



midlands aerospace alliance

Capabilities of
Midlands Aerospace
Companies 2011 - 2012



Midlands capability for the world's aerospace industry

The Midlands Aerospace Alliance is pleased to present you with the updated 2011-12 edition of our member capability directory. 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 biggest global aerospace clusters. Aerospace technologies designed and made in the Midlands contribute to the world's most advanced aircraft. Leading names such as Aero Engine Controls, Goodrich, Meggitt, Moog and Rolls-Royce 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 the our aerospace industry.

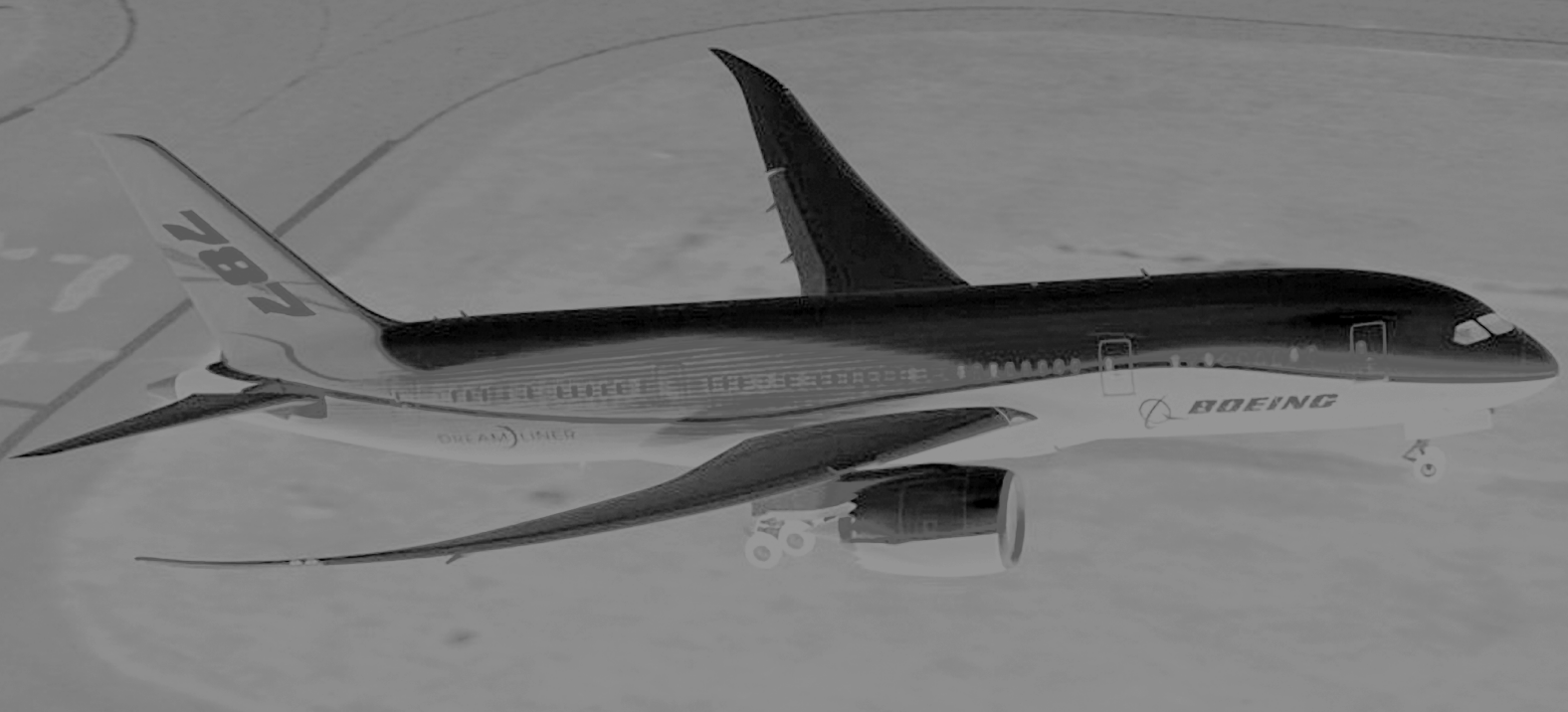
The mission of the Midlands Aerospace Alliance is to enhance cooperation between customers, suppliers and partners in the Midlands and globally, to help improve the performance of all our companies and organisations. We invite you to join us, using this directory to identify the new partners and suppliers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



Dr Andrew Mair
Chief Executive
Midlands Aerospace Alliance

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

www.midlandsaerospace.org.uk



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Companies producing flying systems and parts in the Midlands

A & M EDM Ltd

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Smethwick
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w: www.amedm.co.uk

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

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Abbey Metal Finishing Co Ltd

Unit 2 Dodwell Bridge Industrial Estate
Dodwells Road
Hinckley
Leicestershire
LE10 3BZ
t: 01455 637284
w: www.amfin.co.uk

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

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Able Aftermarket

5 Dymore Street
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West Midlands
B12 0TA
t: 0121 773 9911

High precision engineering company in the aerospace aftermarket business. Supplier to major world-wide companies and specialising in critical parts for aircraft fuel systems, actuation and aero engine components.

Denys Brown
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Accrofab Ltd

Stoney Gate Road
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DE21 7RX
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w: www.accrofab.co.uk

Accrofab offer precision fabrication and machining services for both development and production work. Lean manufacturing and e-commerce tools help cut costs and reduce lead time. Design for manufacture advice forms part of our service. Working with exotic alloys and titanium, Accrofab manufacture new build and legacy components and serve a range of aerospace and high integrity end-users. Our laser profiling capability includes 5kW and 3kW machines offering fast turnarounds and we now offer vacuum heat treatment in-house. Accrofab have the breadth of experience upon which you can depend.

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Acorn Surface Technology Ltd

Clover Street
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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 include NDT, anodising, plating, painting and IVD aluminium vacuum coating. We specialise in multi-process and selective coating and can advise on design and selection of surface treatments.

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ActOn Finishing Ltd

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CV4 9HN
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w: www.acton-finishing.co.uk

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

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Advanced Chemical Etching Limited

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Telford
Shropshire
TF1 7EX
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w: www.ace-uk.net

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

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Advanced Composites Group

Composites House
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Heanor
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DE75 7SP
t: 01773 766200
w: www.acg.co.uk

Advanced Composites Group (ACG) is an established provider of composite material technology for the aerospace industry, and a leading manufacturer of prepreg material for UAV platforms. ACG manufactures OEM qualified structural prepregs for out-of autoclave processing of civil and military aircraft structural components. It also manufactures low volume speciality prepregs for space and high performance radomes. ACG's MTM® prepregs have the largest available Public 'B' and 'A' basis databases generated via FAA accepted methodology. ACG manufactures aircraft interiors prepregs qualified by Airbus and other OEMs, meeting FAR25.853 requirements. ACG continues to develop new materials for durable lightweight composite mould tool solutions.

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Companies producing flying systems and parts in the Midlands

Aero Engine Controls

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Aero Engine Controls is a joint venture between two key players in the aerospace industry; Rolls-Royce plc and Goodrich Corporation. The consolidation of skills, knowledge and experience provides Aero Engine Controls with first-class industry insight and technical expertise. This combination accelerates the innovation, development and implementation of engine intelligence.

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Aeromet International Plc

Cosgrove Close
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Worcs
WR3 8UA
t: 01795 415000
w: www.aeromet.co.uk

Aeromet International Plc produce aluminium and magnesium sand castings, conventional and SOPHIA high property aluminium investment castings, hot, super plastic and diffusion bonded titanium products to the aerospace, military and defence industries from its 4 sites in the UK. Employing 420 people and with annual sales of £35m, Aeromet hold NADCAP, AS 9100 2000, BS EN ISO 9001 and ISO 14001 approvals, as well as approvals from many of the world's leading aerospace and defence companies. Aeromet is able to supply parts from single items through to JIT/kits of fully machined and treated components.

