

BELGIAN



AEROSPACE



PARIS AIR SHOW 2017

LE BOURGET → HALL 2b

19/06/2017 → 25/06/2017

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WALLONIA EXPORT-INVESTMENT AGENCY



Wallonia.be

EXPORT
INVESTMENT

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- › Mrs Pascale **DELCOMMINETTE**, CEO
- › Mrs Dominique **TOURNEUR**, Deputy General Manager Europe
- › Mr Fabio **MAURO**, Western Europe Department Manager

Representatives:

- › Mrs Violaine **BARTHELEMY**, Area Manager France
- › Mrs Aline **LERMUSIEAUX**, Liaison Officer Skywin

The **Wallonia Export-Investment Agency (AWEX)** is the Wallonia Region of Belgium's government agency in charge of foreign trade promotion and foreign investment attraction. The agency has a worldwide network of more than 100 Economic Commercial Advisors.

AWEX has been ISO 9001 (ed. 2008) certified since April 2002.

Follow us on Twitter : [@Awex_europe](https://twitter.com/Awex_europe)

And on Facebook : [@AwexEuropeOccidentale](https://www.facebook.com/AwexEuropeOccidentale)

As a foreign trade agency, **AWEX** carries out a mission of promotion and information for the benefit of both Wallonia and the foreign business community.

Upon request, **AWEX** assists buyers, decision-makers, importers and foreign prospects by:

- Providing economic data on Wallonia and its export potential
- Disseminating information on products and services from companies located in Wallonia
- Identifying companies in Wallonia for international partnerships
- Distributing lists of exporters from Wallonia

As an export partner for Wallonia-based companies, **AWEX** offers a wide range of export-oriented services and activities:

- General and commercial information on foreign markets
- Market studies tailored to specific areas upon request
- Organization and planning of marketing activities (international trade shows, economic missions, sector-based contact days...)
- Establishing contacts with international organizations
- Promoting Wallonia's export potential abroad
- Financial support and export financing
- Training in international careers

As a foreign investment agency, **AWEX** has an overall responsibility for the attraction of foreign investment in Wallonia. This includes seeking out and providing information to potential foreign investors. The agency also offers a pro-active follow-up service to investors already established in Wallonia. In addition, it is in charge of identifying new foreign investors for the acquisition of industrial sites under restructuring process.

FLANDERS INVESTMENT & TRADE

FLANDERS INVESTMENT & TRADE



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- › Mrs Claire **TILLEKAERTS**, CEO
- › Mr Jeroen **DE VUYST**, Head Of Department - Trade Fairs & Events
- › Mrs Annemieke **DE TOLLENAERE**, Project Manager
- › Mr Kristof **CUVELIER**, Assistant Area Manager (Asia-Pacific)

The Flanders Investment & Trade agency promotes sustainable international business, in the interest of both Flanders-based companies and overseas enterprises.

Whatever sector you are involved in, Flanders Investment & Trade will help you establish contact with the Flemish companies you are looking for. This includes not only products or services you may be sourcing, but also various types of business relationships, from joint ventures to technology transfers.

At another level Flanders Investment & Trade enhances Flanders' position as the gateway to Europe for inward investors. The agency identifies, informs, advises and supports overseas enterprises by establishing production and research facilities, contact centers, headquarters, logistics operations and the like in Flanders, the northern region of Belgium.

This broad focus on international entrepreneurship, involving outward trade as well as inward investments, requires not only a thorough knowledge of Flemish economy, but also an extensive network outside of Flanders. We have just that for you.

Do visit our website and discover our worldwide network. With over 90 offices we are bound to be conveniently located near you, wherever you are.

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- Mr Pierre **SONVEAUX**, Chairman
- Mr Etienne **POURBAIX**, Managing Director
- Mr Jean-Jacques **WESTHOF**, Secretary-General
- Mr David **PRAET**, Deputy Director, International relations
- Mr Michel **STASSART**, Deputy Director, Space Programs
- Mr Claudine **BON**, Deputy Director, Project & Trainings
- Mr Pierre-Jean **FONDU**, Project Manager

Skywin Wallonie is the Aerospace cluster of the Walloon Region of Belgium. Skywin gathers a group of companies, training centers and research units engaged in public and private partnership and building synergies around common and innovative projects in the Walloon region of Belgium.

Skywin was established in 2006 by the Walloon regional government and represents some 7,000 direct jobs and more than € 1,6 billion in revenue, exporting more than 90% of its products.

Skywin counts more than 150 members including more than 90 SME's.

- The Walloon Aeronautics Industry (1350M€, 5500 employees) is mainly focused on Aircraft Engines and Structure, Equipment, Simulation and Training.
- The Walloon Space Industry (250M€, 1500 employees) is mainly focused on Equipment for satellite payload and launcher, System exploitation and Space applications.



As a competitiveness cluster, Skywin's objective is to foster and promote the technological developments of Walloon aerospace entities, which supply competitive products and services.

Up to now, Skywin managed 18 Call for Proposals, representing a total of 72 projects in the domains of R&D, Investment or Training for a total budget of nearly 225 M€. These projects totalize about 335 contributions from innovation actors in Wallonia, led by Industry (with a strong involvement of our SME's).

The 6 priorities and strategic orientations of the Skywin Cluster are the following:

- Composite materials and Processes
- Metallic materials and Processes (including Additive Manufacturing process)
- Embedded Systems (for airplanes, satellites or drones)
- Airport Services
- Space and Drone Applications and Systems
- Modeling and Simulation (as transverse orientation)

FLEMISH AEROSPACE GROUP (FLAG)

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FLEMISH AEROSPACE GROUP

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Company Background

The Flemish Aerospace Group (FLAG) is a cluster organization for enterprises active in the aerospace market.

Our organization supports the development of aviation and related technologies, improves the visibility of the Flemish aerospace globally aiming for a growing market share.

We cater for our members' interest on a political level, facilitate networking between our members and supports establishing a triple helix structure for R&D. FLAG became an official cluster supported by the Flemish Government on April 1, 2017.

Added Value

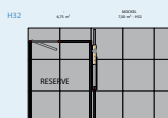
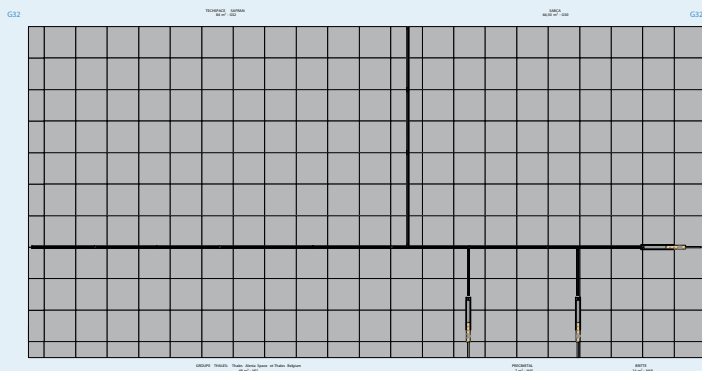
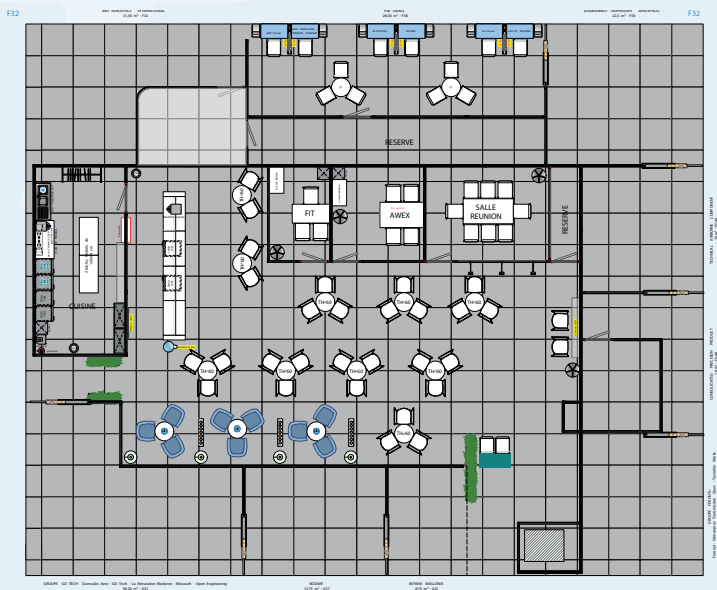
- Are you already active in the aeronautical market and want to increase your business potential?
- Are you not in the aeronautical market yet and you are looking for a way to enter the complex but fascinating world of aviation?
- Are you wondering how your technology can break into the aeronautical sector?
- Are you hesitating because aviation is complex and operates under very stringent requirements?
- Are you looking for partnerships in Flanders?
- Are you looking to invest in Flanders?

FLAG will help you find your way whether it is market access, insights, technology matching or internationalization. Our peers who have decades of experience, will link up with you for joint projects lowering the threshold for your first steps in the aeronautical sector.

EXHIBITORS

- A.E. PETSCHÉ BELGIUM
- ACTC
- ADVA CONSULT
- ADVANCED COATING
- AEROSIMULATORS GROUP
- AIRCRAFT TRADERS BELGIUM
- AKKA BELGIUM
- AMOS
- AMT-TITASTAR
- ANTICIP CONSULT - Q-SQUARE AEROSPACE
- ANY-SHAPE
- ASCO INDUSTRIES
- BALTEAU NDT
- BIG BAD WOLF
- B-LIFE
- BMT AEROSPACE INTERNATIONAL
- BODAIR
- BRITTE-MUSTAD
- CAPAUL
- CENAERO
- CENTRE SPATIAL DE LIEGE
- CITIUS ENGINEERING
- COEXPAIR
- CONSOLIDATED PRECISION PRODUCTS
- DEJOND
- DELTATEC
- DESIMONE
- DUMOULIN AERO
- ESNAH
- FERONYL
- FN HERSTAL
- GDTech
- GILLAM-FEI
- GRIMONPREZ TRANSMISSION GEARS
- HTMS (High Tech Metal Seals)
- HUBITOOLS
- JD'C INNOVATION
- KU Leuven
- L&D JET TECHNIK
- LA NITRURATION MODERNE
- LESCOV
- LIONOIL - Antwerp Lion Oil Works
- MECASOFT
- MECASPRING
- MH-AUTOMATION
- MOCKEL
- NITTO BELGIUM
- NUMFLO / NUMECA International
- OPEN ENGINEERING
- OPTIMAL AIRCRAFT DESIGN
- OPTIMUM CPV
- ORBAN MICROWAVE PRODUCTS
- PRECIMETAL Precision Castings
- PROMAT
- ROGERS CORPORATION
- ROVI-TECH
- SABCA (Société anonyme belge de construction aéronautique)
- SABCA LIMBURG
- SABENA AEROSPACE
- SAFRAN AERO BOOSTERS
- SENSY LOAD CELLS
- SEPTENTRIO SATELLITE NAVIGATION
- SKYWASH
- SONACA
- SPACEBEL
- ST EXTRUDED PRODUCTS GROUP (STEP-G)
- TECHNICAL AIRBORNE COMPONENTS
- TECNOLON WORKS
- THALES ALENIA SPACE BELGIUM
- THALES BELGIUM
- (UN)MANNED
- V2i
- VANHULEN HIGH PRECISION SPRINGS
- VITO (Flemish Institute for Technological Research)
- VRI (Flemish Space Industry)
- WAN (Wallonia Aerotraining Network)

PLAN



A.E. PETSCHÉ Belgium



Aerospace & Defense

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A.E. Petsche Company, a division of Arrow Electronics, is the leading global supplier of aerospace and defense interconnect solutions.

Our expertise in interconnect components has been built over decades of experience serving the industry, and it's engineered for the demands of the future. We maintain one of the industry's most comprehensive inventories of high performance and OEM specification wire, cable, connectors and accessories.

Pair our products with customized solutions to ensure streamlined efficiencies in your supply chain. Together we can prepare solutions for the world that's coming. Are you Five Years Out?

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Company Background

ACTC is a worldwide leading provider of aircraft parts, tools and materials. With 100 years of combined aviation experience and a solid background in Airlines - MROs and OEMs, ACTC offers customers real-time solutions. ACTC has the knowledge and expertise to provide the most effective and resourceful solutions for commercial aerospace and government/defense industries. ACTC holds large inventories of spare parts for Boeing - Airbus - Bae146 - Fokker and many other platforms. Having offices and parts in Belgium - Spain - Romania and Turkey, ACTC provides trustworthy services and high quality/reliable spare parts to over 250 customers 24/7. ACTC is a devoted partner with a never-ending commitment to innovation, success, continuous improvement and customer added value. Please visit us to find out more about our services and programs.

Added Value

With its strategic locations, ACTC offers 24/7 customer support and shipping to any part of the world. Our experienced staff is devoted in providing the best fit solutions to all customer's priorities and this with maintaining the highest quality. ACTC's excellence and innovation in inventory and end-life aircraft management create the highest return value to all its Airline - MRO and OEM partners.

Range of Products

ACTC offers the following range of products: Exchange/ Loan/Sales Programs - PBH - Repair and Purchasing Management - Inventory and End-Life Aircraft Management - Base Kit Programs - 24/7 AOG Support - Consulting Services.

Certification

ISO 9001: 2008 / EN 9120: 2009 (AS 9120 A)

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COMPANY BACKGROUND

adva consult has been founded in 2000 by Eric Croisy, Master in Science Industrial Engineering (ECAM, Brussels). With our European partners (FR, UK, SP, PT,...) we are specialized in HR services for industry (mechanics, electronics, electromechanics, mathematics & statistics,...) including Aerospace businesses.

ADDED VALUE

At adva consult we provide added value, not only thanks to our excellent sector experience but also through our international capabilities.

Using advanced search technology and in co-operation with our European colleagues, we are able to resource top talent on an international basis, from Operational Level to Senior Management and covering most functions, including technical, sales and management positions.

RANGE OF PRODUCTS

We offer a best in class service in the field of Executive Search, Recruitment, Consultancy, Change Management, etc.

Our exceptional expertise in all aspects of psychometric assessment combined with experience in manufacturing ensures a detailed insight into our Clients' requirements, and the delivery of only the most relevant and talented candidates.

MAIN REFERENCES

Aerospace: Skytanking, BEVAC Engineering, Meggitt, Senior Aerospace, ISQ, EMPORDEF,...

Industry others: AUDI, Baxter, Cenexi, Alcon, Garnimetal, BETA Tools, Titex Plus,...

CERTIFICATION(S)

People at adva consult are certified in engineering and/or in HR Management.

We are confident that we are able to develop a bespoke solution to your talent issues - either for permanent or for interim appointments - supported by our exceptional service levels.

ADVANCED COATING

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COMPANY BACKGROUND

Advanced Coating designs, develops and applies arc, cold, plasma and supersonic spraying of metals, alloys, ceramics and carbides on all kinds and sizes of machine parts.

Advanced Coating is a specialist in flat and cylindrical grinding as well as super finishing and balancing of parts.

