and plastic testing services to support a wide range of industry sectors including aerospace, automotive, oil and gas, medical device, pharmaceutical, transport, packaging, industrial and consumer products. By integrating science, technology and business expertise, Smithers' goal is to add value throughout the life cycle of our clients' products.

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Specialist balancers of rotating equipment to aerospace, automotive, power generation, petrochemical and general engineers worldwide. Dynamic/static precision balancing, high speed testing, cadmium brush plating, mass moment weighing of turbine blades, machining (turning and milling), fabricating, vibration services, condition monitoring, on-site balancing, laser alignment, non-destructive testing, bearing analysis, site testing and commissioning, 24 hours breakdown service, repair and spare services.

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Westmoreland Mechanical Testing and Research Ltd (WMT&R) is a leading materials test laboratory located in Banbury UK. WMT&R, accredited to UKAS 17025 and Nadcap, specialises in testing 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 metallographic and materials failure analysis. WMT&R is the European subsidiary of WMT&R Inc: for further information see www.wmtr.co.uk or contact salesuk@wmtr.com

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

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Acres Engineering Ltd specialise in providing bespoke fabricated production support equipment. Our products look to challenge current working practices, methods and processes. We apply best practice acquired from serving a multitude of industries during the last 70 years. Our products are designed for safety, integration, standardisation, low maintenance, easy use and low cost life cycle. In addition we have embraced digital solutions developing many cloud based E-Systems / apps for the use of tracking media or storing maintenance activities. Just like our engineered products these systems are custom to specific client requirements. Review our recent projects on our website!

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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 and 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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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 have 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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Experts in industrial and process automation, quality and IT Solutions. ATS offers solutions for industrial and 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 and support, ATS products and partners, software development, training and workshops.

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Companies offering specialist support services and equipment

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A world leader in precision measurement. As a leading supplier of quality metrology instruments the Bowers Group has developed into a respected global leader in the field of measurement. Our first-class reputation has been built on the continuing group ethos of striving for excellence in both the comprehensive range of products that we supply and the many quality services that we provide to our customers. The Group's aim is to build on its hard-won reputation and continue to exceed customers' expectations with brands from Bowers, Moore and Wright, Baty, Trimos, Sylvac and Gaugemaker.

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Busch Vacuum Pumps and Systems is one of the largest manufacturers of vacuum pumps, blowers and compressors in the world. Our product range comprises the largest selection of solutions for vacuum and overpressure technology in all industry sectors worldwide. Within the UK our customers receive the highest possible service levels - with three service centres, in Shropshire, East Kilbride in Scotland and Portadown in Northern Ireland - we are a global company but we provide the best local attention.

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

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Cullum Detuners Limited specialises in the design, manufacture, installation and commissioning of noise control equipment associated with gas turbines and in particular has over 60 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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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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Dürr Ecoclean delivers products, systems and service solutions for technical cleaning applications and surface treatment processes. Aerospace industry customers and their suppliers, as well as part and component manufacturers from the wider industrial market – from the medical and optical equipment sectors to automotive and aircraft construction – appreciate our technology and our services. Equipment for the most diverse parts' cleanliness requirements, ultrafine cleaning, loading, unloading equipment, surface activation systems, fluid-based surface treatments prior to coating or painting, as well as high-pressure paint stripping, cavity preservation, phosphating and deburring applications. Media include aqueous, solvent, modified alcohols and steam.

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EOS is the world's leading technology supplier in the field of industrial 3D printing of metals and polymers. Formed in 1989, the independent company is a pioneer and innovator for comprehensive solutions in additive manufacturing. Its product portfolio of EOS systems, materials, and process parameters gives customers crucial competitive advantages in terms of product quality and the long-term economic sustainability of their manufacturing processes.

