



Toulouse

Working for our members

ADS TOULOUSE MEMBERS CAPABILITIES

**ADS Toulouse
2021**

UK Aerospace sector

The UK's aerospace sector is world-leading, generating well-paid jobs, high-tech exports and sustainable growth across the country.

£31.8bn

Exports



114k

Direct employees



19%

Turnover growth
since 2014



£33.9bn

Turnover



4.5k

Apprentices

Aerospace is assumed to be 75% civil and 25% defence.
All 2019 data is based on ADS estimates that were compiled before the COVID-19 crisis.

ADS Toulouse – A strong footprint in France

- > Established in 1999, ADS Toulouse is a French wholly owned subsidiary of ADS, the leading trade association for UK aerospace, defence, security and space sectors.
100% financed by its members. ADS Toulouse is a member of the Aerospace Valley cluster since January 2018.
- > ADS Toulouse staff is tasked to connect and give access to UK aerospace suppliers to business opportunities in the French aeronautics, space, defence and embedded systems markets.
- > ADS Toulouse promote UK expertise in the aerospace sector.



ADS Toulouse members 2021 – 28 companies



BAE SYSTEMS



BÖLLHOFF



CYIENT



incora™



**BROOKHOUSE
AEROSPACE**



OXPERA



senior



VERIFY

ALA – Advanced Logistics for Aerospace



ALA - Advanced Logistics for Aerospace is a stocking distributor and provider of advanced logistics and innovative supply chain services and solutions to the aerospace industry.

With headquarters in Naples-Italy, ALA is present with logistics plants and operating companies in Italy, France, Germany, UK, Israel and in the US. Products managed include fasteners, connectors, indirect materials, spare parts and raw materials.

Core Activities

Products distribution
Supply chain management
Material planning
Logistics for Aerospace

Employee Number

250

Annual Sales

€135M

Certifications

EN9120/AS9100

Areas of expertise:

- Lean supply chain management solutions
- Suppliers relationship management
- Inventory management
- DLF and JIT delivery
- Third Party Logistics
- Consignment stock
- Kitting

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Core Activities

Aerostructure & Aeroengines

Specialist in hard and soft metal machining and associated surface treatments.

Design & Tooling

Design and manufacture specialists of large invar layup tools for composite airframes, jigs & fixtures & transportation media

Year established

2019

Employee Number

300+

Annual Sales

£43M

Certifications & Approvals

AS9100 Rev D, BS EN 9100:2008, BS EN ISO 14001, BS EN ISO 9001:2015. Airbus, Bae Systems, Rolls Royce, Spirit Aerospace, Leonardo, GKN Aerospace, GE Aviation, Bombardier amongst others

Providing safety critical components, design and manufacture of tooling and transportation media to the aerospace, defence, medical and sectors. ASG have eight sites across Europe supporting the global OEM customer base and their tier one supply chain. The ASG group offer an end to end capability specialising in the machining and assembly of hard and soft metals, carrying out all associated surface treatments.

Areas of expertise:

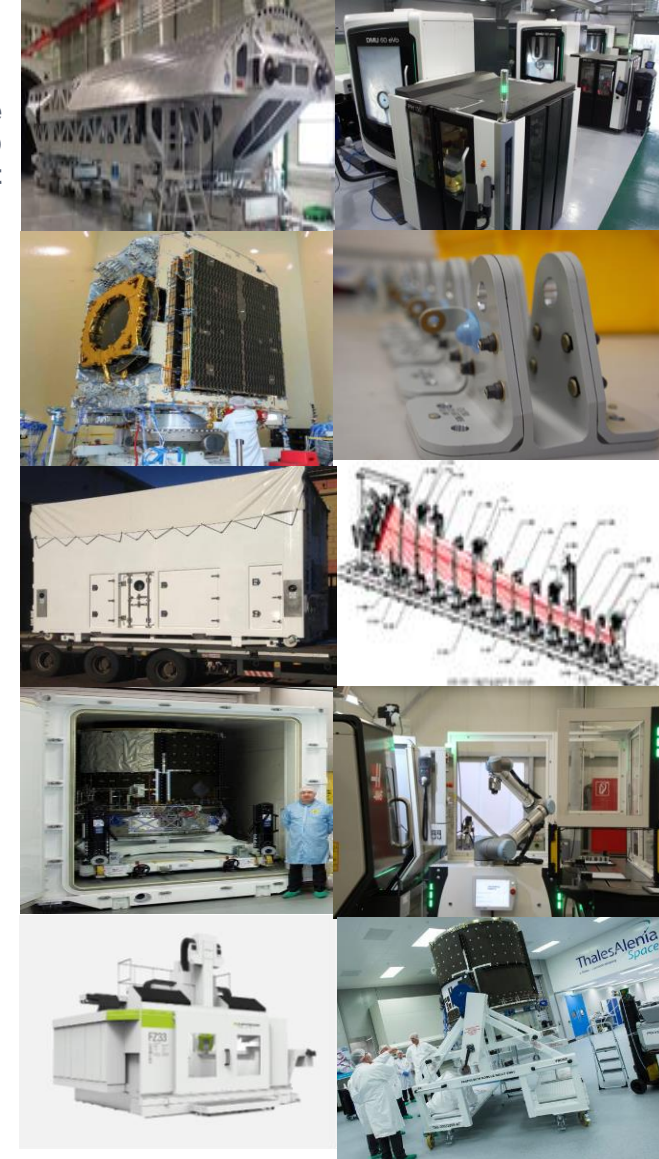
Aerostructure & Aeroengine

- CNC 5 and 3 axis long & short bed machining in both hard & soft materials up to 4.2M
- Turning & mill turn in both hard & soft materials up to a diameter of 500mm.
- Grinding
- General assembly
- Surface treatment of hard and soft metals
- AOG 24/7 Service

Design, Tooling, Jigs & Fixtures

- Design & manufacture of tooling, jigs & fixtures & transportation media
- Large metallic mould tooling in invar, steel & aluminium
- Assembly tools & fixtures
- Details tools
- Composite moulding mandrels
- Tool design
- Development capability

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Core Activities

Design
Manufacturing
Test and qualification
Servicing, maintenance and repair
Associated customer training
Research and development

Year established

1999

Employee Number

1500

Certifications

EN9100/AS9100D
ISO9001
ISO14001
OSHA18001

Approvals

Approved for production deployment at several global aerospace OEMs.

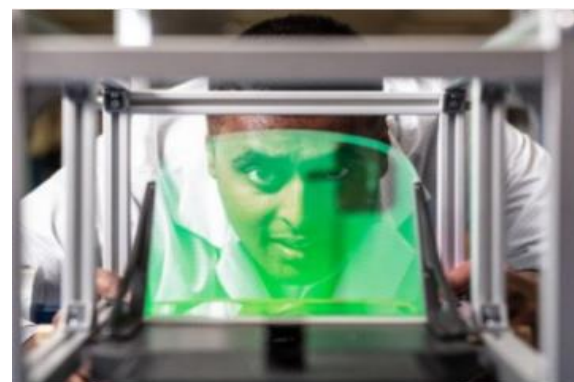
From cutting-edge flight controls to head-up displays, employees at BAE Systems design, develop and produce some of the world's most advanced avionics equipment spanning both the commercial and defence markets.

The company also provides world-leading aftermarket support and in-service repair for aircraft fleets around the globe and delivers innovative propulsion and power management systems to markets across Europe.

Areas of expertise:

- Flight control systems
- Active pilot control sticks
- Utilities management
- Power management
- Cockpit and cabin systems
- Advanced display solutions
- Hybrid-electric power solutions

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BEAGLE TECHNOLOGY GROUP LTD



Core Activities

Aerostructure detail parts and structural assemblies.

3, 4, & 5 axis machining.

Stretch Forming, Chemical etching. Seam, Spot and Tig welding. Protective treatments and NDT. Specialising in complex and niche products.

Year Established

1959

Employee Number 85

Annual Sales \$9M

Certifications

AS9100 ISO9001 ISO14001
ADS SC21. 5 x NADCAP
Approvals, Heat Treatment,
Chemical Processes, Welding,
NDT, Composites. Numerous
OEM Approvals, BAE Systems,
Boeing, Airbus, Leonardo, Spirit
Aerosystems, Bombardier, Rolls
Royce, GKN

Beagle Technology Group is one of the UK's longest established aerospace manufacturers, offering a diverse range of capabilities and genuine one stop shop solutions. Delivering niche and highly complex product to an impressive range of customers for well over half a century. Products range from simple aluminium details to larger structural assemblies.

