

*BELGIAN*



*AEROSPACE*



**PARIS AIR SHOW 2019**

**LE BOURGET → HALL 2B**

**17-23/06/19**



# PARIS AIR SHOW 2019

LE BOURGET → HALL 2B  
17-23/06/19

# WALLONIA EXPORT- INVESTMENT AGENCY

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> Mrs Pascale **DELCOMMINETTE**, CEO

Mrs Chantal **DE BLEU**, General Manager

Mrs Violaine **BARTHELEMY**, Area Manager France and GD of Luxemburg

AWEX, partner of the international economic development of Wallonia.

The Wallonia Export-Investment Agency (AWEX) is in charge of the development and management of Wallonia's international economic relations.

With regards to foreign trade, the Agency has a promotion and information mission with regard to both the international and Walloon business community.

Intended for purchasers, decision-makers, importers and foreign prospects, the Agency can, on request:

- pass on economic data regarding Wallonia and its export potential;
- provide information on the products and services of Walloon businesses;
- seek Walloon businesses for the conclusion of international partnerships;
- distribute lists of Walloon exporters.

Vis-a-vis Walloon businesses, the Agency is their comprehensive international partner, providing a range of services and activities covering the entire export process:

- General and commercial information on foreign markets;
- Production of individual market studies on request;

- Organisation of commercial canvassing operations (participation in international shows, organisation of economic missions, sector-based contact days, etc.);
- Contacts with international organisations;
- Promotion of Wallonia and its export potential;
- Financial support and funding for exports;
- Training and raising awareness of international professions.

With regards to foreign investment, the Agency provides general expertise in the areas of promotion, prospecting and informing potential investors. It also ensures active monitoring of investors based in Wallonia, as well a mission to find foreign buyers for Walloon industrial sites in the process of restructuring.

AWEX is also competent for the strengthening of the Wallonia brand image overseas.

AWEX has a workforce of more than 400 people and about one hundred offices overseas.

# FLANDERS INVESTMENT AND TRADE

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> Claire **TILLEKAERTS**, CEO

Jeroen **DE VUYST**, Head of Dept - Trade Fairs & Events

Wendy **DE SMEDT**, Assistant Area Manager

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 the 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 100 offices we are bound to be conveniently located near you, wherever you are.

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Etienne **POURBAIX**, Managing Director  
Jean-Jacques **WESTHOF**, Secretary-General  
David **PRAET**, Deputy Director, International Relations

Michel **STASSART**, Deputy Director, Space Programs  
Claudine **BON**, Deputy Director, Projects & Training  
Pierre-Jean **FONDU**, Project Manager

Skywin Wallonie is the Aerospace cluster of the Wallonia 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 is focused around 5 sectors and 6 technological axes.

Skywin has 148 members among which:

- 115 Companies: SMEs (84) and large companies (31)
- 25 Research operators
- 2 Training centers
- 6 Other bodies (agencies, associations...)

## FIGURES FOR THE SECTOR IN WALLONIA

Turnover of the sector: €1.75 billion;

Employment figures: 7.500 direct jobs.

# FLEMISH AEROSPACE GROUP (FLAG)

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> Kris **VAN DER PLAS**, Managing Director

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 support establishing a triple helix structure for R&D.

# EXHIBITORS

- A.C.B. (ADVANCED CIRCUIT BOARDS)
- ADVANCED COATING
- A.E. PETSCHÉ
- AERODROME DE NAMUR
- ALX SYSTEMS
- AMIA SYSTEMS
- AMOS
- ANTICIP CONSULT
- ANTWERP SPACE
- ANY SHAPE
- ASCO INDUSTRIES
- B-LiFE
- BELGIUM ENGINE CENTER (BEC)
- BMT AEROSPACE BMT ADDITIVE
- BRIDGESTONE AIRCRAFT TIRE EMEA
- BRITTE-MUSTAD
- CAPAUL
- CENAERO
- CENTRE SPATIAL DE LIEGE
- CEVEMA SURFACE TREATMENTS
- CITIUS ENGINEERING
- COEXPAIR
- DEDECKER PRECISION MECHANICS
- DELTATEC
- DESIMONE
- DUMOULIN AERO
- FERONYL
- FN HERSTAL
- GDTech
- GRIMONPREZ TRANSMISSION GEARS
- HTMS – HIGH TECH METAL SEALS
- I.REVITALISE
- JDC INNOVATION
- L&D JET TECHNIÉK
- LA NITRURATION MODERNE
- LESCOV AERO
- LIONOIL – ANTWERP LION OIL WORKS
- MATERIA NOVA
- MECASPRING
- MOCKEL
- NEWTEC
- NOLISYS
- NUMECA - NUMFLO
- OPTIMAL AIRCRAFT DESIGN
- OPEN ENGINEERING
- PIRON PEINTURES INDUSTRIELLES
- PRECIMETAL PRECISION CASTINGS
- QINETIQ
- ROVI-TECH
- SABCA
- SABCA LIMBURG
- SABENA AEROSPACE ENGINEERING
- SAFRAN AERO BOOSTERS
- ST EXTRUDED PRODUCTS GROUP (STEP-G)
- SENSY LOAD CELLS
- SIMA
- SOBELCOMP
- SONACA
- SPACEBEL
- TECHNICAL AIRBORNE COMPONENTS
- TECNOLON WORKS
- THALES ALENIA SPACE
- THALES BELGIUM
- (UN)MANNED
- UPM TEC
- V2I
- VANHULEN HIGH PRECISION SPRINGS
- VITO
- VITROCISÉ BELGIUM
- VRI
- WALLONIE AEROTRAINING NETWORK (WAN)



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## COMPANY BACKGROUND

ACB is one of Europe's leading manufacturers of High Technology & Quick Turnaround Printed Circuit Boards (PCB).

ACB offers a wide range of technologies including rigid, flex-rigid and flexible multi-layer Printed Circuit Boards (PCB) for the aerospace, space, defence and medical industries as well as for other industrial applications.

## RANGE OF PRODUCTS

Our technology range is adapted to the most demanding environments, from extreme temperature to space. Our two factories deliver very small to medium quantities in quick turnaround or in standard lead time. Our product engineering team supports your development from idea to series production. ACB is working across Europe and has a local presence in most countries.

We are also specialized in RC PCB technology using special materials (PTFE...) for antenna, radar and other high frequency applications.

## CERTIFICATION

NADCAP, EN9100, ESA, IPC

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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.

## 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: Galvalibs®

Rollprof: roll profile measurement inside your machine

Pénétrascopes: vickers hardness measurement

Occhio 500 Nano®: shape and size of particles

## MAIN REFERENCES

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

## CERTIFICATION

ISO 9001 - ISO 14001 -EN 9100 -NADCAP

Laboratory certified by SAFRAN

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## COMPANY BACKGROUND

A.E. Petsche Company, a division of Arrow Electronics, is the leading global distributor of aerospace and defence interconnect solutions. Our expertise in interconnect components has been built over decades of experience serving the industry, and it is 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

The airfield of Namur is situated in the center of the Belgium. Near the principal highway of the country, we have a new asphalt runway of 690 meters with new fuel stations (Avgas, UL91 and JetA1). Our objective is to become a new attractive pole of aeronautic. We have space and offices capable to welcome companies based in the aeronautic segment. We have planes, helicopters, gliders, paraprop and drones flying on our site.

## ADDED VALUE

We are in the center of the Belgium. We have space and we are just at 10 minutes from the center of Namur, the capital of Wallonia.

## RANGE OF PRODUCTS

We have planes, helicopters, paraproping, drones, gliders. We rent spaces for companies. We can build some hangar or offices.

## MAIN REFERENCES

We have just finish to build a 2.300 square meters hangars for Sonaca Aircraft. They assemble the S200 at the "Aerodrome de Namur".

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## COMPANY BACKGROUND

ALX Systems provides solution to make UAVs autonomous, by enabling AI onboard.

UAVs becomes able to swarm, avoid obstacles, proceed to live recognition, 3D reconstruction, GPS denied flight. Securely connected to the cloud or private premises, the system allows a complete fleet management.

ALX also provides an advanced simulation system, deep learning training tools, and vision algorithms

## ADDED VALUE

Our added value for manufacturer is to provide a complete operating system or some technological blocks to make help them dealing with the intelligence on UAVs.