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AF Fasteners Ltd

Units 14-15 Glossop Brook Business Park
Glossop
Derbyshire
SK13 7AJ
t: 01457 891500
w: www.affasteners.com

An independent company manufacturing precision fasteners for the aerospace industry. Our specialised manufacturing processes include cold heading and thread rolling; these are complemented by a well equipped material testing department and metallurgical laboratory. The company is licensed by the Phillips Screw Company to manufacture fasteners using the following patented drive systems: Mortorq ACR Phillips ACR Torq-Set Torq-Set Tri-wing.

Neil Kippax
e: info@affasteners.com

Akzo Nobel Aerospace Coatings Ltd

Unit 1 Meridian West
Meridian Park
Leicester
Leicestershire
LE19 1WX
t: 0116 223 4123
w: www.akzonobel.com

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

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All Metal Services Limited

Unit 3, Gorse Lane
Trillennium Highway Point
Coleshill
West Midlands
B46 1JU
t: 01675 430307
w: www.allmetal.co.uk

Raw material distributor, specialising in aluminium plates, sheets, bars and tubes, steel bars and sheets and titanium plate, sheet and bar. Provider of value-added services including cutting to size, surface machining, drilling, tapping, reaming and kitting. Exporting on a world-wide basis, approved to most major OEMs.

Mark Roberts
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Alloy Heat Treatment Ltd

Unit 18
Grazebrook Industrial Park
Dudley
West Midlands
DY2 0XW
t: 01384 456777
w: www.aluminiumheattreatment.com

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

Steve Roberts
e: steve.roberts@alloyheat.co.uk

Alloy Wire International

Narrowboat Way
Hurst Business Park
Brierley Hill
West Midlands
DY5 1UF
t: 01384 566775
w: www.alloywire.com

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

Tom Mander
e: tommander@alloywire.com

Aluminium Special Products Limited

Unit 39 Second Avenue
The Pensnett Estate
Kingswinford
West Midlands
DY6 7UW
t: 01384 291900
w: www.aspgroup.co.uk

Aluminium Special Products Limited is a fully approved supplier of raw material specialising in aluminium and magnesium alloys. In-house manufacturing capability exists to process, from cutting to length to complete finished components and assemblies.

David Robinson
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ANT Industries

Carlyon Road
Atherstone
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t: 01827 716878
w: www.antindustries.com

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

Shaun Rowley
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Arden Precision Limited

The Highlands
Maidwell Drive
Solihull
West Midlands
B90 4QN
t: 0121 683 5200
w: www.ardenprecision.com

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

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Armoloy (UK) Ltd

Mammoth Drive
Wolverhampton Science Park
Wolverhampton
West Midlands
WV10 9TF
t: 01902 310375
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We are the UK license holder for the Armoloy nodular thin dense chrome coating process. The Armoloy coating can be processed in compliance with all existing traditional chrome plating specifications but, in service, will show superior performance in all areas. Thickness ranges up to 20 microns can be accommodated with all work being carried out to finished tolerances. Armoloy will not chip, flake or peel in service and can tolerate temperatures from -200 to +700 degrees centigrade.

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Arrowsmith Engineering (Coventry) Ltd

50 Bayton Road
Exhall
Coventry
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CV7 9EJ
t: 02476 361773
w: www.arrowsmitheng.co.uk

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

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Ashton & Moore Ltd

12 Smith Street
Birmingham
West Midlands
B19 3EX
t: 08456 188196
w: www.ashton-moore.co.uk

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

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Atlas Composites Limited

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Merlin Way
Ilkeston
Derbyshire
DE7 4RA
t: 0115 930 4058
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Established in 1997, Atlas designs and manufactures carbon/glass/aramid fibre composite components and tooling for defence and aerospace. We work from concept to construction using in house CAD/CAM technology with the ability to receive any format of data. Services include five axis machining, autoclaves, clean room facility, CNC materials preparation, final inspection, in accordance with our AS9100 and ISO 9001 accreditation. We are currently working towards SC21 recognition through the Midlands Aerospace Alliance East Midlands cluster.

Shaun Moloney
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Avingtrans Aerospace Division

Precision House
Derby Road
Nottingham
Nottinghamshire
NG10 5HU
t: 0115 949 9020
w: www.avingtrans.plc.uk

Avingtrans Aerospace is a division within Avingtrans plc, specialising in the supply of rigid piping, precision components, fittings and services to the aerospace industry. Avingtrans Aerospace has 3 operating companies, C&H Precision Finishers and Sigma Precision Components that operate facilities in the UK and China. The division is showing significant growth, both internally and through acquisition and thrives on developing mutually successful relationships with our customers, suppliers and partner companies.

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AWS Electronics Group Ltd

Croft Road
Newcastle under Lyme
Staffordshire
ST5 0TW
t: 01782 753200
w: www.awselectronicsgroup.com

AWS Electronics Group is a leading specialist electronics manufacturing solutions (EMS) provider along the whole electronic product life cycle from design through manufacture, to contract service and repair. The group has three UK centres of excellence: AWS Cemgraft (Newbury - surface mount technology and rapid prototyping); AWS Electronics (Newcastle-under Lyme - full turnkey supply of complex assembled units and cabinets, cable/harness assembly); AWS Jantec (Bedford - whole life support and repairs). AWS Slovakia (Namestovo) is our low cost electronics manufacturing production facility. We supply aerospace, defence, security, telecoms, IT, scientific, medical and other markets with assembly of PCBs, sub-assemblies, finished products, cable and wiring harnesses. Advanced capabilities include 01005, micro BGAs, CSPs, RF, high voltage (AC/DC), environmental testing.

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Bodycote Heat Treatments Ltd

Thermal House
Colliery Lane North
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CV7 9NW
t: 02476 367786
w: www.bodycote.com

Bodycote is the world's leading thermal processing services provider. Offering extensive processing capability in the UK, and an international network of services with 170 locations in 27 countries, Bodycote is a vital provider offering local support to the international aerospace industry. Services include: heat treatment; metal joining including vacuum brazing and electron beam welding; hot isostatic pressing and metallurgical coatings. The world's most respected aerospace companies recognise the benefits of 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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Companies producing flying systems and parts in the Midlands

Bohler-Uddeholm (UK) Limited

European Business Park
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Oldbury
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w: www.bohlersteels.co.uk

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

Judith Ridgway
e: judith.ridgway@bohlersteels.co.uk

British Rema Processing Ltd

The Image Works
Foxwood Close
Chesterfield
Derbyshire
S41 9RN
t: 01246 269955
w: www.britishrema.co.uk

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

Struan McBride
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Bromford Industries Ltd

Pegasus House
Bromford Gate
Birmingham
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t: 0121 683 6200
w: www.bromfordindustries.co.uk

Bromford Industries is a privately owned enterprise trading on a global basis and serving three main markets of aero engines, landing gear and industrial gas turbines as well as nuclear and specialist engineering sectors. The group is headed by an experienced team demonstrating the right philosophy for success. The company prides itself on offering engineering solutions in hard-to-work materials and demanding tolerances delivered at pace and at a competitive advantage to its customers whether it be machined or fabricated parts or the supply of assemblies for both production and aftermarket applications

Nigel Heeley
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Bulwell Precision Engineers Ltd

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

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t: 0121 5532777
w: www.burcasonline.com

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

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C & H Precision Finishers Limited

Precision House
Derby Road Trading Estate
Sandiacre
Nottinghamshire
NG10 5HU
t: 0115 939 4707
w: www.chprecision.co.uk

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

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Castlet Ltd

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t: 01522 876700
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Castlet is a UK based SME electronic engineering company with a respected and stable market position within the power generation industry, particularly in the UK and Far East. The aerospace division has a range of high quality ultra reliable electro-mechanical and electronic components and systems for a range of sophisticated aerospace platforms within the military and civil sectors. Products include on-board and ground support test equipment for the tri-services. Castlet is seeking further opportunities to expand the existing portfolio via an acquisition or with new partnerships and customers.