We are recognised leaders in the field of metal to metal and honeycomb bonding. This activity is supported via full clean room facilities and two autoclaves. Pre pregs and non metallics also catered for via wet lay up.

Extensive stretch forming capabilities can be carried on our Erco and Hufford machines, stretching a variety of product from stringer and frame sections to tail skins, door skin and leading edges. Titanium, Steel and Aluminium can all be stretched at our facility.

3-5 axis machining up to 4m in length.

7 axis CNC Brake Press

Areas of expertise:

- Stretch Forming
- Chemical Etching
- Metal to Metal and Wet Lay Up Bonding
- Precision Machining
- Welding
- Sheetmetal fabrication and assembly

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Core Activities

Special fasteners
Custom-made drawing parts
DIN and standard parts
Assembly technology

Year established

1877 in Herdecke, Germany

Employee Number

more than 3000

Annual Sales €638 M in 2019

Certifications

EN 9100:2018 Aerospace
(WBH)
ISO 14001:2015 (various)
IATF 16949:2016 (BPR /
Bielefeld)
IATF 16949:2016 (BPR /
Sonnenwalde)
ISO 9001:2015 (various)
ISO 50001:2011 (various)
IRIS Certification rules: 2017
and based on ISO/TS
22163:2017 (BPR / Bielefeld)
DIN EN 1507:2006 (BVT)
BS OHSAS 18001:2007 (WBH /
Bielefeld)
Material manufacturer according
to AD 2000-Merkblatt W0 (BPR
& BVT, Bielefeld)

The Bollhoff Group, established in 1877, is one of the world's leading manufacturers and suppliers of fasteners and assembly systems. The family-run company focusses on long-term success, achieved through highly qualified employees, innovative products and customised services.

The product range comprises different technologies, e.g. thread reinforcement, riveting, adhesive technology and many more, which are exclusively manufactured at Bollhoff production facilities. They are subject to stringent quality checks in every single production step.

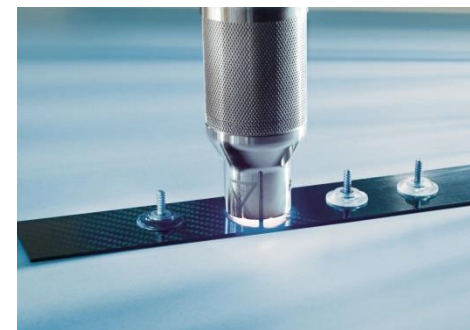
Bollhoff is represented by own distribution facilities and production sites in 24 countries on all continents.

Areas of expertise:

- Expertise in development and application consulting
- In-house production
- Supply chain solutions
- Accredited laboratory
- Service and training

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Core Activities

Specialist manufacturing of composite components, structures and assemblies.

Metallic fine detail fabrication and machining of components and sub-assemblies.

Composite and metallic hybrid assemblies

Treatment facility in-house
Ground Support Equipment
Strip, Survey, Spares, Repairs

Established

Brookhouse Composites established in 1951, acquired Kaman Corp in 2008. MBO Feb 2021 to create Brookhouse Aerospace Limited.

Approvals.

ISO9001, AS9100 Rev D
EASA Part 21G, EASA Part 145,
NADCAP AC7118 Composites,
AC7122 Non Metallic Material
Testing, AC7108 Chemical
Processing, AC7114 Non
Destructive Testing

Approvals: BAE Systems,
Airbus, Safran, GKN, Spirit,
Raytheon, Rolls Royce, IAI
MBDA, Leonardo.

Brookhouse Aerospace offer a unique expertise and ability to manufacture sophisticated and complex composite components, structures and assemblies for critical applications for use in the Aerospace, Defence and Military markets. Combined with our knowledge and capability in metallic fabrications, metal joining technologies, machining and treatments all located in one facility in Darwen, Lancashire we support both OEM's and Tier 1.

For our customers we help build products and assemblies for aircraft interiors, aerostructures, wing components & surfaces, fuselage panels, ailerons, winglets, rudders, landing gear doors, engine and thrust reverser panels, missile structures, fairings and covers.

Our products are used in Civil and Military Aerospace, Naval, UAV, Missiles and Engine applications.

Areas of expertise:

Composites

- Full composite build to print capability for flight critical components, prepreg and out of autoclave capability.
- Capability to collaborate with customers to produce lightweight products, allow designers freedom to create visually appealing products and support parts consolidated to reducing costs.
- Support alternatives to traditional metallic processing, produce lightweight metallic composite hybrid items.
- Large infrastructure in place including 6 large autoclaves largest 13m x 3.5m, ovens, clean room, finishing capabilities, assembly, NDT C scan facility, 4/5 axis CNC machining/trimming, skilled and experienced Engineering and workforce.

Treatments Facility.

- NADCAP approved Special Processes including a chromic acid anodise line using our fully automated loading, immersion and transfer between 8ft x 3ft x 5ft deep tanks.
- PFD plant, full NADCAP approval, vac blast & zinc spray, painting, welding, kitting to line operates 24/7

Metallic Detail Fabrication Facility.

- Large fabrication shop comprising of a capability of metallic details and sub-assemblies, equipment includes guillotines, press brakes, welding, forming, CNC routing and presswork all to Aerospace standards.
- 3-Axis and 5-Axis CNC machining capability including hard metals.



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Brookhouse Aerospace
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BB3 1AD, United Kingdom

CASTLE METALS Aerospace



Core Activities

Material Management Expertise

Value Added:

Cut to length
Cut to size
Near net shape cutting
Billet preparation

Year established

1890

Employee Number

1000+

Annual Sales

\$580M in 2019

Certifications

ISO9001
EN9100

Approvals

AIRBUS / BOEING / COLLINS /
SAFRAN / DASSAULT / IAI /
LOCKHEED MARTIN / THALES
etc...

CASTLE METALS is a leading provider of metals, services, and supply chain solutions. We distribute and process alloy, carbon, stainless steel, nickel, aluminum, titanium, cast iron, and red metals.

Together, Castle and its affiliated companies operate out of 22 metals service centers located throughout North America, Europe and Asia. Operating in 2 locations in Europe, we work with international OEMs to better serve their multi-location production requirements and delivery needs.

We also help the thousands of machine shops that service the OEMs or have their own niche end market. We leverage our long-standing metals expertise and focus on processing and other value-added services to meet the unique requirements of industries such as Aerospace, Defense & Space.

Areas of expertise:

- ALLOYS: Aluminum, Titanium, Nickel Alloys, Stainless steel, Bronze / Copper
- PRODUCT: Plates, Sheets, Bars, Tubes, Extrusions
- PROCESSING: Sawing, Water jet cutting, Laser cutting, CNC machining, Chamfering/Drilling, Deburring
- SERVICES: Bar coding, VMI, Just In Time, Consignment stock, Kitting, Kanban

Contact

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Territory Manager

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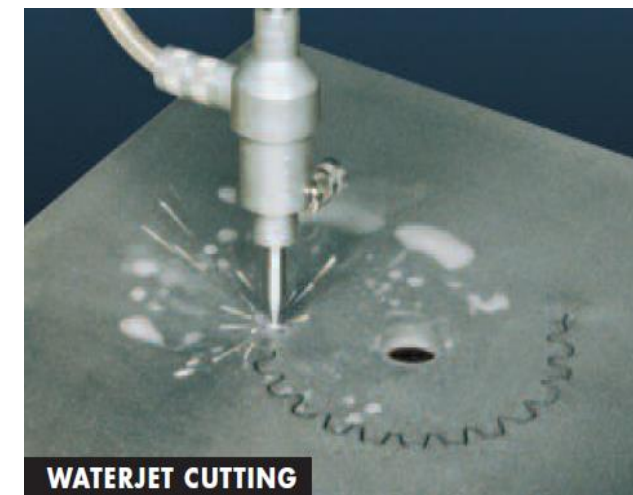
W: www.castlemetalseurope.com

Address

Zone Pyrène Aeropole

65380 LANNE

France



Core Activities

Product and process engineering
Product and systems design led manufacturing

Year established

1991

Employee Number

13,500+

Annual Sales

\$640M in FY20 (ending March 31st 2020)

Certifications

ISO 9001 | ISO14001 |
AS9100D | NADCAP |
OHSAS 18001 |
CEMILAC/6042/DA 166/TC&S |

Approvals

FAA (PMA)
MIDO
ACO

Cyient provides engineering, manufacturing, geospatial, digital, networks, and operations management solutions to global industry leaders. Cyient leverages the power of digital technology and advanced analytics capabilities, along with domain knowledge and technical expertise, to solve complex business problems. As a Design, Build, Operate and Maintain partner, Cyient takes solution ownership across the value chain to help clients focus on their core, innovate, and stay ahead of the curve.

