



Northern
Ireland

Front cover image courtesy of Bombardier Aerospace
Belfast - C Series Wing - designed, developed,
manufactured and assembled in Northern Ireland.

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Northern Ireland Aerospace

A leading aerospace region

Northern Ireland is a global leader in aerospace technology. It has a dynamic, rapidly growing international aerospace industry founded on a strong engineering heritage and rich in knowledge, skills and experience.

Major aerospace corporations depend on Northern Ireland's reliable supply chain to provide quality high value-added products and services cost-effectively and on time using excellent logistical services.

Airbus, Boeing, Bombardier, Embraer, BAE Systems, Spirit AeroSystems and GKN Aerospace are among the OEMs and Tier One firms currently working with Northern Ireland Aerospace.

International investors successfully operating in the region include BE Aerospace, Bombardier, Magellan and Thales.

Why Northern Ireland?

Northern Ireland Aerospace is a \$1.6bn industry and is Europe's eighth largest aerospace region in revenue terms, with over 60 companies employing over 8,500 people.

These companies are engaged at the leading edge of advanced aerospace design and manufacturing. Every major commercial aircraft programme depends on structures, components and expert services from Northern Ireland.

Northern Ireland Aerospace offers:

A reliable supply chain with expertise in key technologies including

- Precision machining
- Composites design and manufacturing
- Advanced metal forming

- Seating and interiors
- Design and stress
- Tooling design and manufacturing

Opportunities for right sourcing

- Major ongoing company investment in technology, people and R&D to support expanding production rates
- Proven ability to ramp up quickly - companies have successfully doubled output in two years
- Ability to support new programmes - demonstrated by the new Bombardier CSeries Wing Programme
- Established, successful supply chain quality system – SC21
- Focus on reducing cycle times and driving improvement through lean and innovation in the production system
- Increasing supply chain collaboration
- Low risk, culturally compatible environment

Approvals and accreditations

- Northern Ireland companies hold internationally recognised aerospace approvals and accreditations including AS9100, ISO9001 and NADCAP

Access to a highly educated and skilled workforce with a strong work ethic

- World-class universities and an extensive network of further education colleges provide excellent academic and vocational training
- 77% of high school graduates (post A-level) go on to further and higher education, compared to a UK average of 71%

- Northern Ireland candidates consistently outperform those from other UK regions at GCSE & A-level examinations
- In a recent international survey, Northern Ireland was described as an 'educational superpower' scoring top in primary math education in Europe and 4th in the world
- Northern Ireland has one of Europe's youngest populations – 55% of the population is under the age of 40

Close networking between industry, government and academia

- Strong partnership between academia, industry and government drives skills development in the region
- Regular communication between companies, universities and government departments ensures that courses meet industry needs
- Skills conversion programmes have been created to expand the talent pool

Access to and support from government

- Aerospace has been identified as a priority sector in Northern Ireland's Programme for Government
- The UK government and industry have committed a total of \$3.9bn for aerospace research from 2013 to 2026, to be delivered through the Aerospace Technology Institute (ATI)

Cost efficient location

- Corporation tax rate of 20%, the joint lowest in the G20. From April 2018 Northern Ireland will have a rate of 12.5%.

Northern Ireland

Location & Key Facts



Northern Ireland is part of the United Kingdom and the European Union

- Ideally situated between the mainland, Europe and the U.S
- Population – 1.8 million
- Three airports – daily flights to European business centres, Great Britain and the U.S
- Modern road and rail network
- 100-gigabyte per second transatlantic link between Northern Ireland, Europe and North America
- The highest availability of superfast broadband in the U.K



ADS is the premier trade organisation advancing the UK Aerospace, Defence, Security and Space industries. Farnborough International Limited, which runs the Farnborough International Airshow, is a wholly-owned subsidiary. ADS has 900 member companies. ADS Northern Ireland represents members in the region and works closely with Invest NI to grow the industry.

Areas of expertise:

- Promotion of the Industry - Improving the image and profile of the industries
- Industrial Policy - Influencing the policy debates of most importance to the industries
- Quality Standards - Supporting UK manufacturing and the industries' supply chains
- Encouraging investment in technology and innovation
- Providing Member value - Supporting business development opportunities nationally and internationally through trade events and missions



ADS Group Ltd

Core Activities

National Trade Association for the Aerospace, Defence, Security and Space Industries

Year Established

2010

Employee Number

51 - 249

Annual sales

\$1 - \$5m

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BT3 9DZ



www.amfni.com

Aerospace Metal Finishers provides a turnkey package of testing and metal services.

Areas of expertise:

- Harness testing and electrical conductivity testing of raw materials
- Non-destructive testing, including both magnetic and fluorescent dye immersion
- Treatment processing anodising, chromic, sulphuric, hard, boric-sulphuric & tartaric-sulphuric
- Paint processing, including prime under-coat and top coat processing
- Parts identification processes



Aerospace Metal Finishers Ltd

Core Activities
Non-Destructive Testing and
Finishing Material Treatments
for the Aerospace Industry

Year Established
2002

Employee Number
51-249

Annual sales
\$1-\$5m

Certifications
NADCAP Chemical Processing
NADCAP NDT, ISO 14001:2004
AS 9100 Rev C, ISO 9001:2008

Approvals
Bombardier Aerospace, Airbus,
Boeing, MOOG, Thales

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www.aerosubs.co.uk

Aerosubs Ltd

Core Activities

Manufacture of aerospace sub-assemblies

Year Established

1997

Employee Number

<50

Annual sales

\$1 - \$5m

Certifications

FM 70927

ISO 9001:2008

Aerosubs provides specialist solutions in the manufacture of aerospace sub-assembly products.

Areas of expertise:

- Installation of all forms of aerospace fasteners
- Installation of bushes and bearings
- Material bonding
- Product testing and approval



Contact

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BALLYMENA

BT42 3AZ



ALL METAL SERVICES

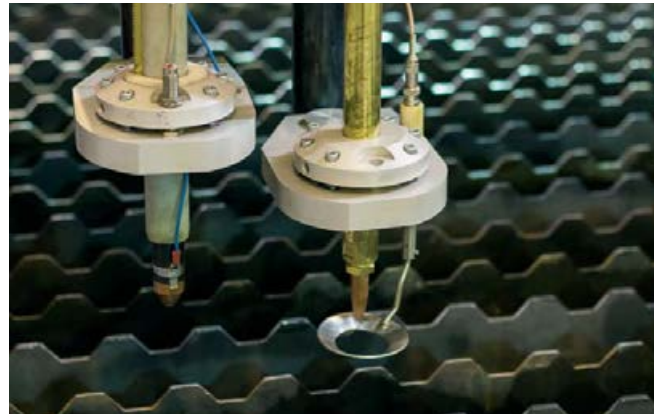
All Metal Services is the largest, independent raw materials service provider to the Aerospace & Defence industries.

All Metal Services offers total supply chain management systems for the aerospace and defence sectors.

Areas of expertise:

- Material management solutions
- Plate and bar cutting service, offering cut to size billets
- Stocks of aluminium, steel, titanium and alloys
- Five UK and four international sites

www.allmetal.co.uk



All Metal Services Ltd

Core Activities

Raw material and supply chain management

Year Established

1974

Employee Number

<50 (at Belfast)

Annual sales

\$10m+

Certifications

ISO 9001:2008

AS 9100

AS 9120

Approvals

Bombardier Aerospace, MOOG,
Airbus, Agusta Westland,
BAE Systems Military,
BAE Systems Civil (regional)

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22 Heron Road

BELFAST

BT3 9LE



www.axis-composites.com

Axis Composites Ltd

Core Activities

3D weaving of textile composites
RTM moulding

Year Established

2010

Employee Number

<50

Annual sales

<\$1m

Axis Composites primary goal is to commercialise 3D woven Carbon Fibre preforming, research and advanced manufacturing techniques.

Areas of expertise:

- The company's focus is on all aspects of modern composite technology
- Assisting and collaborating with clients in the design and development of labour saving 3D woven Preforms
- Production of technically advanced structural composite components
- Manufacturing solutions and development programmes to produce advanced composites for a broad spectrum of industries
- These include Aerospace, Automotive, Ballistic, Construction, Mass Transport, Medical, Marine, Renewable Energy and Sports



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BT3 9DT



www.basegroup.co.uk

BASE has been providing illuminating answers to the European and US Aerospace market since 2000. BASE is renowned for airframe structural design and analysis, serving many of the biggest names in aerospace and defence and designing structures in both metallic and in composite materials to solve challenges of safety, cost and delivery.

Areas of expertise:

- Analysis and light weighting of aeronautical structures
- Specialising in design and analysis of metallic and composite structures
- Product design of structures and systems using Catia V4/V5
- Finite Element Analysis simulation using MSC Nastran/Patran
- Niche analysis capabilities including: durability and damage tolerance, vibration and flutter analysis and impact



Belfast Aircraft Stress Engineers Ltd

Core Activities

Engineering Design & Development
including stress analysis

Year Established

2000

Employee Number

<50

Annual sales

\$1-\$5m

Certifications

AS9100C
ISO 9001:2008

Contact

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Northern Ireland Science Park
Queen's Road, Queen's Island
BELFAST
BT3 9DT



B/E Aerospace designs, develops and manufactures a broad range of products for both commercial aircraft and business jets.

Areas of expertise:

- Aircraft cabin seating
- Lighting systems
- Oxygen systems
- Food & beverage preparation and storage equipment
- Cabin interior reconfiguration, programme management and certification services



B/E Aerospace UK Ltd

Core Activities
Aircraft Seating

Year Established
1987

Employee Number
250+

Annual sales
\$10m +

Certifications
AS 9100
ISO 9001
ISO 14001
ISO 50001
ISO 22301
OHSAS 18001

Approvals
Boeing, Airbus, Sukhoi

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BT34 4NG



www.belfastmetcomposites.com

Belfast Metropolitan College provides a range of consultancy and training services to the composites industry.

- Technical training from shop-floor to Masters Degree modules
- Product design and manufacture
- Process optimisation and troubleshooting
- Access to funding
- Support to local aerospace industry
- Consultancy

Areas of expertise:

- Design for manufacture
- Pre-preg and autoclave curing
- Infra-red curing
- Resin infusion
- Training



Belfast Metropolitan College

Core Activities

Training
Consultancy
Manufacturing

Year Established

1906
Rebranded Belfast
Metropolitan College 2007

Employee Number

250+

Contact

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Address

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BT1 1HS



www.blueeagleprecision.com

Blue Eagle Precision Ltd

Core Activities
Precision Engineering

Year Established
1999

Employee Number
<50

Annual sales
\$5-\$10m

Certifications
ISO 9001
AS 9100

Blue Eagle Precision specialises in precision components for the aero-seating market offering:

- Precision engineering capabilities up to five axis milling work
- A wide range of metals and plastics such as stainless steel, aluminium, tufnol and nylon
- A range of aluminium seat legs, arm rests and other seat parts
- Machine prototyping and manufacture and tool
- Mould work including three-dimensional mould production vacuum and injection

Areas of expertise:

- Many years of experience with the aerospace and pharmaceutical industries
- 3, 4 and 5 axis machining capabilities
- Rapid response facility
- CMM inspection
- Latest edition of Open Mind hypermill software and mastercam X7



Contact

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Address

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BT61 8LH

Bombardier Belfast is a centre of excellence for the design, manufacture and after-market support of large aircraft structures, including wings, fuselages, engine nacelles and flight control surfaces in metal and advanced composites. It plays a major role in all of Bombardier's families of business and commercial aircraft, as well as producing nacelles for other international manufacturers.