CERTIFICATION(S)

- ISO 9001
- ISO 14001
- EN 9100
- NADCAP
- Laboratory certified by SAFRAN

COATING SPECIFICATION

- Wear-resistant coatings
- Thermal barrier coatings
- Surface with low or high friction rates
- Non-stick coating

MEASUREMENT PRODUCTS

- Sales and After-Sales Service:
- Rollprof: roll profile measurement inside your machine
- Pénétrascop: vickers hardness measurement
- Occhio 500 Nano®: shape and size of particles
- Galvalibs®

MAIN REFERENCES

AIRBUS INDUSTRIE - EUROCOPTER - FORGES DE BOLOGNE - LIEBHERR AEROSPACE - SAFRAN AERO BOOSTERS - SERTA - SNECMA - SONACA

AEROSIMULATORS GROUP

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COMPANY BACKGROUND

AEROSIMULATORS was the first company to provide the aviation community with an Electro-Optic/Infrared (EO/IR) sensor simulator, and maintains its commitment to providing our customers with the most comprehensive suite of turret simulations available on the market. These simulations are able to interface with multiple Image Generation (IG) and mapping systems. Our team of IG scenery content database specialists is able to construct any required geographical and geo-specific terrain content and, in concert with our operational SMEs, is able to produce the specific mission environments and scenarios in which our customers wish to train and operate.

ADDED VALUE

Additionally, ASG Sensor Academy, our Intelligence, Surveillance and Reconnaissance (ISR) training enterprise, offers customers a modular, wide-ranging approach to EO/IR and other sensor instruction. Comprehensive, structured and targeted, our training programs cover all aspects of operating most airborne sensor systems and is available for both rotary and fixed wing aircraft operations, as well as land and maritime applications. Each course is tailored to the unique requirements of individual customers, with training modules available for all aspects of operations from basic sensor theory to the operational employment of the platform and sensor payload.

RANGE OF PRODUCTS

Simulation products and training services for EO/IR, Radar, ISTAR, ISR, ASW (Anti-Submarine Warfare) and EW (Electronic Warfare).

MAIN REFERENCES

US Dept. of Defense; Lockheed Martin; Northrop Grumman; Raytheon; US Customs & Border Protection; L3-IS/L3-ForceX; FLIR Systems; Sierra Nevada Corporation; US DEA; Babcock; US Coast Guard; Royal Canadian Mounted Police; Royal Australian Air Force; Embraer; UK Ministry of Defence; London Metropolitan Police; Royal Air Force; UAE Armed Forces; CAE Aviation (Luxembourg); Dutch Police ASU.

CERTIFICATION

DSAT compliance training

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COMPANY BACKGROUND

AIRCRAFT TRADERS BELGIUM s.a. was founded in Belgium in 2001. It specializes in the sale and the purchase of freighters aircraft. After the 2008 crisis, AT Belgium oriented their activities into the operational domain of Aviation with the leasing of their own fleet of aircraft to operators located in Africa, Middle East and Central America developing very good relations with the Civil Aviation Authorities of these countries which did not hesitate to contact them to supply drones for local end-users. They made the decision to manufacture the GUARDIAN EYE with the assistance of the University of Liège. Early in 2015, the first carbon fiber prototype flew and they began mass production in 2016 integrated with the most developed technologies such as Streambox and Altadevices products.

RANGE OF PRODUCTS

- DC9F AIRCRAFT
- BOEING 737F
- BOEING 727F
- U.A.V

MAIN REFERENCES

- STREAMBOX
- ALTADEVICES
- AIRELECTRONICS
- REFITECH
- ASTRAL AVIATION

AKKA BELGIUM

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COMPANY BACKGROUND

AKKA BELGIUM is the leader specialist in high technology and industrial engineering consulting in Belgium. Its 800 experts serve in the field of innovation, assisting large manufacturing companies in the full range of their innovation processes and in the lifecycle of their products, from initial studies to the start of large-scale production. For almost 30 years, AKKA Belgium has been developing its global aeronautical offer: from manufacturer design offices to operators, including OEMs, airlines owners and lessors.

ADDED VALUE

- In house R&D Center to promote innovation and technology transfer
- Proven experience with key aeronautical worldwide actors: manufacturers, OEMs, and air transport
- Aeronautical expertise covering the entire life cycle of the aircraft, since its design to operation and eventual conversion
- Air Transport Specialist with expertise to support the manufacturer's customer support

RANGE OF PRODUCTS

- Cockpit ergonomics
- Embedded Software
- System conception and integration & installation: hydro-electric, avionic, ...
- Aerostructure: metal, composite, static calculation, stress/non linear, cinematic

- Flight physics and aerodynamics
- Power plant
- Aircraft modifications
- Software development
- 3d tools: virtual maintenance, digital mockup, viewer 3d real time...
- Flight ops and maintenance
- Ground/flight tests
- Technical publications maintenance, service bulletin, electrical schematics...

MAIN REFERENCES

Since nearly 30 years, AKKA BELGIUM has been working with the major aeronautical actors of Belgium: Safran Aero Boosters, Sonaca, Asco, Sabca, Safran Aircraft Engine Services Brussels, ...

AKKA Group references: Airbus Group, Air France, Boeing, Bombardier, Dassault Aviation, Embraer, Thales, ...

CERTIFICATION(S)

For TC or modifications, upgrades & new developments, STC (avionics, cabin, conversion, external liveries). EASA Part 21 DOA & POA and GCAA DOA certificates

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COMPANY BACKGROUND

Located in Belgium, **AMOS** has been designing and building high-precision optical and mechanical custom equipment for more than 30 years. It occupies today more than 100 employees highly skilled in advanced technologies. **AMOS** delivers turn-key solutions by taking end-to-end project ownership from design down to on-site installation and commissioning. **AMOS** also works on subsystems in collaboration with its customers, whether on the design or the manufacture or both.

ADDED VALUE

AMOS' added value recognized by its customers is:

- Cutting-edge expertise in optics and high-precision mechanics,
- Ability to reach the limit of technology despite challenges,
- High quality thanks to in-house manufacturing,
- Robust and reliable solutions for long-term use.

RANGE OF PRODUCTS

- Professional astronomy systems: telescopes, components and instrumentation.
- Space instrumentation: on-board equipment for satellites such as mirrors and gratings, opto-mechanical subsystems, telescopes, spectrometers and hyperspectral instruments.
- Ground-based equipment to help integrate or test satellites or payloads (collimators, OGSE, MGSE) and to simulate space conditions (Thermal-Vacuum chambers).
- High-precision assemblies for industry and science laboratories.

MAIN REFERENCES

AMOS has most of its customers in Europe (ESA, ESO, AIRBUS DEFENCE & SPACE, THALES ALENIA SPACE, OHB), in the United States (AURA), in India (ISRO, PRL, ARIES), and has recently expanded its business in countries like China, Turkey or Russia.

CERTIFICATION

ISO9001

AMT-TITASTAR

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COMPANY BACKGROUND

AMT-Titastar is a new joint venture between AET SAS and BMT Aerospace.

AMT-Titastar has 2 kinds of activities:

- Smart Tools for the aerospace industry
- Design and manufacturing of metallic components and tooling by means of additive manufacturing (using the EBM technology)

ADDED VALUE

The SD family of Smart Drillers is revolutionizing the drilling tools market. Our drilling machines are fully electrical and capable to drill and countersink high quality bores in any multiple stack-up aeronautic assembly. The machines are light, powerful, fully integrated, and can be adapted to any production environment. The Smart Driller's embedded electronics give complete programmability and traceability of the drilling cycles. They can be supplied both as hand-held or robot-mounted tools.

And of course they are made in titanium by additive manufacturing.

In term of metallic 3D printed products, it is essential to co-design the product taking into account all functions and the specificities of 3D printing. This is what we do in AMT-Titastar!

RANGE OF PRODUCTS

- Smart Drilling machines
- Smart Driller Utility Kart
- Surface Preparation Tools
- Tooling made with titanium 3D printing
- Your product made in 3D printed titanium
- Third party products optimized for metallic 3D printing

MAIN REFERENCES

- Airbus
- Thales
- Dassault Aviation
- BMT Aerospace
- ASCO

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COMPANIES BACKGROUND

Anticip Consult and Q-Square Aerospace are two private companies run by a multi-disciplinary team of consultants and engineers.

Our consultants have acquired a strong experience in aerospace industry and accompanied numbers of companies in Europe and in the world to lead different projects of improvement: general organisation, process optimisation, certification as well as quality and on time delivery performances.

ADDED VALUE

Keep it simple and efficient!

Do your clients have high quality requirements? We accompany your business on the way to become more efficient and satisfy your more demanding customers.

Together, with our and client-based approach and our expertise in the aerospace supply chain, Q Square Aerospace and Anticip Consult provide long-term, flexible and efficient solutions to the benefits of your company, for today and your future.

RANGE OF PRODUCTS

Coaching - Training - Audit for aeroSpace industry and service

- Quality management systems (EN 9100 serie)
- Product and Project quality assurance (configuration management, process qualification,...)
- Performance improvement
- Suppliers management
- Software quality assurance
- and associated support in safety, environment, CE marking,...

MAIN REFERENCES

More than 400 companies coached and trained for their management systems and quality assurance, including more than 50 companies in the aerospace field.

CERTIFICATION(S)

- ISO 9001 : 2015
- 3 IAQG certified EN 9100 auditors in the team

ANY-SHAPE

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COMPANY BACKGROUND

Any-Shape is a company dedicated to Additive Technologies (3D printing) for Industry with state-of-the-art equipments for the production of metal, plastic and composites industrial parts. Any-Shape helps every day companies in the use of additive technologies to contribute to the development of their innovative products. Our ambition is to be a leading industrial actor in Europe and beyond by providing our customers with the whole value chain in Additive Manufacturing (AM), with a specific focus on Design for AM and Quality Assessment.

ADDED VALUE

Any-Shape competitive assets are based on three main pillars:

- Engineering, co-conception & design for additive manufacturing: Any-Shape provides its customers with a professional support to exploit the full possibilities of industrial 3D printing while properly accounting for manufacturing constraints from the concept to the detailed design phase.
- Metal, plastic and composites parts serial production: Any-Shape manufactures high value parts in both plastic & metal for highly competitive industries. Consistent state-of-the-art technologies are available: Selective Laser Melting (SLM) for metal powders, Selective Laser Sintering (SLS) for polyamide powders, Multi-Jet Printing (MJP) for high-definition ABS-like plastic production and Fused Deposition Modeling (FDM) for continuous fiber reinforced composites.



- Quality assessment: Providing our customers with the best quality standards is our main concern as a way to favor the rapid introduction of 3D printed parts in highly demanding industrial applications. Each part is referenced and traceable in our quality management system. Detailed on-line and a posteriori process control is performed in parallel to rigorous part quality assessment.

RANGE OF PRODUCTS

From prototypes to serial production of metal, plastic and composites parts.

- Metallic materials available : Aluminium (AS10 & AS7), Titanium (TAGV), Stainless steel (316L), Inconel (In718), Maraging steel (MS1), ...
- Plastic materials available : Polyamide (PA11 & PA12), Aluminium filled polyamide (Alumide), Glass bead filled polyamide (GFPA), Flame retardant polyamide (FRPA), ABS-like plastics, ...
- Composites materials available : Nylon 6 matrix reinforced with continuous carbon, kevlar or glass fibers.

MAIN REFERENCES

SAFRAN (several subsidies), THALES, SONACA, CMI, PSA, VALEO, and many others from aerospace, defence, automotive and pharma sectors.

CERTIFICATION

EN9100

ASCO INDUSTRIES

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- › Mr Emile **BOAS**, Excellence Director
- › Mr Trudo **MOTMANS**, Chairman
- › Mr Laurent **CANOEN**, CCO



- › Mr Kevin **RUSSELL**, VP & G.M. Asco Aerospace Canada Lrd
- › Mr Ivan **REMELS**, Commercial Director
- › Mr Frédéric **SEUBIL**, Key Account Manager

ASCO, incorporated in 1954, is a **WORLD LEADER** and proven specialist from design to manufacturing of high lift devices and complex precision mechanical sub-assemblies for the aerospace industry.

Headquartered in Zaventem, Belgium, Asco has four manufacturing plants located in Belgium, the United States, Canada and Germany, with a total of 135.000m² covered industrial area.

Today, the Asco Group employs around 1500 dedicated men and women, with a turnover of 460 million USD (consolidated TO 2016).

Its worldwide, 100% aerospace customer base includes most OEM's as well as many related Tier-1 suppliers.

BALTEAU NDT

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COMPANY BACKGROUND

As an NDT manufacturer, Balteau is covering most industries by having portable units, stationary & mobile equipment, real time systems (standard and customized), NDT software, digital imaging, etc. Balteau is one of the most experienced and complete x-ray generators manufacturer and we proud ourselves for delivering high quality and highly reliable x-ray equipment for all type of industries since 1932.

ADDED VALUE

After sales service is one of the most important aspect and this is why we worked very hard to offer one of the best services possible. Thanks to our worldwide network, we are able to be responsive, offer fast delivery and fast maintenance. A customer orientated staff and an extensive network is the reason to the success of our brand and to your possibility of always getting, from the selection of your equipment to the follow up in service, a qualified and professional support.

RANGE OF PRODUCTS

- BALTOSPOT - Portable X-Ray generators
- BALTOGRAPH - Mobile & stationary x-ray generators and tubeheads
- BALTOMATIC - Standard & custom made real time systems
- BALTOSCOPE - Digital imaging & software suite
- ACCESSORIES - NDT accessories

MAIN REFERENCES

Safran, Swissair, Lufthansa, Pratt & Wittney, Snecma, Belgian Air Force, US Air Force, Australian Air Force, AIA, Emirates, Air France, Qatar Airways, Air China, Air India, Egypt Air, Agusta, Strata , TRS Global, etc.

CERTIFICATION(S)

CE, LCIE NFC 74100.

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COMPANY BACKGROUND

BIG BAD WOLF is a brand-tech communication agency employing 30 digital experts. We help innovative businesses shape powerful advertising campaigns and technology-driven brand experiences.

With more than 10 years of cutting-edge audiovisual know-how and new technologies expertise, we create interactive and personalized communication campaigns. We believe Virtual Reality and Augmented Reality object recognition and gestural interfaces are tools designed to improve business-to-consumer interactions.

The ever-changing landscape of Medias and technologies calls for a new kind of agencies, structured to fully understand and embrace those changes. Big Bad Wolf was built to answer that call

ADDED VALUE

Big Bad Wolf provides full range of services in communication, web and mobile applications, digital innovation and high-quality audiovisual content. From strategy to production to delivery, Big Bad Wolf integrates its many fields of expertise and know-how to create 360° communication campaigns, top notch web sites and applications and digital transformation custom tools.

RANGE OF PRODUCTS

Strategy, brand identity and creation-conception. Production of audiovisual content and interactive solutions such as Virtual Showrooms, Virtual Reality training tools, Augmented Reality configurators, e-commerce and corporate websites, mobile applications, computer-generated images and movies as well as visual effects.

MAIN REFERENCES

Air Belgium, DHL Formula E, IBA, BASF, PERNOD RICARD, LEONIDAS, SUZUKI, RENAULT, DONALDSON.