With more than 30 years of service, Cyient is in the business of solving problems, and 100 of our clients are repeat customers. We operate from 47 locations across 21 countries adeptly combining global delivery with close proximity to 300 clients for industries such as Aerospace Defense, Communications, Energy, Geospatial, Industrial, Medical Health Care, Mining, Rail, Semiconductor and Utilities.

Areas of expertise

- Aerospace & Defence: System level engineering solutions across engines, avionics, systems, structures & interiors.
- Rail Transportation: Design solutions in rail rolling stock, rail signaling & electrification.
- Oil & Gas: Design solutions for drilling, completion & subsea equipment, complying with class rules.
- Heavy Equipment: Subsystem level engineering & integration for construction, mining, agricultural & material handling equipment.
- Consumer: Patentable engineering solutions by identifying IP gaps & localizing home appliances, personal care & consumer electronic products.
- Semiconductors: Application specific system development in "full chip silicon" design, verification & implementation services across industries.
- Medical: Engineering of affordable & innovative medical devices from industrial design to manufacturing, adhering to stringent regulatory requirements.



Contact

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DARCHEM Engineering Ltd



Year established
1954

Employee Number
820 split between two locations
– Gloucester (South West) and
Stockton (North East)

Annual Sales
€100M

Certifications
ISO9001/AS9100 – Aerospace
Quality Management
ISO14001 – Environmental
ISO18001 – Health & Safety
NADCAP – NDT / Welding /
Non-Conventional Machining /
Chemical Processing

Approvals
Most major Aerospace OEMs &
Tier 1 approvals

Darchem is a subsidiary of the US quoted, Seattle based, Esterline Technologies Corporation.

We have three areas of aerospace expertise: Insulation Systems; Metallic Honeycomb; Structural components.

Between these areas we supply around 600 different part numbers on existing Airbus platforms. This includes Over 200 parts on A350, Over 150 parts on A380, Over 150 parts on A400M.

In addition to Airbus direct supply, Darchem also supplies GKN, Sonaca, Safran, PFW, Premium Aerotech, Senior

Darchem's commitment to Lean / Continuous Improvement resulted in our being assessed as the best Company for implementing the Esterline Operating System at the end of 2016.

Areas of expertise:

- Insulation (metallic; polyimide & composite) – including a range of light weight insulation
- Structural components in hard metals (mainly titanium & steel) – formed, welded & riveted components
- Qualified Fire Test Facility
- 3D rapid printing for tools
- In house tool machine shop for small tools

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UK



DONCASTERS GROUP



DONCASTERS

Core Activities

For the Aerospace Market:

- Structural Castings
- Turbine Airfoils
- Superalloy Production

Year established

1775

Employee Number

c.2100

Annual Sales

£392m (2019)

Certifications

Multiple Aerospace Standards

Approvals

Multiple Aerospace Standards

Doncasters is a leading international manufacturer of high-precision alloy components made for the most demanding of conditions.

With 240 years of experience, this agile group is embarking, upon on an ambitious £100m plus multi-year investment programme in order to further develop its ability to best serve OEMs in the aerospace, industrial gas turbine and automotive markets.

Areas of core competence include new product development, precision casting, superalloy production and the supply and manufacture of automotive stud welding equipment.

Typical aerospace market activities:

Superalloy Production

Producer of vacuum refined cast nickel /cobalt superalloys and air melted alloys.

Key Products:

Air melt superalloys, Vacuum melt superalloys, ingots and bars



Structural Castings

Manufactures complex precision components using primarily equiax casting

Key Products:

360 degree housings, seal segments, air seals, centre frames, nozzles, heat shields, airfoils, torque bars, torque tubes



Turbine Airfoils

Manufactures blades and vanes for the hot end section of IGT and aero engines

Key Products:

Blades and vanes from the hot end section of IGT engines and aero engines in equiax, directionally solidified and single crystal configurations



FGP Group Ltd



Core Activities

Complex Machining
Assembly
Welding & Fabrication
Vacuum Heat Treat & Brazing
Surface Treatment & Finishing

Year established 2015

Employee Number 175

Annual Sales €23m

Certifications

AS9100 Rev D (3 Sites)

NADCAP:

Heat Treatment

Welding / Metal Joining

NDT

Surface Treatments

Surface Finishing

SC21

JOSCAR

CE+

Customer Approvals include:

Honeywell

Safran

Collins Aerospace

Thales

Leonardo

MBDA

Martin Baker

Curtiss Wright

At FGP we have the very best people, facilities, machines, equipment, software and processes that enable us to fully collaborate and respond in exceeding our Customers expectations.

Areas of expertise:

- Design For Manufacture & Value Engineering
- Engineering Solutions~ Cast to Hog Out
- Automated Machining
- NADCAP Special Processing
- Assembly Solutions
- Replenishment Systems : VMI / Kanban
- Investment in People & Technology
- Demonstrated reputation for Customer Focus
- Apprentice Training School : RoATP approved

▪ Your One Stop Shop Complete Solution !!

Contact :

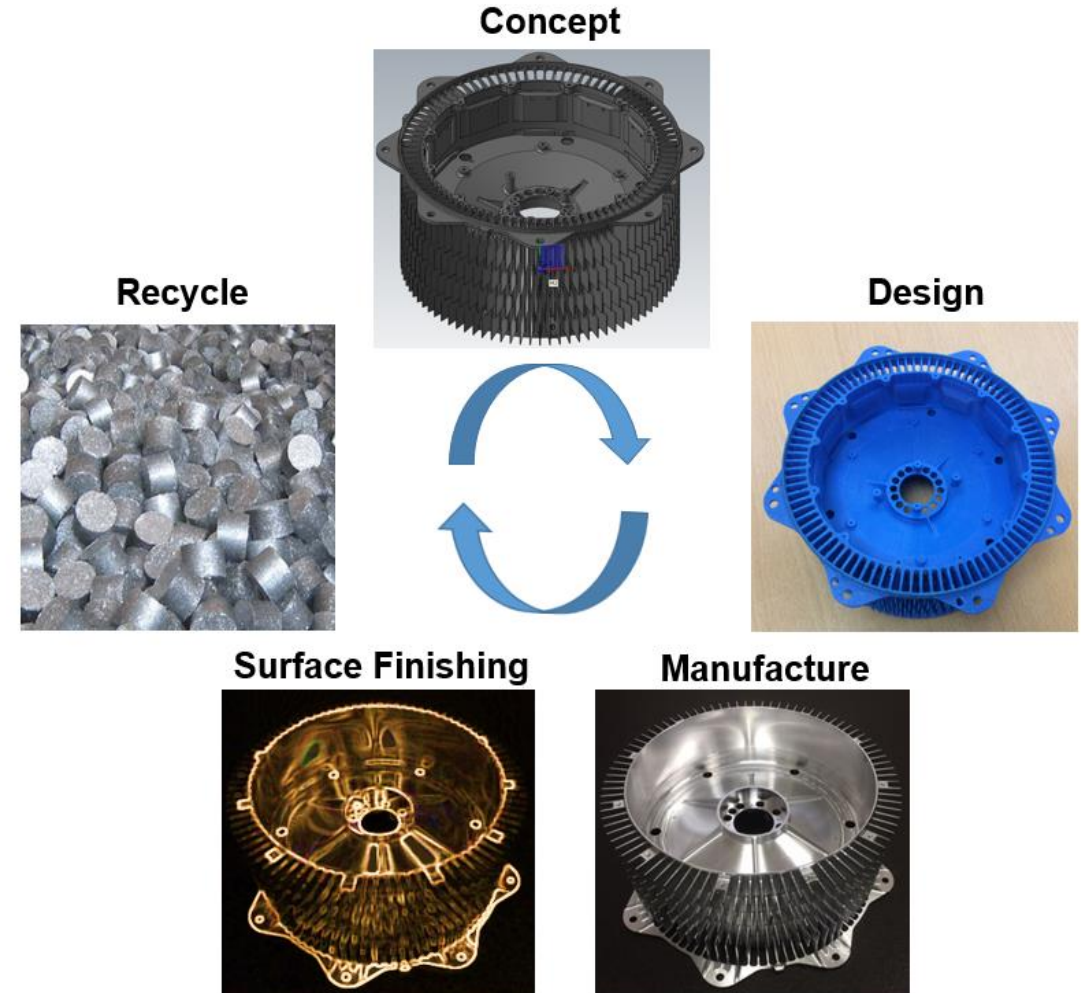
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GARDNER AEROSPACE