Our added value for end users is to provide quickly reliable missions customized for their own business by removing all the technological risk due to UAV use

## RANGE OF PRODUCTS

- ALX OS: the complete suite to make UAVs autonomous, including GCS, drone control board and server system
- ALX PHYSICS: the simulation solution, dedicated to validate business application scenarios.
- ALX VISION SUITE: the suite dedicated to enable deep learning embedded on UAVs, train neural network, backtest strategies
- ALX SPARTIATH: The application to protect against drone intrusion

## MAIN REFERENCES

Sony, NATO, DGA, CMI Defence, John Deere, etc.

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## COMPANY BACKGROUND

AMIA Systems is an Operational Excellence company developing its own software, SIMOGGA, to visualize, quantify and optimize the operations of Production/Maintenance plants and Warehouses.

We challenge our customers to think out of the box and we bring our solutions to make them autonomous in their transformation.

## ADDED VALUE

Your goals through our solutions? Remove the complexity of the analysis; Compare the “What-If” scenarios and anticipate the variability; Accelerate the decision process with simple and understanding visuals; Collaborate and involve your teams to facilitate the change management; propose a complete toolbox to suit the different ways of working and encourage ideation.

## RANGE OF PRODUCTS

SIMOGGA Layout Design to optimize flows (move, reorganization, investment) by building layout scenarios ; SIMOGGA Planner to simulate, plan and schedule (finite capacity) resources and identify/remove bottlenecks ; SIMOGGA Analytics for warehouses to visualize and improve your storage (flows, efficiency, arduousness)

## MAIN REFERENCES

ASCO, SONACA, Thales, FN Herstal, Exxelia, SNCB, DAF Trucks, NLMK, Unilin, TI Automotive, Druart (CFE), Farnell, TDWilliamson, Twin Disc

## CERTIFICATION

Lean Six Sigma Black Belt

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## COMPANY BACKGROUND

Located in Belgium, AMOS has been designing and building high-precision optical and mechanical equipment for more than 35 years. Its main achievements are professional telescopes, space optical systems, test equipment for space instruments, and high-precision mechanical equipment. It employs about 100 employees highly skilled in advanced technologies and offers services to the space industry, to the professional astronomy sector, to scientific laboratories and to industry.

## ADDED VALUE

AMOS' added value recognized by its customers is:

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

## RANGE OF PRODUCTS

Professional Astronomy Systems: turn-key telescopes, telescope subsystems, telescope instruments

Space Systems: on-board hardware, optical and mechanical test systems (GSE), handling systems

Science and Industry Solutions: optical and mechanical systems

Services: Design, engineering, manufacturing and test services in optics, mechanics and mechatronics.

## MAIN REFERENCES

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

## CERTIFICATION

ISO 9001:2015

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## COMPANY BACKGROUND

Anticip Consult is a private company run by a multi-disciplinary team of consultants and engineers.

Our consultants have acquired a strong experience in aerospace supply chain and accompanied numbers of companies to lead different project: process optimisation, certification as well as quality and on time delivery performances improvement.

## ADDED VALUE

Keep it simple and efficient!

Do your clients have high quality requirements? Anticip Consult accompany your business on the way to become more efficient and satisfy your more demanding customers. Anticip Consult provides long-term, flexible and efficient solutions to the benefits of your company, for today and for the future.

## RANGE OF PRODUCTS

Coaching – Training – Audit for aerospace industry and service: quality management systems (EN 9100 serie), performance improvement, suppliers management and associated support in health and safety, and environment.

## MAIN REFERENCES

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

## CERTIFICATION

ISO 9001:2015

IAQG certified EN 9100 auditor



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## COMPANY BACKGROUND

Antwerp Space is a leading space company in Belgium, active in the field of satellite communications for more than 50 years. Its core business is delivering innovative turn-key solutions to the commercial and institutional market, based upon its large expertise in microwave, photonics and signal processing. Today the company is active in the following application domains: satellite communication-, navigation- and compact radar systems, RF-Instruments and Payloads.

## ADDED VALUE

Based on the long experience of the company with ESA, Antwerp Space offers high reliable, flexible/modular and customized solutions for the space market. Antwerp Space is also transferring this knowledge into new products for the New Space market (e.g Intersatellite Links), to offer cost effective and reliable solutions for commercial satellites and satellite constellations.

## RANGE OF PRODUCTS

Satellite communication systems and equipment (Space & Ground)  
Navigation & compact radar systems  
RF-instruments and payloads

## MAIN REFERENCES

Communication subsystem for the ExoMars 2020 and JUICE mission.

LaRa: the first Belgian instrument to be landed on Mars, which is part of the ExoMars 2020 mission.

## CERTIFICATION

Antwerp Space is EN9100 certified.

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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, Process Customization 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 high performance polymers and continuous fiber reinforced composites.
- Control, Test and Quality assessment: Provi-

ding our customers with the best quality standards is our main concern as a way to favour the rapid introduction of 3D printed parts in highly demanding industrial applications. Any-Shape is fully equipped with metallography and metrology labs aiming at qualifying the mechanical properties of the parts produced or developing the process parameters for new materials. 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), Scalmalloy (Airbus qualified), Titanium (TA6V), Stainless steel (316L,...), Inconel (In718,...), Maraging steel (MS1), ...

Plastic materials available: Polyamide (PA11, PA12, PA6,...), Aluminium filled polyamide (Alumide), Glass bead filled polyamide (GFPA), Flame retardant polyamide (FRPA), TPU, ABS-like plastics,...

Composites materials available: Nylon 6 matrix reinforced with continuous carbon, kevlar or glass fibers.

## MAIN REFERENCES

AIRBUS DEFENSE & SPACE, SAFRAN (several subsidies), THALES, SONACA, ASCO, ESA, BRIDGESTONE AIRCRAFT, CMI, PSA, DAIMLER, VOLVO, VALEO, SOLVAY, etc.

## CERTIFICATION

EN9100

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> Natalie **ROGISTER**, Director Program  
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Kevin **HAMESSE**, Key Account Manager  
David **OSTERHOUT**, Procurement Director  
Philippe **THOMADIS**, Business Development  
Manager

## COMPANY BACKGROUND

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 140.000m<sup>2</sup> covered industrial area.

Today, the Asco Group employs around 1350 dedicated men and women, with a turnover of 360 million USD (consolidated TO 2018).

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

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## COMPANY BACKGROUND

B-LiFE « Biological Light Fieldable laboratory for Emergencies » is an operational service for Emergency Response and Public Protection and Disaster Relief. B-LiFE has been developed under the auspices of the European Space Agency. The members of the B-LiFE Consortium are: CTMA-UCL (Be), Belgian Civil Protection (Be), Aurea Imaging (Be), Eonix (Be), Nazka Mapps (Be), SES Networks (Lu), Rohill (NI).

## ADDED VALUE

B-LiFE integrates a fieldable biological and medical laboratory with space assets (satellite telecommunication, Earth observation and mapping, GNSS and geolocation), terrestrial telecommunication, laboratory and crisis management tools and Unmanned Aerial Systems. B-LiFE has an autonomous information and telecommunication infrastructure and can be deployed anywhere.

## RANGE OF PRODUCTS

B-LiFE provides field biological and medical diagnostic capabilities for crisis response and for drug trials, Telecommunication Emergency Nodes integrating satcom and terrestrial communication, Laboratory Information Management System, Emergency and Logistics decision support tools, Real-time mapping for situational awareness (epidemiological maps, sensors data), UAS for mapping and transport.

## MAIN REFERENCES

Belgian Civil Protection; Belgian Defence; EU Civil Protection Mechanism; Government of Guinea; B-LiFE has been successfully deployed in Guinea, from 2014 to 2015, during the Ebola epidemics.

## CERTIFICATION

B-LiFE is certified in the EU Civil Protection Mechanism. B-LiFE capabilities have been validated by ESA. Eonix is certified for information security management according to the ISO 27001 standard.

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## COMPANY BACKGROUND

BEC is a one-stop shop for maintenance, repair and overhaul (MRO) services for the F100-PW engine platforms. We provide a complete, single MRO solution through a wide range of in-house repair capabilities. Today BEC also offer its equipment's and tooling portfolio as well as its 40+ years of experience in Engine MRO activities to customers active in civil aviation.