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Engineering Technology Group

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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 designs and manufactures 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 complemented 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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Expert Advanced Manufacturing Technologies

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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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Companies offering specialist support services and equipment

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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 programs Heller operates an apprenticeship program, 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, in the UK, operates from a purpose-built base in Telford from where it sells and supports all of the Hexagon MI brands - including Leitz, Quindos, DEA, Optiv, Romer, SIMS 360, Aicon, Q-DAS, Leica Geosystems, Cognitens, Tesa and 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, softwares and hand tools. A large service, support and applications team underpin all of our products to ensure complete customer satisfaction.

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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 are 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 revolutionising 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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Keysight Technologies Ltd 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 Keysight Technologies group providing data acquisition, signal conditioning, recording, analysis and bespoke test rigs.

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KG Washford specialises 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 are ideally positioned to meet your engineering requirements.

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Kuka Aerospace is the partner for highly innovative robot-based manufacturing solutions for the aerospace industry. Products and service range from special machine tools to flexible robotic cells and complete systems.

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Global manufacturer and distributor of high-performance standard and customised tools for your industry. Reducing your costs is our specialty; optimised tooling solutions for the machining of applications within many typical aerospace segments, such as airframes, avionics and missiles, aerostructure, control systems and aero engines; wide range of advanced, customised 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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The MAPAL Group is one of the leading international suppliers of precision tools for the machining of practically all materials. The company founded in 1950 supplies leading customers from the automotive and aerospace industries and from machine and plant engineering. With its innovations in production and machining technology, MAPAL considers itself a technology partner; supporting customers with the development of efficient and resource-conserving machining processes using individual tool concepts. The company has production facilities, sales subsidiaries and representatives in 44 countries worldwide with the UK manufacturing facility centrally located in Rugby

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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, unisex products, convolute wheels, quick change discs, grinding wheels and other abrasive products under the MASTER brand. Working to provide solutions for you, our partners include Standard Abrasives, Cratex, Urma Rolls and Darmann. Master Tool Services department offer 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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Companies offering specialist support services and equipment

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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 employ over 30 engineers to provide an industry leading service, spares and training support organisation to over 1,500 individual customers with more than 4,000 CNC machine tool installations. Doosan machines are designed and manufactured by the machine tool division of Doosan Infracore.

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

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

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Orbital Welding Equipment Ltd

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Direct supplier of high quality orbital welding, cutting and bevelling equipment to the aerospace industry. Sales, hire, service, calibration and welder/operator training. We can bring true value to your company, through our wealth of experience and knowledge of the orbital welding process. OWE Ltd offers the latest Orbitalum and Orbital Service orbital welding machines, backed up by the whole range of cutting, facing, tube squaring and bevelling equipment. We are also fully qualified to install and train you in all of our products.

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

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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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Rozone supplies innovative solutions to complex cleaning problems that have traditionally been the preserve of hazardous chemical products. Rozone uses effective water-based or safer solvent-based solutions, protecting technicians and offering environmental benefits. Rozone's bio-remediating, self-recycling parts cleaning machine, the Smartwasher®, reduces the use of harsh toxic chemicals, helps technicians work more safely and also benefits the environment. It emits no fumes and assists with ISO14001 compliance. The demand for our range of sustainable solutions has developed significantly and we are proud to work with a wide range of customers including defence, aerospace, automotive, plant hire, government and municipal and many more.

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RTCsystem solutions **RTC Electronics Ltd**

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RTC is a solution provider for turnkey electro-hydraulic test rigs and ATE equipment covering all market sectors. Specialists in customisation, integration and non-standard applications, supplying avionics hardware in the loop systems, closed loop servo control systems, control instrumentation with data acquisition. 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 35 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 is the leading global manufacturer and distributor of hand and power tools, tools storage and torque equipment for the aerospace industry. Our range includes FOD prevention products and tool control systems, from basic shadow concept to a fully advanced electronic "asset tracking management system." All products conform to international standards and/or aerospace technical specification, SBACTS48, JDS1200 and MOD Defstans.