Areas of expertise:

- Design, manufacture and assembly of major primary aircraft structures
- Research and Development
- Advanced composites
- Maintenance, repair and overhaul
- Precision machined parts



Bombardier Belfast

Core Activities

Design and manufacturing

Year Established

Established as Short Brothers in 1908

Employee Number

250+

Annual sales

\$10m +

Certifications

EASA Part.21.G Production Organisation Approval
EASA Part.21.J Design Organisation Approval
EASA Part.145 Maintenance Repair and Overhaul Approval

Approvals

Investors in People accreditation
ISO9001: 2000 Quality Management System
AS9100 Rev C Quality System Aerospace
AS9110 Rev A Quality System
ISO 14001 Environmental Management System
OHSAS 18001
NUCAP

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Bradfor Ltd

Core Activities
Manufacturing

Year Established
1996

Employee Number
51-249

Annual sales
\$5- \$10

Certifications
ISO 9001: 2008
AS 9100 Rev C
Investors in People Bronze Award

Approvals
B/E Aerospace Kilkeel,
Winston Salem, Leighton Buzzard

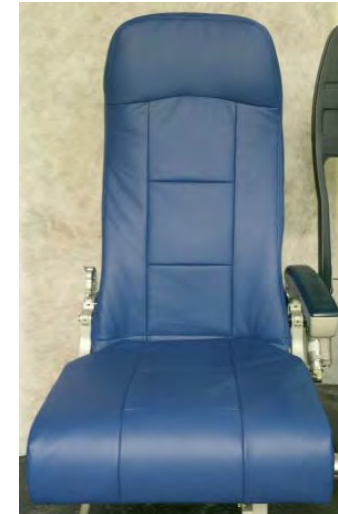


www.bradfor.co.uk

Bradfor manufactures seat covers, diaphragms, pull straps and life vest pouches for local and international aerospace companies that manufacture aircraft seats for prestigious airlines. Bradfor also has a skilled team to upholster literature pockets.

Areas of expertise:

- Pattern digitising
- Manufacture of aircraft seat coverings
- In-house product development to meet customer specifications
- Upholstery of literature pockets



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CCP Gransden

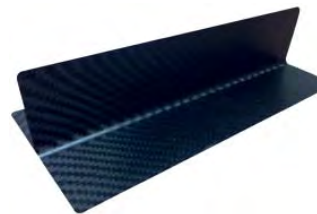
ADVANCED COMPOSITES

CCP Gransden is a leading specialist composites and thermoplastics manufacturer. With over 100 years in business, the company has evolved from the ship building and repair industry into the manufacture and development of composites and thermoplastics across diverse sectors; Aerospace, Industrial, Automotive & Energy.

Areas of expertise:

- In House design capability offering component and product design, stress and FEA, pattern and mould design and prototyping services
- Research and Development strategic partnering, offering commercial and cofounded R&D services for advanced composites and thermoplastics
- Manufacturing processes include RTM, Resin Infusion, Prepreg lamination, Tool and Mould manufacture, thermoplastic fabrications, assembly and post processing services
- Advanced composite processing, including high temperature thermoplastic composite forming, high pressure RTM and integrated back moulding of advanced thermoplastic structures
- Project management from inception to completion on customer projects, including sub-contracting and outsourcing services

www.ccp-gransden.com



CCP Gransden Ltd

Core Activities

Design, Engineering and Manufacturing
in Advanced Composites and
Thermoplastics

Year Established

Group: 1893

Employee Number

<50

Annual sales

\$5-\$10m

Certifications

BS EN ISO 14001:2004

BS EN ISO 9001:2008

OHSAS 18001:2007

AS9100C

Approvals

Bombardier Aerospace, B/E Aerospace,
FMC Corporation, RLC UK Ltd

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Address

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BALLYGOWAN

BT23 6JQ



www.clintyregen.co.uk

Clinty Regen Ltd

Core Activities

Chemical Processing & Crystallisation
Chemical Regeneration

Year Established

1997

Employee Number

<50

Annual sales

\$1-\$5m

Certifications

IPPC licence
ISO 9001 – pending
ISO 14001 – pending

Approvals

Bombardier Aerospace

Clinty Regen provides cost effective and environmentally-friendly chemi-milling solutions that reduce chemical purchase and waste streams whilst increasing plant output. With its expertise it helps companies reduce waste and increase their own process control, gaining better efficiencies and profits through better practice.

Areas of expertise:

- Regeneration of caustic waste
- Recycling of aluminium hydrate for water treatment
- Reducing disposal costs
- Reducing environmental costs



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BELFAST
BT3 9AL

CM Precision Components specialises in CNC machining of small-medium sized batches of component parts. CM Precision prides itself on quality, efficiency and response times.

Areas of expertise:

- Sub assembly of parts and components
- Quality control
- Quick turn-around




CM Precision Components Ltd

Core Activities
Component part manufacturing

Year Established
2007

Employee Number
<50

Annual sales
\$1-\$5m

Certifications
ISO 9001:2000

Approvals
Bombardier Aerospace

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BT30 6LL



www.copastechnologies.com

Copas Technologies Ltd

Core Activities
Manufacturing

Year Established
2006

Employee Number
<50

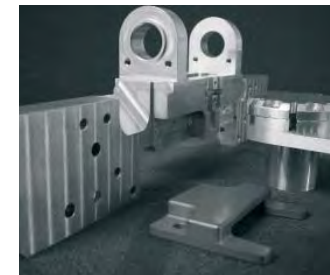
Annual sales
\$1-\$5m

Certifications
ISO 9001 : 2000
AS9100 - pending
SC21 - pending

Copas Technologies Ltd is a supplier of precision engineered parts for aerospace. Copas Technologies offers quality engineered parts together with a Rapid Response and Rework service. Copas Technologies engineers parts in multi axis and has recently installed a new DMG DMU650Evo 5 axis machine.

Areas of expertise:

- 5 axis machining
- 3 axis machining
- Rapid Response Service
- CAD/CAM Engineering Support
- Small and Medium batch runs



Contact

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KILKEEL
BT34 4AX

Creative Composites is the UK's most advanced composites manufacturer. It collaborates with major blue chip companies, incorporating a broad range of industry sectors including aerospace/defence, automotive, off high-way, and industrial applications. Using the latest manufacturing technology, Creative Composites can cater for low to medium and high volume applications.

Areas of expertise:

- Design – skilled team of engineers using 3D software ensures products are optimised for performance and cost
- Manufacturing – operates from a modern purpose built 70,000 sq ft facility
- Technology – invested in the latest plant & equipment to ensure high quality
- Processes – specialists in compression moulding, RTM and hand laminating
- Service – award winning recognition of excellent delivery and quality performance

Creative Composites Ltd

Core Activities

Design and manufacture high quality composites components

Year Established

2000

Employee Number

51-249

Annual sales

\$10m +

Certifications

ISO 9001
ISO 14001
TS 16949

Approvals

Thales

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Address

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1 Ferguson Road
LISBURN
BT28 2FW

CROSSEN ENGINEERING

www.crossenengineering.co.uk

Crossen Engineering Ltd

Core Activities

Metal Forming & Fabrication
Press tool and Injection Mould Tool Manufacture
Production Plastic Injection Moulding
Production Metal Pressing
CNC & EDM Machining

Year Established

1975

Employee Number

<50

Annual sales

\$1-\$5m

Certifications

AS 9100 Rev C

Approvals

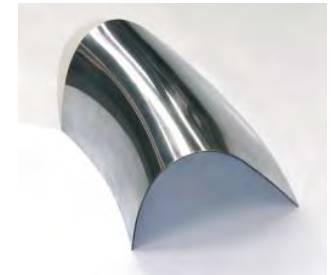
Bombardier Aerospace,
Thales, B/E Aerospace,
Chromalloy & Seal Dynamics

Crossen Engineering's unique metal forming techniques reduce the weight and cost of components such as engine air seals. Other products and services include:

- MRO lipskin repair segments
- Pressed, high temperature alloy components for aero engines
- Specialist metal forming processes and reverse engineering
- Press tool and injection mould tool design and manufacture
- Pressed metal and moulded plastic components

Areas of expertise:

- Press & Mould Tool Design
- Fabrication - Presswork
- Tool Making - Mould Tools
- Tool Making - Press Tools
- CNC Machining & EDM Machining



Contact

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Address

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www.datum-design.com

Datum Tool Design provides design and consultancy to major airframers and their suppliers. Specialising in tooling for composite parts from simple fairings through to primary structures. Other tooling includes assembly, ICY, trimming and drill tooling for manual and automated operations. Datum's composite expertise extends to advanced moulding of composite parts such as RTM, RTI and SQRTM.

Datum serves Airbus, Bombardier, Boeing, Dassault, HAL and AVIC

Areas of expertise:

- Tool design
- Tool manufacture
- Component trimming
- Prototyping
- Consultancy



Datum Tool Design Ltd Datum Technologies Ltd

Core Activities

Aerospace tool design, structural analysis, tool engineering, tool manufacture for composites, assembly, material handling and inspection. Composite part trimming and finishing

Year Established
1996

Employee Number
<50

Annual sales
\$1-\$5m

Certifications
ISO 9001
ISO 14001

Approvals
Airbus,
Bombardier Aerospace

Contact

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Address

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BT24 8AW

denroy aerospace

Denroy Plastics Ltd

Core Activities

Plastics Injection Moulding

Year Established

1972

Employee Number

51-249

Annual sales

\$10m +

Certifications

AS/EN 9100 Rev C

SC21 Silver

ISO 9001:2008

ISO 13485:2003 (BSI MD515263)

UL QMMY2 E210290

FSC-C001684

BS8555 Phase 4 Environmental

Approvals

Airbus, BAE Systems, Bombardier Aerospace, GKN, Spirit AeroSystems, CTRM, TATA, Triumph USA, Thales

Contact

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BT19 7QY

Denroy Plastics is a leading supplier of injection moulded components and associated assemblies to various industrial sectors. With on site design capabilities, mould tool manufacture and a range of 35 injection mould presses the company offers a complete work package from project management to dispatch to point of use.

