



Toulouse

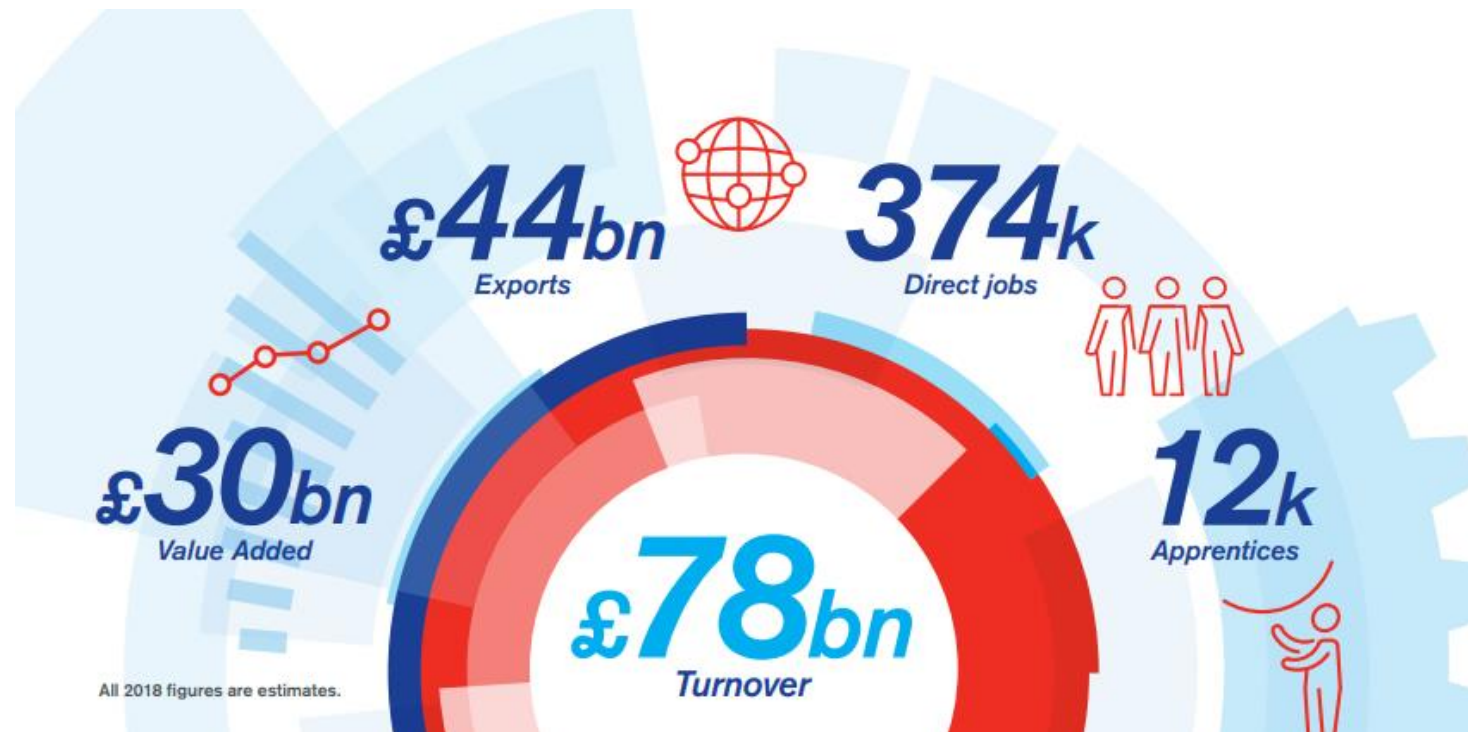
Working for our members

ADS TOULOUSE MEMBERS CAPABILITIES

**ADS Toulouse
2020**

UK Industry facts & figures 2019

- > Major contribution to UK jobs, skills, exports & growth
- > In 2018 the UK aerospace, defence, security and space sector's contribution to the UK was:



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 2020 – 29 companies



AERO FASTENER



Core Activities

Supply Chain Management
Products & Tooling Distribution
Aerospace Logistics

Year established

1982

Annual Sales

\$20M

Certifications

AS9120:2016
EN9120B:2016
JISQ9120:2016 ISO9001:2015

Approvals

SPIRIT AEROSYSTEMS Ltd
STELIA AEROSPACE
AIRBUS SAS
MILLENNIUM CONCEPTS
TRIUMPH
AEROSTRUCTURES AVIC
SAC Ltd
IAI Israel
GULFSTREAM
LUFTHANSA TECHNIK AG
GOODRICH
AEROSTRUCTURES – ASIA
ST AEROSPACE
ENGINEERING US
GOVERNMENT
HAWKER BEECHCRAFT

Aero Fastener Co Inc has over 35 years of experience in the supply of fasteners and fastening systems in addition to seals, electrical components, adhesives and solvents for the aircraft industry. With over 25,000 certified parts in stock and access to 125,000 more, Aero Fastener support OEM's, tier 1 & 2, MRO's and Airlines. Long-standing relationships with leading OEM's has led to direct line feed contracts, kitting services, inventory management systems and the supply of pre-filled production assembly templates. With offices around the globe and warehouses in the U.S. and Europe, pricing is competitive and same day shipping is standard. Registration on our website enables real-time inventory searching and shipment tracking.

Areas of expertise:

- Inventory Management Services - including Kanban & Kitting
- Direct Line Feed
- Consignment Stock Management
- Delivery direct to production line and production assembly template management
- Vendor Management

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European Logistics Centre
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ALA Corporation



Core Activities

Products distribution
Supply chain management
Material planning
Logistics for Aerospace

Year established

1986

Employee Number

240

Annual Sales

€135M

Certifications

EN9120/AS9100

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, machined components, connectors, indirect materials, drawing parts and non-metallic panels, spare parts.

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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France

ASG Group

Core Activities

Aerostructure & Aeroengines

The manufacture of mill turn components, complex 5 axis (up to 4m) in both hard and soft materials & assembly

Design & Tooling

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

Year established

2019

Employee Number

350+

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

ASG Group consists of an aerospace & tooling division. The seven companies within our group have extensive experience working within the Aerospace division, working with all major OEM & sub tier companies. With an ever-expanding global footprint, the groups strategic intent is to develop & deliver 'Aerospace Group Capability' in both tooling & manufacturing; be global market compliant & be flexible to both tactical & strategic demands. With over 125 CNC machines across the division & the ability to invest in latest machine tool technologies we can increase capacity & production efficiencies to suit our customer requirements & keep up with the evolving market. Our tooling division offers full turnkey solutions and specialize in the design and manufacture of large invar layup tools for composite airframes, jigs & fixtures & transportation media. Repeat business is the ultimate accolade of any business and we are proud to say that we continually attract further business from existing customers. This is down to our quality, delivery and competitive pricing

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
- 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.

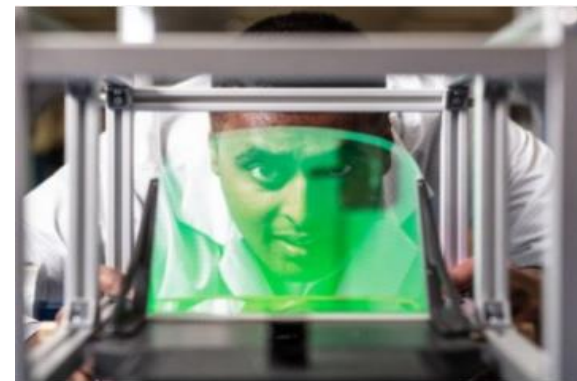
The company also provides world-leading aftermarket support and in-service repair for aircraft fleets around the globe and delivers innovative propulsion and power management systems to markets across Europe.

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

Contact

BAE Systems
Marconi Way
Rochester
Kent
ME1 2XX
UK



Core Activities

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

Year established

1877 in Herdecke, Germany

Employee Number 3000

Annual Sales €620 M in 2017

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.