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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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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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Companies offering specialist support services and equipment

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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 are 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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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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VR is an aviation and airworthiness consultancy and training organisation staffed by former UK CAA airworthiness surveyors with many years of experience in aviation regulation, ranging from oversight of approved organisations in the UK and worldwide to international rulemaking and joint authority committees. We have provided practical and classroom training to industry and regulatory authorities. We work with clients to guide them through the process of regulation compliance to achieving full and cost effective compliance. We cover: new approvals and existing approvals, regulatory approvals healthchecks, expert advice, independent quality audit support, airworthiness standards, aircraft airworthiness records surveys, aircraft CAW compliance software.

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Advantage Resourcing has been providing targeted recruitment consultancy across its core markets for over 35 years. We specialise in permanent, temporary and contract placements of high-calibre candidates in: technology; public sector; accounting and finance; banking and financial services; executive assistants and business support (via our Crone Corkill brand); human resources; technical and engineering. Our Engineering division covers aerospace, automotive, defence, general engineering and space. Crone Corkill, Advantage Resourcing's executive assistant and business support division, is a market leader in business support recruitment. Advantage xPO is the outsourcing division of our group. Advantage xPO provides its customers recruitment process outsourcing (RPO), managed service programs (MSP), payroll and functional outsourcing for corporate divisions.

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Consilium Recruit is an award winning supplier to aerospace and defence organisations. Since 2001 we have been the principal recruitment partner to MAA businesses and our recommendations speak for themselves. Recruiting for engineers, management grades and industry executives, our unrivalled technical knowledge coupled with high success rates result in a comprehensive service that takes the hassle out of recruitment. Put simply we are the aerospace and defence recruitment experts.

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Encore Personnel offers recruitment solutions across the engineering, industrial and driving sectors for both temporary and permanent placements. Encore Technical has a speciality aerospace division supporting the Midlands. Encore is currently working with leading companies in the UK within light, medium and heavy engineering process industries and engineering services. Encore built its success upon supplying skilled and experienced staff where others have failed. Encore provides total engineering coverage from shop floor engineering, to senior management, offering a consultative service to many of the UK's high profile companies, improving efficiencies and offering cost savings.

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Hays is a leading global expert 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 recruits 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 work 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 33 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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A specialist technical recruitment consultancy within the aerospace, defence and aviation sectors covering the following disciplines: design; manufacturing, maintenance, quality, purchasing, supply chain, product engineering, sales and marketing and human resources. Particular strengths include lean/six sigma and operations management. Additional services include Integrated HR which offers a full assessment centre design capability including the provision of psychometric testing.

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Optima is an innovative provider of recruitment, training, business advice and consultancy services specialising in manufacturing, engineering procurement and supply chain, office services and senior executive appointments. Our work within the aerospace industry is largely focused on providing permanent and interim staff to tier 1 and tier 2 suppliers achieving optimum return on your people investment. Our team is committed to providing bespoke recruitment services by working closely with our customers to fully understand their needs. With over 40 years' experience in professional recruitment and sector expertise, we have experience of recruiting nationally and internationally including Europe, Asia and EMEA.

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Resource Group offers aviation, aerospace, rail and defence resourcing solutions supporting OEMs, operators and support businesses. Services include: aviation and aerospace resourcing solutions which provide flight crew services for commercial and VIP aviation markets as well as flexible maintenance and operational support resourcing solutions. The Training Solutions division provides high quality, cost effective UK CAA, EASA Part-66 approved training, UK CAA approved RPAS training (SUA) and air traffic training services. Systems, Software and Solutions divisions provide outsource solutions for software, firmware, and systems engineering. The Technical Recruitment Solutions division is a security cleared resources provider to multi-national organisations worldwide. Resource Group also provides flexible unmanned aviation service delivery solutions.

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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 and CAD engineers, development, CAE, lean manufacturing, production, quality, operations, systems, electronics, software, maintenance and reliability; purchasing and supply chain - purchasing, material control, planning, supply chain, logistics and 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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LEGAL AND FINANCIAL SERVICES

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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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Aon is the leading global provider of insurance/ re-insurance and risk management solutions to all aspects of the aerospace industry.