B-LiFE

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COMPANY BACKGROUND

B-LiFE “Biological Light Fieldable Laboratory for Emergencies” is a service bringing diagnostic capacities in the crisis area. B-LiFE consortium: CTMA-UCL, Aurea Imaging, Eonix, Nazka Mapps and SES TechCom. Support from ESA, Belspo and Luxembourg.

ADDED VALUE

The unique biological and medical diagnostic capacities of B-LiFE are complemented by the integration of space assets (satcom, EO and mapping, GNSS, UAS) to enhance the operational capabilities.

RANGE OF PRODUCTS

Emergency response services for biological, medical and CBRN crisis. Support and training for health infrastructures. Emergency telecommunication services. Earth observation and mapping. Real time epidemiological maps.

MAIN REFERENCES

B-LiFE has been deployed successfully in Guinea to fight the Ebola epidemics in 2014-2015. B-LiFE contributed to eradicate Ebola in the region of N'Zerekore, the forest region of Guinea.

CERTIFICATION

B-LiFE is integrated in the European Civil Protection Mechanism and in the European Medical Corps, managed by DG ECHO.

BMT AEROSPACE INTERNATIONAL

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COMPANY BACKGROUND

BMT Aerospace is a leading provider of gears, gear-boxes, transmissions and actuators for the global aerospace market. As a true business partner we are offering professional services from development up to after sales. BMT Aerospace International has a proven track record of building long-term partnerships with customers and is recognized as a reliable partner.

ADDED VALUE

Facilities in Oostkamp Belgium, Fraser Michigan USA and Iasi Romania have specialized in automated high precision machining and special processes, including heat treatments and surface enhancements. The value chain is realized "in-house". This allows us to manage every process step and the interaction between them. We also offer the additive manufacturing technology by printing titanium parts.



RANGE OF PRODUCTS

The specialties of BMT Aerospace are:

- Slat Leading Edge Actuation Devices
- Actuation Systems
- Flap Trailing Edge Actuation Devices
- Helicopter Drives
- Accessory & Power Gearing
- Turbine Engines
- Fuel/Lubrication Pumps
- Starters
- Auxiliary Power Units
- Actuation Systems

MAIN REFERENCES

At the highest levels, we master quality management, logistic and program management processes for major aircraft & helicopter manufacturers such as Airbus, Boeing, Irkut, Sukhoi, Bombardier, Embraer, Liebherr, Sikorsky, Safran, GE, Pratt & Whitney, Honeywell, Moog, Rolls Royce, Honda, ...

CERTIFICATION(S)

BMT Aerospace International is AS9100C, ISO 9001, EN 9100 and EASA PART21 Subpart G certified. All special processes have NADCAP approval.

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ADDED VALUE

BODAIR SA is active in the development, design and production of carbon fiber rods, struts, tubes and shafts. As a result of the R&D conducted by BODAIR, new technologies in carbon fiber rods, struts and shafts are emerging.

- BODAIR is eager to offer high quality rods and advanced designs allowing significant weight savings that largely exceed the current designs & mechanical performance of aluminum and/or stainless steel rods, struts and shafts.
- Thanks to the combination of a completely new manufacturing process with a new carbon fiber design, BODAIR has acquired a unique competitive advantage over traditional technology & design. BODAIR uses the pre-impregnated carbon fiber filament winding technology which allows maximum control of the process and guarantees porosity levels that are significantly lower than the traditional RTM processes. It also ensures maximal repeatability and consistency in overall product quality.
- BODAIR uses patented production methodologies and designs enabling the production of parts which previously were not possible to manufacture.

RANGE OF PRODUCTS

General materials, composite materials and surface treatments.

Manufacturing parts in composite materials.

CERTIFICATION(S)

EN9100 : 2009

ISO 9001 : 2008

BRITTE-MUSTAD

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COMPANY BACKGROUND

For several decades, Britte-Mustad has been specialized in high precision mechanical components and electromechanical assemblies for Aircraft, Space and Defense industries.

In Belgium, with its 32 production technologies, 140 employees, 400 machines and an ambitious investment policy, Britte-Mustad is able to produce very complex and top quality machined products in series.

Britte-Mustad is a member of the MUSTAD UNITED group founded in Norway in 1832.

ADDED VALUE

Its team of engineers use various production technologies (turning, milling, grinding, EDM, NDT) combined with softwares like CATIA or Mastercam to produce critical machined parts, which equip nowadays more than 20.000 aircraft engines.

Focused on the future, Britte-Mustad is going to move in a new plant by the end of 2017. Lean manufacturing management and factory 4.0 are in the main axis of this project.



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PRODUCTS RANGE

High added value machined parts requesting various machining technologies.

From prototype to series.

Assembly, welding and testing of electromechanical components for aircraft, space, medical and defense industries.

MAIN REFERENCES

SAFRAN group, Airbus Safran Launchers, Thales, MBDA

CERTIFICATION(S)

ISO 9001 and EN9100/2009

CAPPAUL

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► Mr Ludwig **HENKES**, CEO



COMPANY BACKGROUND

Capaul is specialized in high precision machining of complex aerospace components. In addition we have an outstanding experience in the assembly of sophisticated aircraft components such as modules for the famous CFM56 engine.

Our modern facility offers high precision multi-axis CNC-turning and milling centers as well as 3D-measuring equipment installed in a modern fully air-conditioned hall (20°C).

ADDED VALUE

- CNC-turning on 2 to 5 axis turn-mill centers up to Ø1250mm
- 3,4&5 axis machining on vertical centers up to 1250x1000x1000mm
- 5-axis simultaneous machining till Ø1250x1000mm in a 1500m² fully air-conditioned hall
- Vertical, multi-purpose, 6-axis, machining center for milling and turning operations - working range: up to 6000x3500x1300mm and Ø up to 3500mm in fully air-conditioned environment
- High-precision 3D-Measuring equipment
- Machining on horizontal Centers (pallet machining) up to 500x500x500 mm
- Broaching (turbine disk slots)
- Hard turning in air-conditioned environment up to Ø420mm
- Complete integration of sub-assemblies (CFM56)

RANGE OF PRODUCTS

Pieces of aircraft engines and structural components.

MAIN REFERENCES

Airbus - Boeing - General Electrics - Safran Group - Snecma Motors - Sonaca - TAC - Asco Industries

CERTIFICATION(S)

EN 9100:2009 + ISO 9001:2008

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COMPANY BACKGROUND

Cenaero is an applied research center providing to companies involved in a technology innovation process numerical simulation methods and tools to invent and design more competitive products. Cenaero is mainly active in the aerospace (in particular turbomachinery), process engineering, energy and building sectors. Cenaero operates a supercomputing infrastructure with 14,000 computing cores and experimental facilities in composite manufacturing and prototyping.

ADDED VALUE

Cenaero's researchers provide expertise in multidisciplinary simulation, design and optimization in the fields of mechanics (fluid, structure, thermal and acoustics), manufacturing of metallic and composite structures as well as in analysis of in-service behavior of complex systems and life prediction.

RANGE OF PRODUCTS

Cenaero provides engineering services in multidisciplinary simulation, design and optimization as well as software through its massively parallel multi-physics platform Argo and its design space exploration and optimization platform Minamo.

MAIN REFERENCES

Cenaero is a research partner of Safran since 2007.

CERTIFICATION(S)

Cenaero is certified against the EN 9100:2009 and ISO 9001:2008 standards.

CENTRE SPATIAL DE LIÈGE

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COMPANY BACKGROUND

CSL is an applied Research Center, 110 persons, owned by University of Liège. Since 1964, CSL is focused on space systems for payloads and associated technologies. CSL was the first Test Centre agreed by ESA for space harsh environment tests. ESA recognizes also CSL as a Centre of Excellence in optics.

ADDED VALUE

From design to integration and calibration (on ground or in-flight) CSL elaborates solutions for payload systems and sub-systems. With a unique expertise in system engineering, optics and thermal regulation, CSL delivers a customized service to expose instruments, systems or satellites to extreme conditions encountered in deep space. The 'Environmental Test Facility services' (cryogenics, vacuum, vibrations) are provided in an ultra-clean environment.

The CSL technologies are also used in Collaborative Research projects, in partnership with space and non-space (e.g. medical) industries, in various technological fields as optical design and metrology (e.g. straylight management), surface engineering (e.g. optical coatings for sensors, SPR, ...), electronics solutions for harsh environment, Additive Manufacturing techniques, radar image processing for geomatics industry. In aeronautics, CSL is specialized in Non-Destructive Testing techniques based on laser applications, shearography, thermography, laser ultrasounds methods.



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RANGE OF PRODUCTS

Qualification services (simulating on ground the space environment - thermal vacuum, vibration or radiation) - Photonics Engineering (optical design, metrology, coating development) - Mechanical & Thermal Engineering - Technology transfer

MAIN REFERENCES

Lots of space instruments from ESA and NASA missions, or some national space agencies, have been designed, developed and/or qualified within CSL premises : EIT-SOHO, OM-XMM, FUV-SI-IMAGE, OMC-Integral, HI-STEREO, COROT, PACS-HERSCHEL, PLANCK, SWAP-Lyra-Proba-2, JUNO, GAIA, Tropomi, MIRI-JWST, EUI-HI- Solar Orbiter, CHEOPS, WISPR-Solar Probe Plus, FUV-ICON, MSI, etc. In aeronautics, we are in partnership with Airbus, SONACA, SABCA, Safran Group, ...

CERTIFICATION(S)

ISO 9001; ECSS-Q-ST.20-07C (Quality Assurance for the Test Centres) ; EN 9100-2016 (pending).

CITIUS ENGINEERING

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COMPANY BACKGROUND

Created in 2009, **CITIUS ENGINEERING** is an engineering company specialized in mechanics, electricity, automation and robotics. Its activities are focused on the development of industrial tools in the broadest sense: test beds, means of production, robots, special machinery, customized studies, and industrial project management.

ADDED VALUE

Over the years, Citius Engineering has acquired significant experience in the field of test bed design and production for industrial equipment or systems. These custom-built test beds integrate the latest technology in mechanics, control-command systems, or data acquisition. Often equipped with hundreds of measuring lines, these test beds constitute efficient systems used within the framework of industrial development and production programs.

RANGE OF PRODUCTS

Test solutions: Citius develops specific solutions for testing equipment, provides its customers with own integrated testing facilities, and proposes complete solutions of testing means based on specialized skills in instrumentation.

Advanced production systems: Citius develops and integrates turnkey production means, and puts in place complete solutions for industrial processes thanks to its skills in automation, instrumentation, robotics, and vision.

MAIN REFERENCES

SAFRAN AERO BOOSTER, SONACA, THALES ALLENIA SPACE, CMI, ALSTOM, ENGIE, EMERSON

CERTIFICATION

ISO 9001

COEXPAIR

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COMPANY BACKGROUND

Coexpair is a Belgian company combining an engineering office and a composite development facility. Working in close collaboration with Radius Engineering (USA), Coexpair is providing services and production equipment related to out-of-autoclave manufacturing. Regarding RTM & SQRTM technologies, Coexpair-Radius partnership represents the world's largest expertise center & supplier of dedicated equipment for serial production of aerospace net-shape parts. This position on the market is based on a very intense internal research effort initiated for nearly 30 years at Radius Engineering and 10 years at Coexpair in our facilities.

ADDED VALUE

Regarding RTM & SQRTM technologies, Coexpair-Radius partnership represents the world's largest expertise center & supplier of dedicated equipment for serial production of aerospace net-shape parts.

RANGE OF PRODUCTS

- Engineering
- Mold design and fabrication
- Composite parts development and technology transfer
- Production equipment (press, injector system, preforming tool, customized handling device etc.)
- RTM & SQRTM training

CERTIFICATION(S)

EN9100 certification process is ongoing at Coexpair.

CONSOLIDATED PRECISION PRODUCTS



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COMPANY BACKGROUND

Founded in 1991, CPP has grown substantially over the past 25 years through a combination of acquisitions and organic growth. From our first facility in Cudahy, California, CPP is now comprised of 18 global facilities manufacturing products for the aerospace, defense, and industrial gas turbine markets. CPP is a portfolio company of Warburg Pincus LLC.

ADDED VALUE

CPP's extensive and diverse capabilities allow us to service a broad range of markets and industries, building relationships with the leading companies in their respective sectors. Value Added Services:

Sand core production, CNC and conventional machining, Solidification modeling -Prototypes, Tool design & construction, Rapid Prototyping, Painting & coating, Non-destructive testing, Alloys used include Super Alloys (Nickel & Cobalt based), Aluminum, Copper, Magnesium, Single crystal & Steel.

RANGE OF PRODUCTS

CPP's manufacturing production capabilities encompass a wide array of different alloys and highly complex parts, including structural, non-rotating parts, as well as rotating parts in the hot section of the engine. Currently produced engine casting content includes:

Structural Guide Vanes, Compressor Rear Case, Compressor Components, Bearing Housing, Exhaust Case, HP Turbine Blades, Shrouds, & Vanes, LP Turbine Blades, Shrouds, & Vanes, Turbine Center & Rear Frame Hubs, Main Engine Housings, Gear Boxes, Front and Rear Inlet Frames.

MAIN REFERENCES

GE Aviation, GE Power, Spirit Aerospace, Safran Group, UTC Aerospace Systems Honeywell, Pratt & Whitney, Boeing, Liebherr Aerospace, Thales, Lockheed-Martin, Raytheon, Sikorsky, Siemens, Rolls-Royce, Dassault

CERTIFICATION(S)

CPP sites have numerous qualifications, including EN9100 - ISO 9001-2008 - NADCAP

DEJOND

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Tubtara®

BLIND RIVET NUTS

COMPANY BACKGROUND

Dejond Fastening Systems is an EN9100 certified industrial supplier of value-added fastening systems.

We offer a wide range of mechanical fasteners including the Tubtara® blind rivet nut range manufactured in our EN9100 certified production facility in Antwerp. As experienced specialists we are dedicated to our customer-partners as it is essential that customers think of us as their partner and not just as a product supplier.

ADDED VALUE

Since 1999 Dejond Fastening Systems has been developing, producing and supplying technically advanced fasteners for safety-critical body and wing assemblies, as well as seat and cabin applications. As a total solution provider we offer

- Innovative customised solutions
- In-house development and production of Tubtara® blind rivet nuts
- Application engineering
- Personal commitment and service
- After-sales service

RANGE OF PRODUCTS

Tubtara® blind rivet nuts

Wide range of value-added fastening systems

MAIN REFERENCES

Certified Airbus and Bombardier supplier - Sonaca - Zodiac

CERTIFICATION(S)

EN 9100 - AS 9100 - JISQ 9100 certified

Airbus supplier common Vendor Nr 304142

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► Mr Eric **CALLUT**, Senior Project Manager / E-mail: e.callut@deltatec.be

COMPANY BACKGROUND

DELTATEC is a high-tech design company, specialized in advanced hardware and software technologies.

The company is active in the industry sector, in aerospace and in the TV broadcast market.