Areas of expertise:

- Product design assistance using CATIA V5 and Pro E software
- In house tooling capabilities – manufacture of new tooling and repair of existing tooling
- Component manufacture – machine range 5t to 750t presses including 2 shot moulding
- Specialists in processing PEEK, Fortron, Ultem along with standard material grades
- Advice on metal conversion for weight / cost saving offered





www.dhl.co.uk

DHL is the global market leader in the logistics industry and experts in international express, air and ocean freight, road and rail transportation. A global network composed of more than 220 countries and 315,000 employees worldwide offers customers superior service quality and local knowledge to satisfy their supply chain requirements.

Areas of expertise:

- Aerospace and defence sector logistics
- International Ocean Freight Forwarding
- International Air Freight Forwarding
- Project Cargo



DHL Global Forwarding (UK) Ltd

Core Activities
International Freight Forwarding and Logistics

Year Established
1969

Employee Number
250+

Annual sales
\$10m +

Certifications
ISO 9001:2008 (Quality)
ISO 14000:2004 (Environment)
SC21 Bronze, Certified AEO

Approvals
DHL works with many Aerospace companies, including local, national and international.

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Dontaur

PRECISION ENGINEERS

Dontaur Engineering is a specialist aerospace precision engineering company.

Areas of expertise:

- Edgecam Part Modeller & Edgecam Solid Machinist
- Catia V5 R21
- 2 axis to 5 axis milling and turning
- Full CMM Inspection capabilities



Dontaur Engineering Ltd

Core Activities

Manufacture of aerospace components from ferrous & non-ferrous metal using N/C controlled machinery

Year Established

1976

Employee Number

51-249

Annual sales

\$10m +

Certifications

AS 9100 Rev C
ISO 9001:2008
SC21 Silver Award

Approvals

Airbus, Bombardier Aerospace,
GE Aviation

Contact

Nigel Hicklin
E: nigel@dontaur.co.uk
T: +44 (0) 28 2565 9886
W: www.dontaur.co.uk

Address

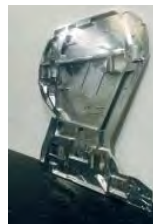
Unit C1 Wakehurst Industrial Estate
Wakehurst Road
BALLYMENA
BT42 3AZ



Doran Precision Engineering specialises in the manufacture of precision components for the aerospace, medical devices and motorsport industries. Doran Precision delivers to the high standards expected in today's market and offers batch production work, rapid response and rework services.

Areas of expertise:

- 20+ years manufacturing precision components for the aerospace industry
- 3 axis CNC machining centres and 1, 5 axis UMC machining centre
- Faro Arm Gage for full 360 degree inspection
- Excellent rapid response lead times
- Excellent reworking facilities



Doran Precision Engineering

Core Activities
Precision Engineering

Year Established
1992

Employee Number
<50

Annual sales
\$1-\$5m

Certifications
ISO 9001:2008

Contact

Christopher Doran
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T : +44 (0) 28 4372 2975

Address

Unit 4
84b Dundrum Road Industrial Estate
Newcastle
BT33 0IN



ECIT

The Institute of Electronics,
Communications and
Information Technology

www.ecit.qub.ac.uk www.csit.qub.ac.uk

ECIT

Core Activities

Cyber security, communications,
electronics, research and other services

Year Established

2004

Employee Number

<150

The ECIT Institute was established to commercialise world-class research and expertise in a variety of enabling digital communications technologies at Queen's University Belfast. ECIT hosts the Centre for Secure IT (CSIT) (which is the UK's national Innovation and Knowledge Centre (IKC) for cyber security) and also the Centre for Wireless Innovation (CWI).

Areas of expertise:

- Physical Unclonable Function (PUF) – a technology that can provide device authentication, providing a trust anchor and the potential for traceability of parts
- Cyber Security, Cyber Physical Systems and Critical National Infrastructure/SCADA security
- Antenna Design. L-Band, Ku-Band and Ka-Band Research and Development capability
- 5G and beyond future wireless communication capabilities



Contact

Godfrey Gaston

E: g.gaston@ecit.qub.ac.uk

T: +44 (0) 28 90971700

W: www.ecit.qub.ac.uk

www.csit.qub.ac.uk

Address

ECIT, Northern Ireland Science Park

Queen's Road, Queen's Island

BELFAST

BT3 9DT



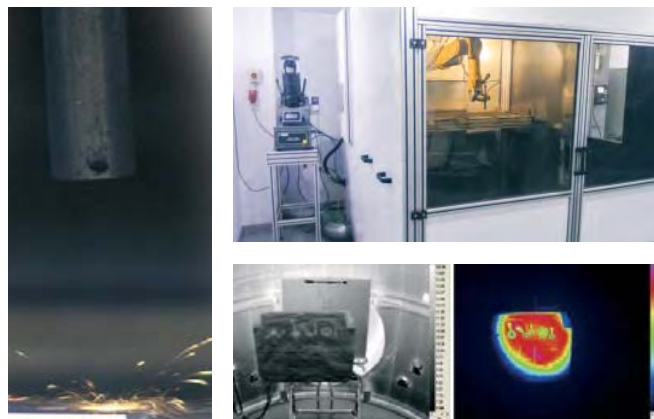
ENBIO™

www.enbio.eu

ENBIO is the inventor, and trustee, of a remarkable technology called CoBlast, which offers the aerospace industry the potential to redefine the performance, function and value of metals across all sectors. ENBIO is a young and vibrant company, operating as a trusted partner in some of industries most regulated and demanding markets, developing and delivering next-generation solutions to meet ever increasing material challenges.

Areas of expertise:

- CoBlast surface treatment
- Thermal control coatings
- Surface engineering & characterisation
- Automation and control systems for robotics
- Powder characterisation



Enbio Aerospace Ltd

Core Activities
Coating Provider
Surface Engineering
Research & Development

Year Established
2014

Employee Number
<50

Annual sales
<\$1m

Certifications
ISO13485:2012

Approvals
European Space Agency, Thales,
Airbus Defence & Space, Senner

Contact

John O'Donoghue
E : info@enbio.eu
T : +353 (0)1 525 3305
W : www.enbio.eu

Address

Muldoon & Co, 16 Mount Charles
BELFAST
BT7 1NZ



www.exactcomposites.com
www.exactnewrycnc.com

Exact CNC

Core Activities

CNC Composite Trimming, Composite Preparation, Composite Finishing, LayUp Tooling, CNC Machining, Production Line Design/ Manufacture

Year Established

2014

Employee Number

<50

Annual sales

\$1-\$5m

Certifications

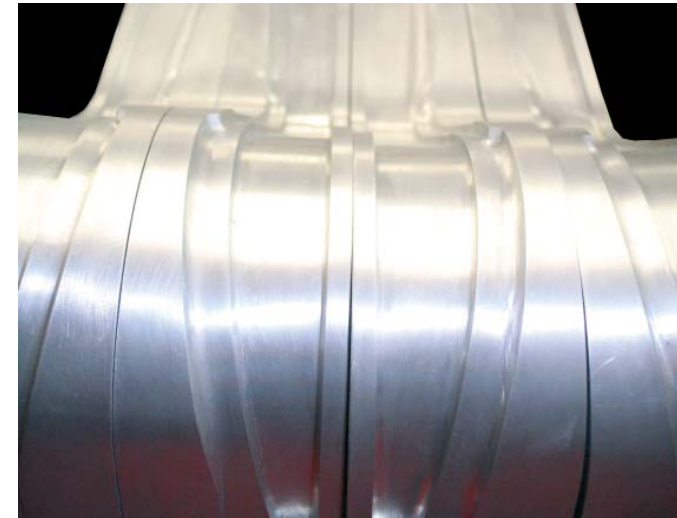
ISO 9001

AS 9100 underway

Exact CNC is a specialist service provider in CNC Trimming, Preparation, Priming and Finished Spraying of composite aeroplane parts, and the manufacturing/ machining of Lay-Up tooling and moulds in Model board/ Aluminium. Exact CNC offers full CNC design, programme and manufacturing services of CNC parts to the aerospace sector, and also manufactures production lines for aerospace.

Areas of expertise:

- CNC Composite Trimming
- Composite Part Preparation
- Composite Part Finishing
- Manufacture of LayUp Tooling for Composite parts
- Production Line Manufacture and CNC Machining for Aerospace Industry



Contact

Richard Hughes

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W: www.exactcomposites.com

W: www.exactnewrycnc.com

Address

7-9 Craigmole Mill Industrial Estate

Craigmole Road

NEWRY

BT35 6JR



www.fleetmaintenance.co.uk

Fleet Maintenance Ireland Ltd is a commercial engineering company manufacturing specialist transport systems for the aerospace and commercial vehicle industry.

Areas of expertise:

- Heavy engineering (transport)
- Hydraulic systems



Fleet Maintenance Ireland Ltd

Core Activities
Engineering

Year Established
2010

Employee Number
<50

Annual sales
\$1-\$5m

Approvals
Bombardier Aerospace,
SDC & Datum Design

Contact
Mark McAlinden
E: mark@fleetmaintenance.co.uk
T: +44 (0) 28 3834 8915
W: www.fleetmaintenance.co.uk

Address
Annesborough Industrial Estate
LURGAN
BT67 9JD



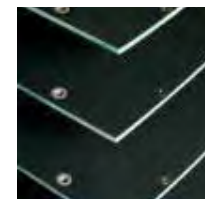
The Gill Corporation Europe, Ltd., A Gill Company

The Gill Corporation Europe Ltd (TGCEL) specialises in the low-cost detailing of composite sandwich panels to provide fully detailed flooring, sidewalls, bulkheads, ceiling, stowage and shelf assemblies.

Working closely with its USA parent company, TGCEL, it develops and qualifies new sandwich panels and supplies build-to-print complete ship-set packages or single parts.

Areas of expertise:

- Development of new sandwich panel constructions
- Import of electronic model data to support CNC production
- "Cut & Fold" fabrication of complex composite assemblies
- EASA Form 1 release of parts & kits direct to assembly/repair lines
- Stockist of Gillfab™ and Gillfloor™ flooring and cargo liner composite materials



The Gill Corporation Europe Ltd

Core Activities

Aerospace Composites
Laminates & Sandwich Panels
Fabrication to Model/Drawing

Year Established

1986

Employee Number

<50

Annual sales

\$5-\$10m

Certifications

EASA Part 21 Subpart G
AS/EN 9100
ISO 9000

Approvals

Airbus, BAE Systems, Beechcraft, Boeing,
Bombardier Aerospace, Embraer
(Aernnova), Gulfstream, Israel Aerospace
Industries and others.