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BHW is the country's leading law company for aerospace contracts. We have been instrumental in defining the latest generation of standard industry contracts with the world's primary aircraft manufacturers and have advised on contracts with Airbus, Rolls-Royce, GKN, Lockheed Martin, Fokker, Spirit, BAE and Eurocopter. We also have particular expertise in UK and off-shore managed supply chain solutions including contracts for sub-assembly, standard parts production, processes and AGS. Additionally, BHW provides a full range of company, commercial, corporate, property, employment and dispute resolution services. We provide a cost-effective service and have the quickest turnaround times in the industry.

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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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Cowens Survival Capability is an independent firm of chartered insurance brokers focused on the management of risk, insurance balance sheet protection and business survival. Our role is to provide clients with professional expertise, which they deserve and expect. Too many companies buy, or in most cases are sold, insurance protection that in the event of a serious claim proves to be inadequate for their needs. The primary purpose of purchasing insurance protection is that when a loss occurs, your insurers will deliver a speedy and fair settlement. Our team works with you to deliver a tailored service that suits you and your business - a truly bespoke offering.

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At DLA Piper we have a dedicated team of specialist aerospace and defence lawyers who have been closely involved in many of the significant issues and challenges faced within the industry. The global reach of DLA Piper - 4,200 lawyers working in 76 offices in 30 countries - allows us to support clients locally and cross-border. Our experience includes advising manufacturers of aircraft, engines and parts through to airlines, airports, aerodromes and government departments. Services include: projects, outsourcing, commercial contracts, intellectual property, regulation, liability and risk, disputes and litigation, M&A, employment and pensions, finance and leasing, real estate and tax.

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Patent and trade mark attorneys & IP solicitors. HGF is a top ranked patent and trade mark firm. It is recommended by all the major legal directories, including managing intellectual property, The Legal 500 and Chambers & Partners. We advise on all aspects of intellectual property across all technological sectors including aerospace engineering (engines, airframe, hydraulics, landing gear), avionics, fuel and fuel systems, comms, components and materials (metals, composites, coatings, adhesives).

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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, 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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We are an independent firm of general insurance brokers who were established in 1965. In 2006 our business became part of the Cullum Capital Ventures Group, which is one of the fastest growing independent insurance intermediaries in the UK. We can arrange all types of general insurance including property, liability, motor fleet and professional indemnity. We specialise in advising companies in the aviation sector and we can arrange aviation products liability insurance at very competitive rates.

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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 focussed on providing a friendly, commercial and responsive service at a reasonable cost.

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Withers and Rogers LLP is a leading firm of UK and European patent and trade mark attorneys. A national firm with a strong Midlands presence, our specialist aerospace group includes members with specific aerospace expertise drawn from our Advanced Engineering Group and our Electronics and Physics Group. We provide a high quality, attentive service with a commercial focus.

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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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Business Birmingham - the city's inward investment programme - is your link to establishing or growing your presence in the city. Birmingham has vast resource to help energise your business and power your ambitions. Home to world class companies, cutting edge R&D facilities, innovative entrepreneurs and renowned universities, it is a city of real creativity that delivers the ideas, entrepreneurial spirit and work ethic needed for business success. Well connected and centrally located, Birmingham provides the scale and size to service the largest of business functions, coupled with its existing and emerging talent pool which provides access to a working age population of 4.3m within a 1-hour drive and over 97,000 highly skilled graduates every year.

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

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The Institute for Aerospace Technology (IAT) 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 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 MTC represents a £40.5 million publicly funded investment and has been developed in response to the Government's manufacturing strategy which sets out an ambitious new vision for high technology manufacturing. We work with world-class research partners, transferring cutting edge technologies into manufacturing processes in industry. From aircraft engines to automotive production we work with the world's leading manufacturers to bring their products to life.