## ADDED VALUE

A true one-stop shop, strategically located between a London-Amsterdam-Frankfurt- Paris square. Our spare parts provisioning and trading offer shorter lead times and off-the-shelf readiness, while our engineering and logistics services are targeted to reduce overall cost for our customers.

## RANGE OF PRODUCTS

F100-220/E as well as F100-229 maintenance repair and overhaul. Our capabilities and equipments are available for other application: Military

and Civil aviation application as well as non-aviation. NDI/NDT, Chemical Cleaning, 3-Axis inspection, Machining, Welding & brazing, Sheet metal working, Blasting, Heat Treatment, EDM, Silicone injection, Plasma spraying.

## MAIN REFERENCES

BEC is key supplier of 15+ Air Forces operating F-15 & F-16 in the world. High level of client-retention rate. BEC is part of AIM Norway.

## CERTIFICATION

BEC is Authorized Overhaul Facility by Pratt & Whitney. We own ISO 9001 and EN 9110 certification. For civil aviation application development, BEC is also conducting the EASA & FAA Part 145 process.

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BMT Aerospace with facilities in Oostkamp Belgium, Fraser Michigan USA and Iasi Romania, is an international market leading provider of high technology components.

The group designs, manufactures and markets gears, mechanical components, sub-assemblies and gearboxes for the principal original equipment producers in the worldwide aerospace and defense markets.

The value chain is realized “in-house”. BMT Aerospace is specialized in automated machining and special processes, including heat treatments and surface enhancements. All entities are EN9100 certified and NADCAP accredited.

BMT Additive, a 100% subsidiary of the BMT Group, is an integrated metal additive manufacturing part supplier offering multiple product and technology solutions for various industries. We believe in “co-creation”, combining design, printing

and finishing capabilities under one roof. This integrated approach is crucial from the earliest stage of our customers’ product development to ensure the maximum value of additive manufacturing. It enables us to add significant value, driven by a tailored DfAM (Design for Additive Manufacturing), the selected printing technology and finishing steps. This makes us a unique partner for our customers.

We have a strong focus on tooling/fixtures and prototyping to grow towards a certified additive manufacturing company in aerospace.

Our five market segments within the Aerospace industry are:

- Mechanical actuation (gears, lever systems,...)
- Turbine engine gearboxes and housings
- Bevel – helical – ring gears
- High precision detail gears
- Shafts & couplings

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> Paolo **PIERI**, Sales Director EMEA

## COMPANY BACKGROUND

Bridgestone Corporation, headquartered in Tokyo, is the world's largest tire and rubber company. With a passion for excellence and creative pioneering, Bridgestone Aircraft Tire EMEA serves the commercial aviation industry with the highest quality aircraft tires, providing our customers and their passengers with superior safety and reliability.

## RANGE OF PRODUCTS

Our outstanding tires are sourced exclusively from our factories in Japan and state-of-the-art retreading facility located in Belgium, the largest aircraft retreading plant in the world.

## MAIN REFERENCES

Bridgestone Aircraft Tire EMEA supplies new and retread tires in the EMEA Region to more than 160 airlines and wheel shops. Around the world, over 2,000 aircraft equipped with Bridgestone aircraft tires land safely every hour.

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## COMPANY BACKGROUND

Founded in 1896 and specialized in the machining of high precision mechanical components as well as the assembly of electromechanical systems for demanding sectors such as aeronautics, space, defence, medical, transport or energy.

## ADDED VALUE

With 150 years of expertise in cutting-edge sectors and 32 technologies mastered internally, Britte-Mustad is more than just a machining expert but a real industrializer of your products. Its location is also a key asset with its multilingual staff (German, English, Dutch and French) and makes it possible to export more than 40% of its turnover in various countries including China and USA.

## RANGE OF PRODUCTS

Our products are for the most part high-precision and high value-added, from the single piece to

several million pieces per year, from 3 mm in diameter and up to 800x800x800 mm volumes. We machine all types of materials, even the most exotic as well as blanks, foundry or forging blanks or various synthetic materials.

## MAIN REFERENCES

Most of our clients are world leaders in their sectors. They have built their successes on the competitiveness and quality of their products and we are proud to be one of their partners.

## CERTIFICATION

Certification EN9100

Certification ISO9001



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## 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 SUMP and BOOSTER modules for the LEAP engine as well as modules for the 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 production 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 up to Ø1250x1000mm in a 2000m<sup>2</sup> fully air-conditioned hall
- High-precision 3D-Measuring equipment

- Machining on horizontal centers (pallet machining) up to 500x500x500 mm
- Hard turning in an air-conditioned environment up to Ø420mm
- Dye penetrant inspection, barrel finishing, balancing, sandblasting
- Complete integration of sub-assemblies (SUMP LEAP, BOOSTER LEAP and CFM56)

## RANGE OF PRODUCTS

Parts of aircraft engines and structural components

## MAIN REFERENCES

Airbus – Boeing – General Electric – Safran Group – Snecma Motors – Sonaca – Technical Airborne Components – Asco Industries

## CERTIFICATION

EN 9100: 2016

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## COMPANY BACKGROUND

Cenaero is a private non-profit applied research center providing to companies involved in a technology innovation process numerical simulation methods and tools to invent and design more competitive products. Internationally recognized, Cenaero is mainly active in the aerospace (in particular turbomachinery), manufacturing, process engineering, energy and building sectors.

## ADDED VALUE

Cenaero provides expertise for advanced (composite and metallic) structural design, manufacturing processes modeling (welding, machining and additive manufacturing), high resolution CFD for aeronautics (large eddy and direct numerical simulations), hypersonic flows and ablative materials, buildings and smart cities, design space exploration and optimization, thermo-fluid processes and systems modeling.

## RANGE OF PRODUCTS

Cenaero provides engineering services as well as software through its massively parallel multi-physics platform Argo, its manufacturing process simulation and crack propagation platform Morfeo and its design space exploration and optimization platform Minamo. Cenaero operates experimental facilities in composite manufacturing and prototyping as well as a supercomputing infrastructure with 14,000 cores.

## MAIN REFERENCES

Cenaero is a research partner of Safran since 2007.

## CERTIFICATION

Cenaero is certified against the EN 9100:2018 and ISO 9001:2015 standards.

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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.

## RANGE OF PRODUCTS/SERVICES

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, AEOLUS Aladin, etc. In aeronautics, we are in partnership with AIRBUS DS, SONACA, SABCA, Safran Group, etc.

## CERTIFICATION

CSL maintains an approved Quality Management System based on two types of requirements:

- Requirements from the European ISO system through the ISO 9000 series (ISO9001-2015) and Aeronautical standards EN9100-2018.
- Requirements from the European Space Agency and, consequently from all partners dealing with the Space area, through the Agency standards ECSS.Q.20.07A – "Quality assurance for test center"

CSL is certified by Bureau Veritas International following the European standard EN9100:2018, American Standard AS9100:d and Asian standard JISQ9100:2016. Those different standards are recognized by IAQG – International Aerospace Quality Group. This certificate is valid till 10 April 2022.

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## COMPANY BACKGROUND

For more than 30 years, Cevema is active on the market of industrial surface treatments. The expertise developed throughout the years, along with the dedication of the Cevema team, consisting entirely of professionals, are the right ingredients to obtain an end product that is impeccable.

## RANGE OF PRODUCTS

Anodizing type 1, 2, 3  
chemical conversion coatings  
surtec 650  
NDT  
zinc nickel  
painting  
passivation stainless steel  
...

Consulting and advice

In House laboratory, where we are able to perform:

- Salt Spray testing
- Hardness testing
- Roughness testing
- Taber-testing
- Layer thickness testing
- XRAY

## CERTIFICATION

EN9100  
NADCAP: Chemical Processing  
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|---|--|

## COMPANY BACKGROUND

Created in 2009, Citius Engineering is specialised in test solutions, automation and robotics. Its activities are focused on the development of industrial tools in the broadest sense: test equipment, means of production, robots, turnkey machines, customised studies, and industrial project management.

## ADDED VALUE

Over the years, Citius Engineering has acquired significant experience in the field of test solutions for industrial equipment or systems. These turnkey test solutions integrate the latest technology in Data Acquisition & Control Systems, ATE, instrumentation or mechanics. Often equipped with hundreds of measuring lines, these test solutions constitute efficient systems for industrial development and production programmes.