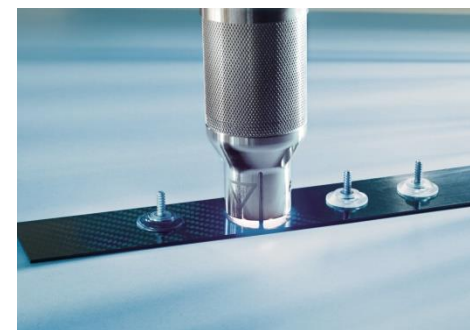
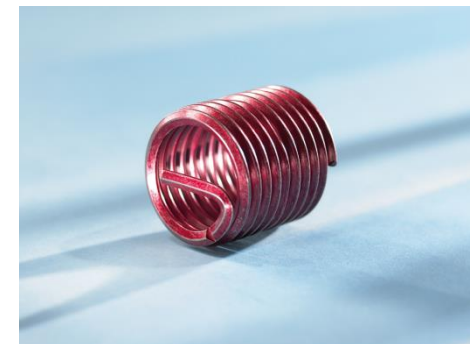
Bollhoff is represented by own distribution facilities and production sites in 24 countries on all continents.

Areas of expertise:

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

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BOXARR



Core Activities

BOXARR is a unique software solution for solving complexity in supply chains, business processes and product systems

Year established
2003

Employee Number
20 + Alliance Partners

Annual Sales
€5M

Certifications
Cyber Essentials

Approvals
Approved for production deployment at several global aerospace OEMs

Conceived from a collaboration between Rolls Royce Plc and the University of Southampton, BOXARR delivers scalable applications that solve complex systems of inter-dependency.

Customers realising benefit from BOXARR now include Airbus, Boeing, Safran, RR, Siemens, Deloitte, MoD, the US Navy and many others. Simplifying the complex, BOXARR's software highlights the risks and opportunities hidden within supply chains, business processes and product systems.

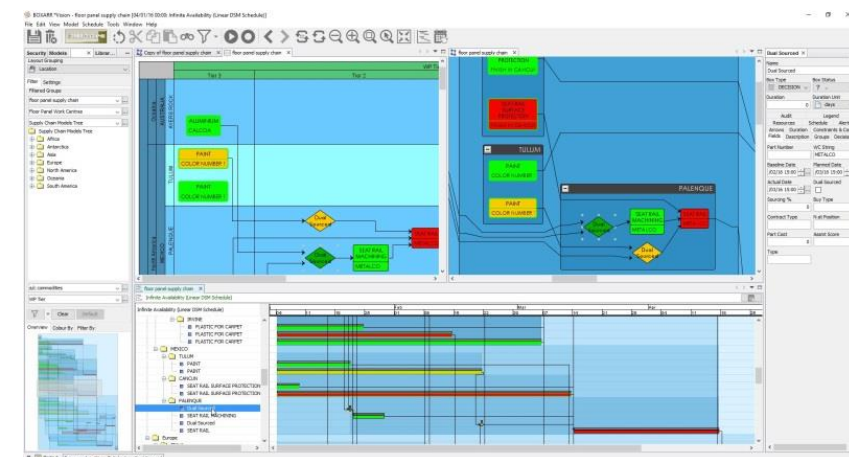
Manufacturers using BOXARR gain much deeper visibility to mitigate risks, reduce unnecessary costs, design-in resilience and respond quickly to disasters or opportunities. Innovative and unique, no other solution enables organisations to understand their business processes, release value and mitigate risks in this manner.

Areas of expertise:

- Business process planning, management and lean improvement
- Data intelligence aggregation
- Joint operations methodology
- Mission/program planning & execution
- Production process planning and rate improvement
- Supply chain mapping, modelling, analysis and improvement
- Systems design & engineering

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UK



CASTLE METALS Aerospace



Castle Metals®

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

\$771M in 2015

Certifications

ISO9001
EN9100

Approvals

AIRBUS / BOEING / UTAS /
SAFRAN / DASSAULT / 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 3 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