Core Activities

Aerostructure detail parts
Machining and Sheet Metal
Hard metal or light Alloys
Assemblies
Supply chain management
Speed shop

Year established

2003

Employee Number

1 500

Annual Sales

\$ 200M

Certifications

EN9120/AS9100
AS9100 Rev C
ISO9001
ISO14001
OHSAS18001
NADCAP

Approvals

Gardner Aerospace holds numerous industry approvals, including: FAA CAA EASA

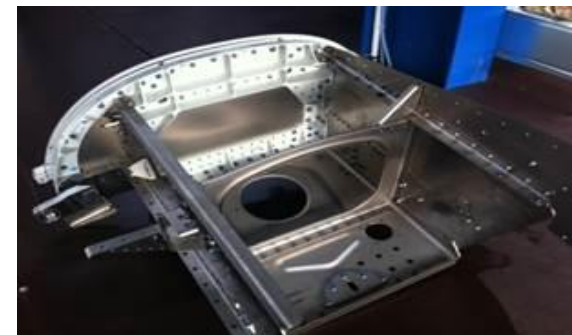
Gardner is one of the aerospace industry's largest and most diverse manufacturers of finished machined and fabricated Detailed Parts made from hard and soft metals.

Most OEM and Tier 1 customers also take advantage of Gardner's sizable assembly, kitting and/or large scale speed shop services. It has substantial Programme, Supply Chain, Transfer and Quality management organisations to support all requirements and has five modern aerospace approved manufacturing operations in the UK, two in France, two in Poland and one in India.

Annual revenues exceed \$200m and it employs over 1,500 people worldwide.

Areas of expertise:

- Strategic supplier to its customers and one of the clear leaders in the consolidation of the overly fragmented aerospace detailed parts sector
- Excellent reputation for delivery, quality and responsiveness
- International and highly experienced management team
- Backed by highly supportive financial investors with experience of aerospace and manufacturing.
- Customer and relationship focused, creative, flexible, willing to listen, to learn and to change.
- A proven track record of organic and acquisitive growth.



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GKN Aerospace



Core Activities

Develop, build and supply an extensive range of advanced aerospace systems, components and technologies for use in aircraft, ranging from helicopters and business jets to the most used single-aisle aircraft and the largest passenger airliners in the world. Market leader in aerostructures, engine systems, transparencies and wiring systems.

Year established

1759

Employee Number

17 000

Annual Sales

£2.5M – Aerospace Division

Certifications & Approvals

A lot

GKN Aerospace is one of the world's largest independent first tier suppliers to the global aviation industry.

With over 100 years aerospace experience, we harness our considerable knowledge and advanced manufacturing technologies to supply high-value, integrated assemblies in both metallic and composite materials. We employ approximately 17,000 people in more than 62 locations across three continents.

Areas of expertise:

- Advanced manufacturing - High rate processing, Flexible manufacturing, Energy efficient system
- Low-cost solutions - High performance aerostructures, Improved performance, Multi-functional structures
- Integrated structures - High performance engine structures, Weight optimised structures, Performance improvement
- Environmental technologies - High performance transparencies, Improved stealth capabilities, Improved optical characteristics, Improved passenger environment



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UK

HYDE AERO PRODUCTS Ltd



Hyde Aero Products

A Hyde Group Holdings Company

Core Activities

- Integrated design and manufacture specialist
- Precision manufacture of complex components in soft, hard and exotic materials
- Active in aerospace, nuclear, automotive, defence, space, marine and scientific sectors.
- Rapid integrated product teams.

Year established 1968

Employee Number 750

Annual Sales \$130m

Certifications

AS9100:2016 Rev D, BS EN 9100, BS EN ISO 9001:2015, NADCAP approvals held for chemical processing, heat treatment, welding, NDT including X-ray and dye penetrant inspection, tartaric sulfuric anodise.

Approvals

Approved for production deployment at several global aerospace OEMs.

Designer and manufacturer of aerospace structural components and detailed parts

One of Europe's leading aerospace engineering organisations, the Hyde Group are privately owned and have been delivering design and manufacturing solutions for over 50 years, serving clients across the globe. Through exceptional service levels, we specialise in the design, manufacture and finish of detailed parts and integrated structural components, covering long-term strategic support through to rapid-response AOG requirements.

- We're recognised specialists in the high precision manufacture of complex aerospace components - fabrication and welding, thread rolling, assembly, inspection, testing and surface treatment.
- Strategic, Tactical, AOG – we're one of the UK's largest aerospace engineering specialists with additional capacity at our overseas partners.
- You can trust us - we won't let you down: Established in 1968, privately owned, financially stable and operating a strong reinvestment programme.
- Our Group facilities can provide a fully integrated turnkey solutions and niche specialist services – all from one supplier.

Areas of expertise:

- Design and stress analysis
- Additive Layer Manufacturing (ALM)
- Fabrication and welding of soft and hard metals
- Assembly
- High precision machining, turning and thread rolling
- Coatings and treatments (including tartaric sulphuric acid anodise)

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We reduce complexity and increase reliability so our customers can deliver mission-critical solutions that improve our world.

Core Activities

Chemical Management Services
Kitting Services
Quality Management
Vendor Managed Inventory
Composite Management
3PL & 4PL Services

Aerospace Products

Engines components
Systems components
Airframe components
Aerospace chemicals
Composite materials

End Markets

Commercial Aerospace
Defence
Industrial
Pharmaceutical

Annual Sales

\$2.4 Billion

7 000 suppliers

8 400 customers

649 000+ SKUs

INCORA is the world's leading independent distributor and provider of comprehensive supply chain management services to the global aerospace industry. Our services range from traditional distribution to the management of supplier relationships, quality assurance, kitting, just-in-time delivery, chemical management services, third-party logistics or fourth-party logistics and point-of-use inventory management. We offer one of the world's broadest portfolios of aerospace products comprised of 649,000 active SKUs, including C-class hardware, chemicals, electronic products, bearings, tools, and machined parts.

During our 60+ years of operation, we have grown to serve more than 8,400+ customers with global workforce operating across 68+ locations worldwide.

Areas of expertise:

Aircraft Systems Served

- Engine & Engine Systems
- Hydraulic Units
- Actuation Systems
- Wheels and Brakes
- Landing Gear
- Aircraft Airframe & Aircraft Exterior

Contact

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Global Strategic Accounts
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31300, Toulouse France



MAGELLAN Aerospace Ltd



Core Activities

Aerostructures
Aero Engines
Repair and Overhaul
Sand castings
Speciality Products
Rockets and Space

Year established

1996

Employee Number

3500+ globally

Annual Sales

\$1bn + (CDN) – Globally

Certifications

ISO & AS9100 Rev C
Environmental - 14001

Approvals

EASA part 145 – Selected Sites Only
ITAR – Selected Sites only
NADCAP – Composites, Heat Treatment, Welding, Chemical Processing, Non-conventional machining, Non-Destructive Testing, Materials Testing

Magellan Aerospace (UK) Ltd is a subsidiary of Magellan Aerospace Corporation who is a leading global supplier of technologically advanced aerospace systems, components and assemblies. As one of the most integrated and comprehensive aerospace industry suppliers in the world, Magellan designs, engineers and manufactures a wide range of aero engine and aerostructure components for aerospace markets, advanced products for military and space markets, and complementary proprietary products for the power/oil/gas markets.

