

*BELGIAN*



*AEROSPACE*

**PARIS AIR SHOW 2023**

**LE BOURGET → HALL 2b**

**19/06/2023 → 25/06/2023**



# PARIS AIR SHOW 2023

LE BOURGET → HALL 2b

19/06/2023 → 25/06/2023



# WALLONIA EXPORT- INVESTMENT AGENCY

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- › Mr Michel **KEMPENEERS**, Director General of International Affairs
- › Mrs Sandrine **WUIOT**, Director Fairs & Events
- › Mrs Martine **LECLERCQ**, Economic and Commercial Counsellor
- › Mr Jean-Pierre **CHISOGNE**, Senior Aerospace Specialist

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

Through a personalized, innovative, and sustainable approach, AWEX supports Walloon companies - regardless of their size, sector, or target market - in every step of their international endeavors. This includes exports, technological partnerships, and development abroad.

The agency's vast network of connections ensures the best advisors are always by your side. Our local anchors and agents abroad are capable of providing unparalleled insight to take your company to the next level. In addition, our connections will help establish your business in the global marketplace and promote it throughout the world. Training, incentives, and international financing are also available.



Wallonia.be

EXPORT  
INVESTMENT

AWEX is also committed to strengthening Wallonia's position as the premier gateway for international investors seeking success in the heart of Europe. We work closely with them to inform, convince, and advise in every stage of their development.

Feel free to get in touch with one of our local or international agents via our websites listed above.

In our network of more than 400 employees in nearly 100 countries around the world, there is always someone ready and willing to support you in your approach.

# FLANDERS INVESTMENT AND TRADE



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Flanders Investment & Trade 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 to establish contact with the Flemish companies you are looking for.

This includes not only products or services you may be sourcing, but also various types of business relationships, from joint ventures to technology transfers.

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

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

We have just that for you. Do visit our website and discover our worldwide network. With almost 100 offices we are bound to be conveniently located near you, wherever you are.

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- › Agnès **GRANDJEAN**, Deputy Managing Director: International
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- › Thierry **CHANTRAINE** Deputy Managing Director, Innovation Projects & Training
- › Anthony **BIEVELEZ**, Project Manager
- › Stéphane **GUALANDRIS**, Project Manager
- › Pierre-Jean **FONDU**, Expert
- › Emilie **HILT**, Communication & Officer Manager

Skywin is the aerospace cluster of Wallonia (Belgium). It is an association of companies, research organisations and training centres engaged in public-private partnerships and in the implementation of innovative collaborative projects.

The cluster is structured around:

- 4 **economic sectors**: Aeronautics, Space, Drones and Defense,
- 5 **new technology areas** (DAS for “Domaines d’Actions Stratégiques”):
  - Structures, propulsion and flying subsystems
  - Innovative materials and processes
  - On-board and communicating systems
  - Data economics, artificial intelligence
  - Simulation, modelling and test facilities
- 5 **missions**
  - Support for the regional strategy
  - Innovation
  - Economic growth
  - Talent development
  - Internationalisation

End 2022 Skywin has 147 members among which:

- 118 Companies: SMEs (100) and large companies (18);
- 23 Research operators;
- 2 Training centres;
- 4 Other bodies (agency, association, ...).

Since 2007, Skywin labelled 95 projects for a global budget 287 million €

Turnover of the Walloon aerospace sector: 2 billion €

Employment figures: 7,500 direct jobs

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- Trudo **MOTMANS**, Chairman Committee Agoria-flag
- Bart **JORISSEN**, Business Group Leader Flemish Aerospace Group  
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## Agoria-FLAG unites companies active in the aerospace market

It is our aim to support the development of aerospace and related technologies and to improve the visibility of the Flemish aerospace globally to achieve a growing market share.

We cater for our members' interest on a political level; facilitate networking between our members; develop business opportunities by organizing at major business events; and aim for working within a well-functioning triple helix structure.

Agoria-FLAG supports the aerospace industry with:

- Networking between our members
- Development of business perspectives by organizing business events
- Enabling market access & introductions
- Strategic information about growth opportunities
- Advice & guidance about subsidies and financing
- Know-how about trends, industry expertise, innovation & development
- Development and realization of the aerospace technology roadmap

Aerospace is at the threshold of a new era driven by sustainability (European Green Deal) and by adding the third dimension to “urban mobility” (urban air mobility/ urban air systems).