Space became a strategic activity in 2005 with the development of flight models performing image acquisition and processing.

In the space segment, DELTATEC's role consists in designing data processing subsystems, with a focus on the electronics of cameras used in earth or sun observation satellites. Another major activity is the design of payload computers and on-board computers.

In the ground segment, the activity of DELTATEC is based on the design of specific test beds and in video processing applications, which are both derived from similar activities for aeronautics and industry markets.

ADDED VALUE

- A Belgian design house located in heart of Europe
- 30 years of experience and more than 500 projects
- A human-sized team of more than 35 high-level engineers
- A recognized expertise in the framework of ESA missions as prime contractor and subcontractor

RANGE OF PRODUCTS

- UV Cameras
- Hyperspectral Cameras
- Multipurpose EGSE
- On-board Computers
- Payload Data Handling Unit

MAIN REFERENCES

Companies like ESA, CSL, NEWTEC, THALES, SAFRAN, LUXSPACE, SPACEBEL, and many others, regularly entrust to DELTATEC for their projects.

CERTIFICATION(S)

DELTATEC is member of SKYWIN, Aerospace cluster of Wallonia.

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COMPANY BACKGROUND

De Simone has been designing and manufacturing special machines for almost 30 years. From our Farciennes facility in Belgium, we have installed machines in almost every continent. Originally active in the glass industry, De Simone has since extended its activities towards various industry segments, amongst which aerospace takes an important part.

ADDED VALUE

Team: some 35 passionate people coming from various disciplines (mechanic, pneumatics, robotics, hydraulics, automation, IT,...)

Innovation : each machine we produce is designed with the right technology to ensure maximum cost effectiveness for our customers

Full service adapted to your needs: design, production, installation, integration, CE compliance, maintenance services.

RANGE OF PRODUCTS

Automated non destructive testing systems: we offer tailor made solutions to automate your quality control processes, mastering various NDT techniques,

Automation of CNC-machines: a wide range of robotized systems to load, unload and manage almost every CNC-machine of the market.

Production lines: conception & production of tailor made lines; revamping; CE compliance services.

MAIN REFERENCES

Aerospace industry: SKF Aerospace, Safran Aero Boosters, Sonaca, Sabca, etc.

Other sectors: Mecar, Alstom, AGC, Saint-Gobain, Arcelor Mittal, Bel, Chimay, Mondelez, Materne, etc.

CERTIFICATION

VCA certificate

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► Mr Geoffroy-Vincent **CAMMERMANS**
E-mail: gcammermans@dumoulin-aero.com



COMPANY BACKGROUND

In 2003, Dumoulin Aero, specialized in the manufacturing of Fine Hunting Guns, has operated a significant diversification by launching a program to manufacture titanium and other allied steel parts for aircrafts.

Although, the company was rather inexperienced in this particular field, the rigor and precision needed in the manufacturing of fine firearms, considerably contributed to the success of this reconversion and enabled the company to establish a performing operation and obtain the EN 9100 Certification.

Today, Dumoulin Aero employs 40 people specifically trained to operate modern machines and equipment and has the capacity to perform a broad range of operations from turning-milling and milling mostly for connection parts between Tracks and Flaps and Tracks and Slats as well as Carriages.

DUMOULIN AERO is positioning itself as a key partner for aeronautic companies willing to establish a close and fruitful relationship based on know-how, reliability, flexibility and cost-effectiveness.

ADDED VALUE

The light structure of the Company and its geographical location enables a quick and efficient response to customer needs always in accordance with strict quality criteria and allocated deadlines.

MAIN REFERENCES

In a short period, Dumoulin Aero has successfully assimilated the quality requirements, the organizational and production aspects and adopted the strict control requirements needed for the manufacturing of high precision parts sub-contracted by manufacturers such as AIRBUS, BOMBARDIER or EMBRAER.

We have also a strong partnership with La Nitruration Moderne (Nadcap and required qualifications against specs) which allows us to deliver complete treated parts (NDT, Passivation, Zn Ni, Cadmium Plating, Painting and Ink Identification,...).

ESNAH - Sky Liberty project

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► Mr Nicolas **HANSE**, CEO
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COMPANY BACKGROUND

ESNAH was created by a pilot and is active in air navigation safety for civil aviation and also in the development of specific solution concerning smart tracking and satellite communication devices.

ADDED VALUE

Reliable European weather rules and minima.
All tools and reliable data in the same application.
Advanced navigation concept for VFR and IFR flight.
Cheap satellite communication for retrieving weather and flight data in real-time during flight.
Smart tracking for flight analyse and notification.

RANGE OF PRODUCTS

SkyLiberty allows to find in a single mobile app all the tools and data used at each steps of the flight.
SkyLink provides pilots an access to weather and flight data in real time during flight. For operators, it allows smart tracking of its fleet.
SkyOp provides to aircraft operators a web application allowing to share safety data with its members and be notified in case of abnormal flight.

ESNAH

Aeronautical Navigation Systems

MAIN REFERENCES

ESNAH is supported and managed by ESA (European Space Agency).

SkyLiberty is used by more than 1500 pilots around the world.

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COMPANY BACKGROUND

The FERONYL company was founded in 1950.

The region was strong in the textile sector and at the time we developed gears made of injected nylon as an alternative to metal ones, hence our name FerOnyl: from Fer (the French word for iron) to Nylon.

FERONYL has always been a 100% family-owned company and Philippe Dedecker, who began his commercial career in the company in the 1970's, has held the position of CEO since 2002.

While, from 1950 to 1960, FERONYL built injection machines and injection molds and performed injection properly speaking, the latter activity has always been its core business. The activity of manufacturing the machines was sold off, but FERONYL preserved its mastery of mold design and production. It is this mastery which makes it possible to offer a complete service as technical subcontractor; including special surface treatments and the optimization of inserts prior to being overmolded.

ADDED VALUE

Feronyl has been specialized in the injection of technical parts in metal, composite and plastic materials since 1950. In addition to that, we also have a MIM (Metal Injection Molding) activity, one in which our partners are putting a great deal of faith, seeing in it a new technology for their future developments.



RANGE OF PRODUCTS

Our primary specialties are:

- precision injection molding of plastics
- the transformation of all materials; from the most basic to the most complex, possibly filled with glass or carbon fibers, etc.
- achieving tight tolerances
- performing specific overmoldings (stainless steel, titanium, ceramic, etc.)
- molding on presses having 10 to 1300 tons of clamping force (i.e. parts ranging from 0.5 to 6500 grams)

MAIN REFERENCES

Aviacomp - Stelia Aerospace - Safran - Techspace Aero -
Safran Filtration Systems - Donaldson Le Bozec - Sonaca
- Crouzet - LMB Aerospace - Esterline group - CMI

CERTIFICATION(S)

ISO 9001 & EN 9100

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► Mrs Anne **DEVROYE**, Communication Manager
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COMPANY BACKGROUND

From its inception in 1889, FN HERSTAL's core business has been small caliber firearms and ammunition. Over the years, this focus has expanded to include complementary products and capabilities, such as integrated airborne weapon systems for military use.

FN HERSTAL is part of the Belgium-based Herstal Group, which has a turnover of over €800 million and is supported by 2,700 talented direct employees.

ADDED VALUE

FN HERSTAL provides high added value defense solutions for multi-role military helicopters and subsonic aircraft. Rather than just designing and producing the complete system, FN Herstal also takes care of the integration, within the context of the operational platform, which requires a deep understanding of the weapons and their effects on the carriers.

Additional cutting-edge, digital solutions are in constant development to meet challenging markets demands and expectations, and to provide the highest level of operational capability to military forces.

RANGE OF PRODUCTS

FN HERSTAL's portfolio include pintle-mounted and podded systems designed around FN 7.62 and .50 cal machine guns to guarantee full mission capability while ensuring protection of the carrier and maximum safety for the crew.

MAIN REFERENCES

Over 5,200 FN weapon systems mounted onto helicopters and subsonic aircraft across the world.

CERTIFICATION(S)

FN Herstal is ISO 9001 and AS/EN 9100 certified.

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COMPANY BACKGROUND

Engineering company, GDTech offers his expertise to industrial projects spanning across all necessary stages for Design, Simulation and Industrialization (in our own offices or on customer site, as provider of services, project manager or consultant).

GDTech commits to deliver an integrated service covering the entire product development process.

ADDED VALUE

Thanks to our knowledge of the most advanced industrial technologies and our expertise, we provide you with a customized solution.

Our assets ... our expertise, our CAE complete offer and our quality commitment (ISO 9001 and EN9100 certified).

RANGE OF PRODUCTS

- Engineering Consultancy Services
- Design, drawing and manufacturing: components & assembly, manufacturing tools, industrial equipment's
- Numerical Simulation: HPC, multiphysics solutions, systems, CFD, structures, collaborative simulation platform
- Tests: static, dynamic, numerical simulation correlation
- Tailored Made Solutions: lighting
- Safety Design: road equipment's, industrial site

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► Mr Rémy **NIZET**, Business Development Manager
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COMPANY BACKGROUND

Our company, GILLAM-FEI, based in Liège (Belgium) is specialized in the engineering, industrialization and manufacturing of electronic equipment. Our aerospace activities are focused in the following areas: test benches, avionics systems, time & frequency distribution, on-demand electronic design.

GILLAM-FEI has + 40 years of expertise in design, test and manufacture of electronics equipment.

ADDED VALUE

For the realization of your projects, you will benefit from a skilled team of engineers with a variety of competencies to handle your project from the specification up to the acceptance and after-sales follow-up. Our staff member is composed of RF specialists, electronics, mechanical, software engineers and operation safety and quality assurance manager. We own also in-house industrialization and manufacture facilities.

RANGE OF PRODUCTS

Simulator & ATE Test Bench:

- Automated test benches for industrial, military and space applications (ATE, EGSE, SCOE)
- specific test equipment (STE)
- specific measurements: oscillator characterization, time/frequency measurement (phase noise, Allan deviation, ...)

Time & Frequency Distribution:

- PTP, NTP, E1, T1, 10 MHz, PPS, IRIG.

Aircraft and Associated Activities System:

- Illuminated front panel. NVIS compatibility (MIL-STD-3009).
- RTCA DO-160, MIL-STD-810
- DO-178 and DO-254 design methodology

MAIN REFERENCES

Gillam-FEI designed EGSE and specific equipment for various satellite programmes as Iridium Next, ExoMars, JUICE, GALILEO.

Examples of R&D and manufacturing achievements:

- On-board Human-Machine Interfaces and DAMS: Armament Control Panel, Audio Cockpit Control Panel, ...
- Electromechanical and electronic intervalometers.
- Laser Range Finder and Head-up display specific communication interfaces.
- Combined Rocket/Gun integrated systems for firing management.
- Electronic digital fuses for cargo rocket warheads.
- ATE (Test Bench) Electronic digital rocket.
- LSU Launcher Simulator Unit equipment.
- FTU Field Tester Unit equipment.
- TSU Time Setting Unit equipment.
- Design and manufacturing of complete ATE test bench for fighter aircraft countermeasure system.
- Etc

CERTIFICATION(S)

Gillam-FEI's Quality Management System is certified to ISO 9001. We are also VCA certified.

GRIMONPREZ TRANSMISSION GEARS

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► Mr Joris **POOT**, Sales Representative

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COMPANY BACKGROUND

1877: founding of the company, manufacturer of agricultural machinery 1885: stationary coal gas engines, 1925: stone and woodworking machinery. 1950: production of gears. 1986: shutdown of stone and woodworking machinery. 1997: Patrice Dedecker takes over the company. 2006: new name Grimonprez Transmissions Gears. 2008: R&D and co-engineering. 2010: start of activities in India.

ADDED VALUE

Grimonprez Transmission Gears is part of the Sub-Alliance cluster.

Sub-Alliance brings together industrial subcontracting professionals who pool their complementary skills and their marketing strength to promote business and innovation through partnership and to facilitate technological exchange. See: www.sub-alliance.com

RANGE OF PRODUCTS

Grimonprez Transmission Gears is specialised in the manufacturing of all types of gears (straight gears, helical, straight bevel,...); and in the manufacturing of transmission boxes in small and medium sized batches.

All operations are performed in-house: the hobbing & shaping, the grooving & broaching, the CNC turning & milling; as well as the heat & surface treatment.



MAIN REFERENCES

Aviacomp - Stelia Aerospace - Safran - Techspace Aero -
Safran Filtration Systems - Donaldson Le Bozec - Sonaca
- Crouzet - LMB Aerospace - Esterline group - CMI

CERTIFICATION

ISO 9001

HTMS (High Tech Metal Seals)



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► Mr Paul **VAN DEN BROECK**, Managing Director

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COMPANY BACKGROUND

HTMS (High Tech Metal Seals) is a Belgian company specialized in the development and production of high tech metal seals. HTMS metal seals solve problems for the most severe applications, where the use of conventional sealing products is excluded due to temperature, pressure, radiation, permeability, fatigue, corrosion, required low fugitive emissions, low applicable forces ...

ADDED VALUE

- Cross sections from 0.79 to 12.70 mm
- Diameters up to +3 m
- Custom-made and shaped seals on request
- Materials: Nickel alloys / exotic grade materials
- In-house research & development
- In-house production from raw material to end product
- Material research
- Fully equipped plating and coating department (not exclusively for seals)

RANGE OF PRODUCTS

HTMS' main products are metal O-rings, metal C-rings, Oysterseals® and Commaseals®.

Custom-made seals: R&D / Qualification / Prototyping

MAIN REFERENCES

Safran Airbus Group, APP, Areva Group, Thales Group, DLR, GTRE, ISRO, MAN, ITER project, ...

CERTIFICATION(S)

HTMS is ISO 9001, ISO 14001 and AS 9100 certified.

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- Mr Georges **HUBINONT**, Managing Director
- Mr Alain **MOTTET**, Sales & Marketing Director Europe

COMPANY BACKGROUND

Hubitools imports and distributes professional diagnostic equipment and tools for the motor trade in Europe. We developed for 40 years a very strong relation with its suppliers and customers. We design more and more innovative tools to answer to the needs of the market and/or of our customers.

ADDED VALUE

Our logistics and the impeccable quality of our service allow us to bring to the European market an always improved choice of carefully selected innovative tools.

Our strategic location in the centre of Europe and our knowledge of the major European languages allow us to be close to our customer with easy communication and fast deliveries.

RANGE OF PRODUCTS

Example of products:

- Wide range of videoscope from Handy to high tech models
- Wireless electronic stethoscope
- Ultrasonic leak detector
- Etc.

MAIN REFERENCES

FACOM, RENAULT, SABCA

CERTIFICATION(S)

ISO 9001 N° 131030/1225B

JD'C INNOVATION S.A.F.S.

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COMPANY BACKGROUND

3 Competences:

- Composite Materials : JD'C Innovation designs, industrializes and produces composite parts for Aeronautics and Defense following the hand lay-up technology.
- Multi-material assembly : JD'C Innovation is able to assemble your products, using the most advanced technologies, such as hot and cold structural bonding and ultrasonic welding or integration connectics. These technologies require working with high quality standards and expert operating methods
- Process Industrialization : thanks to their large rang of equipments, JD'C Innovation is able to industrialize several production processes in accordance with the customer requirements.