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CHH CoNeX Limited

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Birmingham
West Midlands
B6 7AX
t: 0121 3444229
w: www.chhconex.com

CHH CoNeX delivers excellence in: cable assembly concept, design and manufacture, bespoke interconnect solutions through connector and backshell design, box build, rack integration, cable management, process audit and redesign, value added engineering, mechanical and electronic integration and testing, supply chain solutions.

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Chinn Ltd

Coventry Road
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Coventry
West Midlands
CV7 9FT
t: 02476 369400
w: www.chinnltd.com

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

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Cinch Connectors Ltd

Shireoaks Road
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S80 3HA
t: 01909 504380
w: www.cinch.com

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

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Clamonta Limited

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

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Colledge & Morley Ltd

Unit 3 Hibberd House Carriers Close
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West Midlands
CV4 8AW
t: 02476 462328
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Colledge & Morley was established in 1953 and became part of the Nasmyth Group in 2008. We are a supplier and manufacturer of high precision gear and spline related products for the aerospace and defence sectors and for specialist commercial products and the auto sport industries. We also offer a free issue single operation service for gear hobbing, gear shaping internal and external splines, broaching and gear grinding.

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Columbia Precision Ltd

140 Cheston Road
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B7 5EH
t: 0121 327 1500
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Ultimate provider of multi-axis high-precision manufacturing solutions, we are a manufacturer of high-precision components using multi-axis manufacturing cells. This activity is supported by the supply of machined, tested and assembled kits to our customers' build lines.

Ted Yarnall
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Copper & Optic Terminations Ltd

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ST1 2LD
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w: www.copperandoptic.com

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

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Cosworth Limited

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

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Coventry Premier Aerospace

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Member of The Premier Group, Coventry provides specialist engineering and manufacturing solutions for the world's transport systems. We offer a comprehensive manufacturing site for the machining of tools and production of components as well as the manufacture of panels and sheet metal assemblies. Our aim is to bring automotive technology and manufacturing into the aerospace market to improve cost and lead times.

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Companies producing flying systems and parts in the Midlands

Crane Electronics Ltd

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For more than 36 years, Crane Electronics have been delivering solutions for torque management and control problems around the world, satisfying the needs of manufacturing industry for improved quality, safety, complete traceability and increased productivity. We specialise in custom hardware and software solutions to always meet or exceed the customer requirements.

Peter Everitt
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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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Cubewano Limited

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

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CVI Melles Griot

35 Ashville Way
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The CVI Melles Griot group supplies a vast range of photonics equipment. The Leicester facility is an established supplier of precision infrared optics to the defence, safety and security markets. Our specialised capabilities include optical thin film coating design and manufacture and refined fabrication techniques on a wide range of exotic material types. Additional competencies include; opto-mechanical assembly, and complex infrared detector filter production.

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D & S Engineering (Coventry) Limited

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Precision engineering company, established in 1973, supplying the aircraft and defence industries. We are ISO9001 approved, SC21 registered and are working towards AS9100. We utilise the latest CNC machinery, including five axis, and our inspection department includes three CNC CMM machines. We are a grade 'A' supplier to a major defence contractor.

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Delcam Plc

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

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Diamond Hard Surfaces Ltd

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Diamond Hard Surfaces is a technology based company and solution provider to high endurance applications of a unique amorphous diamond material Adm™ which gives extended life in high temperature, chemically aggressive and abrasive environments. Using our unique, patented process we are able to coat substrates from steel to thermoplastics to give components enhanced friction, wear resistance and load carrying characteristics over and above traditional materials and other coated surfaces. Our products provide an environmentally friendly and performance enhancing solution when compared to alternative surface treatments. We provide performance enhanced surfaces for actuators, pumps, bearings, wearings and many other components.

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Docking & Company Ltd

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In 1984 Docking Engineering was formed to develop and market a range of aluminium cooling products for motorsport and special vehicle use. We provide a full range of services, from the supply of a basic radiator core block to full cooling system design and manufacture. By using our own products or those of our technical partners we are able to offer some of the most efficient cooling products available. We have the ability to manufacture a wide range of components, from simple cost-effective coolers to complex parts. We are happy to work to customer drawings or advise on system and product design.

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Doncasters Limited

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Doncasters Group Ltd is a leading international engineering group that manufactures precision components and assemblies for the aerospace, industrial gas turbines, specialist automotive, petrochemical, construction, industrial, transportation and recreation markets. The group excels in working with alloys and metals that are difficult to shape and form. Doncasters possesses many unique industry leading technological and manufacturing skills that are very highly regarded by our customer base. We are in virtually every respect global leaders in aerospace, industrial gas turbines, automotive turbochargers, fasteners and superalloys.

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Doughty Precision Engineering Ltd

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w: www.doughtype.com

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

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Dunlop Aircraft Tyres Limited

40 Fort Parkway
Erdington
Birmingham
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B24 9HL
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w: www.dunlopaircrafttyres.com

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

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Electro-Discharge Ltd

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West Midlands
DY2 9DY
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w: www.electro-discharge.co.uk

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

Rupin Vadera
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Energy Tubes Ltd

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

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Fibracon-Insoll Machined Plastics

Bowden Hey Road
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High Peak
Derbyshire
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w: www.fibracon.com

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

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G & O Springs Ltd

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

Gardner Aerospace - Ilkeston Limited

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Gardner Aerospace Ilkeston Limited machines, fabricates, treats, assembles and repairs small-to-medium precision parts, kits, sub-assemblies and assemblies in soft, hard and exotic metals, and has all of the required engineering tools, processes and quality approvals to support these capabilities.

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GJD Aerotech Limited

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Bruntingthorpe
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United Kingdom
LE17 5QS
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Line maintenance, AOG support, ad hoc maintenance, AD & SB compliance, short/long term parking, storage maintenance, aircraft partout and disposal.

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Companies producing flying systems and parts in the Midlands

Glenair UK Ltd

40 Lower Oakham Way
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Glenair is a supplier of interconnect solutions and products - particularly for harsh environment applications. We manufacture a wide range of military and aerospace qualified circular and Micro-D connectors, backshells, conduit, braiding, harness accessories, heatshrink boots and tooling. Other products include fibre optic components and assemblies, composite components and enclosures. We specialise in design and manufacture of customised wire and flexi-harness assemblies for military and aerospace applications. We have a large design team in Mansfield able to support and solve any of your interconnection requirements.

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Goodrich Actuation Systems Limited

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Goodrich is the market leader in the supply of flight controls with over 400 million flight hours experience with fly-by-wire actuation; providing primary and secondary flight control actuation systems for more than 75% of all wide and narrow-body jet airliner programs including all current Airbus models. Goodrich is also a leading supplier of actuation systems for precision weapons with capabilities in fin, wing and thrust vectoring control systems, ensuring a wide range of applications on all missile types.

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Gould Alloys Limited

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t: 01246 263300
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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

Lighting Way
Alvechurch Road
Birmingham
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B31 3PJ
t: 0121 475 5181
w: www.gravesac.co.uk

Manufacturer of low-volume critical flying parts for the aerospace industry. Specialists in the supply of stranger and alien parts for the after-sales market. Parts manufactured include nozzles, jets, match ground spools and sleeves and other fuel-line components, small prismatics and actuation unit parts.

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Hadley Sections Limited

PO Box 92
Downing Street
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t: 0121 555 1300
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Premier manufacturers of cold roll formed sections into a variety of industry sectors.

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Henton Engineering Ltd

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t: 01455 238331
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Machined component supplier to aeroengine/aerospace industries.