## 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 and data acquisition & control systems.

Advanced production systems: Citius develops turnkey solutions for industrial processes thanks to its skills in automation, robotics, vision and industry 4.0.

## MAIN REFERENCES

THALES ALENIA SPACE, SAFRAN AERO BOOSTER, SABCA, MECAR, AW EUROPE, EMERSON, THERMO FISHER

## CERTIFICATION

ISO 9001:2015

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## COMPANY BACKGROUND

Coexpair is a Belgian company active in the aeronautical sector since 2006. Our strategy is based on an original business model. It offers services to support its Customers in the development of new applications in composite materials. This includes the manufacture of first part prototypes (no serial production). Once the research is complete, Coexpair extends its offer to the assembly of production equipment needed for RTM industrialization.

## ADDED VALUE

The position of the office inside the workshop gives the engineers a great opportunity to combine development and hands-on trials. Moreover, the partnership with Radius Engineering (Salt Lake City, USA) ensures our Customers the same high quality and reliable equipment and services worldwide.

On a general way, Coexpair is supporting its Customers from the idea that sprouts in their design office up to the installation of their production RTM workshop.

## RANGE OF PRODUCTS

- Composite Production Workstation
- Composite Mold & Tools
- Composite Part & Process Development

## MAIN REFERENCES

Today Coexpair is a recognized partner of the largest OEM and Tier-1 suppliers in the sector. Several European companies have become regular customers, including Airbus and Safran groups. Our plant is a unique place in Europe to develop and to transfer advanced composite manufacturing technologies.

## CERTIFICATION

EN9100 certification

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## COMPANY BACKGROUND

Dedecker Precision Mechanics is specialised in automatic turning of metal and plastic parts; as well as the machining and grinding of precision parts according to drawings or models. We do also perform the heat treatment and surface treatment in-house.

Our focus on progress has spurred us to acquire the latest generation of CNC machines. Our flexibility allows us to create your parts in small, medium and large batches.

We are also able to perform all types of repair operations.

## ADDED VALUE

Dedecker Precision Mechanics is a company member of the familial GEIE Sub-Alliance specialised for more than 60 years in the industrial subcontracting of plastic and metallic parts. Please discover our activities on our web site: [www.sub-alliance.com](http://www.sub-alliance.com)

## RANGE OF PRODUCTS

- Bar turning
- Billet machining
- Cubic parts machining
- Grinding
- Surface treatment
- Heat treatment
- Mechanical assembly

## MAIN REFERENCES

Picanol – GIMA – Schneider – Hitachi – Grutti – Dana – CMI – Caterpillar.

## CERTIFICATION

ISO 9001

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## COMPANY BACKGROUND

DELTATEC is a high-tech design company, specialized in advanced hardware and software technologies with a strong focus on digital imaging applications, also embracing the recent Deep Learning/AI trend.

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

Space started in 2005 with developments of imaging payloads and related data processing, including "NewSpace" approach.

## ADDED VALUE

- A Belgian design house located in heart of Europe
- 30 years of experience and more than 500 projects in Industry, Aerospace, Vision and TV Broadcast
- A human-sized team of more than 45 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 including software

## MAIN REFERENCES

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

## CERTIFICATION

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 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 40 passionate people coming from various disciplines (mechanic, pneumatics, robotics, hydraulics, automation, IT, etc.)

Innovation: each machine we produce is designed with the right technology to ensure maximum cost effectiveness for our customers and to integrate industry 4.0 processes.

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, (amongst Eddy current and vision)

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, NTN-SNR, TAC, Dumoulin AERO...

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

## CERTIFICATION

VCA certificate

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## COMPANY BACKGROUND

In 2003, Dumoulin Aero, launched a program to manufacture titanium and other allied steel parts for aircrafts obtaining the EN 9100 Certification. Today, the company performs a broad range of turning-milling and milling operations mostly for connection parts between Slats and Slat-Tracks, Flaps and Flap-Tracks as well as Carriages.

## RANGE OF PRODUCTS

Bolts and pins

Links

Excentric Bolts and Bushes

## MAIN REFERENCES

Tier 2: Airbus and Embraer

Tier 1: Bombardier

ASCO, SONACA and BMT.

## CERTIFICATION

EN 9100

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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...

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 an 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.

Feronyl is part of the GEIE Sub-Alliance. 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](http://www.sub-alliance.com)

## 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 – Safran Aero Boosters – Safran Filtration Systems – Donaldson – Sonaca – Crouzet – LMB Aerospace – Esterline group.

## CERTIFICATION

ISO 9001 & EN 9100

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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 2,900 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.

## RANGE OF PRODUCTS

FN HERSTAL provides comprehensive airborne fixed-forward firing solutions and airborne crew served weapon solutions designed and developed around FN 7.62 and .50 cal machine guns.

## MAIN REFERENCES

Over 5,200 FN airborne weapon systems are deployed on a wide range of carriers across the world.

## CERTIFICATION

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 Industrialisation (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.

# GRIMONPREZ TRANSMISSION GEARS



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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 GEIE Sub-Alliance.

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](http://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

Caterpillar – Dana – Konecranes – Vandewiele – Liebherr – Skyclimber – Dangel.

## CERTIFICATION

ISO 9001

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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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## COMPANY BACKGROUND

I.Revitalise is the first B2B capacity sharing platform focused on high-tech and high-value machines, equipment, facilities and capabilities in the industry.

It is focused on three markets:

- Manufacturing
- Maintenance, Repair and Overhaul
- Research and Development

We provide easy access to high-tech for Renters and an extra revenue stream for Owners.

## ADDED VALUE

We connect companies and institutions that do not know each other yet, and we engineer the sharing of equipment and know-how between companies.

Range of products

Public Capacity Sharing Platform for companies and institutions that do not know each other yet.

Private Capacity Sharing Platform to facilitate internal sharing within a group of companies, a multinational with multiple sites, a business park, a large knowledge institution.

## REFERENCES

Our main references are Agfa-Labs, Spica (a Spin-Off from Barco in Electronics, Wiring and Electronical Assemblies), CZL Tilburg (Ultra High Speed Laser Cladding) and Strain2Data (Strain Gauge Data Acquisition). Other references are Erpa (Metal Working), Facim (Metal Working), Duralco (Surface Treatment), Bohez (Supplier of Mechatronics 0,1 to 350 Watt) and Tetravision (3D Precision Measurement).

## CERTIFICATION

We have 12 years of experience in military and civil aircraft MRO, and the successful achievement of a Lean Six Sigma project at Safran. We are proud of our partnerships with the Open Manufacturing Campus on the Philips lighting production site in Turnhout, Belgium, and with the Greenville Clean Technology Business Park in Houthalen, Belgium.



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## COMPANY BACKGROUND

Next-Door, Best-Cost, One-Stop Shop dedicated to Composite, Connectics and Mechatronics for Defense and Aerospace since 2006. Cost Effective Solutions tailored to each customer's specific needs, from build-to-print Series to complete project management.

Next-Door, Best-Cost, One-Stop Shop dedicated to Composite, Connectics and Mechatronics for Defense and Aerospace since 2006. Cost Effective Solutions tailored to each customer's specific needs, from build-to-print Series to complete project management. Our best cost approach will save you the pain to travel the world looking for low prices.

## ADDED VALUE

Competitiveness, Last generation tools & infrastructures, Project Management expertise, from R&T to Build-to-Print / to-Specs, Proximity, Flexibility... and Social Engagement

- Competitiveness
- Last generation tools & infrastructures
- Project Management expertise, from R&T to Build-to-Print / to-Specs,
- Proximity, Flexibility... and Social Engagement

## RANGE OF PRODUCTS

Connectics: design / development, industrialization, production - Mechatronics: design / development, industrialization, production / assembly - Composite: design / development, industrialization, manufacturing - Series production (Build-to-Specs)

- Connectics: design / development, industrialization, production
- Mechatronics: design / development, industrialization, production / assembly
- Composite: design / development, industrialization, manufacturing
- Series production (Build-to-Print / to-Specs)

## MAIN REFERENCES

THALES BELGIUM - CMI DEFENCE - FN HERSTAL -- SONACA AIRCRAFT -- THALES ALENIA SPACE - SAFRAN AERO BOOSTERS - GRADEL ...