ADDED VALUE

Reactivity and flexibility for the design and the production of components and tooling; competitive prices due to the small sized structure; reliability and quality in both design and production activities; ten years experience in the hand lay-up technology.

RANGE OF PRODUCTS

Prepeg fabrics polymerized in autoclave, clean room of 300m² with an automatized cutting equipment, cold chamber (-18°) for prepeg storage (40 m²), bonding room (60m²), assembly room (riveting, Ultrasonic welding,...) (80m²), ultrasonic NDT control, connectics assembling, design of mold (solid worx), redesign of metallic parts in composite

MAIN REFERENCES

Forges de Zeebrugges (Thales), CMI Defense, SONACA, FN Herstal, SABCA, Safran AeroBoosters, Gradel, Win-nerHelico, Etilux, Nomics, Taipro, Carat Duchatelet, Skywin, Ecar, ...

CERTIFICATION(S)

EN9100 certified since 2009, Airbus qualification in finalization, Techspace (Safran) and SONACA qualification for vacuum and autoclave polymerization

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► Mr Helge **PFEIFFER**, Industrial Research Manager

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COMPANY BACKGROUND

The KU Leuven is a Dutch-speaking university in Leuven, Flanders, Belgium. With almost 60.000 students, it is the largest university in Belgium and the Low Countries and according to the Reuters' list, also the most innovative university of Europe.

ADDED VALUE

The added value regards innovative approaches to solve persisting problems in maintenance operations of aircraft. The solutions can easily be tailored to specific requirements and the certification thresholds are low.

RANGE OF PRODUCTS

KU Leuven presents a range of developments that were developed with industrial partners and that are partially already implemented in aircraft. It regards sensing system for structural damage and leakage as well as new materials and drones.

MAIN REFERENCES

Water leakage monitoring for Lufthansa Technik - Monitoring systems for leakage of hydraulic liquid, fuel and bleed air for PFW Aerospace, SAFRAN, Brussels Airlines, Siemens-LMS.

CERTIFICATION

Certification on project basis.

L & D Jet Techniek

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COMPANY BACKGROUND

L&D was founded in 1994. We are specialized in machining parts in Metallic and composites, and work as a sub-contractor for several industries (Aviation, Medical, Pharmaceutical, Petrochemical, machinebuilding....)

ADDED VALUE

L&D is specialized in machining (by waterjet cutting, milling, drilling) of composite materials, Kevlar, and metallic materials.

With the waterjet technology we have hardly no limitations in contour definition, type of materials and thicknesses! No heat influence.

Since more than 20 years we machine several parts in Titanium, Carbonfiber, Aluminum etc... for aircraft industry.

RANGE OF PRODUCTS

All kind of materials and products. 2D-3D and completely 5-axis

Maximum dimensions possible: 6000x4000x1500mm

MAIN REFERENCES

Sabca, Sonaca, Asco, Groupe Stork, Thyssen Krupp, Dutchaero....

CERTIFICATION(S)

Iso 9001 :2008 / EN9100 / Sabre / several specific airbus certifications

LA NITRURATION MODERNE

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► Mr Daniel **BOULANGE**, Président

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COMPANY BACKGROUND

La Nitruration Moderne (LNM) performs electrochemical, chemical and thermochemical treatments of metals.

Established in 1928 in Liege, at the center of industrial Europe, LNM carries out a large range of treatments for the Aeronautical and the Military sectors.

Qualified according to EN 9100, LNM is also certified in Nadcap non-destructive testing and chemical processes.

LNM is a 'one stop shop', from machining to assembly, without subcontracting operations prior to the supply to the assembly lines.

ADDED VALUE

LNM is a 'speed shop' for the treatments referred to hereinafter:



RANGE OF PRODUCTS

Cadmium plating (Nadcap), Chemical Conversion coating, Manganese Phosphating, Chromic Acid Anodizing (Nadcap), Fluorescent Penetrant testing (Nadcap), Fluonitric Pickling of Titanium, Tartaric Sulfuric Anodizing, Magnetic Particle Inspection (Nadcap), Dehydrogenation, Zinc-Nickel plating, Identification, Degreasing, Sulfuric Anodizing, Dry Abrasive Blasting, Pyrometry, Painting, Sealing of anodized layers Black Oxide, Passivation, Zinc Phosphating

MAIN REFERENCES

SONACA - ASCO - DUMOULIN - TAC - SHURLOK - PRETEC - MAP

CERTIFICATION(S)

EN9100

NADCAP: Chemical Processing and NDT (MPI + FPI)

LESCAV

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COMPANY BACKGROUND

Over 15 years of experience in aerospace market.

Our know-how: Design and production of protection systems made on silicon and plastics for surface treatments and transport of airspace parts.

ADDED VALUE

Our protections are compatible with all special treatments, especially for HVOF, Plasma.

The airspace industry is experiencing rapid growth. The competitive environment requires continuous investments in innovative technologies. Lescav is your trusted partner in protection solutions for special treatments like HVOF, Plasma etc., enabling you to perform better and widen your competitive edge.

RANGE OF PRODUCTS

Tools for special treatments: anti vibration belts, customized caps and sealing joints, silicon tools, customized masks, silicon projection, silicon injection, high temperature protection and containers and industrial supports in polypropylene as containers for chemical treatments, industrial carts and reusables transports boxes.



► Mrs Nathalie **NYSENS**, Marketing Director
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MAIN REFERENCES

Lescav collaborates with all major airspace players and is associated with the development of solutions for the new LEAP engines.

Some references: Safran Group, APS, Advanced Coating, ASCO, BMT Aerospace, Sabca, Mecachrome, Turbomeca, Airbus Helicopter etc.

CERTIFICATION(S)

ISO 9001 and EN9100

LIONOIL - ANTWERP LION OIL WORKS

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COMPANY BACKGROUND

Company founded in 1925. Manufactures and markets, among others, metalworking fluids for the aerospace industry. In 1976, a partnership was signed with the American company Master Chemical Corporation, renowned for the quality of its products and their numerous approvals for the Aerospace industry.

ADDED VALUE

Knowledge of fluids and machines, own engineering desk, companies in Belgium, Germany, France and United Kingdom.

RANGE OF PRODUCTS

- Metalworking fluids with Aerospace approvals
- Hylomar sealing paste with Aerospace approvals
- Custom made lubrication systems
- Special lubricants

LIONOIL

ANTWERP LION OIL WORKS N.V.

MAIN REFERENCES

Safran Aero Booster (since 1976)

CERTIFICATION(S)

Airbus-Bombardier - Aerospace - Rolls Royce
- Pratt&Whitney - General Dynamics - Snecma -
Lockheed-General Electric - Safran Messier-Bugatti-
Dowty - Goodrich

MECASOFT

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► Mr Raymond **BRANDT**, Adminstrateur
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COMPANY BACKGROUND

30 years of experience in EDM technologies for aerospace and aeronautic industry.

ADDED VALUE

High technology - flexibility

R&D for replacement of conventional methods to EDM.

RANGE OF PRODUCTS

All complex and special parts where EDM technology is necessary.

Special department for micro machining (all parts with a min of 30 µ details - 3D parts of 50µ)

MAIN REFERENCES

AIRBUS - SAFRAN - BOMBARDIER - EMBRAER - ESA

CERTIFICATION(S)

EN9100 - SAFRAN AQPS (qualification for special process) - AIRBUS (qualification pour procédés spéciaux).

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COMPANY BACKGROUND

MECASPRING is a manufacturer of small, medium and large series of precision springs in wire and flat strip materials (compression, tension and torsion springs according to drawing or customer samples) Mechanic welded assemblies and sub-assemblies. Tailor-made machining parts.

Our engineering team is at your disposal for your new projects in research and development. Certified ISO 9001: 2008 and EN 9100 : 2009. Accredited supplier for Aeronautics, Defense, Space and Automotive.

ADDED VALUE

Combining in house coil winding of springs in wire, stamping , cutting and bending of springs and spring oriented products in strip metal , together with machining operations on precision parts,

We are accredited supplier according to ISO 9001 : 2008 and EN 9100 : 2009 towards highly qualified customers in Defense, Aeronautics, Space and general industry (Automotive, Gaz, Connectics,)

RANGE OF PRODUCTS

MECASPRING is a manufacturer of small, medium and large series of precision springs in wire and flat strip materials (compression, tension and torsion springs according to drawing or customer samples) Mechanic welded assemblies and sub-assemblies. Tailor-made machining parts.

MAIN REFERENCES

AERONAUTICS: SAFRAN

DEFENSE: FABRIQUE NATIONALE GROUPE - DIEHL - MECAR - NEXTER RHEINMETALL

GAZ - CONNECTICS - AUTOMOTIVE - LIGHTING

CERTIFICATION(S)

Our company is certified according to ISO 9001 : 2008 and EN 9100 : 2009 standards.

MH-AUTOMATION

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COMPANY BACKGROUND

MH-AUTOMATION is the specialist of turnkey robotic cell for the CNC industry.

Since 5 years we develop and install a complete range of "ready to produce" robotic solutions for loading/unloading of CNC machines. We can handle small parts, big parts, pallets, tools, and many more.

ADDED VALUE

Our robotcell are:

- Ready to produce
- Easy to use (touchscreen panel, no robotic knowledge requested)
- Compact (only 1,6 m2 footprint)
- Evolutive
- At the top of technology (vision system,...)

We integrated in one product the summary of all the needs of the CNC industry.

RANGE OF PRODUCTS

- ARMIN - M-SERIE
- ARMIN - T-SERIE
- ARMIN - C-SERIE
- ARMIN - CUBE
- ARMIN - PALLET
- ARMIN - TOOL

... and turnkey projects

Technical specifications of each of these products on www.mh-automation.eu

MAIN REFERENCES

- Tool Changer system at AIRBUS tier 1 supplier
- Automotive suppliers
- ARCELOR
- Lots of installations in small and medium companies in the CNC industry

CERTIFICATION(S)

KUKA Official partner.

MOCKEL - Precision Mechanics

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► Mr Patrick **PITZ**, Business Development Manager
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COMPANY BACKGROUND

Master of precision for more than 70 years!

Mockel is a dynamic business employing experts in the series production of precision mechanical parts. We have the machinery, the technical know-how and the necessary experience for the production of complex parts.

Be it small or large complex components, series of 5 or 10,000 parts, we translate your ideas into a perfect technique. All our parts are turned and milled with highest precision on modern CNC machines.

Our customers are notably active in the following sectors: aeronautics and space, defence, machine construction, hydraulics, renewable energy, etc.

Yearly Turnover 6M€

ADDED VALUE

Mechanical precision machining; 3, 4 & 5 axis milling centres machining, with pallets and in pendulum; CNC turning centres machining (2 to 5 axis); Assembly of mechanical subgroups; Grinding; Honing; Slotting; Grooving; Thread rolling; Electronic embossing; Laser Marking; Heat & Surface Treatment; Finished products.

RANGE OF PRODUCTS

Machining until 600mm3 / 75mm Diametre from bar feeder or 300mm Diameter in cuted pieces and

Materials: Aluminium - Steel - Stainless Steel - Titan

MAIN REFERENCES

Thales - Safran - FN - GMT - TAC - Asco - CMI

CERTIFICATION(S)

ISO 9001 - EN 9100 - ISO 13485

NITTO BELGIUM

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COMPANY BACKGROUND

Since its foundation in 1918, the Japanese multinational Nitto Denko Corporation has swiftly identified market needs and based on its key technologies, such as adhesives and coating.

In the EMEA region (Europe, Middle East and Africa), the Nitto Group has manufacturing sites with own development activities and four material handling sites. The group manufactures and converts products like sealing materials, reinforcing and damping materials, various kinds of industrial adhesive tapes such as double-sided tapes, surface protection tapes and electrical insulation tapes which are used in markets such as automotive, electronics, furniture, paper production, aerospace and metal processing.

The Nitto Group realized a turnover of 362 million euro with 1612 employees in 2015-2016 in the EMEA region. In 2018, Nitto Denko Corporation will celebrate its 100th anniversary. Proclaiming "Innovation for Customers" as the brand slogan, the group aims to become a one hundred-year-old company that continues to grow globally and creates value for its customers with new ideas.

Once again, Nitto was awarded the TOP100 Global Innovator 2016. Visit our website for more information on our technologies and products: www.nitto.com

ADDED VALUE

Nitto leads the aerospace industry with a commitment to consistent quality, reliability and value. Nitto offers Fly Away Tapes (heat shielding, sound damping, mounting, anti-corrosion...) and Non Fly Away Tapes (compos-

Nitto

ite bonding, masking, processing, surface protection,...) for the manufacturing of aircrafts and its components. In the Aerospace industry Nitto is known as a Polymer Technology Specialist offering aviation solutions for applications such as anti-corrosion, mounting, sealing, heat shielding, sound damping

RANGE OF PRODUCTS

Polymer Technologies Designed for Aviation Solutions

Anti-corrosion - Surface Protection - Sealing - Mounting - Venting applications

Products used in the construction of an aircraft: cargo bay seaming, moisture barrier, mounting, sound damping, heat shielding, cable harness wrapping, anti-corrosion, electrical and electronic systems, etc.

Products used in the manufacturing of an aircraft or its components: composite bonding, flame spray, paint masking/stripping, processing, surface protection, etc.

MAIN REFERENCES

Why Choose Nitto?

- Extensive Technical Expertise
- Long-Standing Industry Experience
- Global Reach

CERTIFICATION(S)

- EN/AS 9100 certified production locations
- FAR 25.853 & ABD 0031 certified products
- Boeing & Airbus certified products

NUMFLO / NUMECA International

NUMECA INTERNATIONAL

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COMPANY BACKGROUND

NUMECA International is a leading developer and provider of Grid Generation, Multi-physics CFD software systems for the multi-physics simulation and optimization of industrial products and processes. Leader in the field of flow simulations and optimization and in particular in the field of turbomachinery, marine, aeronautics, aerospace and multi-physics, NUMECA offers an extended suite of software systems covering a broad range of applications for both internal and external flows. Driven by creativity, innovation & quality, we proudly turn our passion into software toolsets that support the world's leading industries.

ADDED VALUE

Based on the most advanced technology, NUMECA software is largely recognized for its application-driven simulation software, optimal solutions, multi-physics models, high accuracy, speed and general user friendliness. NUMECA provides innovative technology and models in response to specific industrial requirements, used for the simulation of fluids, acoustics, thermal and fluid/mechanical coupled systems in a wide range of applications. Customer satisfaction is our main objective, and we continuously improve our software and services to turn your product design into a real success for your organization.