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Hi-Tech Aerospace Components Ltd

18 Bayton Road
Bayton Road Industrial Estate
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West Midlands
CV7 9EJ
t: 02476 644404
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EDM specialist and component manufacturers to the aerospace and racing industries. Specialists in wire EDM, sink EDM and fast hole drill EDM. Approved by Rolls-Royce, Rolls-Royce Germany, Goodrich, MTU. NADCAP and BSI approved.

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Holscot Fluoroplastics Ltd

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w: www.holscot.com

Holscot has over 40 years experience in extrusion of melt processable fluoroplastic tubing and sheet in FEP, PFA, ETFE in sizes from 3mm to 450mm diameter and wall thicknesses up to 3mm. Properties include non stick, unsurpassed UV transmission, chemical resistance, non flammability, electrical resistance and non contamination. Holscot can fabricate semi finished and finished components from these materials using unique welding, vacuum forming, etching and bonding techniques. Products include release film; layflat tubing; flexible ductwork and heat shrinkable sleeving. Liquid containment tanks and bags, non porous membranes and protective sleeving.

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HS Marston Aerospace Ltd

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

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Hucknall Sheet Metal Engineering Ltd

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Specialists in aerospace laser fabrication, machining and assembly including 5 axis lasering and water jet cutting. 30 years tier one experience supplying laser/fabricated parts to Rolls-Royce and tier-one suppliers such as Chinns, Gardner Aerospace, SPS Aerostructures, Doncasters and Cobham Composites. NADCAP laser/welding approved, Rolls-Royce Deutschland approved. Development work undertaken on JSF and MOD projects. Major involvement with development work for R-R Fuel Cells (renewable energy) and major subcontractor to Rolls Royce Heritage Trust. All work approved to Rolls-Royce Sabre 9000.

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Icon Polymer Group

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

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IM Kelly Aerospace

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

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Indestructible Paint Limited

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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.

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Intelligent Energy Ltd

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Intelligent Energy is a clean power systems company, focused on the provision of cleaner, low carbon power through its leading fuel cell technology. Intelligent Energy partners with leading companies globally, in the transportation, aerospace, defence, distributed generation and portable power markets. Current partners and customers include Scottish & Southern Energy plc, Suzuki and Airbus. Intelligent Energy's successes include the development of the world's first fuel cell motorbike and supplying the fuel cell system to Boeing which powered the world's first manned fuel cell aircraft. In 2010 the company also unveiled a full performance, zero-emissions, fuel cell hybrid Black Cab at London's City Hall.

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Invotec Circuits (Tamworth) Limited

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Invotec specialises in the manufacture of high reliability, complex multilayer, HDI and flex rigid PCBs for the European aerospace and defence sectors. We have the capability to manage a vast array of leading-edge materials and technologies, which have been developed in partnership with our customers, to deliver optimum performance under extreme conditions. Through design support, prototyping and serial production fulfilment, we deliver world-class products from our UK facilities. Unrivalled technical capabilities, coupled with innovation and close customer relationships, ensure a comprehensive and competitive service-backed offering. Invotec is Nadcap (Electronics), US MIL Spec and AS9100 approved.

ITP Engines UK Limited

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

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James Kent Group

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ST4 2HB
t: 01782 744335
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Specialist glass and glass/ceramic materials manufacturer, supplying glass bonds and seals to the aerospace industry.

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Companies producing flying systems and parts in the Midlands

JJ Churchill Ltd

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We are a UK based, family-owned private precision engineering company founded in 1937 to provide sub-contract machining to the aerospace industry. The company subsequently diversified into power generation and defence markets. Our comprehensive engineering facility is dedicated to manufacture and supply of finished components and assemblies to a variety of 'blue chip' OEMs 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 in titanium and nimonic materials.

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Kepston Limited

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Sub-contract CNC internal/ external jig grinding and con - tig general surface grinding processes

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Kigass Aero Components Ltd

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

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Kingfield Electronics is a full turnkey contract electronics manufacturing company focusing on both PCB assembly and electro-mechanical assembly. Kingfield provides low-to-medium volume, complex, high-reliability, manufacturing services to the aerospace and defence sectors. Operating out of a modern facility in Chesterfield, Kingfield manufactures a range of defence and aerospace products including instrumentation, communication, test, power generation and control products.

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Knight Strip Metals Limited

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w: www.knight-group.co.uk

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

Dennis Cooke
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Manthorpe Engineering Ltd

Manthorpe House
Brittain Drive
Ripley
Derbyshire
DE5 3ND
t: 01773 514200
w: www.manthorpe.co.uk

Manthorpe Engineering Ltd is a supplier to the power generation, aerospace, defence and processing industries through its impressive precision machining and fabrication facilities. With CNC machining capacity including 5 axis milling/turning up to 3.0 metre diameter and fabrications up to 30 tonnes we can offer a wealth of experience working in aluminium, carbon steels, stainless steels and the exotic alloys including nimonic, inconel, waspaloxy 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.

Chris Bowley
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Materials Solutions

Unit 8, Great Western Business Park
McKenzie Way
Worcester
West Midlands
WR4 9PT
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Materials Solutions is the only Rolls-Royce approved, AS9100 registered provider of additive layer manufacturing [aka DMLS or DLD] services and parts; particularly complex metal parts suitable for combustor assemblies, rigs, small casings and similar. We build in nickel alloys such as C263, Inco 625 and 718, Hastelloy X, stainless steels and CoCr. We have 4 EOS M270 systems, heat treatments, a full machine shop and inspection facilities including CMM and electron and optical microscopes. We supply parts and assemblies direct from 3D CAD data without moulds or tooling and in greater complexity than possible by machining, wire/EDM or casting.

Carl Brancher
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Meggitt

Holbrook Lane
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CV6 4QY
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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.

Ian McMurray
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Mettis Aerospace Limited

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Mettis Aerospace is a leading provider of safety critical components to the aerospace and defence industries, based upon world leading forging, machining and metallurgical skills. Mettis Aerospace offers customers a comprehensive range of design, logistics, forging, machining, processing and kitting services from a single site. We provide products to a wide range of specifications and work closely with our customers from the design concept through to the supply of the finished part. Our customer focus, coupled with research and investment into new materials and processes, enables us to continue to respond to the demands of the modern aeronautical market.

Rebecca Price
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Micrometric Limited

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LN6 3RX
t: 01522 509999
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Micrometric Ltd provide a sub-contract laser manufacturing service including laser machining, profiling, drilling, welding, engraving and etching applications. The company has 12 laser systems including Fibre, Nd:YAG and CO₂, on up to five axis CNC control. This activity is supported by a conventional CNC machining, scanning, small press and wire EDM capability.

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Midland Aerospace Limited

Unit 5 Callendine Park
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t: 01623 446556
w: www.midlandaerospace.com

Midland Aerospace are a vibrant aerospace subcontractor supplying high integrity 3/5 axis machined components into prime contractors within the UK. Midland also have the process capability to manufacture precision fabricated and welded assemblies.

Eamon Lyons
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MJ Sections Limited

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

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Moog Aircraft Group

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

Stuart Mclachlan
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MP Engineering UK Limited

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

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NP Aerospace

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Specialists in the design and manufacture of engineering thermosets and composite structures. NP manufactures an extensive range of products for a wide variety of customers, in the aerospace, electrical, automotive, defence and medical industries. The products produced range from seat structures for the automotive market to ultra-lightweight components for aircraft applications.

Companies producing flying systems and parts in the Midlands

O.L.D Engineering Limited

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

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Paragon Engineering & Logistics Ltd

41 Fordhouse Road Industrial Estate
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WV10 9XF
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Make-to-print low-volume high-variety for new product introduction, production and spares with precision and general machining capabilities using CNC and conventional machines including all types of turning, milling, deep hole drilling, grinding, honing, minor assembly work, gear manufacture along with material procurement, management and control of sub-contract processing including NDT, EDM, heat treatment and coatings. Ensuring that the resultant service achieves a standard that complies with customer requirements, the company complies with all national/international standards and all subsequent revisions, including the Health and Safety at Work Act 1974 and the aerospace standard AS9100 and BS EN ISO9001.