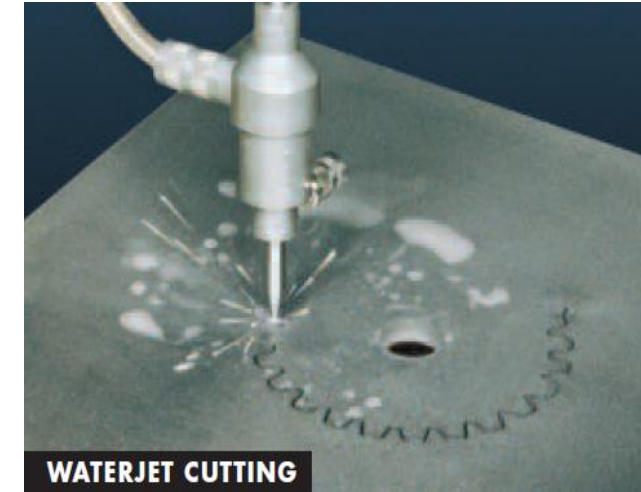
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65380 LANNE
France



WATERJET CUTTING



ALUMINUM PLATES SAWING

Core Activities

Product and process engineering
Product and system design led manufacturing
Geospatial services

Year established

1991

Employee Number

15 000+

Annual Sales

660MUSD in FY19 (ending March 31st 2019)

Certifications

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

Approvals

FAA approval to make some parts (PMA)
MIDO approvals
ACO data approvals

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 28 years of service, Cyient is in the business of solving problems, and 98% 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.

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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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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 conditions.

With 240 years of experience, this agile group is constantly developing its expertise to best serve OEMs in the aerospace, industrial gas turbine and specialist automotive markets.

Core areas of expertise 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:

Continuously cast superalloys, air and 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



Turbine Airfoils

Manufactures DS, SX & equiax blades and vanes for the hot end section of aerospace & IGT engines

Key Products:

Blades and vanes from stages 1 through 4 of the hot end section of IGT engines and aero engines



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

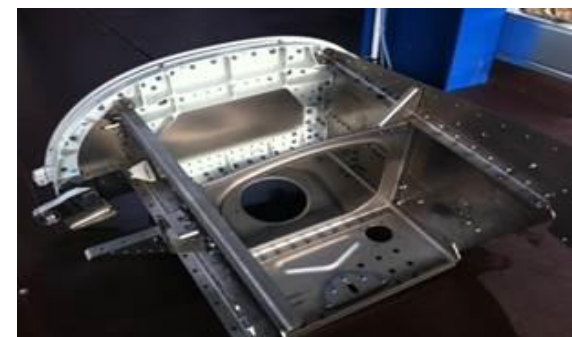
Gardner is one of the aerospace industry's largest and most diverse manufacturers of finished machined and fabricated Detailed Parts made from hard and soft metals.

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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HYDE AERO PRODUCTS Ltd

Core Activities

Integrated design & manufacture specialist

Precision manufacture of complex components in Soft and Hard Materials

Present in Aerospace, Nuclear, Automotive, Defence & Space, Mining and Scientific.

Rapid integrated product teams.

Year established 1968

Employee Number 1250

Annual Sales £120M

Certifications

AS9100 Rev C, BS EN 9100:2008, BS EN ISO 14001, BS EN ISO 9001:2008, OHSAS 18001, NADCAP approvals held for chemi-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

Leading engineering service provider that specializes in design and manufacture solutions. Offering a complete range of services from discrete work packages to full turnkey solutions, Hyde is trusted by the world's most prestigious OEMs and tier one suppliers across multiple engineering sectors.

Our services include concept, design services, comprehensive stress analysis, all aspects of design approval to support the design and manufacture of components, integrated structures, tooling, special purpose equipment and test equipment. We have the capability to deliver flexible services that range from rapid-response speed shop through to long-term support contracts.

Areas of expertise:

- Machining Soft and Hard Metals
- Turning / Mill Turn / Thread Rolling
- Fabrication Soft and Hard Metals
- Design & Stress
- Surface Treatments (including Tartaric Sulphuric Acid Anodise)
- Assembly

Engineered to Deliver / Empowered to Delight

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IFA (Independent Forgings & Alloys)



Core Activities

Manufacturer of titanium, nickel, cobalt, copper, iron and steel based alloy forgings produced to near net shape of final component

Seamless rolled rings, rotary forged bars and shafts, hammer and press forged bars, blocks, rings, discs & blanks
Heat treatment, testing, machining, inspections, delivery

Year established 2001

Employee Number 159

Annual Sales £23.4M

Certifications

AS9100 Rev C, BS EN 9100:2008, BS EN ISO 14001, BS EN ISO 9001:2008, OHSAS 18001, NADCAP approvals held for chemi-processing, heat treatment, welding, NDT including X-ray and dye penetrant inspection, Tartaric Sulfuric Anodise

Approvals

Major International Aerospace OEMs: Airbus, BAE Systems, Rolls Royce, Safran, etc.