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PM Group is an international engineering, architectural and project management company specialising in all aspects of project delivery: site selection, concept development, planning permitting, process integration, facility consolidation, expansion and relocation, program and cost management, project and construction management, commissioning and qualification. Audits, energy saving and efficiencies, HAZOPs, LEED, BREAM, six sigma, process visualisation, BIM 5D, are all PM Group competencies. With UK headquarters in the Midlands and a global work force of 2100 professionals, PM Group have the resources for any aspect of an aerospace project: R&D, laboratories, mission critical facilities, data centres, composites manufacture, adhesive and specialty chemical production, assembly and test, MRO facilities. We provide principal contractor services for Airbus UK at Broughton.

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The Aerospace Academy at Solihull College offers a wide range of qualifications for people looking to develop a career in the aerospace engineering sector. Our Centre of Excellence boasts state-of-the-art facilities including access to aircraft components, a wind tunnel and specialist CAD software and prides itself on being the only College in the West Midlands to offer specialist aerospace engineering training. We offer provision ranging from Level 2 (Diploma in Aerospace Engineering), Level 3 (Extended Diploma in Aeronautical Engineering) and HND (Aeronautical Engineering). The Academy has strong links with key aerospace manufacturers including Goodrich Control Systems and Rolls-Royce. Their employees have also delivered workshops to our students about careers in the aerospace sector.

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We are a global professional services organisation that provides consultancy, delivery, operations and programme management services to clients that invest in, own and operate assets.

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Unite is the largest trade union in Britain and Ireland with 1.5 million members.

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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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At the University of Leicester we help companies improve their products and processes, enabling them to compete globally. We work with the rail, aerospace, space and automotive industries to develop innovative new materials, products and techniques. We help with advances in materials and have a significant impact in technologies such as fuel cells and batteries, superconductors and hydrogen storage, lightweight structures, smart coatings and insulation. We have facilities for the testing new and old materials and the modelling expertise to predict their characteristics. The UK's only robotised 3D laser Doppler vibrometer system is also owned by the University for commercial and research applications. We have a complete range of tools for characterising coating performance in our laboratories.

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The University of Warwick has an outstanding reputation for research and teaching and is the most successful of the recently founded UK universities. WMG is an academic department established in 1980 to reinvigorate manufacturing by applying of value-adding innovation and cutting edge research. WMG is one of the world's leading research groups, an HVM Catapult partner and an international role model for how universities and business can successfully work together. To see our equipment and capability directory copy this link into your browser: - <http://www2.warwick.ac.uk/fac/sci/wmg/business/capabilities/>

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

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HONORARY MEMBER



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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.