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Paul Fabrications Ltd

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Castle Donington
Derbyshire
DE74 2US
t: 01332 818000
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Paul Fabrications manufacture complex fabricated and machined assemblies for the aerospace, defence and nuclear power sectors. Operating from a modern 60,000 sq ft facility it prides itself on exceeding customers expectations, consistently achieving class-leading quality and delivery performance. Manufacturing utilises computer aided processing, with 5-axis laser cutting and 5-axis CNC machining as core business competencies. With over 40 manufacturing processes in-house you gain an appreciation of the breadth of engineering capability available. Approved to AS9100 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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Pegrex Ltd

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Pegrex is an established and proven supplier of components, sub-assemblies and engineering solutions to the defence and aerospace industries. With an exceptional reputation for quality, reliability and service, we combine a modern and innovative approach with a strong tradition of engineering excellence to meet your requirements. We offer: one off prototypes through to volume production runs; rapid turnarounds; component & process re-engineering; unique range of in-house services and a wide network of subcontract partners; specialist high quality finishing; just-in-time delivery; full batch traceability.

Neil Truman
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Phoenix CNC Engineering Ltd

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

Plastic Coatings Limited

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

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Pre-Met Limited

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Manufacture and assembly of precision stamped and pressed components. Wire forms and spring manufacture. Machining of part finished components.

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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 competence includes the manufacturing and supply of honeycomb seal assemblies, cooling inserts, stator vanes/assemblies together with a very extensive sub-con capability. The company holds the UTC Supplier Gold standard and meets all class leading performance monitors.

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Precision Micro Limited

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Precision Micro has a strong background in custom designs for defence and aerospace applications. The company is experienced in the application of Exostar and supplying all aircraft platforms -- large civil, business corporate, helicopters, military combat and transport -- and is ideally placed to meet their rapidly changing requirements in terms of quality, speed, precision and innovation. Precision Micro offers a unique range of manufacturing technologies including photo etching, wire EDM, electroforming, forming, finishing and micro machining, used individually or in combination, to the ultimate benefit of customers.

Ian Whateley
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Pro-Tek Engineering Ltd

Unit 1 & 3 Waterloo Industrial Estate
Bidford-on-Avon
Alcester
Warwickshire
B50 4JH
t: 01789 490490
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Supplying precision components to numerous industries including defence, aerospace, satellite systems, turbine components, pipeline fittings to complex and critical rapid prototype components for research facilities. A well established manufacturing site with machining capacity that extends from single components to high volume quantities in most materials including aluminium, stainless steel, titanium, composites, castings and other exotic materials. A skilled workforce combined with modern CNC turning and 4/5 axis machining centres complete with measurement probes, supported with the latest conventional 5 axis CMM and CNC non contact vision measurement systems.

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Ricardo UK Limited

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

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RMDG Aerospace

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Manufacturer of high-quality pipe assemblies for aerospace applications. CNC tube bending, welding, brazing, NDT processes, radiography, project and programme management. Supply chain integrators.

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Rolls-Royce PLC

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

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RTI International Metals Ltd

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RTI International Metals is one of the world's largest producers of titanium. Through its various subsidiaries, RTI manufactures and distributes titanium and speciality metal mill products, extruded shapes, formed parts, and engineered systems for aerospace, industrial, defence, energy, chemical, and consumer applications for customers around the world.

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S & J Precision Ltd

Unit 2 Dawsons Lane Enterprise Centre
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Barwell
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LE9 8BE
t: 01455 844004
w: www.sandjprecision.co.uk

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

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Companies producing flying systems and parts in the Midlands

Samuel, Son & Co UK Ltd

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w: www.samuel.com

Samuel offers value added quality processing services and is committed to providing customers with leading edge technologies. Processing includes: cut-to-length and multi-blanking, coil-to-sheet tension levelling, slitting, edging, shearing, first stage configured blanking, pickling, cold rolling, annealing, plasma and oxy-fuel plate burning, water-jet and laser cutting, bar and extrusion sawing and aluminium plate sawing... all to exacting tolerances.

Dave Tranter
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Semelab Limited

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

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Shaw Sheetmetal (Rugby) Ltd

50 Somers Road
Rugby
Warwickshire
CV22 7DH
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.

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SL Engineering Ltd

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w: www.sl-engineering.co.uk

SL Engineering Ltd provides a full in-house solution for the manufacture of rigid tube assemblies and precision machined components for the aerospace and industrial gas turbine markets. Capabilities include CNC tube manipulation, CNC multi-axis 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 40 years experience and state of the art plant and equipment, we have an internationally recognised reputation for producing very competitively priced high quality products used on many of today's leading aerospace programmes.

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Smiths Metal Centres Ltd

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

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SOS Metals UK Limited

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

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Superite Tools Ltd

3 Vigo Place
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Design and manufacture of plastic mould and pressure diecast tools, jigs and fixtures, precision machining of one-off to small-batch components and castings.

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Swiftool Precision Engineering Limited

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A total quality precision engineered solution company: we offer a full manufacturing service including NDT, mechanical testing, specialist material sourcing, CNC and manual machining up to 600mm dia on our lathes and 3 meters in length on the largest of our CNC milling machines, welding/cladding including inconel and stellite deposition, coating and plating including molycote - silver - chrome -nickel, pressure testing to 35,000PSI, flushing to NAS 1368 class 6, assembly area, and project management of sub tier suppliers

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Tamworth Heat Treatment Ltd

7 Darwell Park
Mica Close
Tamworth
Staffordshire
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: alanwhitehouse@tamworth-heat.co.uk

Taylor Kightley Engineering Co Ltd

1 Pondwood Close
Moulton Park
Northampton
Northamptonshire
NN3 6RT
t: 01604 645871
w: www.tke.co.uk

Precision machining, fabrication and design: 5 axis milling to 700 mm diameter; CNC turning to 1050 mm diameter and 3 axis milling to 2750 mm x 1500 mm. Turning to 4 m b.c.

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Technoset Ltd

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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 mainly for aerospace and defence, telecoms, motor sports and medical industries.

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Tekdata Interconnections Limited

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Tekdata Interconnection Systems is a leading AS9100 accredited interconnects outsourcing specialist for world-leading aerospace, avionics, defence and space companies. Capabilities are almost unrivalled in breadth, including electric/electronic cable and harness design, rapid prototyping and manufacture (copper, fibre optic and cryogenic), complex cabinet/box assembly, test, commissioning, repair and maintenance. As well as standard cabling types, Tekdata designs innovative solutions to function, size, weight, routing, ruggedness and/or cost. With our Cryoconnect products, Tekdata is one of very few companies meeting NASA's demanding standards for interconnection systems. Tekdata operates from a UK-based 40,000 sq ft factory.

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Thermofax Ltd

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t: 01384 230214
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Heat treatment services: thermal processing of ferrous and non ferrous materials; stress relieving; annealing; normalising; tempering; age hardening; solution treatment. From 1 kilo to 30 ton furnace charges, lengths up to 8m. 10 Ton maximum single lift. Fabrications, tooling, machined components, springs, fasteners, raw materials, castings, forgings, pressure vessels, patterns.

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Thyssenkrupp Aerospace UK Ltd

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

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Timet UK Limited

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

Companies producing flying systems and parts in the Midlands

Timken Aerospace UK Ltd

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

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Titanium Industries UK Ltd

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

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TTE Systems Limited

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At TTE Systems, we help our customers to create reliable embedded systems. We develop and sell high-reliability processor cores, both 'off the shelf' & custom software development tools and advanced safety protection mechanisms ('shutdown systems'). We also offer a range of training, consultancy and custom design services. Application sectors for our products and services range from aerospace, medical, industrial, automotive, defence and satellite systems to high-end consumer goods. Many of our products can be provided in forms which are suitable for use in DO-178b, DO-254, ED-80, IEC 61508 (SIL3), ISO 26262 (ASIL D) and similar high-reliability and safety-critical projects.