RANGE OF PRODUCTS

Grid Generation: AutoMesh™. A comprehensive meshing solution for high quality grids: from full hex structured meshing for rotating machinery to full hex and hex dominant unstructured meshers covering the full range of CAE applications. Multiphysics CFD: FINET™/



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Turbo, FINET™/Marine, FINE/Agile™, FINET™/Open with OpenLabs, FINET™/FSI-Oofelie, Windtunnel CFD. A range of best-in-class tools for rotating machinery to marine to a multiphysics environment, incorporating our unique OpenLabs approach, covering in- and external aerodynamics, heat transfer, multiphase flow, combustion, etc. Aero - Vibro Acoustics: FINE™/Acoustics. A complete simulation suite for the analysis of a broad range of industrial applications involving Acoustics, Vibro-Acoustics and Aero-Acoustics. Design & Optimization: FINE™/Design3D. A powerful Design Optimization environment offering fast design decisions based on our high fidelity simulations.

MAIN REFERENCES

AIRBUS, BOEING, SAFRAN, ROLLS-ROYCE, GE

CERTIFICATION(S)

NUMECA is EN 9100 certified. This standard is based on the ISO 9001 Quality Management System standard but additionally integrates quality requirements as defined by aerospace companies worldwide. Adopting such a high quality standard, quite exceptional for companies offering CFD solutions, is beneficial to customers in many ways thanks to a strong focus on:

- Effectiveness and continuous improvement of company processes aiming to deliver high quality products in a cost-efficient manner
- Identification of customer needs
- Extensive verification and validation of product quality
- Measurement and improvement of customer satisfaction

OPEN ENGINEERING

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COMPANY BACKGROUND

Member of the GDTech group, open engineering is a privately owned Belgian company active in the CAE market. We are a supplier of multiphysics software products and associated services of engineering consulting and customization. We focus our multiphysics numerical simulation activities on the robust modelling of (A) sensors, actuators & MEMS; (B) optical systems & MOEMS; (C) Fluid Structure Interaction system.

ADDED VALUE

open engineering's software tools are based on the OOFELIE::Multiphysics platform which is optimized for large industrial multidisciplinary 3D Finite Element Analysis (FEA) design works. OOFELIE::Multiphysics is used by our customers to conceptualize, design, analyze, and optimize various types of systems before starting to time-consuming and costly build-and-test cycles.

RANGE OF PRODUCTS

The OOFELIE::Multiphysics suite contains:

- OOFELIE::UI, a parametric graphical user interface
- OOFELIE::Multiphysics Solver, our multiple field and strongly coupled solver
- OOFELIE::ADX, our tool for the automated exploration of the design space

The OOFELIE::Multiphysics link to NX CAE permits using the OOFELIE::Multiphysics Solver from the NX CAE modern environment of Siemens.

MAIN REFERENCES

AMOS - BARCO - CSL - ESA - FN Herstal - Fokker - Ford - Hyundai - Lambda-X - LASEA - LuxSpace - MECAR - ONERA - SAFRAN - Taipro - Thales - UMICORE - V2i

CERTIFICATION(S)

Over the last 15 years, the open engineering company entered in partnership with the following complementary companies: Siemens, Zemax, Numeca, SoftMEMS and Mentor Graphics.

On the French market, open engineering is partner of Alliance High Tech.

OPTIMAL AIRCRAFT DESIGN (OAD)

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COMPANY BACKGROUND

OAD is specialized in the conceptual-preliminary design of aeronautical applications/software. OAD has developed a dedicated software to perform all the stages of the conceptual-preliminary design process of an airplane (from the UAV to the Airliner). This software is sold to aeronautical companies, to universities and to individuals worldwide. OAD has already taken part to the design of different airplanes, from radio controlled UAV to solar airplanes and light airplanes.

ADDED VALUE

OAD is specialized in the conceptual design of aeronautical applications. We have developed our own models and software to perform these tasks with a very high accuracy, demonstrated by a large number of validations published in technical reports. OAD works in a close relationship with famous universities and research institutes in Belgium, so in case of necessity, we have access to their equipment (wind tunnel, high-performance computers...).



RANGE OF PRODUCTS

ADS (Aircraft Design Software), since 1997, different versions were published, mainly driven by the customer's special needs (solar airplane, turbojet/turbofan powerplant, unconventional configurations, airliners...)

TMF-Reports (Technical, Marketing & Financial) for different projects: High Altitude Pseudo satellite (HAPS), Solar UAV for maritime surveillance, Electric airplane for breaking record, Towplane, Motorglider, Unconventional airplanes.

MAIN REFERENCES

We have more than 15-Years of experience in the field of software development. And we also use the software in the frame of our own projects. The most famous customers are Airbus for the industrial side, and the MIT for the academic side. All the Belgian universities use the software to train students.

OPTIMUM CPV

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COMPANY BACKGROUND

Optimum CPV bvba, part of Seifert and Skinner Group (SSG), located in Belgium and is specialized in Filament Winding and Composite Pressure Vessel (CPV) development, production and testing & certification.

Seifert and Skinner Group is one of the world's leading experts in composites processing. SSG has helped clients in numerous projects - design, prototyping, testing, patents, certification, machinery selection, plant layout, project startup, and complete turn-key systems.

ADDED VALUE

The technology used by Optimum CPV allows to maximize the use of material properties in order to minimize the weight of composite structures. The focus is on automated processing technologies to enhance the quality control and repeatability of production. Optimum CPV is dedicated to share its expertise and know-how with its customers by organizing user specific training and seminars.

RANGE OF PRODUCTS

- Thermoset and thermoplastic carbon fibre composites
- Composite pressure vessels
- Rods and tubes
- Structural beams
- Filament Winding Software

MAIN REFERENCES

Airbus Safran Launchers SAS, Asco Industries NV, Avio Spa, DLR, EADS Stelia Composites Aquitaine, Fraunhofer IPT, MT aerospace AG, Space X, TUDelft, Zodiac Aerasur

CERTIFICATION(S)

ISO 9001, ECER110, ISO 11439

ORBAN MICROWAVE PRODUCTS (OMP)

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COMPANY BACKGROUND

The company was established in 1996 as an independent RF & microwave and antenna design and production organisation with its main office in Leuven, Belgium and Orban Microwave, Inc. in Orlando, FL.

Europe and US are our prime market territories today.

Unlike traditional companies, we have no standard products and our strategy is to develop application specific products when no catalogue products are available in the marketplace.

We maintain a large library of designs, and our agility in being able to quickly and cost effectively develop products has earned us a very favorable reputation in the industry. We are typically a “fit” with customers who cannot find standard product that meets their specifications or do not wish to use in-house resources to design them. Our process is to take the design from the conceptual stage all the way through manufacturing while retaining overall responsibility throughout the product’s life cycle. Our business model is to design at cost while generating revenue through the delivery of recurring units.

ADDED VALUE

We design, manufacture and support products that target applications in the 0.1 to 25 GHz range for SATCOM, GNSS, Avionics, ADS-B, ELT, UAV, Maritime, Medical and other markets.

RANGE OF PRODUCTS

Our range of antenna designs includes patch antennas, quadrifilar antennas, choke rings and antenna arrays. RF work includes power and low noise amplifiers, local oscillators and synthesizers, X and Ka-band transponders, and a range of RF up and down converters for VHF through the Ka-band range.

CERTIFICATION

ISO 9001:2015

PRECIMETAL

Precision Castings

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COMPANY BACKGROUND

More than 50 years of experience in steel components manufacturing by investment casting / lost wax process; 125 experienced operators, modern equipment, in the heart of Europe, certified quality system since 1987.

ADDED VALUE

Dimensional accuracy and surface condition, multiple alloy choices, broad design freedom, reduced machining, welding and assembling.

Finished component ready for use: machined and coated parts ready for the assembly on production line.

RANGE OF PRODUCTS

Technical steel and stainless steel components for:

- Aircraft structures, door locking systems, landing gears, engines ...
- Light and heavy weapons, armored vehicles, embedded electronic and optics.
- Components and complex pipes for fluid transport and control
- Seat fasteners and other level 2 and 3 parts.

MAIN REFERENCES

EADS / AIRBUS, Eurocopter, Safran, and their level 1 subcontractors.

CERTIFICATION(S)

EN9100 + Nadcap (NDT)

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COMPANY BACKGROUND

For 60 years Promat has been the leading reference in the field of passive fire protection, and thermal and acoustic insulation. The company has 1300 employees spread over 13 factories, 40 sales offices and 2 innovation centres worldwide. Promat is part of Etex Industry, a division of the Belgian industrial group Etex, specialized in the manufacturing and selling of building materials.

ADDED VALUE

Promat's extensive experience, know-how and engineering capabilities enable the company to create tailor-made solutions that fit your technical and commercial needs, no matter how simple or complex your thermal, acoustic or fireproofing problem might be.

RANGE OF PRODUCTS

Promat has the most comprehensive product range available: microporous and calcium silicate insulation and fire protection materials, intumescent materials, high temperature textiles, fibre-matrix products and polymers.

CERTIFICATION(S)

ISO 9001-2008, ISO 14001-2004, OHSAS 18001-2007

ROGERS CORPORATION

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Helping
power, protect, connect
our world™

COMPANY BACKGROUND

Rogers Corporation was founded in 1832 and evolved from a paper maker into a developer and manufacturer of engineered materials. Rogers is listed on the NYSE and realized in 2016 a turnover of \$656.3 million. Rogers headquarters are based in Chandler, AZ (US), with sales offices, manufacturing and R&D sites in US, Europe and Asia to serve its customers as close as possible.

ADDED VALUE

At Rogers, we are passionate about helping the world's leading innovators solve their toughest material challenges. We are the world's technology leaders in innovative solutions for power electronics and high-frequency circuit materials. When reliability, efficiency and performance are critical, design engineers partner with Rogers to develop and deliver the material technologies they require.

RANGE OF PRODUCTS

At SIAE in Le Bourget Rogers will be showcasing its PEEK based laminates for harsh environments:

- XT/duroid® High Performance PCB laminates are used in (flex/rigid) PCB's and in wire harnesses that need to withstand challenging temperatures and chemicals or radiation.
- SYRON® High Performance PEEK based laminates for extreme environments are used in lightning strike protection, electrical de-icing, shielding, corrosion protection and various other applications.

Rogers makes also:

- RF PCB materials
- Elastomeric materials
- Laminated busbars
- DBC substrates

CERTIFICATION(S)

ISO 9001, ISO 14001, ISO/TS 16949 (pending)

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COMPANY BACKGROUND

ROVI-TECH is specialized in the development and construction of Industrial Vision Systems. The company's ILB-25 integrates cutting edge technology, using a combination of neural based and high performance machine vision tools. Through the installation of high technology automatic inspection systems, ROVI-TECH helps since more than 20 years the food, automotive, cosmetic, aeronautic and pharmaceutical industries to manage the quality of their processes and products.

ROVI-TECH builds custom made inspection systems, which can be integrated in production lines or are stand alone. The company also offers a range of standard innovative solutions for metrological and cosmetic controls of for example screws, roller bearings, studs or springs.

ADDED VALUE

ROVI-TECH has specifically developed a number of innovative solutions for the aeronautic industry:

- a machine for the cosmetic control of high performance roller bearings,
- an innovative high resolution and high speed inspection machine to sort screws, fastenings and cylindrical parts, using metrological (length and diameter) and conformity inspection (cracks, intruders,...),

- a vision system acting as operator assistance for RX image control,
- a vision system integrated in a manual assembly station to guide operators and to execute conformity control,
- a vision based detection to identify burns and other defects on gear teeth.

ROVI-TECH has also developed specific vision solutions for the ammunitions industry (cartridge inspection, shot shells inspection, cup and primer inspection...).

RANGE OF PRODUCTS

ROVI-TECH has its own vision software, the ILB-25 (Image Learning Box), which integrates the Neural Network RCE (Restricted Coulomb Energy) and the HALCON vision library (from MVtech).

ROVI-TECH is a Certified Integrator Partner from MVtech.

The ILB-25 is compatible with digital cameras (GigEvision), 3D cameras, laser telemeters, X-Ray images, thermography images and other technologies.

MAIN REFERENCES

All kinds of industries: aeronautic, food, automotive, steelworks, cosmetic, pharmaceutical, etc.

S.A.B.C.A.

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- › Mr Thibauld **JONGEN**, CEO Sabca Group
- › Mr Marc **DUBOIS**, CCO Sabca Group



- › Mrs Sabine **LELIÈVRE**, CPO Sabca Group
- › Mr Marc **HEYVAERT**, Exhibition Manager

COMPANY BACKGROUND

With strong shareholders (Dassault Group and GKN Aerospace/Fokker) and soon celebrating its first century in aerospace, SABCA, a Belgian company, has within his group 1160 highly motivated employees mastering all skills from design, manufacturing, qualification and support. The SABCA group has four plants located in Belgium and Morocco.

RANGE OF PRODUCTS

- Complex metal and composite structures for aircraft and space vehicles, integrated and equipped "Plug & Fly", leading to hybrid structure (Metal - Composite) with integrated actuators.
- Actuation systems for civil and commercial Aircraft, satellite launch systems, thrust vector control, flaps control and other actuation systems.
- High performance, radiation hardened and fault-tolerant digital control systems for safety-critical applications - CLP.
- Maintenance, repair, overhaul and upgrade for military aircraft and helicopters, flight tests and certification.

MAIN REFERENCES

Airbus, Airbus Safran Launchers, Dassault, ESA, Europropulsion, Gulfstream, Lockheed Martin, Safran Landing Systems, MT Aerospace, Thales Alenia Space,...

CERTIFICATION(S)

- EN/AS/JISQ 9100 and ISO 9100-2009 certification,
- AQAP 2110 certification,
- POA i.a.w. EASA part 21 Subpart G, MOA PART 145.32
- PRI-NADCAP certifications (Chemical Processing, NonDestructive Testing...).

S.A.B.C.A. LIMBURG

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- › Mrs Sabine **LELIÈVRE**, CPO Sabca Group
- › Mr Marc **HEYVAERT**, Exhibition Manager

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MAIN REFERENCES

Airbus, Airbus Safran Launchers, Dassault, ESA, Europropulsion, Gulfstream, Lockheed Martin, Safran Landing Systems, MT Aerospace, Thales Alenia Space,...

CERTIFICATION(S)

- EN/AS/JISQ 9100 certification
- POA i.a.w. EASA part 21 Subpart G
- PRI-NADCAP certification (Non Destructive Testing)
- ISO-9001-2000 certification.

SABENA AEROSPACE

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COMPANY BACKGROUND

Sabena Aerospace is a leading independent and international aviation solutions provider for civil and military operators, with more than a century of experience. This enabled us to develop an internationally recognized expertise and savoir-faire, as well as a responsive internal capability.

ADDED VALUE

Our mission is to facilitate and optimize our clients' business by offering highly qualitative, customized and efficient solutions based on our clients' individual needs.

RANGE OF PRODUCTS

- Line Maintenance support of major airlines in Brussels, Antwerp, Luxembourg and a series of outstations on the African continent
- Engineering and CAMO support of major airlines through our centralized Engineering Service Center in Brussels
- Component Repair Services for a wide range of aircraft components: Nacelle, Flight controls, Composite, Wheels&Brakes, L.S.E. and Tubing
- Flex Aviation Service Team providing Cabin Maintenance, Aircraft Decoration, On-Site Manpower and AOG assistance to our customers
- Defence and government activity supporting Belgium's C130 fleet with heavy maintenance and NATO's AWACS fleet with component repair

MAIN REFERENCES

We have numerous references both in civil and military industry.