Contact

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W: www.thegillcorp.com

Address

23 Enterprise Road
BANGOR
BT19 7TA



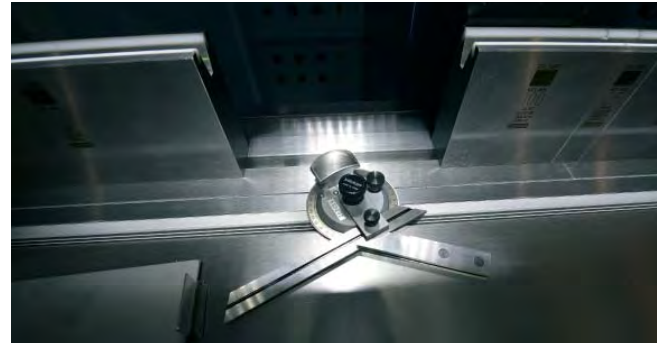
**Hutchinson
AeroTech**

Hutchinson AeroTech is one of the UK and Ireland's leading sub-contract engineering companies. With over 40 years of engineering experience it offers a diverse customer base the complete engineering solutions through laser cutting, folding, assembly and fabrication, working with stainless steel, titanium, nickel alloys and aluminium.

Areas of expertise:

- Clean titanium cutting on a bespoke Trumpf Trumatic 6000
- Sub-assembly of parts and components
- Product manufacture and sub-assembly
- Precision machined parts
- Rapid turnaround service

www.hutchinson-aerotech.com



Hutchinson AeroTech Ltd

Core Activities
Manufacturing

Year Established
2013

Employee Number
<50

Annual sales
<\$1m

Certifications
AS9100: 2013
NADCAP: 2014
ISO 9001: 2008
ISO 14001: 2004
OHSAS 18001: 2007

Approvals
Bombardier Aerospace, BEL Valves

Contact
Mark Hutchinson
E : mark@hutchinson-aerotech.com
T : +44 (0) 28 9446 8401
W : www.hutchinson-aerotech.com

Address
12A Plaskets Close
ANTRIM
BT41 4NN

Industrial Precision Components Ltd

Core Activities
Toolmaking and injection moulding

Year Established
1994

Employee Number
<50

Annual sales
\$1-\$5m

Certifications
ISO 9001
AS 9100

Approvals
B/E Aerospace, Sanmina

Contact
Joanne Liddle
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T: +44 (0) 28 9336 6696
W: www.ipcmouldings.com

Address
Unit 19Y Kilroot Business Park
CARRICKFERGUS
BT38 7PR



www.ipcmouldings.com

IPC is a supply chain excellence partner from concept to completion offering a range of skills and services from mould tool design and manufacture to production injection moulded parts using advanced engineering polymers.

Areas of expertise:

- Mould tool design, optimisation and manufacture. Servicing, modification and TPM programme for customer mould tools
- Injection moulding using advanced engineering polymers and processing techniques
- Product optimisation, metal replacement and weight reduction
- Value add (assemblies), Secondary ops (pad printing / plating / media blasting / CNC machining)
- SMI with low lead times, Kanban managed inventory



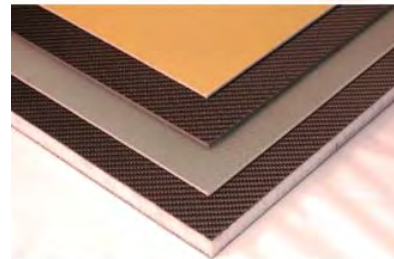


www.junocomposites.com

Juno Composites, utilising their proprietary advanced composite technology, are leading manufacturers of premium decorative structural fibre reinforced composite products within the UK and Ireland. Juno Composites also manufacture and stock the UK and Ireland's largest range of structural advanced composite sheet, plate and paneling products. Juno's products are used in multiple industry sectors such as automotive, marine, construction and aerospace for applications including; wall, ceiling, floor panels and coverings that require light weight, stiff, strong, tough, wear resistant, environmental resistant and decorative characteristics.

Areas of expertise:

- Decorative structural product range capable of mimicking real life materials such as, wood, marble, stone, brick, ceramic tiles or any other custom high resolution graphic
- Manufacturing of advanced composites utilising liquid moulding processes that employ a wide range of constituent materials such as carbon fibre, aramid, glass, basalt and eco fibre reinforcements
- Assistance in the design, development and introduction of customised product solutions into their customers new and existing applications
- Performance guaranteed products that come with a technical datasheet



Juno Composites Ltd

Core Activities

Design, development and manufacture of advanced composite sheet, plate and paneling products

Year Established

2011

Employee Number

<50

Annual sales

<\$1m

Contact

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T: +44 (0) 28 9532 0123
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Address

25 Talbot Street
Cathedral Quarter
BELFAST
BT1 2LD



www.kaneprecisionengineering.com

JW Kane Precision Engineering Ltd

Core Activities

CNC Milling Aerospace Components

Year Established

1984

Employee Number

51-249

Annual sales

\$10m +

Certifications

AS 9100 Rev C

ISO 14001

OHSAS 18001

Approvals

Airbus, Bombardier Aerospace,

B/E Aerospace, Thales,

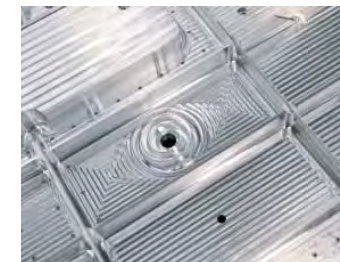
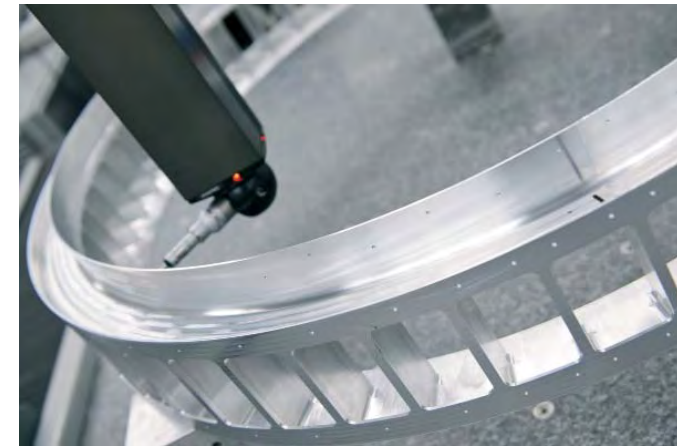
Premium Aerotec, Aerolia

JW Kane is at the forefront of technology in CNC milling and is dedicated to the continuous improvement of its manufacturing and service delivery processes. It offers:

- Machining of titanium, composites, aluminium and steel
- 3, 4 and 5 axis machining with parts sizes ranging up to 4m
- Sub-assembly of parts and components
- Ongoing research into the future of carbon fibre and associated machining techniques

Areas of expertise:

- 50 CNC Mills on site
- Full supply chain management process including special processes
- Manage treatments and first article
- Rapid response service



Contact

Damian McArdle

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T: +44 (0) 28 3833 3991

W: www.kaneprecisionengineering.com

Address

1 Charlestown Crescent

Charlestown Road Industrial Estate

PORTADOWN

BT63 5ZE

LenisAer develops innovative forming processes for lip skins and sheet metal components within the aerospace industry utilising its ADaPTIVE Technologies (Advanced Design and Processing Techniques in Virtual Environments) approach. LenisAer's innovative technologies offer both production and operational savings with significant potential for reduction in fuel burn.

Areas of expertise:

- Component integration, reducing processing costs and improved part quality
- Ability to produce an extended Natural Laminar Flow (NLF) lip skin
- Facility to fabricate unique lip skin repair sections
- Development of commissioned solutions from initial conceptual design through to production
- Proven international track record



LenisAer Ltd

Core Activities
Design of lip skin manufacturing processes

Year Established
2010

Employee Number
<50

Annual sales
<\$1m

Contact
Dr Michael Ludlow
E: m.ludlow@lenisaer.com
T: +44 (0) 7969 705941
W: www.lenisaer.com

Address
31 Grey Castle Manor
BELFAST
BT6 9QT



Laser Prototypes (Europe) Ltd

Core Activities

Additive Manufacturing
Stereolithography, Selective Laser Sintering of both plastic & metal
Vacuum Casting, RIM Moulding
5 axis CNC machining

Year Established

1991

Employee Number

<50

Annual sales

\$1-\$5m

Certifications

ISO 13845:2012
ISO 9001:2008
AS 9100 - pending

Laser Prototypes was created for the sole purpose of using additive manufacturing (AM). Over 40% of the AM parts produced are used for direct production parts or tooling. The company has also added 5 – Axis CNC so that it can provide a rapid response to all requirements where AM alone cannot satisfy the needs of the customer.

Areas of expertise:

- Short production runs of plastic and metal using Additive Manufacturing
- Tooling, jigs and fixtures made using Additive Manufacturing
- Complex machined parts and tooling that requires 5 axis CNC technology
- Short production runs of investment casting utilising AM



Contact

Campbell Evans
E: campbell@laserproto.com
T: +44 (0) 28 9070 6940
W: www.laserproto.com

Address

4 Prince Regent Road
BELFAST
BT5 6QR

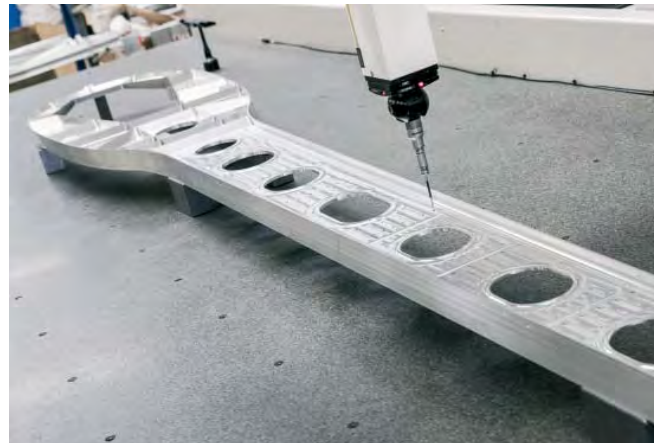


www.magellan.aero

Magellan Aerospace develops and produces complex and integrated products and services that bring value to customers, serving the civil aerospace and defence markets across the globe. Magellan primarily supplies machined components for airframes, engine nacelles, landing gears and flight controls to the UK and global aerospace industry from its Northern Ireland facility.

Areas of expertise:

- 5-axis precision milling in soft metal – specialising in 0.5 to 4m components
- Engineering / CNC programming
- Supply Chain Management
- Continuous Improvement and Lean Manufacturing
- Access to Magellan global expertise, resources and capabilities



Magellan Aerospace (Greyabbey) Ltd

Core Activities
Precision engineering

Year Established
1964

Employee Number
51-249

Annual sales
\$10m +

Certifications
AS/EN 9100
ISO 14001

Approvals
Airbus, Bombardier Aerospace,
Lockheed Martin F-35, BAE Systems,
ITAR approval, NADCAP,
AgustaWestland, GKN Aerospace,
Messier Dowty

Contact
Neil Taggart
E : neil.taggart@ga.magellan.aero
T : +44 (0) 28 4275 8231
W : www.magellan.aero

Address
11 Tullykevin Road
GREYABBEY
BT2 2QE



www.marlborough-eng.com

Marlborough Engineering Ltd

Core Activities

Precision Engineering
CNC Machining
Precision fabrications (jigs and tooling)

Year Established

1984

Employee Number

51-249

Annual sales

\$5-\$10m

Certifications

ISO 9001
AS 9100
SC21 pending

Marlborough Engineering is a precision engineering and fabrication company committed to the aerospace market and delivering exceptional levels of quality and service to all its customers.