## CERTIFICATION

EN9100:2018 - ISO9001:2018 - Vacuum and Autoclave Polymerization Process qualified by Airbus, Safran Aeroboosters and Sonaca.

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## COMPANY BACKGROUND

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

## ADDED VALUE

L&D is specialized in Precise machining (by waterjetcutting, milling, drilling) of composite materials, GRP materials, Kevlar, and all kind off metallic materials like Stainless Steel, Aluminum, Titanium, Inconel, Duplex, Brass, etc...

Our big Hybrid 5-axis machining center is Unique in Benelux, and offers you the possibility to machine your parts to completely finished products in 1 set up against economical better prices.

With the waterjet technology we have hardly any limitations in contour definition, type of materials and thicknesses!

No heat influence, No HAZ, No change in Material structure, No Fiber break out.

We offer engineering services, and quality control for aviation parts. We provide short lead times and offer solutions to reduce prices.

Reactivity, Performance, Quality and Confidentiality are Key Words for L&D.

For more than 25 years we machine several parts in Titanium, Carbonfiber, Aluminum etc... for aircraft industry.

## RANGE OF PRODUCTS

All kinds 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 9001:2016 / EN9100: 2018 / Sabre / several Tier1 specific certificates

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## COMPANY BACKGROUND

La Nitration Moderne (LNM) performs Non Destructive Testing, Electrochemical, Chemical and Thermochemical treatments of metals, Paint application and Identification.

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

EN9100

NADCAP: Chemical Processing and NDT (MPI + FPI)

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## COMPANY BACKGROUND

The airspace industry is experiencing rapid growth. The competitive environment requires continuous investments in innovative technologies. LESCOAV Aero is a trusted partner in protective solutions for special treatments and handling of aircraft part and components

## ADDED VALUE

Masking products are molded from silicone for faster installation and consistent quality results. Our tooling is designed with an exclusive « no metal contact » concept, which enables easy handling and transport of aircraft parts and components without risks of shock or damage

## RANGE OF PRODUCTS

Masking tools for thermal spray, HVOF, shot peening and sandblasting. Handling and transport tools with « no metal contact » concept and georeferenced tracking inside the plant or from site to site.

## MAIN REFERENCES

SAFRAN Group, ASCO, Sonaca, SABCA, BMT, Airbus Helicopter

## CERTIFICATION

EN 9001:2018 based on ISO 9001:2015

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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

## 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

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## COMPANY BACKGROUND

Materia Nova is a R&D center based on advanced and disruptive technologies in the field of sustainable materials, multifunctional surfaces, materials for energy and biotechnology.

## ADDED VALUE

Materia Nova offers partnerships with small, medium or large companies for research and/or development projects which are validated at industrial scale. Materia Nova also gives technical assistance to companies such as: upscaling, feasibility testing, life cycle assessment, material characterization, market research, state-of-the-art, technology watch and targeted consulting.

## RANGE OF PRODUCTS

R&D projects in the field of new materials, multifunctional surfaces, energy, biotechnology, bio-based solutions and recycling, upscaling on pilot or industrial equipment, characterization, testing, impact assessment of materials and bio-based molecules, life cycle analysis (LCA), theoretical and practical training on new developed technologies, market studies.

R&D research axes: white biotechnology, (bio)polymers and (bio)composites, sol-gel and wet coatings, metallization, plasma technologies, electrochemistry, corrosion, organic electronics, chemical sensors, life cycle thinking.

## CERTIFICATION

ISO 9001 & 14001

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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: 2015 and EN 9100: 2016. Accredited supplier for Aeronautics, Defence, 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: 2015 and EN 9100: 2016 towards highly qualified customers in Defence, 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

DEFENCE: FABRIQUE NATIONALE GROUPE –  
DIEHL – MECAR – NEXTER – RHEINMETALL

GAZ – CONNECTICS – AUTOMOTIVE - LIGHTING

## CERTIFICATION

Our company is certified according to ISO 9001: 2015 and EN 9100: 2016 standards.

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## COMPANY BACKGROUND

MOCKEL is active in the field of high precision mechanics for the defence, aeronautics and space industries. The company has the state-of-the-art machinery, the technical know-how and the necessary experience to handle all aspects of production from start to finish. Be it large or small parts, simple or sophisticated components, we translate the ideas of our customers into technical excellence.

## ADDED VALUE

“We deliver more than parts”: MOCKEL has developed a wide range of services in order to support its customers from the conception until the integration of their parts: Project management, supply chain management, assembly of parts, FAI documentation, ...

## RANGE OF PRODUCTS

MOCKEL manufactures serial mechanical parts or assemblies from 5 to 10 000 units in all possible metal alloys. Through its partners, MOCKEL is also able to realise any kind of heat / surface treatments or paint.

## MAIN REFERENCES

Safran Aero booster, SABCA, ASCO, TAC, Thales Alenia Space, FN Herstal, CMI Defence

## CERTIFICATION

ISO 9001:2015

EN 9100:2018



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## COMPANY BACKGROUND

Newtec Cy n.v. is a global industry leader, shaping the future of satellite communications. Offering state-of-the-art commercial off-the-shelf (COTS) satellite communications technology and solutions for the commercial, humanitarian and government market. Through its lifespan of more than 30 years, Newtec can reflect on a track record of installations worldwide in first responder, humanitarian, development and social inclusion networks and has built a firm reputation on efficiency, reliability and innovation in the satellite market.

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## COMPANY BACKGROUND

Created in 2016, NOLISYS is a start-up company active in the field of nonlinear vibrations. It is the result of more than 15 years of research carried at the University of Liège, in Belgium. We provide consulting and software solutions to handle nonlinear vibrations, which are frequent occurrences in engineering structures due to the presence of elastomeric materials, gaps, gears, friction, bolted connections, etc.

## ADDED VALUE

Building on our expertise for experimental and computational studies, engineers can apprehend vibration analysis confidently and move forward in the design cycle of their prototype without puzzling hurdles and without compromise on the structure's performance. Our technologies power test campaigns and simulations with applications in aerospace, automotive and mechanical engineering.

## RANGE OF PRODUCTS

Our offering consists in:

- The NI2D® software, to analyze nonlinear experimental data and perform advanced simulations.
- Consulting services to support our partners in designing and certifying their structures.
- Trainings and workshops.

## MAIN REFERENCES

Airbus, Airbus Defence and Space, ArianeGroup, Atlas Copco, Pratt & Whitney Canada, Safran Aero Boosters, Sandia National Lab, Sonaca, US Air Force.

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## COMPANY BACKGROUND

Solving today's real world 'flow' problems requires fast and reliable solutions. NUMECA addresses these challenges by creating grid generation and CFD tools dedicated to the aerospace industry.

## ADDED VALUE

Our aerospace flow analyses include: Passenger Aircraft, Full Aircraft Configuration, Transonic, Supersonic, and Hypersonic Flow, Aircraft Cabin, Wing-box Fuel Tank and High-Lift Device.

## RANGE OF PRODUCTS

Aerodynamic simulation from low-speed to supersonic aircraft with high-fidelity turbulence and boundary layer modelling; Aircraft engine & propeller noise predictions; Parametric & free-form

shape optimization of turbomachinery blades, wing profiles, fuselage ; Fluid-Structure Interactions; Heating, Ventilation, & Air Conditioning analysis.

## MAIN REFERENCES

Find out how power users such as Boom Supersonic, Masten Space Systems and Pipistrel use NUMECA's technology to solve their toughest challenges quicker.

## CERTIFICATION

AS/EN 9100 Certification for the Aerospace Industry.

# OPTIMAL AIRCRAFT DESIGN



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## COMPANY BACKGROUND

OAD is specialized in the conceptual-preliminary design of aeronautical applications/software. OAD has developed 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, universities and individuals worldwide. OAD has already taken part in the design of different airplanes, from radio controlled UAVs 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 particular needs (solar airplane, turbo-jet/turbofan power plant, 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. We also use the software in the frame of our own projects. The most famous customers are Airbus, Comac for the industrial side, and the MIT for the academic side. All the Belgian universities use the software to train students.

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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

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

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## COMPANY BACKGROUND

Our company has the technical background of a car paint shop and increased its capabilities to answer to the specific needs of the industry. We specialized in complex paint specifications thanks to our high standards of aesthetical characteristics and our best technics of painting.