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TTI Group Ltd - Nitriding Services

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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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Tufnol Composites Ltd

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

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Turnell & Odell Limited

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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.

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Ultra Electronics PMES

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

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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.

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Wallwork Heat Treatment Limited

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t: 0121 6282552
w: www.wallworkht.com

Provider of aerospace approved heat treatments such as vacuum heat treatment, vacuum brazing, harden and temper, case harden, solution, age, normalise, nitride, stress relieve and microhardness testing to NADCAP standard and many major OEMs.

Howard Maher
e: howard.maher@wallworkht.com

Wide Range Elastomers Limited

Acan Way
Coventry Road
Narborough
Leicestershire
LE19 2FT
t: 0116 272 7411
w: www.widerangeelastomers.com

Wide Range Elastomers provides innovative polymer sealing solutions for aerospace and defence applications. An extensive range of capabilities, including moulding, hand-fabrication, extrusions and calendaring are available. Most processes are offered in the available 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. Wide Range Elastomers are now part of the Garlock High Performance Seals Group.

Steve Hill
e: steve.hill@garlock.com

Winbro Group Technologies

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

Winbro Group Technologies is a global leader in providing manufacturing solutions to the aerospace and industrial gas turbine industries, based upon laser, high speed EDM (electro discharge machining) and ECM (electro chemical machining) processes for cooling holes. Winbro Group Technologies provides turnkey machining systems and component machining services backed by extensive research and development in products and processes. Winbro has a large installed base of over 1,000 laser, EDM & ECM machines around the world and now an additional division using our own drilling machines and developed processes to offer a component machining service with ISO9001, AS9100 and Nadcap (non-conventional processes) accreditation.

Richard Baxter
e: sales@winbrogroup.com

WTI Fasteners Ltd

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

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

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

Companies producing flying systems and parts in

Company Capabilities	A & M EDM Ltd	Abbey Metal Finishing Co Ltd	Able Aftermarket	Accrolab Ltd	Acom Surface Technology Ltd	ActOn Finishing Ltd	Advanced Chemical Etching Limited	Advanced Composites Group	Aero Engine Controls	Aeromet International Plc	AF Fasteners Ltd	Alko Nobel Aerospace Coatings Ltd	All Metal Services Limited	Alloy Heat Treatment Ltd	Alloy Wire International	Aluminium Special Products Limited	ANT Industries	Arden Precision Limited	Armoley (UK) Ltd	Arrowsmith Engineering (Coventry) Ltd	Ashton & Moore Ltd	Atlas Composites Limited	Avingtrans Aerospace Division	AWS Electronics Group Ltd	Bodycate Heat Treatments Ltd	Bohler-Uddeholm (UK) Limited	British Rema Processing Ltd	Bromford Industries Ltd
Adhesives & Coatings	•	•		•	•				•		•							•	•							•	•	
Armaments and Related Equipment										•									•			•					•	
Autoflight Systems & Equipment			•																•			•					•	
Communications Systems & Equipment																			•			•					•	
Control Systems & Equipment			•																•									
Electrical Cable Accessories/Electrical Harnesses									•																•			
Electrical Panels & Electrical Components									•										•			•						
Electrical Power Systems & Equipment			•																•									
Engines	•	•	•	•					•	•								•	•		•							•
Equipment-Furnishings																						•						
Flight Training																						•						
Fuel & Fuel Systems									•											•		•						
Fuselage		•	•							•		•						•	•			•						•
Ground Systems and Equipment																						•						
Hydraulic Systems & Equipment			•																			•						•
Indicating, Data & Recording Systems																						•				•		
Landing Gear																												•
Material Manufacturer					•		•	•		•							•	•		•		•					•	•
Material Supplier								•					•			•						•					•	•
MRO		•	•																	•		•					•	•
Navigation Systems & Equipment																												
Processes & Shapes	•	•	•	•	•	•	•			•				•						•	•	•					•	•
Propellers & Rotors						•												•				•						
Safety and Rescue Systems & Equipment																						•						
Services		•																				•						
Space Systems and Equipment																						•						
Standard Parts	•										•								•			•						•
Tooling & Testing/Test Equipment		•		•	•														•		•	•						•
Windows																												
Wings																							•					
Industry Approvals																												
AS/EN/ISO 9100	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
AS/EN/ISO 9110								•																				
AS/EN/ISO 9120												•																
ISO 14001		•		•		•	•	•	•	•				•							•	•			•	•	•	•
ISO 9001	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Part 145									•																			
Part 21									•																			
NADCAP	•	•		•	•			•	•	•											•	•				•	•	•
Customer Approvals																												
AgustaWestland			•		•			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Airbus		•			•			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
BAE Systems		•	•		•			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Boeing		•			•			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
GE																												
GKN			•		•			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Goodrich		•	•		•			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lockheed		•							•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Messier-Dowty		•			•				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Moog																												
MTU			•																			•						•
Northrop Grumman																												
Pratt & Whitney																						•					•	
Rolls-Royce	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Snecma		•																										•
Other																												•

Companies producing flying systems and parts in

Company Capabilities	Holsco	HS Marston	Hucknall	Icon	IM Kelly	Indestructible	Intelligent	Invotec	ITP	James Kent	JJ Churchill	Kepston	Kigaas	Kingfield	Knight Strip	Manthorpe	Materials Solutions	Meggitt	Metis	Micrometric	Midland	MJ Sections	Moog Aircraft	MP Engineering	NP Aerospace	O.L.D.	Paragon	Paul Fabrications	Pegrex	
Adhesives & Coatings			•			•																								
Armaments and Related Equipment								•						•						•								•		
Autoflight Systems & Equipment												•											•							
Communications Systems & Equipment			•											•													•			
Control Systems & Equipment									•				•	•						•				•						
Electrical Cable Accessories/Electrical Harnesses			•						•				•	•				•											•	
Electrical Panels & Electrical Components													•	•															•	
Electrical Power Systems & Equipment							•					•		•						•				•						
Engines	•	•	•			•	•		•		•	•	•	•		•	•	•	•	•			•						•	
Equipment-Furnishings			•		•															•										
Flight Training																														
Fuel & Fuel Systems																														
Fuselage			•																		•		•					•		
Ground Systems and Equipment			•																											
Hydraulic Systems & Equipment	•		•						•			•								•				•						
Indicating, Data & Recording Systems			•											•																
Landing Gear												•								•										
Material Manufacturer	•												•	•								•	•					•	•	
Material Supplier	•					•																•								
MRO	•	•	•						•					•						•								•	•	•
Navigation Systems & Equipment			•																											
Processes & Shapes			•			•			•		•	•	•			•	•			•		•	•		•		•	•	•	
Propellers & Rotors									•		•									•										
Safety and Rescue Systems & Equipment			•			•																								
Services									•									•			•							•		
Space Systems and Equipment																														
Standard Parts		•	•									•	•			•				•			•				•	•		
Tooling & Testing/Test Equipment									•		•	•		•		•	•			•			•				•	•		
Windows			•																	•										
Wings																														
Industry Approvals																														
AS/EN/ISO 9100		•				•		•	•		•		•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	
AS/EN/ISO 9110		•																	•		•									
AS/EN/ISO 9120														•																
ISO 14001		•				•		•	•		•								•					•		•				
ISO 9001	•	•	•			•		•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Part 145		•																	•			•								
Part 21		•																	•			•								
NADCAP		•	•					•	•		•		•							•		•	•	•				•		
Customer Approvals																														
AgustaWestland		•				•								•						•			•	•						
Airbus		•				•						•		•						•		•	•	•	•					
BAE Systems	•	•				•		•			•	•		•		•			•		•	•	•	•	•			•		
Boeing						•														•			•	•						
GE						•		•	•											•										
GKN	•	•																				•	•					•		
Goodrich						•		•	•			•	•										•					•	•	
Lockheed						•														•										
Messier-Dowty		•				•														•				•						
Moog						•		•																				•		
MTU		•				•			•				•						•											
Northrop Grumman																														
Pratt & Whitney	•	•				•			•																					
Rolls-Royce	•	•	•			•		•			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Snecma		•				•																								
Other																														