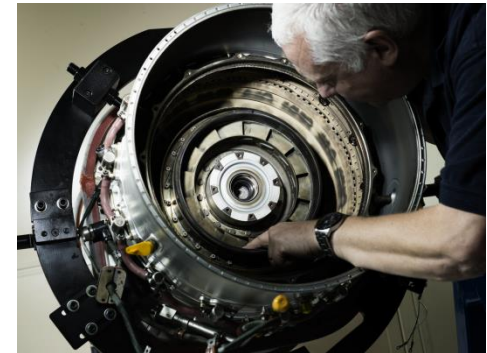
Magellan produces repair and overhaul, test, and aftermarket support services for a variety of engines, and engine structural components. Magellan enjoys strong supplier relationships with OEMs, space, civil, and defence organizations and sells to the global aerospace markets. Magellan is recognized by its customers for its innovative technology, original concept design, quality manufacturing, and total program solutions

Areas of expertise:

- Aerostructures : Machining , Assembly and Kitting / Design and Systems Integration / Aluminium, Titanium and Composites
- Aero Engines : Machining and Assembly / Fabrications / Technology Development
- Repair and Overhaul : Engine component / assembly and test
- Sand Castings : Aerostructure and Aero Engine capability
- Speciality Products : WSPSTM – Wire Strike Protection Systems / Industrial Power Generation Systems
- Rockets and Space : Rocket and Weapon Systems / Satellites

Contact
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510 Wallisdown Road
Bournemouth Dorset
BH11 8QN



MAYCAST-NOKES Precision Engineering Ltd.

Core Activities

Investment / Lost Wax
Castings
Precision Sand Castings
Gravity Die Castings
Machine Shop

Year established

1969

Employee Number

90

Annual Sales

£4.7M

Certifications

NADCAP NDT (X-Ray &
PFD)
NADCAP Heat Treatment

Approvals

ISO9001:2015
AS9100 REV D



Maycast-Nokes is a precision engineering company which manufacture precision sand, investment/lost wax and gravity die castings in aluminium and steel. We supply fully finished castings for Aerospace, Defence, Automotive and general engineering applications. In addition to our three foundries we operate a simultaneous 5-axis equipped machine shop and our comprehensive in-house facilities include heat treatment, metallurgy labs, non-destructive testing (PFD, X-Ray) and pattern shop/toolroom.

Areas of expertise:

- Investment/Lost wax casting
- Precision sand casting
- Gravity die casting
- Machine shop
- Rapid Prototyping
- Radiography
- Penetrant Flaw Detection
- Heat Treatment
- Pattern shop



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Darren Mitchell - dmitchell@maycast.co.uk
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W: www.maycast.co.uk

Maycast-Nokes Precision
Engineering Ltd.,
Factory Lane West,
Halstead, Essex
CO9 1EX, United Kingdom.

MSM aerospace fabricators

Core Activities

Manufacture and repair of complex sheet metal components and assemblies
Engine and nacelle fabrications
ECS, anti-ice and bleed air ducts and components
Ozone converters & heat exchanger headers
Leading edge & nose rib pressings
EASA MRO of intakes, exhausts and ducts

Year established

1937

Employee Number

60

Annual Sales

£6M

Certifications

AS9100, Nadcap, EASA145

Approvals

Airbus, Rolls-Royce, Safran,
GKN Aerospace, UTC
Aerospace Systems, Honeywell,
BAE Systems, Spirit
Aerosystems

MSM aerospace fabricators is a leading SME manufacturer specialising in complex forming and welding of high temperature metals. MSM has a 80 year heritage in the manufacture and repair of aerospace components such as bleed air ducts, anti-ice piccolo tubes, ozone converters, intakes and exhausts, nacelle and heat exchanger fabrications, fuel, oil and water tanks.

Areas of expertise:

- Hydroforming of sheet metal
- Rollforming of sheet metal, cones and tubes
- Bulgeforming of tubes and cones up to 1m dia.
- 5 axis laser profiling
- TiG, auto & resistance welding
- Laser welding
- VTL and CNC turning
- NDT and pressure testing
- CMM laser scanning
- CAD sheet metal forming simulation
- EASA145 MRO organisation

Contact
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Address
MSM Aerospace Fabricators
Spring Vale Works
Middleton
Manchester
M24 2HS



NASMYTH Group



Core Activities

Precision Machining
Processing and Surface
Treatments
Assembly & Testing
Fabrication & Welding
Machined Fabrications
Heavy Fabrication Supply Chain
Integration
Design & Reverse Engineering
MRO

Year established 2003

Employee Number 600

Annual Sales \$80M

Certifications

ISO 9001, AS9100, ISO1400,
FAR145/EASA145, CAA Part 145
& 21
NADCAP for special processes

Approvals

Airbus, Airbus D&S, Rolls Royce,
GE Aviation, Lockheed Martin,
Bombardier, BAE Systems,
Safran, GKN Aerospace,
Siemens, Raytheon, Meggitt,
Ametek, Spirit Aerosystems,
Moog Aerospace, Eaton
Aerospace, Babcock

Nasmyth Group is a world-class design, engineering, manufacturing and assembly solution provider to the Aerospace, Defence and allied markets. We specialise in low and high-volume machining for complex components up to 1.7m in length or diameter in aluminium, titanium, stainless steels, nickel and cobalt alloys, magnesium and non-metallic materials.

Our turnkey fabrication solutions are used to manufacture airframes, submarine components and other complex structures up to 8m x 4m and 20 tons in weight.

Clean room assemblies integrating both mechanical and electrical components can also be produced.

Areas of expertise:

Core capabilities and facilities across the Group Including:

- Precision Machining
- Processing and Surface Treatments
- Assembly & Testing
- Fabrication & Welding
- Machined Fabrications
- Heavy Fabrications
- Supply Chain Integration
- Design & Reverse Engineering
- Maintenance, Repair & Overhaul
- Low-cost Manufacture
- Low-cost Engineering support

Contact

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Address

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Coventry Road, Exhall, Coventry,
CV7 9FT
UK



Core Activities

Corporate Finance Advisory
Corporate Strategy
Management Consultant

Year established:

2020 in London, UK

Employee Number: 5

OXPERA is founded by a small group of experienced advisors combining more than 70 years of experience in the aerospace industry, strategy consulting and M&A Advisory.

- Our team advises **Aerospace & Defence** executives and shareholders across the UK and Europe in a number of areas including **corporate transactions, strategy and operational excellence**.
- Our Mission is to create a shareholders value and help create a more **resilient** and **competitive aerospace supply** in Europe by developing and executing growth strategies
- We work with suppliers, who require a more **personal support** during their corporate transactions. ***We work hands-on with the shareholders and the management teams acting as executive partners throughout the execution process***
- Our clients include **Small and mid – market suppliers** generating a revenue between €5mio – €100mio

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Contact

Mohamed Fawzy
Managing Director
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E: mohamed@oxpera.co.uk



ROLLS-ROYCE



Core Activities

Provide services and expertise to Airbus across their product line

Year established

1993 (Toulouse)

Employee Number

62 (Toulouse)

Annual Sales

10M€ (Toulouse)

Certifications

EN9100

Approvals

Part21 SubPartG

Pioneering the power that matters

Rolls-Royce pioneers cutting-edge technologies that deliver the cleanest, safest and most competitive solutions to meet our planet's vital power needs.

With the digital revolution blurring the boundaries between our physical products and the services we provide, we see a future where our engines are connected, contextually aware and even comprehending.

A future where we design and test engines digitally, service them remotely and manage them through their digital twin. A future where, once again, we are pioneering the power that matters, just like we have throughout our history.

Rolls-Royce Civil Aerospace is a major manufacturer of aero engines for the large commercial aircraft, regional jet and business aviation markets.

The business uses its engineering expertise, in-depth knowledge and capabilities to provide through-life support solutions for its customers, who operate 13,000 Rolls-Royce engines on 35 aircraft types.