Our civil references include: Qatar Airways, Air France, Thomas Cook Airlines, ANA, Singapore Airlines, Korean Air, Japan Airlines, Turkish Airlines, Vueling, Brussels Airlines, TNT airways, etc.

In military, we work mainly for the Belgian Airforce and NATO.

CERTIFICATION(S)

- EASA certification: EASA Part-145 - BE.145.01; EASA Part-147 - BE.147.001; EASA Part-M - BE.MG.25; EASA Part-21J - under application
- FAA certification: FAR 145 - SBEY985H
- EN ISO 9001 / EN 9100 / AS 9110 / AS 9100 certification: EN ISO 9001:2008 - AS 9110 A; EN ISO 9001:2008 - 60271449 - Test Nacelle Equipment
- Local civil aviation authorities approvals: more than 30 countries worldwide, with a focus in Africa (e.g., RDC, Mauritania, Tanzania, etc.)

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COMPANY BACKGROUND

Safran Aero Boosters is the world leader in low-pressure compressors and oil systems for aircraft engines. Safran Aero Boosters holds also leading positions in test cells engineering for aerospace engines and is a renowned supplier of flow regulation equipment for space propulsion.

Safran Aero Boosters high-tech products equip the Ariane launcher as well as most commercial aircraft engines in all thrust ranges. Based in Liège (Belgium), Safran Aero Boosters employs 1,450 people, and has two subsidiaries in the United States (Safran Test Cells, a key player in test cells engineering and Safran Oil Systems, a specialist of oil tanks).

ADDED VALUE

Partner to the world's major aerospace key players, Safran Aero Boosters channels 20% of its revenue into preparing for the future. The company stays one step ahead in the technology market through its ongoing programme of skills enhancement in aerodynamics, materials and processes.

RANGE OF PRODUCTS

- **BOOSTERS:** low-pressure compressors and front bearing supports
World leader for medium- and long-haul aircraft
- **OIL SYSTEMS:** lubrication units, oil tanks, heat exchangers, special valves
World leader for medium-haul and regional aircraft
- **SPACE EQUIPMENT:** flow regulation valves for engines and launcher stages
European leader, Partner of Airbus Safran Launchers for Ariane 5 & 6
- **TEST CELLS:** turnkey test cells, testing equipment, data acquisition and control systems
1 out of 3 test cells worldwide

SENSY LOAD CELLS

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► Mr Serge **SENDROWICZ**, General Manager

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COMPANY BACKGROUND

SENSY LOAD CELLS is a Belgian manufacturer of both standard and custom-made load cells, load pins, force and torque transducers, established in 1985. Our products are exported in more than 60 countries.

These sensors are intended for systems for load limitation, effort or force measurement (from 1 to 6,000,000 lbf / 3000 tf), torque measurement (from 1 to 350 kft-lb / 475 kNm), and level measurement (for silos and tanks).

We design transducers for all industrial sectors, including the most demanding ones, such as the Oil & Gas and aerospace. This means that we develop sensors able to work in the harshest environments.

ADDED VALUE

- The ability to design custom-made sensors that meet all the expectations and requirements of our customers.
- The safety, accuracy and reliability of our products. These are ensured not only because of our long experience in the utilization of steel or aluminum products (of aerospace quality) and in the development of processing software, but also because of the monitoring of our manufacturing processes.
- The flexibility of our supply chain.
- The individual tracking system for each sensor, which is 100 % guaranteed.

RANGE OF PRODUCTS

We are used to working for the aerospace and space sectors. Here are some applications examples of our standard and custom sensors: stabilizer propulsion; sensors for cylinders; fatigue simulations; multi-axis measurement of force and torque for wind-tunnel testing; dual instrumentation designed for turbulence; force and torque actuators measurement; testing embedded systems; etc.

MAIN REFERENCES

One of our major achievements is to work for ESA (European Space Agency) and also some helicopters, airplanes and UAV's manufacturers. Some of our load cells are incorporated in VEGA and ARIANE rockets.

CERTIFICATION

In June 2015 we got the ISO 9001:2008 certification after a quality audit performed by SIRA, England. In order to meet the specific requirements and to ensure the highest quality to our customers, SENSY's procedures and processes are in accordance with the EN9100 quality standards. Since 2005 we have successfully passed several quality audits according to EN9100, performed by QUALIFAS / ASD-EASE and some customers active in the aerospace sector. We are also ATEX, IECEx and CSA certified in order to produce and sell intrinsic safety transducers all over the world. Not only do these certifications impose additional technical constraints, but they also enforce compliance with a specific Quality Assurance system, thereby guaranteeing quality.

SEPTENTRIO SATELLITE NAVIGATION



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COMPANY BACKGROUND

Septentrio designs high-precision GNSS receivers for use in challenging aeronautical ground infrastructure and airborne applications. These include positioning for both navigation and payload referencing; and for manned, remotely piloted and unmanned platforms. Our receivers are used for GIS, aerial survey, mapping; and various other applications in construction, agriculture, marine and navigation. We offer solutions for all aspects of navigation including stabilized VTOL hovering, centimetre accurate geotagging of images, interference mitigation and GNSS-Inertial precision guidance

ADDED VALUE

Septentrio receivers provide accurate and reliable centimetre-level RTK positioning and sub decimetre-level PPP positioning. Septentrio receivers have a built AIM+ (Advanced Interference Mitigation) technology. AIM+ offers built-in protection against intentional and unintentional jamming using a sophisticated system of sampling and mitigation mechanisms. The receivers can suppress the widest variety of interferers from simple continuous narrow-band signals to the more complex wideband and pulsed transmitters.

RANGE OF PRODUCTS

Septentrio is the leading worldwide designer and manufacturer of GNSS receivers and surveying equipment. Septentrio's PolaRx GNSS reference stations are versatile and robust multi-frequency GNSS reference receiver. Its unique design provides measurements with the lowest noise and cycle slip rate on the market while continuously monitoring and protecting against interference, multipath and other environmental effects. The AsteRx range of products are both OEM and housed GNSS receivers. The AsteRx4 is dual-antenna receiver from Septentrio. The AsteRx-m and AsteRx-m UAS cater for ultra-low power and as small as a credit card. These GNSS receivers are designed and built to easily integrate into your UAS system. Specifically designed for the surveying industry, our unique Altus smart antenna line offer better value by design, highly successful products featuring multi-frequency satellite technology and connectivity through WiFi, Bluetooth and USB compatible ruggedized tablet.

MAIN REFERENCES

Septentrio has sold GNSS receivers to clients around the globe among whom are DEME, Jan de Nul and UNAVCO.

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COMPANY BACKGROUND

Skywash International, manufacturers of aviation dry-wash products and EFL NV, the leading aircraft cleaning technology and service provider, are partnering in an effort to reduce the carbon footprint in the aircraft cleaning industry in Europe.

Skywash and EFL NV are committed to promoting "green initiatives" by offering environmental and user-friendly products and providing efficient drywash technology and services. Skywash International is the exclusive supplier for EFL NV of waterless cleaning products for interior and exterior, for Europe(EU) and Norway/Turkey. Through EFL NV and Skywash, commercial airlines and corporate aircraft owners now have the opportunity to maintain aerodynamically clean aircraft, while making a positive impact towards the environment.

ADDED VALUE

- Elimination of WATER from the Drywash, clean and wax process with only 1 product.
- Elimination of potential contaminated water disposal.
- Reduction of aerodynamic drag and ultimately reduced fuel and CO₂ emissions.
- Reduction of ground time, transport costs and man hours from the ability to drywash.
- Maintenance of the aircraft at the same time in the hangar.
- Ultimate costs savings.

RANGE OF PRODUCTS

EXTERIOR

Drywash with carbon activator/ Drywash Quick Clean with paint protection/Diamond polish protection for brite work/Exterior wet/foam Wash/ and more.... all one product one process

INTERIOR

Cockpit Cabin Cleaner/ Carpet Cleaner/ Window crystal Cleaner/ Leather Cleaner conditioner restores and protect/ and more.... all one product one process

MAIN REFERENCES

- MRO companies
- Aviation Cleaning companies
- Distributors (We are constantly looking for distributors in some EU countries)

CERTIFICATION(S)

- AIRBUS AIMS 09-00-002
- BOEING d6-17487 Rev R
- AMS1650C

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COMPANY BACKGROUND

Leading Tier-1 Player in aerospace, **SONACA GROUP** is a global Belgian company active in the development, manufacturing and assembly of integrated structures for civil, military, and space applications. In response to strong demand from our customers, Sonaca Group today also supplies engineering services, wing panels, composite structures, forming parts, and machined parts. Sonaca achieves this through customer focus, recognized operational excellence & innovation. It employs 2500 people including 350 engineers. Sonaca has production facilities in Belgium, Brazil, Canada, China and Romania combining best cost country and customer proximity locations. All sites are robustly organized as one-stop-shop manufacturing with all necessary qualifications and approvals.

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- › Mr Thierry **DU PRÉ-WERSON**, Managing Director
- › Mr Michel **GRUSLIN**, Marketing & Sales Manager
- › Mrs Ingrid **DE BOSSCHER**, PR & Communication Manager

COMPANY BACKGROUND

Over 40 Space Missions!

SPACEBEL is a systems and software engineering company operating in the Space and Earth monitoring application sectors. Our skills include the mission definition and analysis of Earth observation mini-satellites, the design, development, integration, validation of IT space systems and geospatial information systems.

ADDED VALUE

System engineering and software engineering are close to one another by nature. Being able to offer expertise in many aspects of the space business, from space infrastructures to space applications, is a real strength for SPACEBEL. The company is now able to provide Earth observation solutions including the mission definition and analysis, the development of EO-based data interoperable infrastructures, and the study of complete mini-satellite systems. SPACEBEL looks forward to pursuing the worldwide commercialisation of Belgian technology for new Earth observation missions.

RANGE OF PRODUCTS

- Earth observation mini-satellite solutions
- On board software systems for satellites and space vehicles
- Satellite simulation systems
- Ground systems for control and mission centres
- Geospatial information systems support and services

MAIN REFERENCES

CSO, MetOp-SG, Proba-1, Proba-2, Proba-V, Proba-3, Ariane5, Vega, Galileo, Columbus, Euclid, Gaia, Smart, Rosetta, Space Weather, SmallGEO, SAT-AIS, ...

CERTIFICATION(S)

ISO 9001:2008 / TickITplus

ST Extruded Products Group (STEP-G)



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COMPANY BACKGROUND

ST Extruded Products Group (STEP-G) is one of the worldwide leading manufacturers of aluminium extrusion profiles. STEP-G is internationally positioned with production sites in Germany, Belgium and China. We are highly specialized and offer a comprehensive range of profiles and rods as well as further fabrication. Our innovative quality has earned the trust of the aerospace and the automotive industry plus its direct suppliers as well as other branches.

RANGE OF PRODUCTS

STEP-G is one of the leading manufacturers and suppliers of high quality rods, bars and solid shapes to complex applications in aerospace industry. We offer, amongst others, alloys such as 2014, 2024, 2219, 2618A, 6061, 6082, 7022, 7049, 7050, 7075/7175, 7068. All Hard Alloys are pressed on our 50MN indirect extrusion press. Additionally we provide high value-add services such as stretching, cold drawing and ultrasonic testing.

CERTIFICATION(S)

- ISO 9001
- EN/AS/JIS Q 9100
- NADCAP AC7004
- NADCAP Heat Treatment
- NADCAP Non Destructive Testing (Ultrasonic Inspection)
- Multiple Aerospace OEM approvals

TECHNICAL AIRBORNE COMPONENTS

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COMPANY BACKGROUND

TECHNICAL AIRBORNE COMPONENTS INDUSTRIES (TAC), established in 1981, designs and manufactures rods and struts for the aerospace industry. TAC is recognized worldwide as the reference source for high quality, custom engineered control, structural and system rods.

Its expertise in design, development and manufacturing of metallic & composite struts and rods is complemented by related machined parts (e.g. cranks, brackets), special tubular links, telescopic rods, torque shafts and special rod ends.

As one of the leading suppliers in this industry TAC today supplies to its customers all over the world products for all segments in aerospace: commercial aircraft, regional and business jet, helicopter, military and space program.

Whether your needs are for specific design, innovative solutions, built to print or standard items TAC will provide a tailor-made answer for all requirements of aeronautical struts & rods.



RANGE OF PRODUCTS

Various type of rods : flight control, aircraft structure, PAX doors, cargo doors, landing gear doors, HOR, telescopic, engine nacelle, heavy load, pitch control, fail-safe applications, spring cartridge, ...

MAIN REFERENCES

TAC is present on most of the major platforms in all segments: commercial, regional, defense, business, space

CERTIFICATION(S)

- EN 9100
- ISO 14001
- NADCAP
- POA



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COMPANY BACKGROUND

- Engineering Office: Ongoing research into tool development using the latest technologies.
- Tools: Design and production of plastic injection tools.
- Precision mechanics and machining in small and medium-size runs for all industries. We are able to provide all types of operations.

ADDED VALUE

Tecnolon Works is part of the Sub-Alliance cluster.

Sub-Alliance brings together industrial subcontracting professionals who pool their complementary skills and their marketing strength to promote business and innovation through partnership and to facilitate technological exchange. See: www.sub-alliance.com

RANGE OF PRODUCTS

- Precision Machining: Machining of various tools and mechanical components.
- Design & Manufacturing of tools: Designing and manufacturing injection tools; a highly competitive machine fleet; our engineering office is able to create and modify any tools.
- Turning: Several modern CNC machines that can turn diameters from 0.5mm to 750mm.

- Milling: Various conventional and high-speed CNC milling machines with up to 5 simultaneous axes, which are able to machine the most complex parts from various materials.
- Electrical discharge machining: Wire-cut or die-sink electrical discharge machining.
- Assembly: We offer complete integration of mechanical subassemblies.
- Grinding: is performed on a specially designed tool machine: the grinder

MAIN REFERENCES

Aviacomp - Stelia Aerospace - Safran - Techspace Aero -
Safran Filtration Systems - Donaldson Le Bozec - Sonaca
- Crouzet - LMB Aerospace - Esterline group - CMI

CERTIFICATION(S)

ISO 9001 & EN 9100

THALES ALENIA SPACE BELGIUM



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COMPANY BACKGROUND

Thales Alenia Space Belgium is a subsidiary of Thales Alenia Space, the European leader in satellite systems and a major player in orbital infrastructures.

Thales Alenia Space Belgium is a Belgian Company in the forefront of space sector. World leader in Power Electronics for satellites, we are also the main supplier of Electronics for the European Launchers. Day after day, our staff of 700 offer quality products and services to our customers all over the world.

Satellites

Thales Alenia Space Belgium is a world leader in Power Conditioning and Distribution for satellites. Our product range covers the needs of spacecraft electronics from micro satellites up to large geo-satcom (from 250W up to 20 kW).

The company also enjoys a position at the forefront of several flight electronics products: flexible microwave power amplifiers with travelling wave tubes power supplies for plasma propulsion thrusters (PPU), motor drive electronics, DC/DC converters, etc.