Areas of expertise:

- Precision machined components
- Advanced precision specialist assembly jigs and tooling
- Large scale precision fabrications used in the transporting & testing of aerospace parts
- Precision fabrications



Contact

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T: +44 (0) 28 9073 2181
W: www.marlborough-eng.com

Address

67 Sydenham Road
BELFAST
BT3 9DJ

McAuley Precision provides a component manufacturing service for Aerospace, Oil and Gas and Transport sectors. Operating from a 74,000 sq ft modern facility, McAuley exports its products to the UK and Asia. Using the latest CNC machining centres and CAD/CAM software, McAuley provides both high quality components and service levels.

Areas of expertise:

- Precision Machining – Turning, Mill/Turn, 3-5 axis Milling
- Tubular Manipulation
- Punching, Folding and Welding
- Sheet Metal Fabrication
- Assembly



McAuley Precision Ltd

Core Activities

Precision Machining, Metal Forming and Tube Bending

Year Established

1997

Employee Number

51-249

Annual sales

\$10m +

Certifications

ISO 9001

ISO 14001

OHSAS 18001

AS 9100

Approvals

Bombardier Aerospace SB/VC/387

Contact

Robert Mc Gowan

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T : +44 (0) 28 2766 6646

W : www.mcauleyengineering.co.uk

Address

21 Ballymena Road

BALLYMONEY

BT53 7EX

McGreevy Engineering Ltd

Core Activities
CNC Sub Contract Machining

Year Established
1980

Employee Number
<50

Annual sales
\$1-\$5m

Certifications
ISO 9001:2008

Approvals
Bombardier Aerospace, Thales

Contact
Aaron McGreevy
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T: +44 (0) 28 9044 8755
W: www.mcgreevyengineering.co.uk

Address
Maryland Industrial Estate
Ballygowan Road
BELFAST
BT23 6BL



McGreevy Engineering machines components using CNC machines to customers' specifications. Using the latest spinning CNC lathes and milling machines, components are machined from one-offs to production runs. It operates stocking systems for Kanban and JIT to customer requirements.

All components machined can be supplied with full traceability of materials and certificates.

- CNC Turning
- CNC Milling
- CYL Grinding
- Surface Grinding
- Fabrication

www.mcgreevyengineering.co.uk





www.moteam.com

Mo Team has international engineering expertise in various industries including equipment test and certification, electronics manufacturing, IT and telecoms, brewing and drinks packaging and dairy. Mo Team specialises in plant equipment automation, utilities, energy efficiency, carbon footprint reduction, manufacturing IT, strategic capital investment, performance optimisation, cost saving and value engineering.

Primary development interests include machinery safety, turnkey automation, renewables technologies and technical composites.

Areas of expertise:

- Turnkey Automation
- Machine Building
- Machinery Safety & CE
- PLC Servo Drives Instrumentation RFID
- Process Control Engineering



Mo Team Ltd

Core Activities

Turnkey Machine Builder - Automation

Year Established

1997

Employee Number

<50

Annual sales

\$1-\$5m

Certifications

Machinery Safety CE

Contact

Rob Moran

E : rob@moteam.co.uk

T : +44 (0) 77 6444 8808

W : www.moteam.com

Address

11E Chapel Road

CRUMLIN

BT29 4LY



www.morson.com/projects/

Morson Projects Ltd

Core Activities
Engineering Services

Year Established
2006

Employee Number
51-249

Annual sales
\$1-\$5m

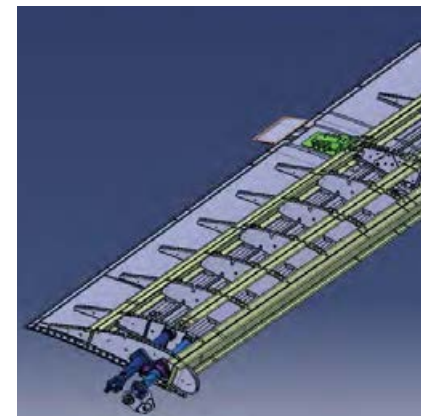
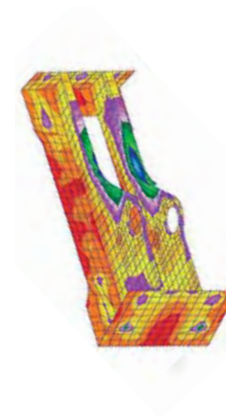
Certifications
ISO 9001:2000
AS 9100
ISO 14001:2004

Approvals
Airbus, BAE Systems, Raytheon,
Bombardier Aerospace, Beechcraft,
GKN Aerospace

Morson Projects provides cost effective, multi-disciplined project management, engineering and design services to clients across a variety of industrial sectors. One of the main sectors is Aerospace, where Morson Projects has developed extensive experience in the design, analysis and optimisation of aircraft structures. Clients within this sector include Airbus, Bombardier, Learjet and BAE/Lockheed Martin.

Areas of expertise:

- Structural Optimisation
- Composite design and analysis
- Manufacturing Engineering
- Finite Element Analysis
- Aerospace Systems



Contact
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Address
Unit 10b 1 Weavers Court Business Park
Linfield Road
BELFAST
BT12 5GH

Moyfab Tool Company specialises in laser cutting and machining for the aerospace sector. Components are manufactured in house using the very latest laser cutting and multi axis sheet-metal bending technology.

Areas of expertise:

- Laser cutting of aerospace materials, including aluminium, stainless and titanium
- Precision folding of highly complex sheet metal, using the latest in multi axis press brakes
- CNC machining and turning, in a wide range of materials
- Laser cutting of tube and box, with dedicated tube laser
- Fully equipped in house tool room for jigs and fixtures



Moyfab Tool Company Ltd

Core Activities
Manufacturing, precision sheet metal and machining

Year Established
1994

Employee Number
<50

Annual sales
\$1-\$5m

Certifications
ISO 9001:2008
AS 9100

Contact
Raymond Fitzpatrick
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T: +44 (0) 28 4716 3602
W: www.moyfab.com

Address
12 Attical Bog Road
KILKEEL
BT34 4HT

MOYOLA

Precision Engineering

www.moyola.com

Moyola Precision Engineering Ltd

Core Activities

Logistical solutions for 5 axis components, kits, sub-assemblies and tooling solutions

Year Established

1976

Employee Number

51-249

Annual sales

\$10m +

Certifications

AS 9100 : Rev C, ISO 9001:2008
SC21 Silver Award

Approvals

GKN, Bombardier Aerospace, Airbus, Thales, MOOG, RLC, GE Aviation, Spirit Aerosystems, Saab Aeronautics, BAE Systems.

Contact

Mark Semple
E: mark@moyola.com
T: +44 (0) 28 7946 8349
W: www.moyola.com

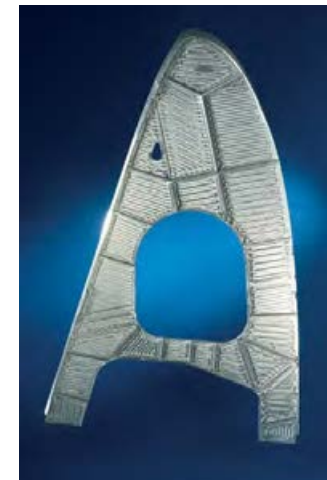
Address

6-8 Curran Road
CASTLEDAWSON
BT45 8AF

Moyola is a specialist provider of 5 axis components, kits and sub-assemblies to the civil and defence aerospace industry, producing parts for the majority of Boeing, Airbus and Bombardier aircraft programmes. It is a technology driven company, investing heavily in its capabilities year on year.

Areas of expertise:

- World-leading technologically driven machining solutions
- Manufacture of 5 axis detailed aerospace parts up to 3.8m x 2.5m
- Utilises leading technology such as Starrag Ecospeed and Grob solutions
- Supply of kitting and sub-assemblies
- High precision tooling and fixtures



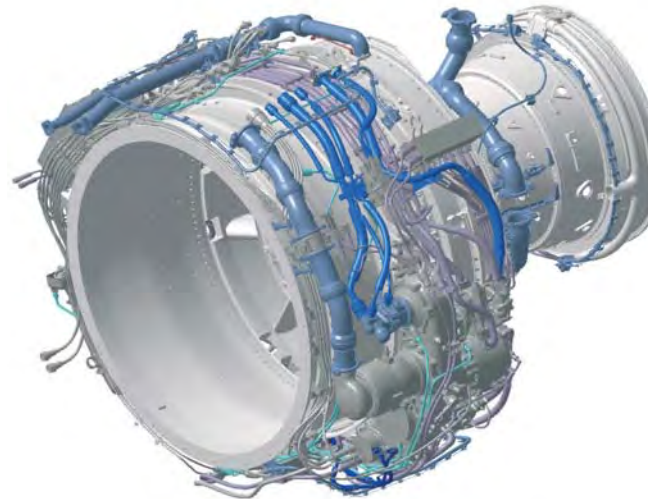


www.nacellesystems.com

NSC is a specialist in propulsion system integration. With experience covering design, stress analysis, aerothermal/anti-icing analysis, integration management, and qualification/certification capabilities, NSC have a particular focus on EBU. NSC has been retained by Tier One engine manufacturers and OEMs in the development cycle of components and systems through to complete EBU packages. Additionally NSC has experience in TR, TRAS and Landing Gear engineering.

Areas of expertise:

- Systems Design & Stress Analysis – EBU and related propulsion systems – Hydraulics, Fuel, ECS
- Anti-Icing, Aerothermal and Fire Zone analysis
- Diverse range of systems including EBU systems, Thrust Reversers & TRAS, Landing Gear
- FAR 25 & FAR 33 Qualification & Certification – Analysis and Management
- Fluid system component R&D, Validation and Testing capabilities



Nacelle Systems Consultancy Ltd

Core Activities

Propulsion Systems Integration
Design & Stress Analysis
Project & Integration Engineering
Qualification & Certification Support

Year Established

2005

Employee Number

<50

Annual sales

\$1-\$5m

Certifications

AS 9100 Rev C

Approvals

General Electric, Parker Hannifin (Stratoflex and CSS divisions), Rolls Royce (Deutschland), Bombardier Aerospace, Meggitt, BAE Systems, UEC / Aviadvigatel

Contact

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T: +44 (0) 28 9073 6390
W: www.nacellesystems.com

Address

10 Heron Road
Unit 3 Sydenham Business Park
BELFAST
BT3 9LE



www.nichollengineering.co.uk

Nicholl Engineering

Core Activities
Precision Engineering

Year Established
1985

Employee Number
<50

Annual sales
<\$1m

Certifications
ISO 9001: 2000
AS 9100

Nicholl Engineering's machinery capability ranges from High Speed Twin Pallet Horizontal CNC equipment to CNC Vertical machinery capable of machining up to 1275 mm. This enables the manufacture of small batch to large batch sizes to suit customer requirements.