Midlands companies offering specialist support services and equipment

ENGINEERING AND DEVELOPMENT SERVICES

Assystem UK Limited

2 Swallowfield Courtyard
Wolverhampton Road
Oldbury
West Midlands
B69 2JG
t: 0121 569 7400
w: www.assystemrecruit.co.uk

Assystem are a class leading aerospace engineering consultancy and sector leading technical recruitment specialist which evolved into a worldwide group, specialising in design, stress and project engineering. Assystem has 12 offices in the UK, 4 of which are in the Midlands (Wolverhampton, Ansty, and three in Derby) and is a prime supplier to all of the UK's aerospace OEMs for both engineering capability and technical recruitment.

Philip Delaloye
e: pdalaloye@assystemuk.com

CNR Services International Ltd

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

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

Chris Reckless
e: creckless@cnrdesign.co.uk

LMS UK Ltd

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CV5 9AB
t: 02476 408120
w: www.lmsintl.com/UK

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

Leigh Gillard
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MIRA Limited

Watling Street
Nuneaton
Warwickshire
CV10 0TU
t: 02476 35 5000
w: www.mira.co.uk

MIRA is an engineering centre of excellence, recognised as the UK's leading independent design, development and test organisation for the automotive, defence and aerospace industries. MIRA's capabilities in product engineering and test are particularly well regarded as the most professional and well-equipped in the world. Our combination of CAD and integrated simulation techniques, coupled with 30 major test facilities allow MIRA to deliver either collaborative or turnkey solutions on time and on budget. MIRA operates around the world and across the whole range of engineering technologies. Our customer base and membership are truly global and includes many major OEMs and independent consultancies.

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Morson Projects Limited

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

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

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

Paramex Limited

Business Innovation Centre
Harry Weston Road
Coventry
West Midlands
CV3 2TX
t: 02476 430340
w: www.paramex.com

Paramex is an Engineering Service Provider ESP capable of supplying engineering turnkey solutions across diverse industry sectors. We specialise in the provision of contract and permanent staff with the ability to provide ancillary services to complement this. Services such as office rental, networking, communications, hardware and software on a 'man & machine' rental basis, system support contracts and engineering packages of work. We are also a software reseller for aPiori 'Design to Target Cost' www.apriori.com. The majority of our customers are blue chip OEM's and their tiered supplier base with whom we aim to build long standing relationships.

Phil Hands
e: phands@paramex.com

Sim-Cast Limited

ID Centre
Lathkill House
Derby
Derbyshire
DE24 8UP
t: 01332 258840
w: www.sim-cast.co.uk

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

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TRW Conekt

Technical Centre
Stratford Road
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West Midlands
B90 4GW
t: 0121 627 4242
w: www.conekt.co.uk

Conekt's aerospace portfolio incorporates world-class experts in the fields of sensors, advanced control, actuation, systems integration, safety engineering and reliability. Conekt's customers can also benefit from access to a comprehensive suite of qualification and testing services that includes climatics, EMC (electromagnetic compatibility) including HIRF (high density radiated field) and indirect lightning strike, dynamics and failure analysis. Conekt delivers specialist consultancy and engineering services across a number of technology-intensive industries on a confidential basis. With 40 years of experience, and more than 120 highly qualified engineers and scientists, Conekt enables its customers to become leaders in their chosen markets through the application of leading-edge technology.

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VirtualPIE Ltd

The Coach House
60 Waterloo Road
Wolverhampton
West Midlands
WV1 4QP
t: 07917804630
w: www.VirtualPIE.co.uk

VirtualPIE Limited is a UK based company providing independent consultancy and integrated engineering services. Our value add is our team's engineering design and development expertise, our virtual engineering modelling and simulation capabilities and our proven engineering outsourcing delivery model expertise. With established expertise for air, land and sea based platforms; we provide mechanical, hydraulic, fluids, electrical, electronics, embedded systems, engineering software capabilities and resources to support engine, structure, interior, avionics, landing gear systems and component engineering. We provide independent consultancy and support for virtual engineering.

Raghbir Chand
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PRODUCT AND MATERIAL TESTING SERVICES

CERAM

Queens Road
Penkhull
Stoke-on-Trent
Staffordshire
ST4 7LQ
t: 0845 0260902
w: www.ceram.com/aerospace

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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GTG Engineering Co Limited

Albert Works
Albert Street
Loughborough
Leicestershire
LE11 2DW
t: 01509 215077
w: www.gtgenengineering.co.uk

Metallurgical precision and mechanical test engineers providing precision engineering, mechanical testing and metallurgical specimens and equipment to the aerospace and allied industries. Over 50 years experience has enabled the company to build up an enviable reputation for the highest possible consistency of quality and reliability. To further enhance our service G.T.G. has established an in-house mechanical test facility, ensuring quick response machining and testing to final certification under one roof. The principal services offered are: tensile, stress rupture, fatigue, impact and hardness. Chemical analysis and NDT can also be undertaken.

Martin George
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NDT Services Limited

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

NDT services Ltd one of the largest and most approved materials testing organisations in Europe covering all aspects of non destructive testing and supported by a comprehensive mechanical and metallurgical inspection facility. Our approvals include: UKAS, NADCAP, CAA and FAA. The company operates from two purpose designed test laboratories in Derby. We also offer a complete site service covering all NDT disciplines to support our customers anywhere in Europe. We have recently moved into a new 33,000 sq ft facility in Derby and are in the process of increasing our capabilities to also cover the inspection of composite materials

Peter Maiden
e: pmaiden@ndtservices.co.uk

Smithers Rapra

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

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

Chris Hubble
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TRaC

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

TRaC is a market leading group of testing, regulatory and compliance laboratories, providing full environmental testing, EMC testing, safety testing and FEA services to the global aerospace and defence market. With UKAS accredited test laboratories located in Warwick and Malvern, TRaC provide a single source for turnkey qualification test programmes to international standards, including Def Stan 00-35 and 59-411, RTCA DO160E, MIL STD 810 and MIL STD 461. With our large range of climatic chambers, EMC chambers, and vibration shakers, TRaC can assist our customers testing components up to full military vehicles.