Alphabetical Company Listing

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AE Aerospace Ltd	6	Copper & Optic Terminations Ltd	9	Gobel & Partner Ltd	42
Aeromet International Ltd	6	Coventry University	47	Gould Alloys Limited	12
Aerospace Capability Project Ltd	41	Cowens Survival Capability	46	Graves Aircraft Components Limited	12
Air & Ground Aviation Ltd	39	Craig Tools International Limited	32	Greene Tweed and Co Limited	12
Aircraft Research Association (ARA)	28	Croft Engineering	9	Hauck Heat Treatment Ltd	12
Akzo Nobel Aerospace Coatings Ltd	6	CTR-Carbide Dies Ltd	32	Hays	44
Alloy Heat Treatment Ltd	6	Cube Precision Engineering	9	Heller Machine Tools Ltd	34
Alloy Wire International	6	Cullum Detuners Ltd	32	Henton Engineering Ltd	12
Almor Group	31	CW Fletcher & Sons Limited	9	Hexagon Manufacturing Intelligence	34
Alpha Adhesives & Sealants Ltd	6	Cyient Europe Ltd	28	HGF Ltd	46
Altran UK Ltd	28	D & S Engineering (Coventry) Limited	9	Hucknall Sheet Metal Engineering Limited	12
Aluminium Special Products Limited	6	Daher Aerospace Limited	39	Hydro Systems UK	34
Amco Services (International) Ltd	39	Danatrol	10	Icon Aerospace Technology	13
Amphenol Invotec Limited	6	Datum Engineering Company Ltd	10	Ilmor Engineering Ltd	13
ANT Industries	6	Davromatic Precision Ltd	10	IM Kelly Aerospace	13
Aon Risk Solutions	45	Delcam Ltd	33	Impreglon UK Ltd	13
APT LEICESTER LTD	7	Derby City Council	47	In-Comm Training & Business Services Ltd	45
Argenta	31	Destec Engineering Ltd	10	Indestructible Paint Limited	13
Arrowsmith Engineering (Coventry) Ltd	7	DLA Piper UK LLP	46	Industrial Tooling Corporation Ltd	34
Ash & Lacy Perforators Ltd	7	Doncasters Aerospace Ltd	10	IngPro Ltd	42
Ashton & Moore Ltd	7	Doughty Precision Engineering Ltd	10	Institute for Aerospace Technology (The University of Nottingham)	47
Atlas Composites Limited	7	Dunlop Aircraft Tyres Limited	10	Institute of Materials Finishing	29
ATS Applied Tech Systems Limited	31	Dynamic Metals Ltd	10	Investment & Precision Castings Ltd	13
Axiscades UK Ltd	28	Ecoclean UK	33	Investx Ltd	46
Barnes Aerospace	40	Ed Fagan Europe	40	IPG Photonics	34
Beadlight Ltd	7	Electro Optical Systems Limited	33	IPI Solutions Limited	42
BHR Group	28	Electro-Discharge Ltd	10	ITI	34
BHW Solicitors	45	ELG Utica Alloys Ltd	38	ITP Engines UK Limited	13
Bibus Metals Ltd	40	EMS-CHEMIE (UK) LTD	41	JJ Churchill Ltd	13
Bodycote Heat Treatments Ltd	7	Encore Personnel	44	JJX Logistics	39
Bohler-Uddeholm (UK) Limited	7	Energy Tubes Ltd	11	Jonathan Lee Recruitment	45
Bowers Group	32	Engineering Technology Group	33	Kepston Limited	13
British Rema Processing Ltd	8	epm: technology group	11	Keysight Technologies Ltd	35
Bromford Industries Ltd	8	Erodex (UK) Ltd	11	KG Washford Ltd	35
Bulwell Precision Engineers Ltd	8	Esterline Corporation	11	Kigass Aero Components Ltd	14
Burcas Ltd	8	Exactaform Cutting Tools Ltd	33	Kintetsu World Express (UK) Ltd	39
Busch UK	32	Exova	30	Kiwa Ltd	42
Business Birmingham	47	Expert Advanced Manufacturing Technologies	33		