Addition of Catia & CMM inspection enables Nicholl Engineering to interpret and inspect to the latest industry driven solid models from production through to inspection.

Areas of expertise:

- Hinges and intercoastals
- Base fitting column control
- Flap hinges and door latches
- Nose and landing gear components
- Flight deck components



Contact

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W: www.nichollengineering.co.uk

Address

Building 14, Unit 4, Central Park
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BT36 4FS



www.nitronica.com

Nitronica specialises in supporting companies in numerous sectors with its breath of capability, from cable assemblies and PCB assemblies through to the design, refinement and supply of high quality integrated products. It is these inherent strengths which continue to attract internationally respected customers to Nitronica.

Areas of expertise:

- PCB Assembly
- Cable Assembly
- Full Product Build
- Electro Mechanical
- Cabinet Integration



Nitronica Ltd

Core Activities
Electronic Manufacturing

Year Established
1953

Employee Number
51-249

Annual sales
\$10m +

Certifications
ISO 9001:2008
ISO 14001:2004

Contact

Alan Peters
E : alan.peters@nitronica.com
T : +44 (0) 78 5074 1326
W : www.nitronica.com

Address

4 Antrim Road
BALLYNAHINCH
BT24 8AN

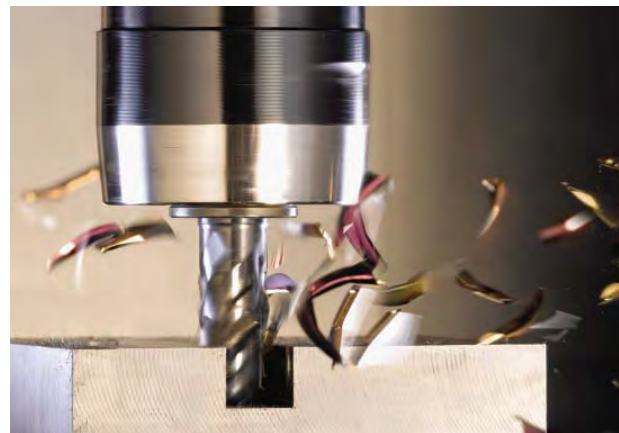


www.qub.ac.uk/nitc

The Northern Ireland Technology Centre (NITC) at Queen's University Belfast is an industry facing research and technology unit aligned to the School of Mechanical and Aerospace Engineering. NITC plays a key role in supporting NI's aerospace supply chain with industrial collaborative R&D and knowledge transfer activities in advanced manufacturing technologies.

Areas of expertise:

- Automated aircraft assembly – Robotics, Parallel Kinematics, Metrology, Drilling of aerospace material stacks
- Advanced machining - Titanium, Aluminium, Composites, Modal Analysis, Optimisation & simulation
- Digital Manufacturing – 3D Factory Simulation, Robotic / Machine Simulation, Additive Manufacturing & Industry 4.0
- Advanced Metal Forming and Joining including Friction Stir / Stir Spot Welding, Laser Welding & cutting
- Lean thinking – cost modelling, business process



Northern Ireland Technology Centre

Core Activities
Industrial Collaborative Research & Development, Knowledge transfer & Commercial Services

Year Established
1987

Employee Number
<50

Annual sales
\$1-\$5m

Contact

Colm Higgins
E: c.j.higgins@qub.ac.uk
T: +44 (0) 28 9097 5433
DDI +44 (0) 28 9097 4330
W : www.qub.ac.uk/nitc

Address

Queen's University Belfast
Cloreen Park, Malone Road
BELFAST
BT9 5HN

Nova-Tech Engineering Ltd

Core Activities

Engineering, Design, Project Management of Tooling and Manufacturing Processes.

Year Established

1968

Employee Number

51-249

Annual sales

\$10m +

Certifications

AS 9100 Rev C
ISO 9001:2008

Approvals

Major OEMs including Boeing, BAE Systems, Embraer, Lockheed, Northrop Grumman, Spirit AeroSystems

Contact

Richard Tarbuck
E: rtarbuck@ntew.com
T: +44 (0) 78 8110 4039
W: www.ntew.com

Address

The Mount, 2 Woodstock Link
BELFAST
BT6 8DD

Nova-Tech supplies quality Aerospace Tooling, Assembly Systems, Speciality Systems, Product Handling, Factory Integration, Automation and Controls to the aerospace industry. Nova-Tech also designs FSW systems to meet specific customer requirements and offers a unique alternative to conventional welding processes. Nova-Tech is a partner to provide innovative solutions to difficult problems.

Areas of expertise:

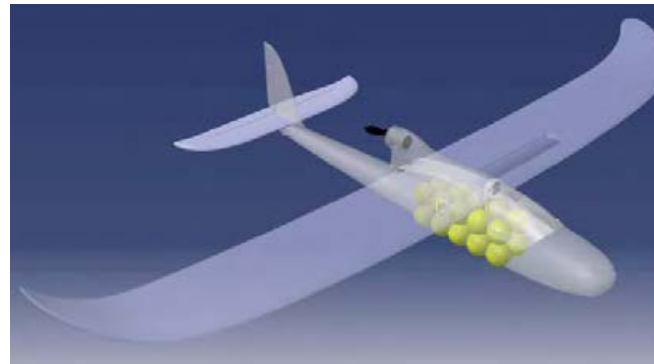
- Aerospace tooling for simple handling systems up to the largest structures produced
- Modular Wheel Sets (MWS) for new or retrofitting assembly workstands, mobile platforms and equipment
- Alignment, positioning and join systems for wing, fuselage, section and part processes
- Friction Stir Welding (FSW) to produce improved joint properties compared to conventional fusion welding techniques
- Building user-friendly, open architecture, PLC based control system solutions for both new applications and upgrades



The School of Mechanical and Aerospace Engineering at Queen's University is rated as one of the top ten mechanical engineering schools in the UK, and is in the top 1% globally. It has a strong background in advanced composite structures, including thermoplastic composites, aerodynamics, automation, digital manufacturing and design methods.

Areas of expertise:

- Modelling of airframe and aero-engine structures
- Modelling of factories and manufacturing processes, including laser beam and friction stir welding
- Core partner in the Northern Ireland Advanced Composites Engineering Centre



Queen's University Belfast

Core Activities
Research and Education

Year Established
1845

Employee Number
250+

Annual sales
\$10m +

Approvals
All degree programmes are accredited by the Institution of Mechanical Engineers and the Royal Aeronautical Society

Contact
Professor Brian Falzon
E : b.falzon@qub.ac.uk
T : +44 (0) 28 9097 5640
W : www.qub.ac.uk

Address
University Road
BELFAST
BT7 1NN



www.raineys.co.uk

John Rainey & Son Ltd t/a Rainey Engineering Solutions

Core Activities

In-House Manufacturing & Re grind Facility, Technical Engineering Distributor, All Ireland Supplier Of Mapal Tools & Lubbering Advanced Drilling Equipment

Year Established

1929

Employee Number

<50

Annual sales

\$1-\$5m

Certifications

ISO 9001:2008

Rainey Engineering Solutions supports the aerospace industry in Northern Ireland with the supply of Mapal tooling and lubbering advanced drilling equipment. Rainey also has an in-house manufacturing and regrind facility allowing it to respond to fast lead times for new and modified tools. Rainey has strong expertise in composite machining techniques.

Areas of expertise:

- Machining of composite materials in conjunction with Mapal
- In-house design and manufacture of round shank tools
- In-house regrind capability
- Supply and technical back up for lubbering advanced drilling equipment
- Technical distributor including tool management through vending solutions



Contact

Roy Douglas
E: roy.douglas@raineys.co.uk
T: + 44 (0) 28 9266 9233
W: www.raineys.co.uk

Address

Enterprise Crescent
Ballinderry Road
LISBURN
BT28 2BP



www.rlc-group.com

RLC Engineering Group is a world class provider of components & services to the Aerospace industry.

With sales of £90m & over 550 employees, RLC provides innovative solutions to the most challenging product families. Combining multi-skilled teams of engineers to create manufacturing and supply chain solutions as dedicated, customer and product focused, business units.

RLC operates from facilities in the United Kingdom, and Singapore.

Areas of expertise:

- Mechanical Manufacture
- Processing
- Supply Chain Management
- Logistics & Kitting
- New Product Introduction



RLC UK Ltd

Core Activities

Aerospace Mechanical Manufacture,
Assembly & Processing

Year Established

1959

Employee Number

250+

Annual sales

\$10m +

Certifications

Fully Nadcap approved for non-destructive testing and wet processing
ISO 14001: 2004 Environmental approval
ISO 18001: 2007 Occupational Health & Safety Management. AS9100 Rev C: 2008 Aerospace Manufacture & Supply.
ISO 50001:2011 Energy Management

Approvals

Full range of aerospace customer specific approvals

Contact

Paul Coates
E : paul.coates@rlc-group.com
T : +44 (0) 28 9445 1400
W : www.rlc-group.com

Address

97 Largy Road, CRUMLIN
BT29 4RT
& Global Point Business Park
Corrs Corner, NEWTOWNABBEY
BT36 5PY



RTA Ireland Ltd

Core Activities

Procurement, supply chain management, warehousing and distribution

Year Established

1988

Employee Number

<50

Annual sales

\$1-\$5m

Certifications

ISO 9001:2010, SC21 Bronze Award holder, 3 Star EFQM/Northern Ireland Quality Award holder

Approvals

Gold supplier into B/E Aerospace, HSI (Helicopter Support Inc. – a Sikorsky Aerospace Services Company), Cutting Dynamics, and Pilgrim Harp

Contact

Richard Henny

E: rhenny@rtaintl.com

T: +44 (0) 28 4176 9800

W: www.rtaintl.com

Address

Unit 2 Kilkeel Business Park

Moor Road

KILKEEL

BT34 4NG

RTA's services are specifically tailored for each customer and are geared towards sourcing, stocking, kitting and delivery of print and hardware items for lean operations integration (Kanban, DLF, JIT, Quick Reaction Sub-contracted Manufacture, etc.) and Vendor Managed Inventory (consignment stock management) while preserving part trace integrity throughout.

Areas of expertise:

- Sourcing and procurement of aerospace and military grade hardware
- Supply chain management and sub-contracted manufacturing capabilities including CNC milling, turning, forming and laser cutting
- Kitting to operation sequence using customer BoMs, and delivering just in time to build schedule
- Inspection and first article inspection reporting (FAIRs meet AS9102 requirements)
- Warehousing and stock management, including third party logistics and supply



SCHIVO

...engineering Partnerships

www.schivogroup.com
www.schivo3D.com

Schivo NI Ltd is part of the Schivo Group of companies. Schivo is a precision engineering Sub-Contract Manufacturer with over 40 years of experience supporting a wide range of products and global customers. Schivo provides logistical solutions for machine components, assemblies, sub-assemblies, kits, fabrication & additive manufacturing (3D printing) on aircraft programs including Airbus, Boeing & Bombardier.