Areas of expertise:

Around 200 Trent turbofans are delivered by Rolls-Royce to Airbus in Toulouse every year. The highly-capable team in Toulouse specialises in:

- Aircraft development support – ensuring engine development supports the requirements of new aircraft programmes.
- Sales and Marketing – co-ordinating activity with our key customer, Airbus, ensuring engines are sold to airlines worldwide.
- Engine delivery – working with partners in Toulouse to ensure high quality engines are delivered on time.
- Aircraft delivery - to support the Airbus production process in order to deliver aircraft on target

Christophe MOLUS

Senior Vice President – Airbus & Site Director

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Rolls-Royce Technical Support SARL

46 avenue Jean Monnet

31770 Colomiers

France



SAM Northern Ireland



Core Activities

Aerostructure and aeroengine component machining, treatments and sub-assembly

Year established

1984

Employee Number

2200+

Annual Sales

\$380M+

Certifications

SC21 Silver
AS 9100 Rev D
ISO 14001
ISO 45001

Approvals

Airbus, Rolls Royce, Collins
Aerospace, Bombardier
Aerospace, Safran, Thales, GE

Singapore Aerospace Manufacturing (SAM) are an established aerospace supplier supporting the world's major OEMs such as Rolls Royce, GE, Safran Nacelles and Pratt and Whitney. JW Kane, situated in Northern Ireland, became part of the SAM group in 2019 and their engineering expertise coupled with their proximity to Europe form a strategic part of SAM's growth plans in Europe and the US

SAM offers:

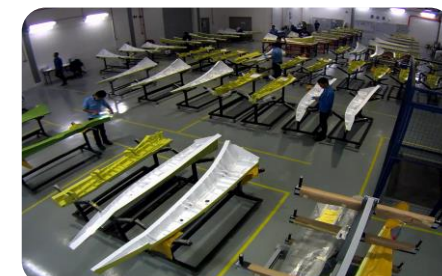
- Financial strength to invest
- Established aerospace supplier
- Aerostructure and aero engine machining, treatments and sub-assembly
- Engineering and operations expertise
- Inhouse special processing capability

Areas of expertise:

- Large aerostructure machining capability
- Special processing
- Sub assembly
- Soft and hard metal machining
- Hinge & latch beams
- Engine casings

Contact
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PORTADOWN BT63 5ZE
Northern Ireland



SIGMA PRECISION COMPONENTS Ltd

Core Activities

Pipe Assemblies
Ducting
Fabrication
Sheet Details
Sub-Assemblies
Precision Machining
Specialist Fasteners
Composite Pipes
Tooling
Polishing & Finishing
NPI (New Product Introduction)
Processing & Surface Treatments

Year Established 2004

Employee Number c400

Annual Sales \$35m

Certifications

ISO 9001, AS9100 Rev D, ISO 14001,
ISO 18001, NADCAP held for Welding,
Brazing, Heat Treatment, X-Ray and
Dye Penetrant Inspection

Approvals

Airbus, Safran, Rolls-Royce, Collins
Aerospace, BAE Systems, Bombardier,
GKN and many more...

Sigma is a leading manufacturer of rigid pipe assemblies, ducting, fabrications, sheet details, sub-assemblies, machined items, specialist fasteners, assembly and build fixtures for aerospace OEMs and Tier 1's. We also offer finishing and polishing services. With manufacturing facilities across the UK and China, we can also manage the supply chain on our customer's behalf, making the most of our local footprint to deliver lowest cost, lowest risk solutions at every stage of the product lifecycle.

Sigma also offers SigmaLite our weight reduction initiatives, taking weight out of the aircraft by deploying our lightweight technology such as composite tubes, driveshafts and lightweight end fittings.

Areas of Expertise:

- Supply Chain Integration
- Low-cost Manufacture
- Technology Innovation
- NPI, Prototyping & Reverse Engineering
- Complex forming & welding
- Using Soft & Hard Metals
- Rigid Pipe Assemblies & Ducting
- Fabrication & Sheet Details
- Sub-Assemblies
- Precision Machining
- Processing and Surface Treatments
- Polishing & Finishing
- Tooling

Contact
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SENIOR AEROSPACE



Core Activities

Fluid systems
Composite (Air conditioning)
Metal (EBU, Bleed, Hydraulic,
Fuel, Drain, Water, Hydrogen)

Structure

Engine & Nacelle component
(Hard metal large dimension)
Aero structure parts (Wing,
Fuselage, Pylon, Seats)

Employee Number

30 operations
13 countries
5800 employees

Annual Sales

£750M

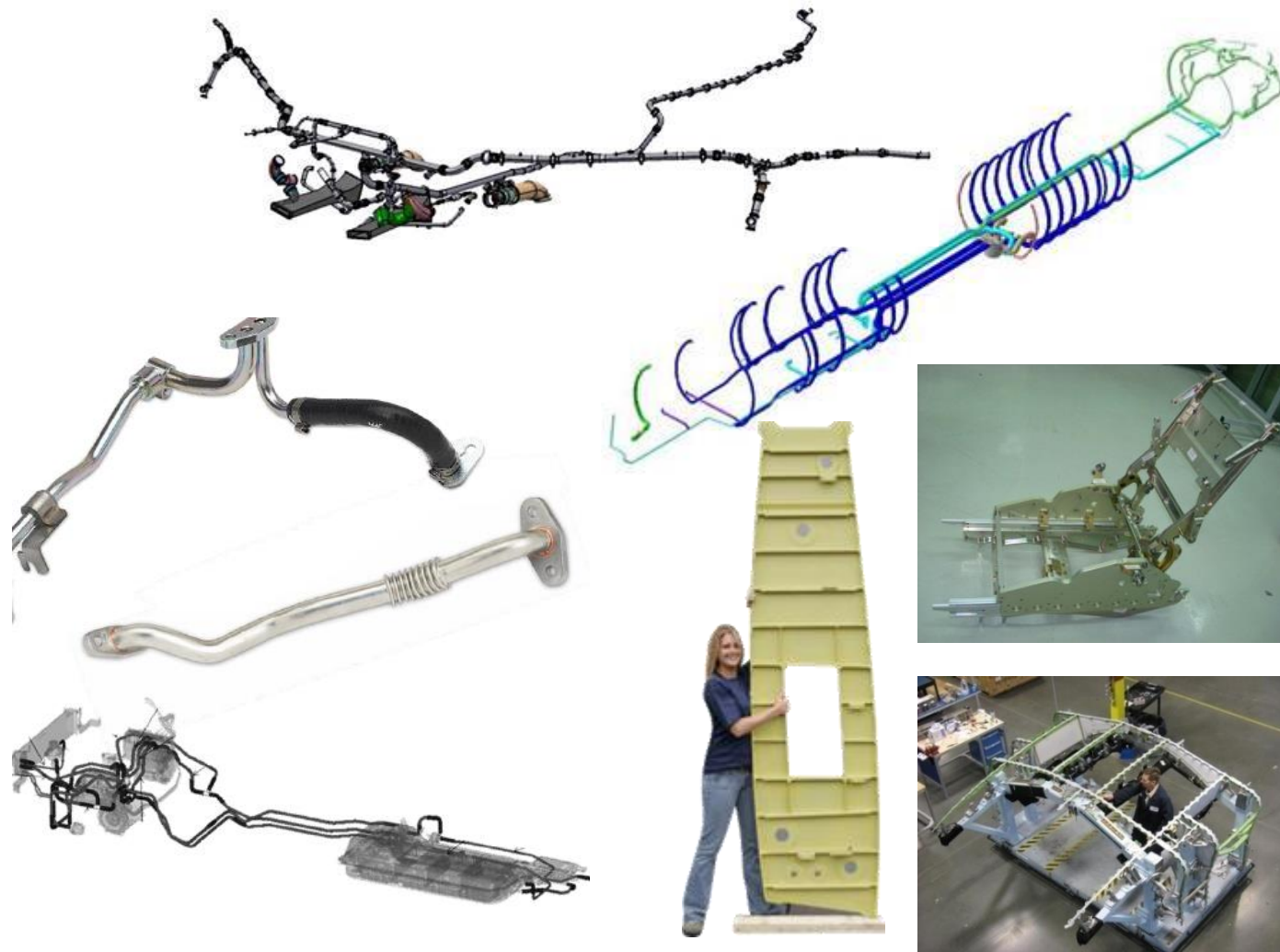
Approvals

All main Tier 1

Empowerment of autonomous, collaborative operations with an absolute commitment to safety, ethics and talent development. To be a trusted and collaborative high value-added engineering and manufacturing company producing sustainable growth

Areas of expertise:

- EBU & Bleed ducting
- Air conditioning ducting
- Hydrogen
- Design, testing and manufacturing
- Fuel Cell
- Detail parts hard, soft, short, long
- Assemblies
- Surface treatment



Contact
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PARKER LORD



Core Activities

Design
Manufacturing
Testing and Qualification
Maintenance and Repair

Year established

1924

Employee Number

3000+

Annual Sales

\$900M

Certifications

NADCAP
SAE AS9100:2001
ANSI/ISO/ASQ Q9001-2000
AS7114 Non-destructive Testing
AS7108 Chemical Processing
FAA-PMA
US Gov't DCMA

Approvals

FAA
EASA
CAA

Founded in 1924, LORD Corporation is a diversified technology and manufacturing company commercializing highly reliable adhesives, coatings, motion management devices and systems, and sensing technologies.