Knight Strip Metals Limited	14	Phoenix Calibration & Services Ltd	36	The Access Group UK Ltd	43
Kugel Motion Ltd	14	PK Engineering Ltd	17	The Autins Group	20
Kuka Systems UK Ltd	35	PM Group	48	Thermofax Ltd	20
Kyocera Unimerco Tooling Limited	35	Poeton Industries Ltd	17	Timet UK Limited	21
Lancaster Alloys UK	14	Pre-Met Limited	17	Trust Precision Engineering Ltd	21
Lee Products Ltd	41	Preci-Spark Ltd	17	TT Electronics	21
LGG Charlesworth	14	Precision Technologies International Ltd	17	Tufnol Composites Ltd	21
Loughborough University	47	Pryor Marking Technology	36	Turnell & Odell Limited	21
Lucideon Ltd	30	Quality Consultancy & Inspection Group	40	Turner & Townsend Plc	48
MA Ford Europe Ltd	35	QuEST Global	29	Unite the Union	48
Majenta Solutions	42	R E Bowers & Freeman Limited	36	University of Birmingham - Birmingham Research Park	48
Manthorpe Engineering Ltd	14	Resource Group Limited	45	University of Derby	48
Manufacturing Technology Centre	48	Ricardo UK Limited	18	University of Leicester	49
Mapal Ltd	35	Richard V Wallis	46	UPS Ltd	40
Master Abrasives Ltd	35	Righton Aerospace	18	UTC Aerospace Systems - Actuation & Propeller Systems	21
Maycast Nokes Precision Engineering Ltd	14	Roemheld (UK) Limited	37	UTC Aerospace Systems - Marston Aerospace	22
MDXpress Ltd	39	Rolls-Royce PLC	18	Vacuum Brazing Consultants Ltd	38
Med-Lab	38	Romax Technology Ltd	29	Valbruna UK Limited	22
Medley Precision Engineers Ltd	15	Rotastat	18	Vault IP Ltd	46
Meggitt	15	Rozone Ltd	37	Vector GB Ltd	29
Mettis Aerospace Limited	15	RTC Electronics Ltd	37	Verify Europe Ltd	44
MGS Precision	15	Rudd Macnamara	18	Victoria Drop Forgings	22
Micro Spring & Presswork Ltd	15	Schivo Group	18	VirtualPIE Ltd	29
Microjet Precision Services Ltd	15	Shaw Sheetmetal (Rugby) Ltd	18	VR Aviation Safety Partnership Ltd	44
Micrometric Limited	15	Sheen Spark Ltd	18	Wallwork Heat Treatment Limited	22
Midland Tool & Design Limited	15	SIFCO Applied Surface Concepts (UK) Ltd	19	Warwick Manufacturing Group	49
Mills CNC Limited	36	Sigma Precision Components UK Ltd	19	WDB Limited	30
Mitsubishi Materials UK	36	Sil-Mid Ltd	37	Westmoreland Mechanical Testing & Research Ltd	31
MJ Sections Limited	15	SL Engineering Ltd	19	WH Tildesley Ltd (Forging)	22
Momentum Engineering Ltd	16	Smithers Rapra and Smithers Pira Ltd	30	Wheelabrator Impact Finishers	22
Moog Aircraft Group	16	Smiths Metal Centres Ltd	19	Winbro Group Technologies Limited	23
MP Engineering UK Limited	16	Snap-On Industrial	37	Wincanton	40
Mycon Marketing Services Ltd	43	Solihull College & University Centre	48	Withers and Rogers LLP	46
Nasmyth Arden	16	Southwest Metal Finishing Ltd	19	WMH UK Ltd	41
Nasmyth Group Limited	16	Spincraft ETG Ltd	19	Wolverhampton City Council	49
National Westminster Bank plc	46	Star Micronics GB Ltd	37	Wright Hassall LLP	47
NDT Midlands Ltd	30	Stride Supplies Ltd	41	WTI Fasteners Ltd	23
NDT Services Limited	30	Summit Engineering (Birmingham) Ltd	19	Wyken Tools Ltd	23
NHE	36	Surface Finishing Engineering Limited	37	Yamazaki Mazak UK Ltd	38
NMB-Minebea UK Limited	16	Surface Technology Plc	19		
OLD Engineering Limited	16	Swiftool Precision Engineering Limited	20		
Oerlikon Balzers Coating UK Ltd	16	Swiftool Precision Engineering Limited	20		
On Logistics Ltd	39	Tamworth Heat Treatment Ltd	20		
Optima-UK Inc Ltd	45	Tata Technologies	29		
Orbital Welding Equipment Ltd	36	Taylor Engineering Ltd	20		
Orchard Environmental Systems	36	TBAT Innovation Ltd	43		
Orscheln Europe	41	Tebis UK Ltd	38		
PAB Coventry Limited	16	TEC Transnational	43		
Paragon Engineering & Logistics Ltd	17	Technetics Group UK	20		
Parker Precision Ltd	17	Technical Network	45		
Pattonair (Derby) Limited	40	Techniswage Ltd	20		
Paul Fabrications Ltd	17	Technoset Ltd	20		
Paul Kirk Forming Ltd	43	Teer Coatings Limited	38		
Pentaxia Limited	17	Tekdata Interconnections Limited	20		
		Test and Measurement Experts Limited	43		



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



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