Brendan Wall
e: brendan.wall@tracglobal.com

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

Acres Engineering Limited

Unit A
Castle Lane
Melbourne
Derbyshire
DE73 8JB
t: 0844 209 0006
w: www.acresengineering.co.uk

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

Tony Parker
e: info@acresengineering.co.uk

Aerotherm Group

Scotia Road Business Park
Tunstall
Stoke on Trent
ST6 4HE
t: 01782 820960
w: www.aerotherm.co.uk

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

Chris Buckley
e: sales@aerotherm.co.uk

Midlands companies offering specialist support services and equipment

Arco Limited

Vector Industrial Park
Church Lane
West Bromwich
West Midlands
B71 1DG
t: 0121 500 4444
w: www.arco.co.uk

Arco is the UK's leading supplier of personal protective equipment, workwear and workplace safety products. As such we are widely recognised as a provider of expert advice, services and safety solutions for businesses in every market sector

Steve Westerby
e: westbromwich.branch@arco.co.uk

Arrow Cleaning & Hygiene Solutions

Rawden Road
Moiria
Swadlincote
Derbyshire
DE12 6DA
t: 01283 221044
w: www.arrowchem.com

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

Katie Denny
e: katie.denny@arrowchem.com

Brown and Holmes (Tamworth) Limited

Unit F Apollo Business Park
Lichfield Road Industrial Estate
Tamworth
Staffordshire
B79 7TA
t: 01827 63591
w: www.browndanholmes.co.uk

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

Kevin Ward
e: info@browndanholmes.co.uk

CI Logistics

43 Wenlock Way
Troon Industrial Area
Leicester
Leicestershire
LE4 9HU
t: 0116 276 1691
w: www.conveyors.co.uk

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

Adrian Pryce
e: sales@conveyors.co.uk

Craig Tools International Limited

Unit 6 Riding Court
Riding Road
Brockley
Northants
NN13 7BH
t: 01280 700101
w: www.craigtools.co.uk

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

Sidney Atkins
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CTR-Carbide Dies Ltd

7 Port Hope Road
Sparkbrook
Birmingham
West Midlands
B11 1JS
t: 0121 773 9135
w: www.ctr-uk.com

Established in 1973 and located in the heart of England, CTR Carbide Dies Ltd manufacture carbide and steel machine tooling for the aerospace fastening industry which we export world-wide. We specialise in the manufacture of complete tool kits and offer a fast turnaround service, helping our customers achieve their own schedules on-time and in full, which is why we are one of the largest fastener tool manufacturers in the world today.

Jim Blancfield
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Cullum Detuners Ltd

Adams Close
Heanor Gate Industrial Park
Heanor
Derbyshire
DE75 7SW
t: 01773 544044
w: www.cullum.co.uk

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

Bill Rigg
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East Midland Saw and Tool Co Ltd

Rutland Mill
Chapel Street
Nottingham
Nottinghamshire
NG10 1EQ
t: 0115 972 2757
w: www.emst.co.uk

East Midland Saw and Tool Co has over thirty years experience in the service and supply of cutting tools to all industries. Continual expansion and modernisation programmes alongside considerable investment in state of the art CNC machinery have kept us at the forefront of our industry. Working in partnership with our customers and suppliers, our commitment to excellence has contributed to our success and enviable reputation as one of the largest privately owned cutting tool supply and service centres in the UK.

Lawrence Hazell
e: sales@emst.co.uk

Electroservices (Midlands) Ltd

The Calibration House
Stafford Park 1
Telford
Shropshire
TF3 3BD
t: 01952 292784
w: www.electroservices.biz

Electroservices offer calibration and repair of electronic, electrical and mechanical test & measurement equipment; includes dimensional, torque, pressure, vacuum, crimp, vibration RF & microwave, non-ionising radiation. Based on three sites offering ISO9001:2000, UKAS & ISO17025, our service meets the stringent requirements of the tri-services, defence, aerospace, avionics, manufacturing & communications sectors throughout the UK.

Judith Smith
e: judith.smith@electro-services.com

Exmac Automation Ltd

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t: 01905 721500
w: www.exmacautomation.co.uk

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

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Expert Tooling & Automation Ltd

1 Banner Park
Wickmans Drive
Coventry
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Design and manufacture of jigs, fixtures, press tools, special purpose machines and automation

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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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Hockley Pattern & Tool Co Ltd

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

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Hexagon Metrology Limited

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

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Hydrapower Dynamics Engineering Ltd

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Industrial Measurements Ltd

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w: www.indmeas.co.uk

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Industrial Tooling Corporation Ltd

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ITC are the leading UK manufacturer, modifier, re-grinder and distributor of precision round cutting tools in both HSS and carbide. In addition to possessing one of the most modern and well equipped grinding facilities in the UK, with CNC grinding machines from Walter, Rollmatic, Schneeburger, Anca and Deckel, ITC is sole UK stockist of Hanita Cutting Tools (Israel), Metal Removal Industrial Tooling (USA) and Air Turbine Technology High Speed Spindles (USA).

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Iscar Tools Limited

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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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MA Ford Europe Ltd

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

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Mills CNC Limited

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

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Manufacturers of specialist cutting tools, broaches, endmills and drills. Manufacturers of multi-axis robots. Suppliers of cutting tools to engine manufacturers. Suppliers of robots for handling, welding, sealing etc.

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Newbow Aerospace Limited

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

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Phase Vision Limited

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Phase Vision's products provide incredibly accurate measurement data which can be used in a wide range of industries, including helping to reduce the drag of an aircraft's wing, generating enormous fuel savings for airlines. They can also help car bodies fit together better, enhancing quality and reducing cost, or optimising the manufacturing of jet engines, making them quieter and more efficient. The company's products are 3D measurement systems using a non-contact structured lighting technique. They bring several unique advantages which are measurement of very large objects, 360° measurement of complex objects, at production line speeds and the ability to measure "shiny" surfaces such as machined or composite components.

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Plasticraft

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Plasticraft design, manufacture, install and commission chemical process and surface treatment plant, 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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Roemheld (UK) Limited

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RTC Electronics Ltd

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Star Micronics GB Ltd

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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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Teer Coatings Limited

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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 EC level

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Thyssenkrupp System Engineering Limited

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Wheelabrator Group Ltd

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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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PARTS AND LOGISTICS MANAGEMENT

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CEVA Logistics

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

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JJX Logistics

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LOW-COST SOURCING

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Sigma Precision Components UK Ltd manufactures rigid pipe assemblies, precision machined components and fasteners for aerospace and other markets. From simple components to complex assemblies of rigid pipes and fabrications, we have 100 employees and 50,000 sq ft of modern facilities. Our specialist processes include tube manipulation, fabrications, machining, welding, brazing, NDT, X-ray etc. Among our approvals are AS9100, NADCAP, 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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Freudenberg Simrit LP

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

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Arvada Strategic Marketing Limited is a strategic marketing consultancy providing tailored marketing solutions in the manufacturing, technology and engineering sectors with specific experience in the aerospace, defence, motorsport and automotive markets. Arvada specialises in developing and implementing growth & diversification strategies, market research, product management, UK & international business development, marketing audits and new product/market development.

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Blum Novotest Limited

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Blum Novotest provide solutions for manufacturing companies to assist them with increasing their productivity and reducing their manufacturing costs from their existing machine tool capacity.

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

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The Conduce Group is an IT & business services organization dedicated to providing first-class professional services in an ever changing business climate. Through our IT Services, Consulting & Software divisions the Conduce Group can cater for all of your IT & business services requirements; and with the recent acquisition of Dreamscape Design our web & print design capability has been further strengthened. Providing innovative, yet pragmatic solutions for all of your business needs, in an integrated manner, is now a real possibility for enterprises of all sizes.

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Jonathan Lee Recruitment

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The Institute of Metal Finishing (IMF) was founded in 1925, its title then being the Electroplaters and Depositors Technical Society. Its main purpose then was to disseminate technical information on electrodeposition by means of technical publications, technical meetings and conferences. The area of interest broadened into the total gamut of surface finishing of metals when it assumed the title of the Institute of Metal Finishing in 1951. Such processes embrace electro-plating, organic (paint) finishing, anodising, printed circuitry and ancillary methods of surface treatment. More recently, the IMF has further broadened its interest to cover other aspects of surface engineering.

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The School of Technology at the University of Derby offer 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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LATecis is the engineering services division of the Latécoère Group. The company is headquartered in Toulouse with offices in Bordeaux, Nantes, Paris, Seville, Madrid, Bucharest and Stevenage. It employs approximately 400 staff across its activities which include: aerostructures design and FE engineering; satellite structures engineering; aerospace onboard electrical systems design & manufacture; aircraft and space assembly and transportation tooling; metrology; design & manufacture of special purpose machines and automated test equipment. LATecis is a leading supplier to Astrium, ESA, Airbus, Boeing and Bombardier. LATecis UK is an independently run wholly owned subsidiary of LATecis.

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