Areas of expertise:

- Multi-axis CNC Machining, Assembly, Sub-Assembly, Kit Supply, Fabrication & Additive Manufacturing (3D Printing)
- Utilising advanced manufacturing technologies in a lean manufacturing environment
- Alloys, Steel, Titanium, Inconel & Polymers
- Supply Chain Management
- Developing strategic partnerships with customers



Schivo NI Ltd

Core Activities

Multi-axis CNC Machining, Assembly, Sub-Assembly, Kit Supply, Fabrication & Additive Manufacturing (3D Printing)

Year Established

1985

Employee Number

51-249

Annual sales

10m+

Certifications

AS9100 REV C
ISO 9001:2008

Approvals

Airbus, B/E Aerospace,
Bombardier Aerospace, CESA,
Figeac Aero, GE Aviation, Meggitt,
MOOG, Patria, Rolls-Royce

Contact

Sean Phelan
E: sphelan@schivogroup.com
T: +44 (0) 28 7186 0531
W: www.schivogroup.com
W: www.schivo3D.com

Address

11 Carrakeel Drive, Maydown
LONDONDERRY
BT47 6UQ



Smiths Engineering Works (NI) Ltd is a specialist engineering company. Through its various divisions it provides engineering solutions to a wide range of companies from SMEs to multi-nationals.

Smiths Engineering's Precision Division utilises the latest CNC technology to produce high quality machined components and continues to invest in the latest programming software.

Areas of expertise:

- Latest multi-axis machining centres, ensuring quality of the highest standard and cost competitiveness
- Highly skilled and flexible workforce enabling Smiths Engineering to provide rapid response to customers
- Robust planning and scheduling procedures
- Design team specialising in component design, on individual parts, sub-assemblies or complete clean sheet design
- Central location allowing access to all major routes, combined with excellent air and road links



Smiths Engineering Works (NI)

Core Activities

CNC Machining, Manufacture & assembly of transmission products, Fabrication & Sub-Assembly

Year Established

1962

Employee Number

<50

Annual sales

\$1-\$5m

Certifications

ISO 9001, OHSAS 18001:2007
ISO 14001:2004,
AS 9100 REV C - pending

Approvals

Michelin, Optibelt,
Schlumberger, Irish Rail

Contact

Ian Kinstrie
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T: +44 (0) 28 2564 1621
W: www.smiths-engineering.com

Address

Pennybridge Industrial Estate
BALLYMENA
BT42 3HB

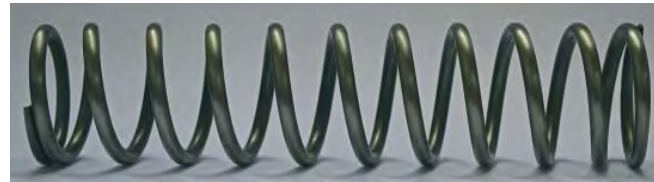


www.springco.co.uk

With over 50 years' experience in supplying specialist spring solutions, Springco designs and manufacture compression, tension, torsion, wire shapes, flat springs, tube forms, and miscellaneous spring items. These are supplied to a wide customer base including, Aerospace, Valve Manufacturing, Offshore and Sub-Sea Industries, Medical, Power and Nuclear sectors and General Engineering.

Areas of expertise:

- Nickel and Cobalt Alloy Specialists
- Specialist Spring Solutions for all applications and environments
- Full Design to Manufacture
- Quantities Ranging from Prototypes to Full Production
- Quality Products with a Reliable Delivery Service



Springco (NI) Ltd

Core Activities
Manufacturer of Springs

Year Established
1954

Employee Number
<50

Annual sales
\$1-\$5m

Certifications
SC21 Bronze
AS 9100
ISO 9001

Approvals
Bombardier Aerospace,
Thales, Goodrich,
B/E Aerospace, BAE Systems,
Sener and Thompson Aero Seating

Contact
Connor Jordan
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T: +44 (0) 28 3833 3482
W: www.springco.co.uk

Address
21 Carn Road, Carn Industrial Estate
PORTADOWN
BT63 5WG

Survitec Group Ltd

Core Activities

Design
Manufacturing
Testing & Qualification
Training
Servicing & Maintenance

Year Established

1920

Employee Number

250+

Annual sales

\$10m +

Certifications

ISO 9001:2000
AS 9100 Rev C
Environmental 14001

Approvals

FAA, EASA, CAA

Contact

David McCourt
E: david.mccourt@survitecgroup.com
T: +44 (0) 28 9030 1531
W: www.survitecgroup.com

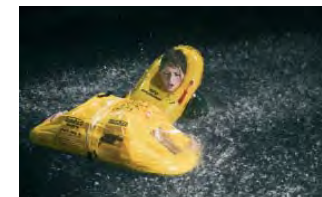
Address

Kingsway, Dunmurry
BELFAST
BT17 9AF

Survitec Group is the world's premier survival technology company with over 90 years' experience as subject matter experts in aerospace safety survival equipment. With over 10 manufacturing sites worldwide, its product and service offering is unrivalled. Products include liferafts, lifejackets, baby flotation devices, survival suits, and complete servicing and maintenance provisions.

Areas of expertise:

- Designed the 1st helicopter specific liferaft, the RFD Heliraft
- Designed 1st ever commercially available lifepreserver 'Mae West'
- Safety solution for virtually any aircraft, complete safety survival package
- Full engineering and design capabilities
- Complete product manufacture and assembly with testing and qualification



Technical Metals offers customers a wide range of Anodising and Surface preparation processes which include Clear, Black and Bright Anodising, Beadblasting, Finishing and Aluprinting.

Areas of expertise:

- Anodising (Clear, Half Bright, Bright, Black)
- Bead Blasting, Buffing, Linishing
- Aluprinting
- CNC Machining
- Passivation



Technical Metals Ltd

Core Activities

CNC Machining
Anodising
Bead Blasting and
Polishing

Year Established

1984

Employee Number

<50

Annual sales

\$1-\$5m

Certifications

AS 9100 Rev C
ISO 9001

Approvals

B/E Aerospace, Thales,
Thompson Aero Seating

Contact

Darren Sales
E : darren.sales@techmetals.co.uk
T : +44 (0) 28 9181 1212
W : www.techmetals.co.uk

Address

Unit 3 Kiltonga Industrial Estate
NEWTOWNARDS
BT23 4TJ

Thales UK Ltd

Core Activities
Engineering

Year Established
2000

Employee Number
250+

Annual sales
\$10m +

Certifications
ISO 9001/14001/18001
AS 9100
CMMI Level 11
IIP Gold Award
DAOS
IAMM Level 3

Thales ADW is the centre of excellence for missile systems design, development and manufacturing within the Thales Group. From its Belfast, UK headquarters, Thales ADW has been the world leading provider of short range weapon systems for over 50 years.

Areas of expertise:

- Part of Thales Group - a global company with 67,000 employees and \$18.7bn in revenues
- Centre of excellence for missile systems, design, development and manufacturing
- World leading supplier of short-range Missile Systems
- UK Leader of Lightweight Missile Systems
- Northern Ireland's leader in R&D and engineering innovation



Contacts

Dawn Ross
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T: +44 (0) 28 9046 5521
W: www.thalesgroup.com/uk

Address

Alanbrooke Road,
BELFAST
BT6 9HB



www.thompsonaero.com

Thompson Aero Seating designs and manufactures innovative premium aircraft seating products. With extensive and expanding R&D, engineering and manufacturing capabilities. Thompson's customer base comprises many of the world's leading airlines including American Airlines, Air Canada, Austrian Airlines and Qantas.

Areas of expertise:

- Innovative and efficient seating solutions, maximising passenger comfort and cabin space
- Extensive in-house capability and competence enables high levels of customisation and bespoke development
- Turnkey solution – all products designed, engineered, manufactured and assembled by Thompson in Portadown
- Near shore, high quality supply chain



Thompson Aero Seating Ltd

Core Activities
Design, engineering and manufacture of premium aircraft seating

Year Established
2002

Employee Number
51-249

Annual sales
\$10m +

Certifications
EASA Part 145
BSI AS9100 Rev C
TCCA
FAR145
EASA Part 21G

Approvals
EASA 21J APDOA

Contact
Andy Morris
E: andy.morris@thompsonaero.com
T: +44 (0) 28 3833 4000
W: www.thompsonaero.com

Address
51 Seagoe Industrial Area
PORTADOWN
BT63 5QE



www.thyssenkruppaerospace.com

ThyssenKrupp Aerospace

Core Activities

Stock hold, preparation & supply of ferrous & non-ferrous materials into aerospace sector

Year Established

2008

Employee Number

<50

Annual sales

\$10m +

Certifications

ISO 9001:2008

AS 9100

AS 9120

Approvals

Bombardier Aerospace, Airbus, Westland, Thales, BAE Systems, BSI

ThyssenKrupp Aerospace is a subsidiary of the €40 billion international ThyssenKrupp Group. ThyssenKrupp focuses on supplying aerospace raw materials and finished parts logistics to the world's leading aerospace companies and their supply chains. Operating from numerous service centres throughout the Americas, Europe, Africa and Asia Pacific enables ThyssenKrupp to aggregate demand across a single supply chain on behalf of the world's leading OEMs.

Areas of expertise:

- Quick response to adhoc requests
- Service provision
- Supply chain management
- 3rd party logistics (3PL)
- Tooling management



Contact

Andy Scott

E: andy.scott@thyssenkrupp.com

T: + 44 (0) 28 9184 4140

W: www.thyssenkruppaerospace.com

Address

Kiltonga Industrial Estate, Belfast Road

NEWTOWNARDS

BT23 4TJ

Ulster is a university with a national and international reputation for excellence, innovation and regional engagement.

Areas of expertise:

Ulster’s research strategy is implemented through a number of powerful, multi-disciplinary research institutes developed with particular focus on key industry sectors/niche market areas:

- Engineering Research Institute - ERI & Northern Ireland Advanced Composites Engineering Centre - NIACE
 - ECRE - Composites Research
 - AmFoR - Advanced Metal Forming
 - NIBEC - Nanomaterials/Nanofabrication/Clean Technologies
- Fire Safety Engineering (FireSERT)/Hydrogen Safety Engineering (HySAFER)
- Computer Science Research Institute (CSRI)

The 2014 REF results show Engineering at Ulster is in the top 20 within the UK as well as being the leading materials research institute in Northern Ireland. Also, 100% of the institute’s research impact is world-leading.



Ulster University

Core Activities

Teaching and learning, widening access to education, research & innovation and technology & knowledge transfer

Year Established

1984

Employee Number

250+

Annual sales

\$10m +

Contact

Dr Alistair McIlhagger
 E : a.mcilhagger@ulster.ac.uk
 T : +44 (0) 28 9036 6670
 W : www.ulster.ac.uk

Address

Cromore Road
 COLERAINE
 BT52 1SA



United Performance Metals Ltd.