IFA is a premium supplier of high integrity forged products to quality markets globally. They have created a fully integrated metals service centre which has grown to be a leading provider of quality open die forgings, making safety critical components in service conditions from the deepest oceans to outer space.

Their forging is complemented by their UKAS & NADCAP accredited IFA Technology centre and NADCAP accredited heat-treatment facilities, which along with their machining centre allows the complete in-house controlled processing of raw material to neat net shape semi finished components.

They participate in the growing sectors of Aerospace, Energy, Oil and Gas and Power Generation (including Nuclear) and high-end Advanced Engineering.

Areas of expertise:

- Work closely with customers to problem solve and optimize supply
- Highly skilled, technically experienced partner for forging Titanium, Nickel and other Aerospace alloys
- Flexibility of supply – Sizes/Lengths/Quantities/ Destinations
- Fast track specialised deliveries and volume contract deliveries
- Fully integrated one-site process flow

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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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KAMAN UK Ltd



Core Activities

Complex Aerostructures
Composite & sheet metal parts
CNC machined parts
Treatments – PFD, CAA, Paint
Extensive In-house labs
Ground Support Equipment
Kits, sub-assembly and assembly
Spares and repairs – 21G, 145

Year established

Established in 1951 as
Brookhouse Holdings, acquired
by Kaman Corporation in 2008

Employee Number & Annual Sales

265
£30M

Certifications & Approvals

ISO9001, AS9100 Rev D
EASA Part 21G, EASA Part 145
NADCAP AS7118
(Composites), AS7122 (Non
Metallic Material Testing),
AS7108 (Chemical Processing),
AS7114 (Non Destructive Test)
Customer Process Approvals for
BAE Systems, Airbus, Safran,
GKN Spirit, Raytheon, Rolls
Royce, IAI, MBDA

Kaman UK offers a vertically integrated manufacturing service of aerostructures and aeroengines for the Aerospace & Defence sector. Our extensive facilities include six autoclaves, with the largest measuring 13m in length by 3.5m wide, 300 sqm of clean room for lay up, an Airbus approved in-house laboratory, NDT facilities, comprehensive sheet metal fabrications facilities, spray booths, dedicate assembly areas and a recently commissioned fully automated treatments line.

We manufacture composite structures in-house, along with metallic fabrications and CNC machined parts and can offer our customers a 'plug and play' assembly direct to their FAL.

Areas of expertise:

Composite & Metallic Structures, Kits & Assemblies to OEM's and Tier 1's in Civil and Military Aerospace, including –

- Composite structural components and assemblies
- Fabrication of soft and hard metals
- CNC machined parts
- Parts, Kits, Sub-Assemblies and Assemblies combining composite and metallic structures with associated systems and treatments
- In-house treatments including PFD, chromic acid anodise, NDT, primer and top coat paint
- Ground Support Equipment
- EASA approved spares and repairs
- Wing control surfaces and Fuselage panels (monolithic and sandwich)
- Ailerons, Winglets, Rudders, Doors
- Wing Access Covers, Flap Track Top Covers
- Engine and Thrust Reverser Panels
- Missile structures, casings and wings

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Contact

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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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MAYCAST-NOKES Precision Engineering

Core Activities

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

Year established
1969

Employee Number
150

Annual Sales
£6.8M

Certifications
NADCAP NDT (Xray)
NADCAP Heat Treatment

Approvals
ISO9001:2008
AS9100 REV C



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 two foundries we operate a simultaneous 5-axis equipped machine shop and our extensive in-house facilities include heat treatment, metallurgy labs, non-destructive testing (PFD, X-Ray) and pattern shops.