## ADDED VALUE

Our quality culture coming from the car paint shop industry, where every aesthetical detail matters, gave us a competitive advantage in industrial paintings for high-demanding industries such as defence, aeronautics and space. We offer quick solutions to your needs in coatings and paintings.

## RANGE OF PRODUCTS

We provide surface treatments and finishes. We apply every sprayable product (paints, varnishes, lubricants, etc.) following the most complex specifications. We work from prototype to small to medium series. The range of parts we can work on starts at a few grams and goes up to three tons.

## MAIN REFERENCES

Sonaca Aircraft, CMI Defence, Thales Belgium, FN Herstal, AMOS, Centre Spatial de Liège

## CERTIFICATION

ISO 9001:2018  
EN 9100: 2018

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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 is ready for use: machined and coated parts are ready for the assembly on production lines.

## RANGE OF PRODUCTS

Technical steel and stainless steel components for:

- Aircraft structures, door locking systems, landing gears, engines ...
- Light and heavy weapons, armoured 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

AIRBUS Group, SAFRAN Group, and their level 1 subcontractors.

## CERTIFICATION

AS/EN9100 + Nadcap (NDT)

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> Frank **PREUD'HOMME**, Business Development & Sales Director

## COMPANY BACKGROUND

Through its longstanding ESA and defence heritage, QinetiQ offers the design, build, launch and operation of complex space infrastructure, ground stations, subsystems and satellites. The PROBA remote sensing satellites are designed and built at our facilities, where today we deliver entire satellites and major satellite equipment including on-board computers, remote terminal units, mass memories, space mechanisms (including spacecraft docking), advanced electric propulsion systems and radio transceivers to enable the most demanding space missions.

QinetiQ supports entrepreneurs to quickly execute their business plans on orbit, by developing "best fit" cost-efficient small satellite solutions with a guaranteed lifetime.

QinetiQ's capabilities include the provision of secured satellite communications and operations.

QinetiQ offers as a product affordable high performance sovereign satellite intelligence systems for commercial and reconnaissance applications, based on our heritage design.

With our IBDM technology we can provide docking solutions to support your cargo and crew missions in LEO and beyond.

Our proven water processing experience helps you improve the efficiency of your recycling or ISRU systems.



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> Philippe **HAUZEUR** et Bernard **HAUZEUR**, Administrateurs-Délégués

## COMPANY BACKGROUND

ROVI-TECH has 25 years of experience in the development of industrial vision control solutions and measuring instruments to offer automated conformity, metrology, appearance, shape, character reading and code control equipment, sorting and/or quality.

ROVI-TECH has the required skills thanks to a team of experts in industrial vision complemented by computer science, robotics, mechanics and electronics. We take charge of your project at the international level, from design to integration.

## ADDED VALUE

Experts in Industrial Vision. Our services include consulting, auditing, feasibility study in our optical laboratory, prototyping, integration of vision solutions on the production line or realization of autonomous special machines.

ROVI-TECH masters its developments which integrate many techniques:

- 1D, 2D, 3D monochrome & color cameras, Stereo Vision, Laser Triangulation, Laser Telemetry, Infrared Thermography, X-Ray,

- Definition and integration of adapted lighting,
- Neural classification, artificial intelligence, Deep Learning, image processing (based on vectorization or thresholds, ...),
- With its know-how and the technologies of future industry 4.0, ROVI-TECH will follow you step by step to offer you the most adapted solutions in accordance with your needs.

## 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,...

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## COMPANY BACKGROUND

Part of Dassault Group and soon celebrating its first century in aerospace, SABCA, a Belgian company, has within his group 1000 highly motivated employees mastering all skills from design, manufacturing, qualification and support. The SABCA group has four plants located in Belgium and Morocco.

## ADDED VALUE

SUPPLYING customers worldwide with solutions based on highly engineered structures and actuated mechanisms.

PROVIDING lifecycle management solutions, including upgrades and MRO&U.

CREATING highly skilled jobs at the crossroads of Europe through the respect of customer culture around the globe.

BEING profitable in order to create value for our shareholders.

## RANGE OF PRODUCTS

- INTEGRATED ASSEMBLIES - Design and Build and Build to Print;
- ACTUATION SYSTEMS – Thrust Vector Control – Aerodynamic Surface Control;
- MAINTENANCE, REPAIR, OVERHAUL & UPGRADES – Sustainment Solutions Provider;
- UNMANNED AERIAL SYSTEMS – Integrated Services – Covering the Entire Ecosystem.

## MAIN REFERENCES

Airbus, Ariane Group, Dassault, GKN Aerospace/Fokker, ESA, Avio, Europropulsion, Gulfstream, Lockheed Martin, Safran Landing Systems, MT Aerospace, Simair, Thales Alenia Space, Belgian Defence, US Air Force, Royal Netherlands Air Force, Royal Danish Air Force,...

## CERTIFICATION

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, ND Testing...).

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## COMPANY BACKGROUND

Sabca Limburg, part of the SABCA group, established in 1990 and located in the north of Belgium, serves the aerospace industry with high-value, structural, fibre/polymer, mixed composite and metallic aerospace components.

## ADDED VALUE

Through state of the art design capabilities and manufacturing equipment, Sabca Limburg propose cost effective conversion of composite materials into high performance, high-value, ready-to-install integrated components with an uncompromised quality and just-in-time delivery.

## RANGE OF PRODUCTS

Complex and Large structures - Integrated Structures;

Horizontal Tail Planes - Vertical Tail Plane Stringers – Ribs;

Fairings - Carbon Fiber-reinforced Polymers for Spacecraft and Launch Vehicle Structures.

## MAIN REFERENCES

Dassault – Fokker (GKN) – Airbus – Gulfstream.

## CERTIFICATION

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, ND Testing...).

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> Stephane **BURTON**, CEO  
> Luc **VAN de WINCKEL**, Head of Sales and Strategy Military

## COMPANY BACKGROUND

Sabena Aerospace Engineering is a leading Belgian-owned independent and international aviation solutions provider for civil and military operators.

We are the second oldest Lockheed Martin C-130H service center and have our home base at Brussels Airport, we also have an African network supporting civil operators and are expanding continuously supporting our key customers where they need it.

For Boeing, Airbus (Civil) and AWACS, KC135, C-130 & NH90 (Military) we offer Airframe and Engineering services as well as component repairs in the domain of Flight Controls, Nacelles, Wheels and Brakes, LSE,... We have on site NDT and tubing welding and composite repair capabilities and we are specialized in the manufacturing of me-devac platforms on a Roll-on roll-off palette and provide worldwide consultancy services.

We are looking for contacts with Airlines/MRO/OEM to expand our network and expertise.

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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 also holds 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 1,800 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 15% of its revenue into preparing for the future. The company invests this money into fine-tuning its low-pressure compressors and equipment for four recent engines programs (LEAP, Silvercrest, GE Passport and GE9X), setting up modern and efficient industrial equipment and researching advanced technology for future engine architectures.

## 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

## CERTIFICATION

- AS/EN/JISQ 9100
- EASA Part 21
- EASA Part 145
- TCAC
- 14 CFR Part 145
- NADCAP (special process)

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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

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

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## COMPANY BACKGROUND

Established in 1985, SENSY LOAD CELLS is a Belgian manufacturer of both standard and custom-made load cells, load pins, force and torque transducers which are exported in more than 60 countries. These sensors are intended for systems with load limitation, effort, force, torque and level measurement, and for all industrial sectors, including the most demanding ones, such as the Oil & Gas and aerospace.

## ADDED VALUE

- Ability to design custom-made sensors that meet all the requirements of our customers
- 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.

## RANGE OF PRODUCTS

We are used to working for the aerospace and space sectors. Here are some applications examples of our standard and custom-made 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 for some helicopters, airplanes and UAV's manufacturers. Some of our load cells are incorporated in VEGA and ARIANE rockets.

## CERTIFICATION

SENSY's quality system is ISO 9001:2015 certified. Our procedures and processes are in accordance with the EN9100 quality standards. We are also ATEX, IECEx and CSA certified in order to produce and sell intrinsic safety transducers all over the world.

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## COMPANY BACKGROUND

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Sima is a leading organization at the international level, for painting and drying booths with industrial applications and body shops, having in its range: painting booths and painting lines, painting workshops, ovens, preparation areas and fully equipped body shops.