Core Activities

Stockists of titanium and hi-temperature specialty alloys with comprehensive value-added services and supply chain management.

Year Established

1967

Employee Number

<50

Annual sales

\$10m +

Certifications

ISO 9001:2008 International
AS9100:2009 Rev C international
AS9120 Rev A, PWA 119 1&2
ISO 13485:2003
AS7003, EE02-S-422

Contact

Michael O'Prey
E: moprey@upmet.uk
T: +44 (0) 28 9181 7919
T: +44 (0) 78 2533 0594
W: www.upmet.uk

Address

Ballyharry Business Park
6 Berkshire Road
NEWTOWNARDS
BT23 7HH

United Performance Metals stocks titanium, stainless steel, nickel, cobalt and cobalt chrome moly in sheet, coil, plate, bar and forged block in aero grades for customers worldwide. FirstCut+® prefabrication services include water jet cutting, bar sawing, plate sawing and shearing. UPM offers comprehensive supply chain management.

Areas of expertise:

- Specialists in titanium, stainless steel, nickel alloys, cobalt alloys and cobalt chrome moly
- Comprehensive inventory in sheet, coil, plate, bar & forged block
- FirstCut+ processing and prefabrication services
- Same or next day shipment from stock; mill quantities to blanket orders
- Comprehensive supply chain management and quality approvals



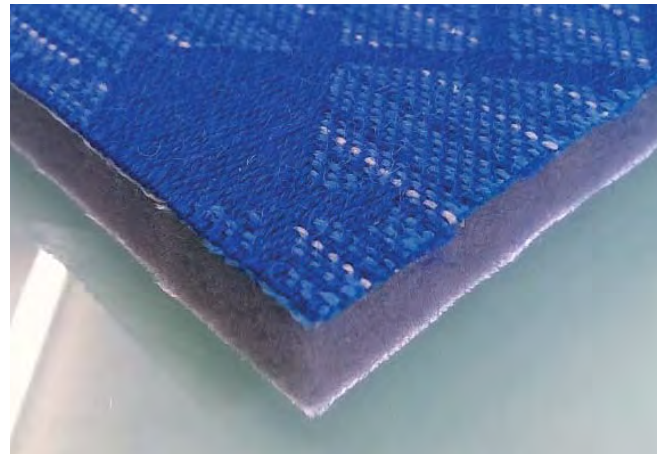
Vita Materials

www.vitamaterials.com

Vita Materials manufactures foam products for seating, composites components, laminates and thermal/acoustics for the aerospace industry and other industries. Vita Materials also supplies Longhaul Technologies intelligent air/foam seating which has up to 45% weight reduction.

Areas of expertise:

- Well established skill set
- Component supplier to - Part 145 & Part 21 companies
- Premier technical foam supplier in Ireland with global reach
- In-house computerised design suite
- Multi-density foam seating; air and foam technology and cover lamination



Vita Materials Ltd

Core Activities

Conversion, fabrication and lamination of foam products

Year Established

1964

Employee Number

<50

Annual sales

\$1-\$5m

Certifications

ISO 9000:2008

Approvals

Supply products to multiple EASA Part 145 & Part 21 companies and airlines

Contact

Vincent Lennon
E : vincent.lennon@vitamaterials.com
T : +44 (0) 28 9061 8625
W : www.vitamaterials.com

Address

15-18 City Business Park, Dunmurry
BELFAST
BT17 9GX

Whale (Munster Simms Engineering Ltd)

Core Activities

3D Printing, Rapid Prototyping
Polymer Moulding, Manufacturing

Year Established

1810

Employee Number

51-249

Annual sales

\$10m +

Certifications

AS 9100
ISO 9001:2008 Quality
Management System
ISO 14001:2004 Environment
Management System
BS OHSAS 18001:2007 Health and
Safety Management System.

Contact

Jim Sargent
E: jims@whalepumps.com
T: +44 (0) 28 9127 6523
W: www.whale3d.co.uk

Address

2 Enterprise Road
BANGOR
BT19 7TA

Whale's advanced 3D printing service offers high accuracy. Multi-material prototypes are available in a range of plastic, rubber, watertight or transparent materials all printed in a single part. By also offering 3D printed polymer injection mould tools, Whale enables clients to run small pre-production runs to prove out tooling design or run a test build of products faster with less risk than ever before.

Areas of expertise:

- Multi material high accuracy 3D printing (Stratasys Connex)
- Robust durable FDM 3D printing
- Advanced polymer Injection moulding
- Leading lean manufacturing
- Additive Manufacturing



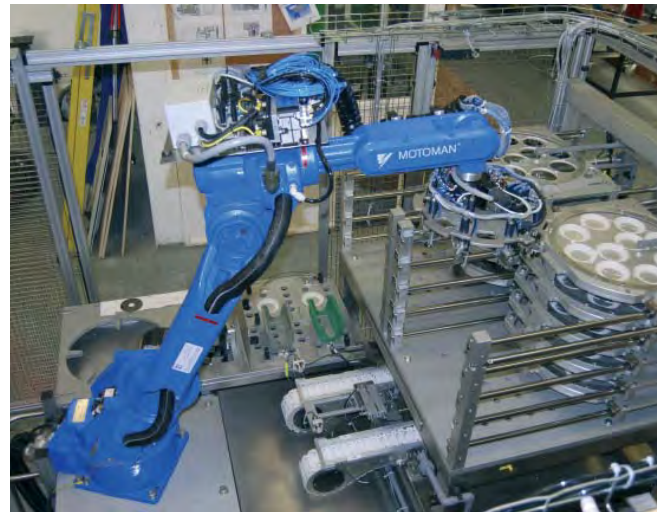


www.wis-aerospace.com
www.wis-group.com

WIS Group designs, manufactures and installs automated machinery and systems for aerospace and composites manufacturers. WIS Group employs over 150 engineers, project managers, technicians and support staff, delivering turn-key projects from bespoke machine building to robotic cells with the aim of assisting manufacturers to reduce costs whilst improving quality.

Areas of expertise:

- Hot drape vacuum forming machines for composite materials, in sizes to fulfil customer requirements
- Spray booths and automated paint facilities
- Instrumentation, controls and SCADA, including refurbishment of existing machinery
- Robotic cells for CNC of light materials, trimming, drilling, spraying, material handling, etc
- Automated machinery such as reticulators, vacuum drop testers, RTM presses and RTI systems



WIS Group

Core Activities

Design, manufacture and installation of automated machinery and systems

Year Established

1983

Employee Number

51-249

Annual sales

\$10m +

Certifications

ISO 9001:2008 for Quality Systems
ISO 14001:2004 for Environmental
OHSAS 18001:2007 for Health and Safety

Approvals

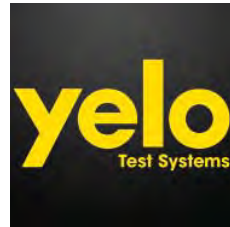
All machines and systems CE Marked

Contact

Gareth Caves
E : garethcaves@wis-group.com
T : +44 (0) 28 9083 8999
W : www.wis-aerospace.com
W : www.wis-group.com

Address

Hydepark Commercial Centre
10 Hydepark Road, Mallusk
NEWTOWNABBEY
BT36 4PY



Yelo

Core Activities

Manufacturing of automated laser testing equipment

Year Established

1983

Employee Number

<50

Annual sales

\$1-\$5m

Certifications

ISO 9001

Yelo manufactures laser testing equipment and has been performing laser diode reliability testing and printed circuit board (PCB) testing for over 30 years for the photonics industry. Yelo is a dynamic engineering company renowned for its cutting edge technology, with customers ranging from large multinational corporations to smaller specialist companies.

Areas of expertise:

- Automated laser diode testing equipment
- Laser diode reliability testing
- Printed circuit board testing
- Burn-in and Life Test

Contact

Dylan Burke
E: dylan.burke@yelo.co.uk
T: +44 (0) 28 9335 7300
W: www.yelo.co.uk

Address

75 Belfast Road
CARRICKFERGUS
BT38 8BX





www.investni.com

Invest NI is the main economic development agency for this part of the UK. It promotes inward investment and trade with Northern Ireland from an extensive network of overseas offices.

Invest NI offers inward investors one of the most attractive support packages available in Europe. Companies operating in Northern Ireland benefit from a wide range of UK tax incentives such as Patent Box, enhanced R&D Tax Credits, property tax exemptions for manufacturing property and generous capital depreciation allowances.

From April 2018, Northern Ireland will introduce a new lower rate of corporation tax rate of 12.5%. Combined with Invest NI's support for Job Creation, Training, Research Development and Innovation, this makes Northern Ireland the most attractive region in Western Europe, based on a combination of Talent, Value and Tax.

Invest NI's packages of financial support are tailor-made for each individual investment project and a dedicated Invest NI project team will work on the project construction, implementation and post-setup operations as well as an ongoing partnership approach to ensure companies located in the region have successful growth.

Financial support can include:

- Employment grants, to support job creation
- Pre and post-employment training assistance, to support skills development
- Research and Development grants, to support new product development and innovation
- Financial investment in the share capital of a company and loans at commercial and concessionary rates, to support business growth
- Market development assistance, to support exports
- Investment in VC and Loan Funds, to support local start-ups and high potential growth companies

Non financial support includes a range of technical and advisory support services in areas such as:

- Property search and selection
- Talent sourcing
- Operating efficiency
- Business development support



Invest Northern Ireland (Invest NI)

Core Activities

Economic development of Northern Ireland through attracting new inward investment and supporting Northern Ireland companies in increasing export sales.

Year Established
2002

Employee Number
>250

Contact

Aerospace team
E : aerospace@investni.com
T : +44 (0) 28 9069 8507
W : www.investni.com

Address

1 Bedford St
BELFAST
BT2 7ES

COMPANY NAME	Composites	Defence	Design & Stress Engineering	Logistics	Materials Supply	Metal Forming	Precision Machining	Seating/Safety	Structures/Wings	Tooling	Treatments	Research/Training	Other
Magellan Aerospace													●
Marlborough Engineering							●			●			
McAuley Precision						●	●						
McGreevy Engineering							●						
Mo Team	●		●										
Morson Projects			●										
Moyfab Tool Company										●			
Moyola Precision Engineering							●			●			
Nacelle Systems Consultancy			●										
Nicholl Engineering							●						
Nitronica Ltd			●									●	
NIACE												●	
NITC												●	
Nova-Tech Engineering			●							●			
Queen's University Belfast												●	
John Rainey & Son										●			
RLC (UK)							●				●		
RTA Ireland				●									
Schivo NI							●		●				
Smiths Engineering							●						
Springco (NI)						●	●						
Survitec Group								●					
Technical Metals											●		
Thales UK		●	●										
Thompson Aero Seating								●					
ThyssenKrupp Aerospace					●								
Ulster University						●						●	
United Performance Metals					●								
Vita Materials					●								
Whale (Munster Simms)													●
WIS Group										●			
Yelo													●





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