Areas of expertise:

- Investment/Lost wax casting
- Precision sand casting
- Gravity die casting
- Machine shop
- Radiography
- PFD
- Heat Treatment
- Pattern shop

Contact

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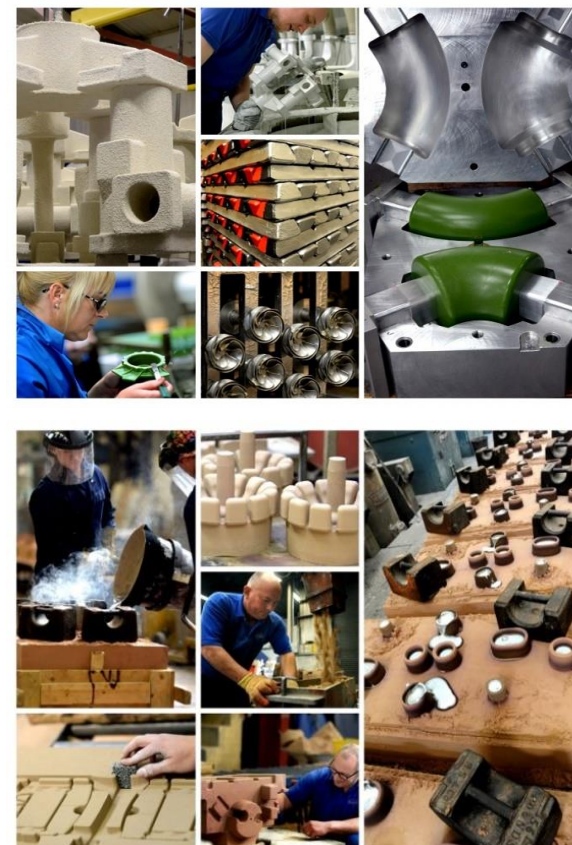
Maycast-Nokes Precision
Engineering Ltd
Factory Lane West
Halstead, Essex
CO9 1EX, United Kingdom



TOP 100
APPRENTICESHIP
EMPLOYER
— 2016 —

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**aerospace
fabricators**

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

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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 800

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 was established in 2003 following the acquisition of Bulwell Precision Engineers Ltd and Metal Process Services Ltd. 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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Core Activities

Provide services and expertise to Airbus across their product line

Year established

1993 (Toulouse)

Employee Number

102 (Toulouse)

Annual Sales

15M€ (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 400 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

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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
OHSAS 18001

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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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 750

Annual Sales \$65m

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:

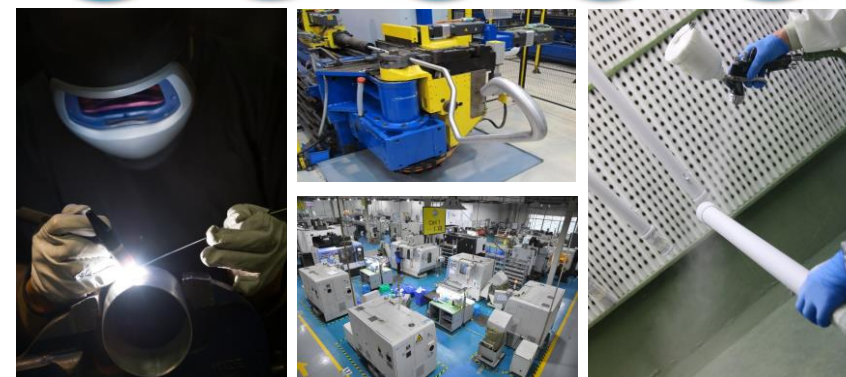
- Supply Chain Integration
- Low cost Manufacture
- Technology Innovation
- NPI, Prototyping & Reverse Engineering
- Complex forming & welding
- Using Soft & Hard Metals
- Rigid Pipe Assemblies & Ducting
- Fabrication & Sheet Details
- Sub-Assemblies
- Precision Machining
- Processing and Surface Treatments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

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SENIOR AEROSPACE



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
- Design, testing and manufacturing
- Detail parts hard, soft, short, long
- Assemblies
- Surface treatment

Core Activities

Fluid systems
Composite (Air conditioning)
Metal (EBU, Bleed, Hydraulic, Fuel, Drain, Exhaust...)