## RANGE OF PRODUCTS

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Painting booths and painting lines;  
Painting workshops;  
Ovens;  
Preparation areas and fully equipped body shops.

## MAIN REFERENCES

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Air France – Defensie Nederland



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## COMPANY BACKGROUND

Sobelcomp is a Belgium industrial sub-contractor founded in 2006. We study and manufacture composite material parts for clients. Currently we employs more than 30 people with a turnover of €4.000.000,00

## ADDED VALUE

Engineering office: Study and design of parts, mold and tooling; Calculation by finite elements:

Qualification of processes and materials

Production: Capacity from 10 to 2000 parts per year; Kuka machining robot for finishing work; Paint booth measuring 6 x 4 x 3.5m; 3D inspection Faro Arm.

## RANGE OF PRODUCTS

Air intake sleeves and cowlings for plane engines used when the engines are undergoing maintenance on test beds; specific tools which are used to create the leading edges of the wings of planes; cowlings which are mounted onto armed stations operated remotely.

## MAIN REFERENCES

Safran Aero Booster, Sonaca, FN Herstal, CMI Defence, Thales Group

## CERTIFICATION

Quality management system certified EN 9100: 2016 and ISO 9001: 2015

Qualify workers certified EN 4179: 2017 for non-destructive testing (NDT) by infrared testing



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## COMPANY BACKGROUND

Sonaca Group is a global Belgian-based aerospace company. Sonaca, along with LMI Aerospace and its other subsidiaries offer capabilities in aerospace Design & Build and Build-to-Print as well as for innovation, defense, space and engineering services.

We are active in the development, manufacturing and assembly of advanced aerospace structures and complex fuselages for civil, military and aerospace applications. In addition, Sonaca Group offers both metallic and composite manufacturing capabilities, in particular for composite out-of-autoclave technologies for which the group is a world leader.

The group is a global leader in wing leading edges and movables serving all aircraft manufacturers. It has a worldwide coverage, with facilities in Asia, Europe, North-America, South-America and employs over 4400 people of which more than 300 engineers.

Our experience, expertise and strong quality track record enable us to maintain long-lasting partnership-like development and production relations with our customers.

## ADDED VALUE

Outstanding reliability as « best in class » for quality and delivery performances. Flexibility and short time-to-market through one-stop shops and integrated teams providing responsive solutions. Best

Global price through use of latest technologies, low cost manufacturing facilities and worldwide engineering offices. Close to customers from early design stages to in-service support focusing on reducing overall costs.

## RANGE OF PRODUCTS

- Complete work packages for wing movables and complex fuselages design & build
- Build to print elementary parts or packages in metallic or composite ranging from small machining to large sheet forming, as well as from composite panels to wing skins.

## MAIN REFERENCES

- Airbus: the last 4 years as best supplier in Aerospace on Delivery Performance and Quality (SQIP).
- Boeing: 2017 for Performance Excellence silver
- Embraer: Best Supplier for multiple years for offering Superior Customer Satisfaction,...

## CERTIFICATION

- EN/AS/NBR: EN9100 :2018 ; ISO14001 :2015 ; AS9100D ; ISO17025 :2005
- Airworthiness Regulations: EASA Part 21G ; Part 145 ; FAA 14CFR Part145 ; RAC 561
- NADCAP: Heat Treatment, Chemical Processing, NDT, Surface enhancement, ...

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> Thierry **DU PRÉ-WERSON**, Managing Director  
> Michel **GRUSLIN**, Marketing & Sales Manager  
> 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 design, development, integration, validation of IT space systems and geospatial information systems as well as the mission definition and analysis of Earth observation mini-satellites.

## ADDED VALUE

Being able to offer expertise in many aspects of the space business, from space infrastructures to space applications, is a real strength for SPACEBEL. Owner of 450m<sup>2</sup> clean rooms ranging from ISO class 5 to ISO class 7, the company has the capacity 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.

## RANGE OF PRODUCTS

- 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
- Earth observation mini-satellite solutions

## 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, HERA,...

## CERTIFICATION

ISO 9001 – 2015

# TECHNICAL AIRBORNE COMPONENTS



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## COMPANY BACKGROUND

TAC designs, develops and manufactures rods, connected mechanical parts and components for aeronautical applications. TAC had been a major supplier to the aerospace industry for the last 40 years.

## ADDED VALUE

TAC has an extended experience of the rod design and manufacturing. We can address a wide range of application like wing and flight control, structure, doors, hold open rods or special application in various materials as aluminium, CRESS, titanium, Inconel or composites. We are a dependable supplier and can testify of proven records with major air framers and sub-tiers.

## RANGE OF PRODUCTS

Standard rods, adjustable rods, hold open rods (telescopic or foldable), critical monobloc rods.

Various rod ends: clevis, ball bearings, with bushes.

## MAIN REFERENCES

Air framers: Airbus A320, A330, A350, A380, ATR 42/72, Leonardo helicopters, Airbus Helicopters, Bombardier, Dassault, Pilatus, Embraer.

Sub-Tiers: Latécoère, Daher, PFW, Stelia, GKN, Fokker, Lisi, etc.

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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 GEIE Sub-Alliance.

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](http://www.sub-alliance.com)

## RANGE OF PRODUCTS

- High-speed UGV/CNC milling machines with up to 5 simultaneous axes
- SNC Turning
- CNC Grinding
- CNC Electrical discharge machining by wire-cut or die-sink
- Assembly & welding mechanical subassemblies
- Complete supply of straight & spiral & hypoidal bevel gears
- Dye penetrant inspection
- Maintenance & repair of plastic injection tools
- 3D Printing

## MAIN REFERENCES

CMI – Vesuvius – Sensy – Pharmatec – Charlotte  
Manutention – Pronal – Tremec.

## CERTIFICATION

ISO 9001 & EN 9100

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## COMPANY BACKGROUND

Thales Alenia Space - a joint venture between Thales (67%) and Leonardo (33%) - is present in Belgium with three sites in Charleroi, Hasselt and Leuven. In Belgium, Thales Alenia Space is a key Electronics Competence Center of Thales Alenia Space and a world leader in electrical energy on-board satellites and European launchers.

## ADDED VALUE

Thales Alenia Space in Belgium is a world leader in power conditioning and distribution for satellites, a reference for the power supply of plasmic propulsion thrusters and travelling wave tube amplifiers. With the creation of its new site in Hasselt, Thales Alenia Space will be the first automated factory of space PhotoVoltaic Assemblies (PVA) in Europe

As for its experience in space vehicles, Thales Alenia Space has been contributing to the European launchers industry for more than 40 years as a key supplier of many electronic systems developed in Belgium for the entire Ariane family (Ariane 1 to Ariane 6), Vega and the Soyuz launched from French Guiana.

## 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, Turkmenalek, W2A, W6A, W7, Koresat, Konnect VHTS, Spacebus Neo, Electra, ...

Observation, Scientific and Navigation Satellites:

Exomars 2020, Galileo, Giove-B, , Herschel-Planck, Huygens, Meteosat, Metop, Myriad, Pléiades-HR, Sentinel, SmallSat, Smart 1, Soho, Spirale, Spot, Stereo, XMM, New Horizons, Euclid, Copernicus, CSO, Swot, ...

Launchers and Space Transports:

ARD, Ariane 5 & 6, ATV, Columbus, Expert, Soyuz, Vega, ...

## CERTIFICATION

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

# THALES BELGIUM

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## COMPANY BACKGROUND

In Belgium, Thales is serving the Belgian defence, security, safety and transportation markets as well as worldwide markets for more than 50 years. Today Thales employs in Belgium more than 200 people at 3 sites: Herstal, Tubize and Genk. Thales has developed close ties with Belgian industry over many years and has worked hand in hand with universities and research institutes to develop innovative products for its customers.

## ADDED VALUE

- Supplier of tactical communication systems and sensors for Air, Land and Naval sectors;
- Partner of NATO's program to upgrade its AWACS Airborne Warning and Control System;
- Prime contractor and partner for C4I system integration;
- Unique company able of offering and mastering the whole air-to-ground rocket system;
- Mastering following technologies: propulsion, pyrotechnics, mechanics, electronics, ballistics, guidance;
- Unique CyberLab platform to prepare companies for the most dangerous cyber-attacks.