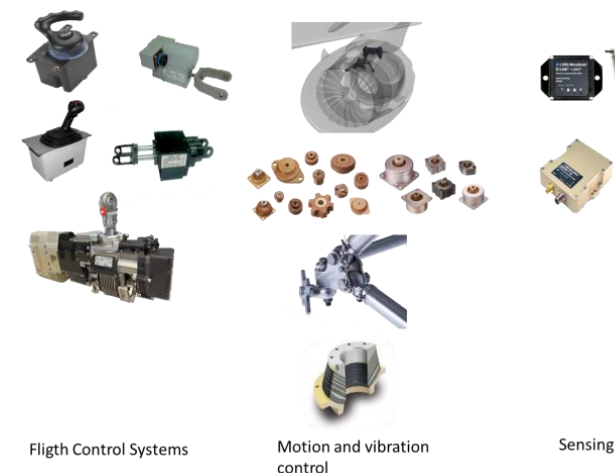
Since 2016 LORD has made the acquisition of Flight Control System technology (LORD Fly by Wire) with a manufacturing plant located in France.

Areas of expertise:

- Adhesives and coatings
- Industrial parts and assemblies
- Motion and vibration control technologies
- Encapsulants, thermal management compounds
- Sensing systems
- Flight Control Systems
- Engine & APU mounts

Contact
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Aéropole Bat 2
31700 Blagnac
France



Core Activities

Aerospace, Instrumentation,
Medical, Fabrication of
Enclosures and Trays, CNC
Batch Production of
Precision, Components,
Design and Development of
Manufacturing Solutions,
Laser Marking, Laser Welding,
Contract CMM Measuring

Year established

1998

Employee Number

90

Annual Sales

€10M

Certifications

ISO 9001
ISO 14001
ISO 13485
AS9100

Approvals

Bombardier

Takumi is a leading precision component manufacturing partner with the ability to develop products from concept, through prototyping and onto the full production run. Our expertise in CAM, coupled with an unrivalled skill set on our production floor, positions us as your partner of choice for Aerospace component manufacturing and assembly. Takumi has an excellent New Product Introduction process that enables us to work with prime contractors in the sub-supply of Aerospace program offloads.

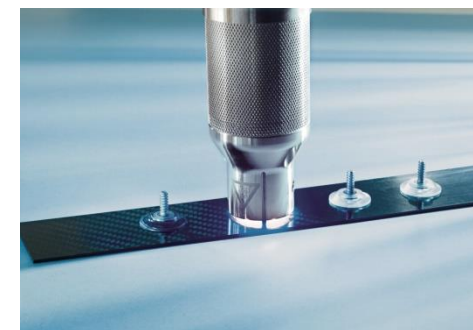
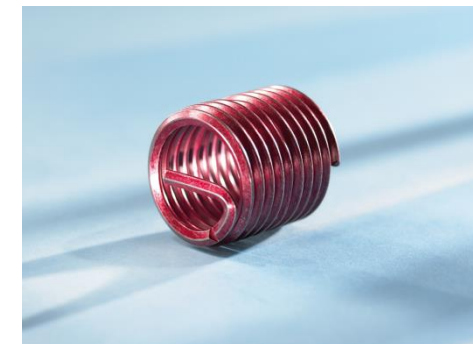
Areas of expertise:

- **CNC, CAM and CMM Competence:** Extensive expertise in the manufacture and assembly of low to medium volume precision aerospace components. Product portfolio concentrated on aluminum wing and fuselage components. Nature of these machined parts covers Butt-Straps, Shear Ties, Rib Posts and Splices & a wide variety of brackets.
- **Challenging Geometries:** Difficult 3D geometries parts many have challenging thin walled (1.5mm) designs, in line with the industry wide move towards lighter structures and greater fuel efficiency.
- **Machining Centres:** 12 four & five axis machining centres & seven CNC lathes. Takumi also possess Mastercam X6 and CATIA V5-6 R2012 and can accept models in all common industry standards including CATIA, IJES and STEP.
- **Inspection:** Employing best practice methodologies in inspection and review Takumi has 3 Mitutoyo CMM machines, with GEOPAK V3.3, as well as ENOVIA DMU Navigator & 3DVIA Composer. All inspection at Takumi is tailored towards model based inspection, in line with industry moves in this direction.
- **Review:** The business is driven by a fully integrated ERP system called M1.

Contact & Address

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info@takumiprecision.com



Tata Technologies Ltd. is the engineering services arm of the Tata Group

Active Regions around the World

Aerospace

14 Leading OEMs
6 Leading MROs

Employee Number

9,300+ Innovative professionals

12 Legal entities

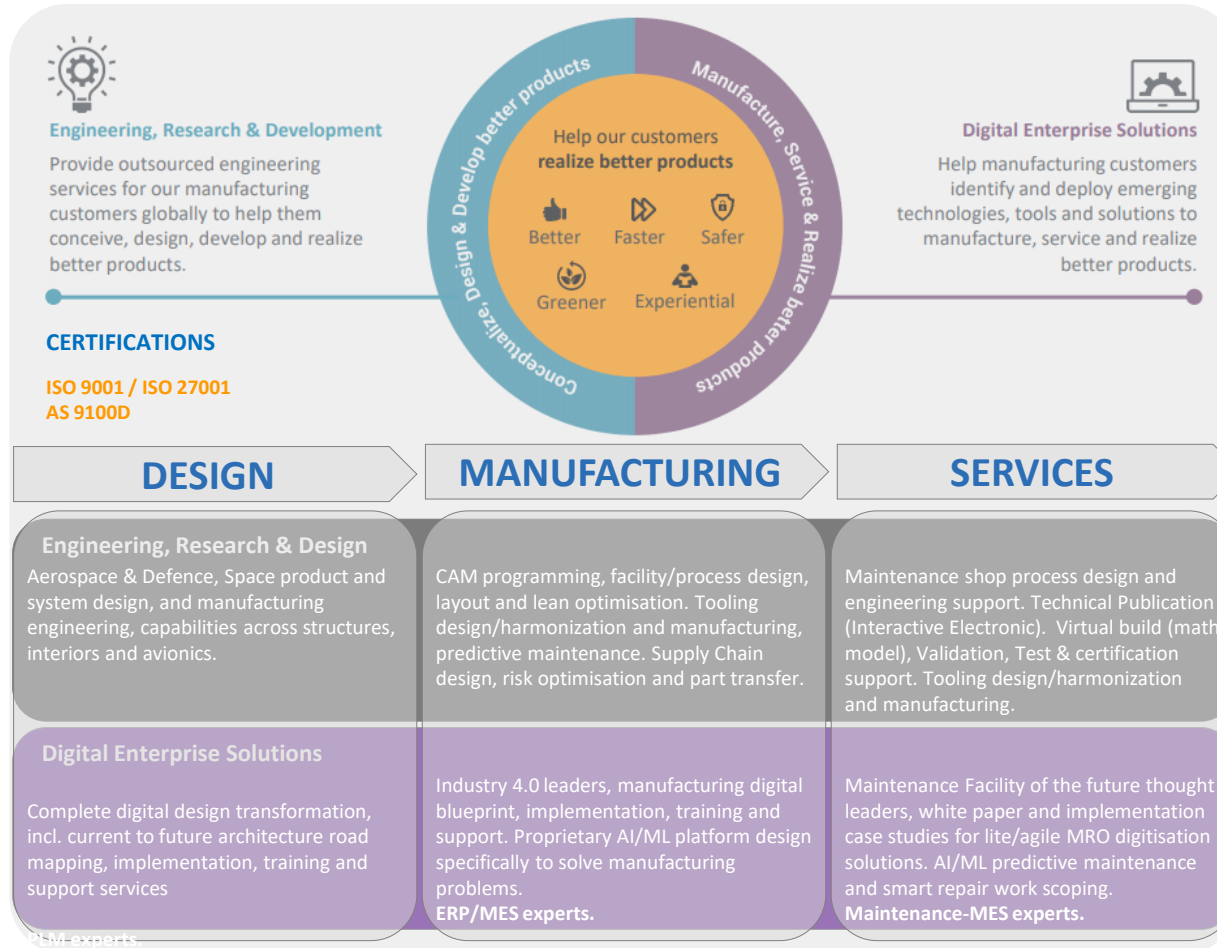
International Operations

18 Global Deliveries Centres

USA (Headcount: 370) – Detroit
Europe (Headcount: 1250) - Warwick (UK), Gothenburg (Sweden), Brasov, Craiova & Iasi (Romania) | **India** (Headcount: 7470) - New Delhi, Blue Ridge & Hinjawadi - Pune, Bengaluru, Thane | **China** (Headcount: 130) - Shanghai (China) | **SEA** (Headcount: 60) - Osaka (Japan), Bangkok (Thailand), Singapore