Structure

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

Employee Number

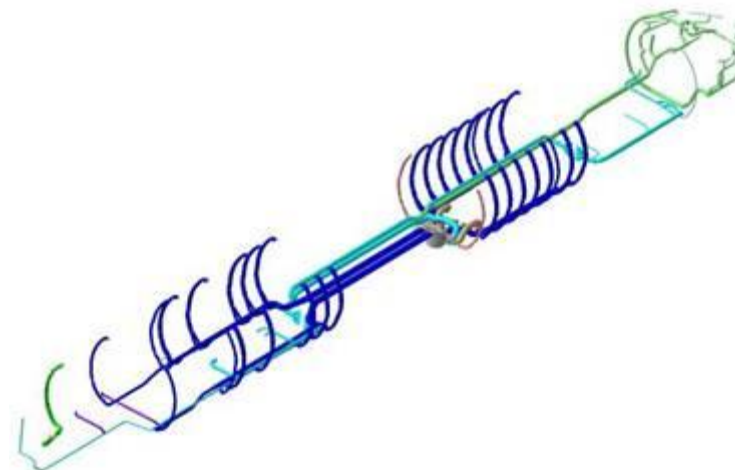
33 operations
14 countries
>7400 employees

Annual Sales

£917M

Approvals

All main Tier 1



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.

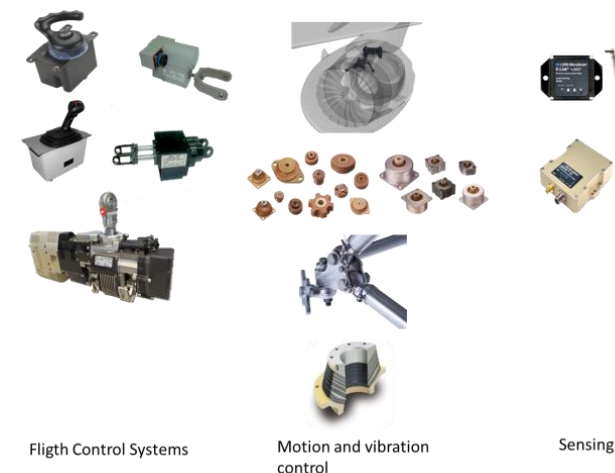
Since 2016 LORD has made the acquisition of Flight Control System technology (LORD Fly by Wire) with a manufacturing plant located in France.

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

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TAKUMI PRECISION ENGINEERING



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

95

Annual Sales

€10M

Certifications

SO 9001, ISO 14001, ISO 13485 and AS9100

Approvals

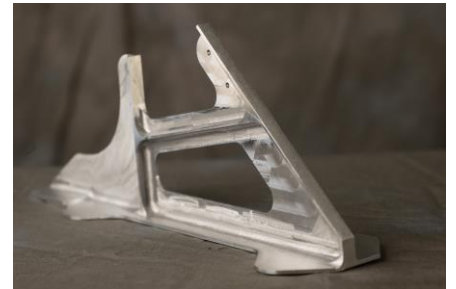
Bombardier

Takumi Precision Engineering is a leading precision component manufacturing partner with the ability to develop products from concept, through prototyping and onto the full production run.

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 Precision Engineering 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.



Verify Europe serves quality critical industries where quality product being delivered on-time is key. As part of the Verify Group of companies, we are the leading provider of Supplier Quality, Supply Chain Management and Technical support solutions within the aerospace, defence and other high technology markets.

Verify Europe offers customers the following comprehensive and customisable range of supplier quality, supply chain management and technical support services - all proven to increase quality, delivery and business performance while also reducing costs.

- Regulatory Audit: Examination of supplier systems, processes and procedures to determine compliance with a regulation or law.
- Supplier Survey: Examination of supplier activities to confirm initial or ongoing compliance to customer performance, quality or schedule requirements.
- Product Audit: Detailed inspection and audit of all processes used to manufacture a particular product to ensure the ability to consistently deliver compliant products.
- Special Process Audit: Evaluation of a specific process to ensure it conforms to written procedures and workmanship standards.
- Quality System Audit: Examination of a complete system or sub-system to determine whether activities and results comply with quality management standards and are implemented effectively to achieve all objectives.

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										
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
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



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