## RANGE OF PRODUCTS

- 2.75"/70 mm air-to-ground rocket system for aircraft and helicopters;
- Tactical communication systems and a variety of sensors for all platforms;
- Modernising the communications systems as a Tier 1 supplier to aircraft manufacturers;
- Cryptographic and cyber security solution to protect on-board data;
- Digitalisation of aircraft operations based on Electronic Flight Bag (EFB) solutions;
- Trainings, Crisis management exercises and Architecture validation tests for Cyber protection.

## MAIN REFERENCES

- Customers & partners: NATO / Belgian Defence, Luxembourg Army, Boeing, Raytheon, Northrop Grumman, Lockheed Martin, Thales Avionics, Thales Communications & Services, Astrid, Airbus, STIB, Eurocontrol;
- OEM: Airbus Helicopters, Hindustan Aeronautics Limited, Leonardo Helicopters, BAE Systems, Denel;
- Rocket systems have been adopted by 55 countries and 70 armies worldwide.

## CERTIFICATION

Thales Belgium is certified according to ISO 9001:2015 and qualified supplier by various helicopter and aircraft OEM's.

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## COMPANY BACKGROUND

(UN)MANNED is an independent aerospace SME from Belgium specialized in DO-178C and DO-254 certifiable avionics systems development. (UN)MANNED provides a complete avionics platform including integrated pre-certified hardware and software, for both manned aircraft and large remotely piloted unmanned aircraft.

## ADDED VALUE

(UN)MANNED core technology is based on automating the DO-178C software certification process for avionics, thereby significantly reducing the risk, timeline and budget linked to traditional avionics development by up to 80%. The speed of development and reduced risk and cost using (UN)MANNED's Sol for custom avionics development, allow manufacturers of aircraft, rotorcraft and UAVs to customize their avionics instruments at COTS level budgets, even for small production series. Sol avionics system is being extended to provide image processing and artificial intelligence capabilities on certifiable avionics platforms.

(UN)MANNED's product "Sol" AUTOMATES DO-178C. Sol's automation is validated by EASA, CAAI and FAA, and used in major aerospace programs. With our patented technology, we can execute successful custom avionics programs up to DO-178C

DAL A, with unprecedented timeframes and budgets. High level requirements are written with our language "Sol" are translated and run on a DO-254 certified Sol target computer platform, automatically have DO-178C certification evidence provided by (UN)MANNED.

## MAIN REFERENCES

Sol has been successfully used in development projects covering both manned and unmanned aerospace:

- Flight deck avionics
- Primary Flight Display (PFD) including synthetic Vision (SVS),
- Navigation and mission management
- Vehicle management (EICAS/EFIS, Weight & Balance Computer)
- Other custom instruments
- UAV ground control stations
- UAV Waypoint based flight management
- Onboard avionic controllers to DAL A level
- Simulator and pilot training solutions
- Fully integrated flight deck avionics

## CERTIFICATIONS

- EN 9100
- ISO 14001



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> Ronny **VANDEREYDT**, CEO

## COMPANY BACKGROUND

UPM Tec is a division of Maex Precision Production NV and specializes in machining large, complex parts (5 axis) for aerospace, space and other industries.

Maex Precision Production specializes in machining parts for all kinds of industry :

- Automotive: high volume, worldwide
- Defense/energy :
- Machine building : single parts to small or high volumes (high added value)
- Oil & gas : small batches with high demands, high complexity, worldwide.

## ADDED VALUE

As a group we have more than 50 years of experience in complex machining – turning and milling.

All machining technologies are available . All materials can be machined

- mild steel
- difficult steels such as inconell, duplex, titanium
- also all kinds of composites and fibre reinforced plastics

Furthermore we assist our client in designing the parts, co-engineering focussed on quality, make-ability and cost.

## MACHINECAPACITY

- Machines focused on high volume production (25000-millions)- multispindels
- CNC lathes with milling capability - 4-7 axis
- CNC turn-milling - 5-10 axis
- CNC milling - 5 axis
- High precision machining - capacity weekly 3000 h

## RANGE OF PRODUCTS

Our products are complex : high volumes (millions) at 0 PPM, high tolerances, difficult materials and full 3D shapes.

## CERTIFICATION

Certified : EN 9100

Certified : ISO 9001

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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 industry and universities.

## ADDED VALUE

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

## RANGE OF PRODUCTS

Full range of services in mechanical vibrations:

- Numerical Simulation: fatigue, rotor dynamics, model correlation;
- Vibration Measurements: modal analysis, rotating machinery;

- Shaker and Environmental Testing: qualification and certification, high cycle fatigue testing, specific testing methods dedicated to aeronautics;
- Development of tailor-made acquisition and monitoring solutions for aero-engine test rigs.

## MAIN REFERENCES

Safran / Rolls-Royce / Thales / ArianeGroup / Sonaca / SABCA

## CERTIFICATION

ISO 9001:2015

ISO 17025 (ongoing)

Safran accreditation

National Instrument Alliance Partner

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## RANGE OF PRODUCTS

Compression, extension, torsion, double torsion springs. Bended wire. Induction coils. Leaf springs and stamped parts. Fragmentation body for grenade, mortar and rockets. Assembly of metal parts and plastic parts. Welding TIG-MIG-Laser.

## MAIN REFERENCES

Sonaca-Sabca-AVA-Thalès-EADS-Embraer-ELEB-Asco

## CERTIFICATION

EN9100-IATF16949-ISO26000-ISO9001

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## COMPANY BACKGROUND

VITO (Flemish Institute for Technological Research) is a leading European independent research and consultancy centre focusing 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

ISO 9001, ISO 14001, ISO 45001

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- > Riccardo **GRAZI**, President and CEO
- > Federico **ROSSI**, Vice-president and CEO
- > Stefano **BENSO**, Vice-president and CEO

## COMPANY BACKGROUND

On January 31st, LEONARDO has completed the acquisition of Vitrociset. Vitrociset Belgium, which is part of Vitrociset Group, is a leading supplier of engineering and operations support services to the European Space Agency, the EU Commission and prime industries in the context of space programs.

In addition, we have competence and experience of delivery of turn key solutions in the domains of space mission control systems, integrated logistics support, spacecraft testing and space-based value added applications.

## ADDED VALUE

Vitrociset Belgium added value arises from the utilization and integration of different technologies in the context of highly innovative systems and services for its reference customers. The company is also active in the implementation of new technologies in the domain of satellite ground support systems of the future, integrated logistics support and satellite navigation-based applications and services.

## RANGE OF PRODUCTS

Engineering and operation support services provided by Vitrociset Belgium are ruled by the highest quality standards and severe SLA-based performance obligations. Solutions/products developed by Vitrociset Belgium include integrated logistic support tools, mobile satellite ground control systems, satellite mission control software, web and mobile based location-based applications, special Checkout Equipment (SCOE).

## MAIN REFERENCES

Since 2010 Vitrociset Belgium is part of the core industrial team responsible for Galileo operations. In 2018 Vitrociset Belgium has won rewards as best ESA engineering services supplier in 8 different domains.

## CERTIFICATION

Certified ISO 9001:2015 since October 2018.

Previously certified ISO 9001:2008 since 2011.

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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.

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## COMPANY BACKGROUND

Created in 1987 from the Aeronautics Training Centre, the WAN was born in 1999 from the common desire of Walloon industrialists and political authorities to have an efficient training organisation. Its essential mission is to network all the resources of the aeronautics world.

## ADDED VALUE

To carry out its mission, the WAN relies on various partners, including various competence centres, aeronautical schools, airlines (Brussels Airlines, TUI, Thomas Cook, ...), Defence (AIR Component), and the players in the Walloon aeronautics industry grouped within the EWA (Walloon Aeronautics Companies, SONACA, SABCA, SAFRAN AERO BOOSTER, etc.) and members of SKYWIN (Competitiveness Cluster for the aeronautics and space sector).

## MAIN REFERENCES

Proof of this interest on the part of the industry is the current Chairman of Sonaca, Pierre Sonveaux, who also chairs the WAN Board of Directors. Close collaboration is also maintained with the Haute-École Condorcet de Charleroi and the University of Liège.

## CERTIFICATION

The training courses we offer comply with the regulations in force in the sector.

- EASA (European Aviation Safety Agency)
- Approved by the Belgian DGTA (Direction Générale du Transport Aérien).
- Non-destructive testing complies with the EN4179
- IATA (International Air Transport Association).

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