The company announced that it would build a new facility dedicated to the production of photovoltaic assemblies (PVA). Based on the automated assembly of photovoltaic cells for satellite solar panels, this will be the only operation of its kind in Europe. The new facility will feature innovative technologies, making it the show-case for Thales Alenia Space's Industry 4.0 approach to manufacturing.

Launchers

Thales Alenia Space Belgium is the main supplier of on-board electronics for Ariane 5. The company is also the European leader for the Checkout Systems and Control Benches for launchers. We are prime contractor (and manufacturer) for the Safeguard System of the Russian launcher Soyuz that are launched from French and Ariane 6.

MAIN REFERENCES

Telecom Satellites:

- Chinasat, Ciel-2, DFH4, Eutelsat, Express, Globalstar, HotBird7, Iridium, Iridium NEXT, Koreasat, Lutch, Nilesat, O3b, Palapa-D, Rascom, Satcom, Sicral 2, Star One, Syracuse, Turkmenalem, W2A, W6A, W7, Koresat, ...
- Observation, Scientific and Navigation Satellites:
- Exomars 2018, Galileo, Giove-B, , Herschel-Planck, Huygens, Meteosat, Metop, Myriad, Pléiades-HR, Sentinel, SmallSat, Smart 1, Soho, Spirale, Spot, Stereo, XMM...
- Launchers and Space Transports:
- ARD, Ariane 5 & 6, ATV, Columbus, Expert, Soyuz, Vega, ...

CERTIFICATION(S)

ISO 9001, EN 9100, AQAP 2110, CMM3, ISO 14001 and OHSAS 18001

THALES BELGIUM

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COMPANY BACKGROUND

Thales Belgium has served worldwide and the Belgian defense, security, safety and transportations markets for more than 50 years. Today, the Group employs more than 200 people in 3 sites across Belgium, in Herstal, Tubize and Genk. Thales has developed close ties with Belgian industry over the years, and has worked hand in hand with universities and research institutes in order to develop innovative products for its customers.

ADDED VALUE

- Supplier of tactical communication systems and sensors
- Partner of NATO's program to upgrade its AWACS early warning and control aircraft
- Unique company able of offering and mastering the whole air-to-ground rocket system
- Technologies: propulsion, pyrotechnics, mechanics, electronics, ballistics, guidance

RANGE OF PRODUCTS

- 2.75"/70 mm air-to-ground rocket system for aircraft and helicopters
- Tactical communication systems and a variety of onboard sensors for all platforms
- Modernizing the communications systems as a Tier 1 supplier to aircraft manufacturer

THALES

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- Cryptographic and Cyber Security Solutions to protect on-board data
- Digitalization of aircraft operations based on Electronic Flight Bag (EFB) solutions

MAIN REFERENCES

- Customers & partners: Nato / Napma, Belgian Defense, Luxembourg Defense, Boeing, Raytheon, Northrop Grumman, Lockheed Martin, Thales Avionics, Thales Communications & Services, Astrid, Airbus, Stib Brussels
- OEM : Airbus Helicopters, Hindustan Aeronautics Limited, Leonardo Helicopters, BAE Systems, Denel
- Rocket systems have been adopted by 55 countries and 70 armies worldwide

CERTIFICATION(S)

Thales Belgium is certified according to ISO 9001:2008 and qualified supplier by various helicopter and aircraft OEM's.

(UN)MANNED

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COMPANY BACKGROUND

(UN)MANNED automates DO-178. It is reshaping the avionics industry for both manned and unmanned aircraft.

Today, DO-178C certification is required in large UAV programs as well as in manned aircraft. DO-178C is a major cost driver of programs, and the primary cause for delays. This is true for manned aircraft, but even more so for unmanned aircraft which have advanced onboard decision logic that requires certification.

ADDED VALUE

(UN)MANNED's product "Sol" AUTOMATES DO-178C. Accepted by EASA and FAA, it is used in major manned and unmanned aircraft programs.

For large programs, the DO-178C automation technology takes the risk out, supporting late changes without delays. For small series, customized instruments are now affordable.

The DO-178C automation technology also enables a new class of decision making avionics, even at DAL A.

RANGE OF PRODUCTS

- Sol Ground Unit (SGU): a rack-mounted DO-254/DO-178C device family that designed for DAL B certified ground cockpits and manned cockpit simulation systems. Designed for providing state-of-the-art visual cockpit experiences that go well beyond what is found onboard manned aircraft, and for path planning and safety envelope calculations., with full DO-178C certification.

(UN)MANNED

- Sol Aerial Unit (SAU): a DO-254/DO-178C DAL B certifiable Sol processing unit family designed for airborne UAV avionics. Optimized for advanced mathematics, decision support as well as internal communications, with low power consumption and weight.
- Sol on Esterline: a DO-178C DAL A solution designed to take full advantage of the features of Esterline hardware platforms. Supports all typical cockpit applications, include PFD, Navigation Display, and EICAS. Talk to us if you would like us to support your hardware as well.
- Solide: the Sol Integrated Development Environment that allows your team to build your own applications using Sol, with the full DO-178C automation advantage.
- Sol Application Service: (UN)MANNED can build your instrument using Sol for you.

MAIN REFERENCES

- (UN)MANNED provides Esterline with the Antonov 124 cargo aircraft with navigation display.
- (UN)MANNED's SGU is a key part of the Elbit Systems Hermes 900 certified ground cockpit.
- (UN)MANNED used Sol to provide the Zeppelin NT airship software integration and EICAS system for the new fly-by-wire VTOL airship with tilt-rotating engines and advanced avionics capabilities.

CERTIFICATION(S)

Our products are DO-254/DO-178C DAL A certifiable. Cockpits designed using Sol are approved by EASA and FAA, and are flying every day above Europe and the USA.

(UN)MANNED operates in line with AS9100 standard.

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COMPANY BACKGROUND

V2i provides a full range of services in the field of mechanical vibrations:

- Based on researches of international repute of the University of Liege in the field of structural dynamics
- Continuously improved and updated by massive R&D programs in close collaboration with universities

ADDED VALUE

Thanks to its complementary expertise in numerical modeling and experimental testing, and thanks to innovative tools, V2i offers to its customers the necessary integration of simulation and testing in customized solutions.

RANGE OF PRODUCTS

Full range of services in mechanical vibrations:

- Finite Element Modeling: fatigue, rotor dynamics, model correlation
- Measure of Vibrations: modal analysis, rotating machinery
- Shaker and Environmental Testing: qualification and certification, specific test facilities for aeronautics
- Development of turnkey monitoring solutions: fully customized software and hardware for quality control and test benches.

MAIN REFERENCES

Safran / Rolls-Royce / Thales / Sonaca / Sabca

CERTIFICATION(S)

ISO 9001:2015 / ISO 17025: en cours / Safran / Rolls-Royce Deutschland / National Instrument Alliance Partner

VANHULEN HIGH PRECISION SPRINGS



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COMPANY BACKGROUND

Vanhulen is present in the aero since more than 20 years.

ADDED VALUE

Support in quick prototyping and calculation.

RANGE OF PRODUCTS

Compression Springs. Traction Springs. Form Springs. Torsion Springs.

Double Torsion Springs. Induction Coils. Locking Rings. Stamping of items in single or combined toolings, by electroerosion, laser and chemical components for prototype building and small series.

Assembling of mechanical, plastic or electronic parts in using conventional or specific processes (tig and ion-beam welding, etc.)

MAIN REFERENCES

SAFRAN-ASCO-BARCO-GROUPE HERSTAL-CMI Defense-COMMScope-THALES-EADS-ASB-SABCA-AERO VODO-CHODY-SHUR LOCK-MUSTAD/BRITTE-CAPPAUL-ELEBLABINAL

CERTIFICATION(S)

The quality of the VANHULEN products is officially certified by standards such as ISO 9001, EN 9100 P2 and ISO/TS16949.

VITO (Flemish Institute for Technological Research)



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COMPANY BACKGROUND

VITO (Flemish Institute for Technological Research) is a leading European independent research and consultancy centre focussing on cleantech and sustainable development. VITO Remote Sensing develops state-of-the-art space- and airborne earth observation systems (sensors and platform, processing and distribution) that enable end-users to use reliable geo-information for Environment, Agriculture, Food Security, Water Quality, Security, ...

ADDED VALUE

Many companies can benefit from geo data and insights. During years of global public research, our engineering staff has built the expertise required to find the right approach for every need.

VITO Remote Sensing offers end-to-end Earth observation and operational processing services for the following applications:

- Land Use
- Agriculture
- Water & Coast
- Security
- Infrastructure
- Climate

RANGE OF PRODUCTS

- end-to-end Earth observation technology
- operational image processing services
- EO application development, value added services and information products
- raw data
- user and system requirements
- instrument conceptual design
- system performance modelling
- radiometric and geometric calibration/validation, and sensor calibration
- high resolution imaging spectroscopy
- development of new high technological instruments, platforms and missions on the base of user requirements

MAIN REFERENCES

We serve an expansive network of customers and partners. With more than 80 national and international partners and active in more than 115 countries we offer image processing services for both public organizations and industry.

CERTIFICATION(S)

ISO 9001, ISO 14001, OHSAS 18001

VRI (FLEMISH SPACE INDUSTRY)

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COMPANY BACKGROUND

VRI is the industry grouping of Flemish companies, research centres and educational institutions with activities in space. The association was founded in 1995 to set up cooperation between its members, with non-member companies, research centres and educational institutions. VRI extends its services to international cooperation by supporting the cooperation of its members with the European institutes and companies.

ADDED VALUE

VRI is an association of 31 Flemish companies, research centres and educational institutions all active in the space industry. As a not for profit organization it develops synergies between its members and facilitates the creation of joint ventures. It represents its members towards the national authorities and towards ESA and the EU. VRI also sets up public actions to promote the space industry.

WALLONIE AEROTRAINING NETWORK - WAN



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COMPANY BACKGROUND

The « Wallonie Aerotraining Network », also called the « WAN », is an « assembly ground » of training. The WAN relies on different partners, such as centres of competency, aeronautical schools, major players of industry (SONACA, SABCA, Techspace Aero...) or airlines (SN Brussels Airlines, Thomas Cook, Jetairfly, etc.). The WAN covers all the needs of the aerotechnical sector.

ADDED VALUE

All courses are given by updated instructors, experts in their particular field and with an industrial experience.

In addition to this training, the WAN can also offer services such as programming, prototype manufacturing, development tests, complete manufacturing support, quality control, etc.

RANGE OF PRODUCTS

A wide range of trainings for industries in CAD-CAM, Finite elements, manufacturing, quality control, non-destructive inspection, in aeronautical maintenance (basic and type trainings) and in air operations.

MAIN REFERENCES

Our customers are based in Belgium or abroad : SONACA, SABCA, SAFRAN (in the field of manufacturing sector, TEC4JET, AGUSTA, XAIR SERVICES; in maintenance and airlines such as Brussel Airlines).

CERTIFICATION(S)

We have different approved certificates:

- EASA PART 147 in maintenance trainings
- CCPTP for flight attendant trainings
- IATA for dangerous goods trainings and
- Trainair Plus for ICAO

USEFUL ADDRESSES IN FRANCE

Economic and Commercial Advisors of the Walloon Region in France

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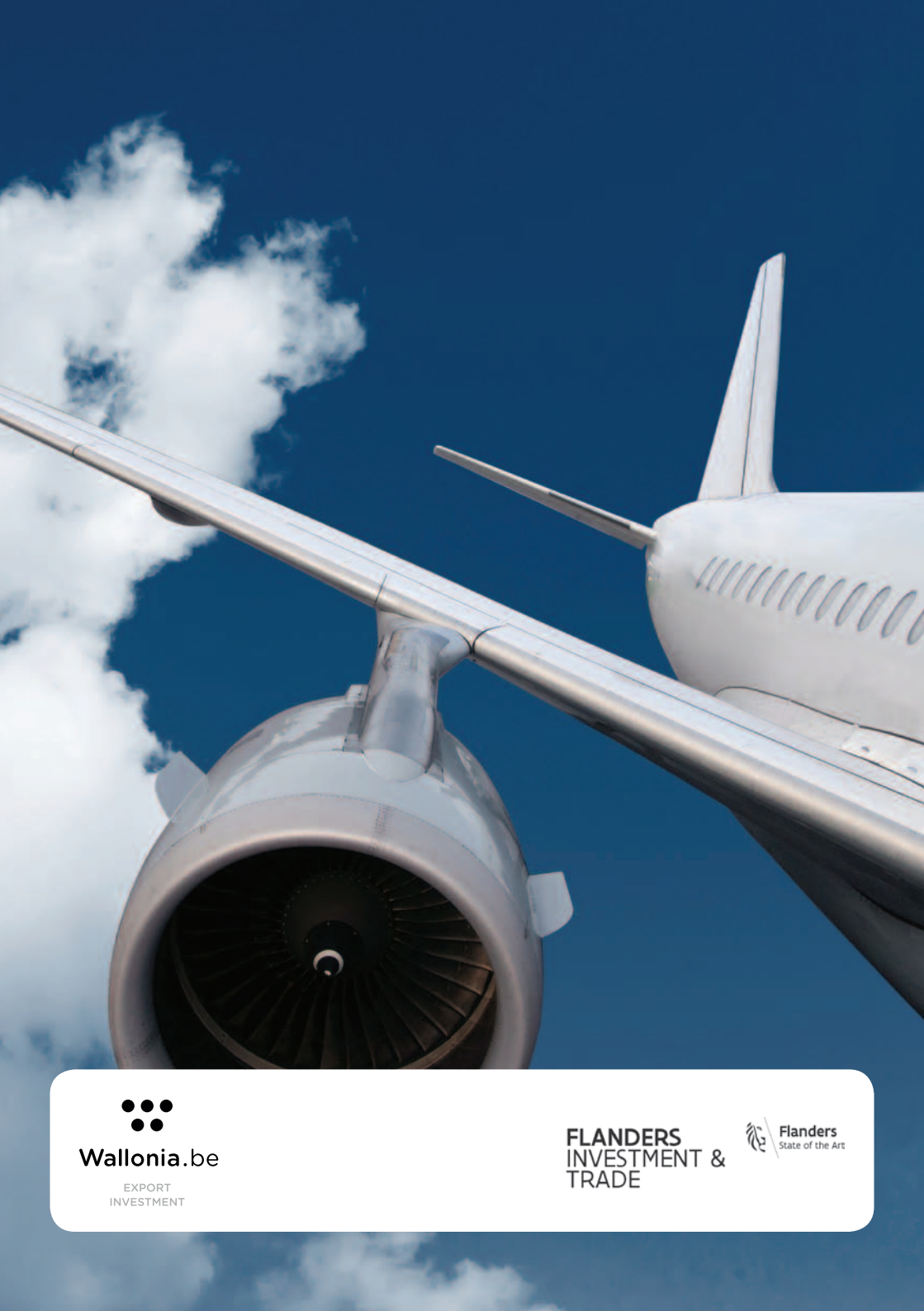
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