We pride ourselves on solving business challenges from the pragmatic lens of engineering and manufacturing. Partnering with our customers, our objective is to understand you and improve your long-term performance, by deploying proven and emerging technologies, tools and solutions.

Areas of expertise: Our Aerospace and Defence Solutions



Contact

Viren SOHAL

Associate Vice President, Sales

Aerospace, Defence, Industrial & Heavy Machinery - Europe

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Address

The European Innovation and Development Centre (EIDC)

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CV34 6RJ

Tel. +44 (0) 8443 759685

Core Activities

- Product Inspection
- FAI Recovery & Management
- APQP | PPAP
- Capacity & Capability
- Product Site Transfers
- Delivery Improvement
- Auditing and Assessments
- Precision Inspection Facilities
- Supply Chain Risk Management (SCRM)
- Recovery of Underperforming Suppliers.

Established in 1976; led by our CEO, Kathleen Boyle, the Verify Group is a **family owned** company.

European HQ established in the UK in **1998**

Worldwide network of experienced professionals

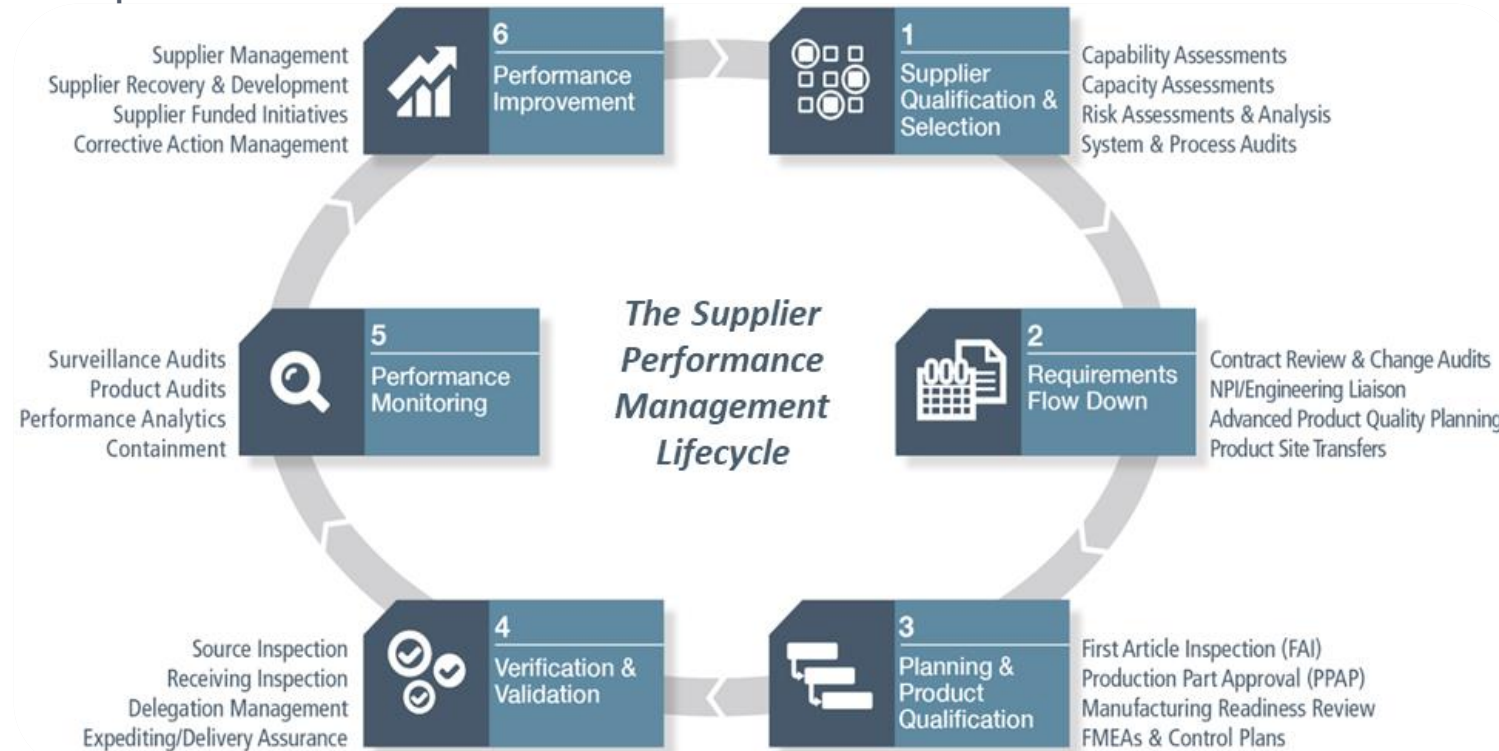
Supporting over **400 A&D customers**

Operating in more than **50 countries** and **7,000 supplier sites**

Since our inception, Verify's primary objective it to collaborate with our customers and their supply chain to pursue our vision of **A WORLD WHERE SUPPLY CHAIN RISK IS ELIMINATED AND QUALITY PRODUCT IS DELIVERED ON TIME.**

Verify's unique **Supplier Performance Management (SPM)** capabilities combine to create powerful cost-effective, value-add solutions. Our worldwide network of experienced professionals provides the following Risk Management, Quality Assurance and Delivery Assurance support.

Areas of Expertise:



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People

Technically proven and qualified professionals ensure the right person for every task



Process

Best practice standard operating procedures consistently provide process control and optimization



Platform

Online Supplier Performance Platform provides real time project status, results and analytics



Facilities

Secure, outsourced facilities available at each Verify office and other strategic locations

ADS TOULOUSE Members Core Capabilities

COMPANY NAME	Composites	Design & Stress Engineering	Logistics	Materials Supply	Metal Forming	Precision Machining	Cabin Seating Safety	Structures Wings	Tooling	Treatments	Castings	Research training	Defence	Space
AEROMET				X		X		X	X	X		X	X	X
ALA Corporation			X	X					X					
BOXARR		X	X	X				X	X			X	X	X
CASTLE METALS			X	X									X	X
CYIENT		X				X	X	X	X				X	
DARCHEM Engineering	X	X	X		X			X	X	X	X		X	X
GARDNER Aerospace			X	X	X	X		X	X	X			X	
GKN Aerospace	X	X	X			X		X					X	X
HYDE AERO Products		X			X	X		X	X	X		X	X	X
IFA				X	X	X		X		X			X	X
KAMAN	X	X			X	X		X	X	X			X	X

ADS TOULOUSE Members Core Capabilities

COMPANY NAME	Composites	Design & Stress Engineering	Logistics	Materials Supply	Metal Forming	Precision Machining	Cabin Seating Safety	Structures Wings	Tooling	Treatments	Castings	Research training	Defence	Space
LORD Corporation		X		X					X				X	X
MAGELLAN Aerospace Ltd	X	X	X	X	X	X		X	X	X			X	X
MAYCAST-NOKES				X	X	X			X	X	X	X	X	X
MSM					X							X	X	
NASMYTH Group		X			X	X	X	X	X	X			X	X
ROLLS-ROYCE		X	X			X			X	X		X	X	
SAM Aerospace				X		X		X	X	X	X			
SIGMA Precision Components Ltd	X				X	X		X	X	X			X	
SENIOR AEROSPACE	X	X			X	X		X		X			X	X



Contact

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