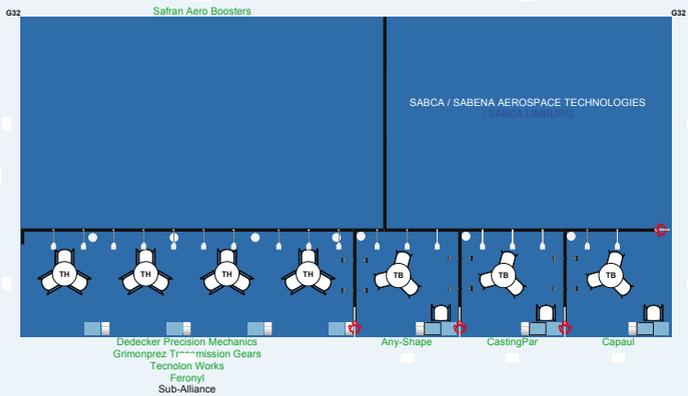
Depending on the segment, the growth over the next few decades will be fueled by passenger growth and supported by new technology developments. The major OEM's will adapt by building the necessary know-how, either by acquisitions, strategic partnerships and/or research and development.

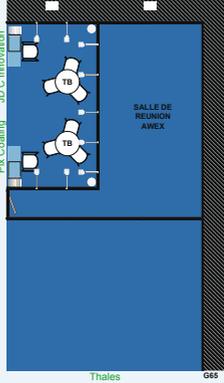
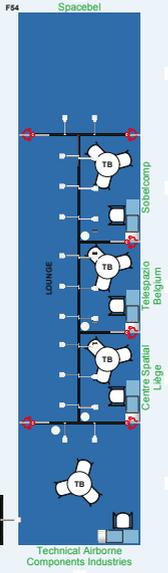
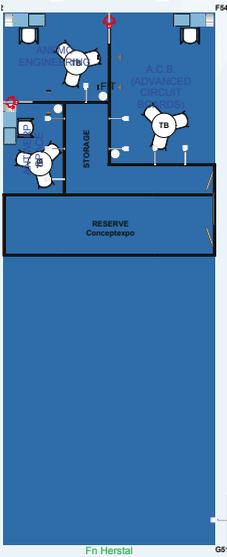
The Flemish aerospace industry boasts a broad range of technologies and services well suited to benefit of these upcoming changes. Both our SME's and multinationals have, or can develop, the innovative know-how in key areas like structures, systems, propulsion and airport & ground support ... to gain and strengthen their place in supply chains. Already today our members supply to OEM's worldwide.

# EXHIBITORS

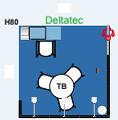
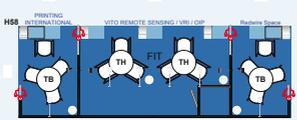
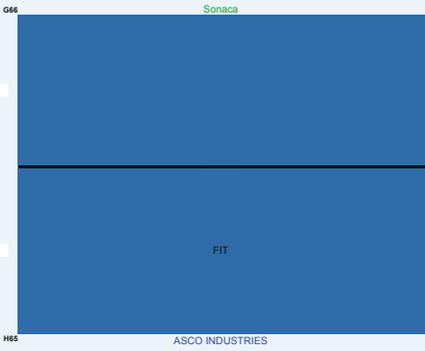
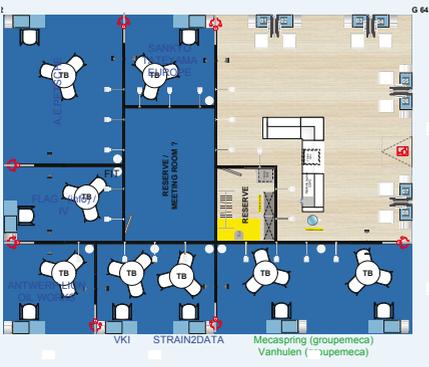
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# PLAN





- OPEN SPACE AWEX**
- 01- Amos
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  - 03- Cenaero
  - 04- Aerospacelab
  - 05- Coexpair
  - 06- Machinesight
  - 07- Sichem
  - 08- Patria Belgium Engine Center



# A.E. PETSCHÉ

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## COMPANY BACKGROUND

A.E. Petsche is a global stocking distributor of interconnect products for aerospace, defense & rolling stock. We support the world's largest harness-builders & operators on the market, through tailor-made solutions.

## ADDED VALUE

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.

## RANGE OF PRODUCTS

- Wire & Cable
- Connectors
- Harness Protection
- RF Products

## CERTIFICATION

AS9120:2016, AS9100:2016 and ISO 9001:2015

# AEROSPACELAB

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## COMPANY BACKGROUND

Since its creation in 2018, Aerospacelab has experienced rapid growth with today 160 employees, 60 million funds raised, 10 million contracts signed in 2022, and two satellite manufacturing plants, including the one in Charleroi which will open in 2025 (500 satellites manufactured per year).

## ADDED VALUE

Reliable source of satellite imagery, accelerated delivery time and preferential pricing: Leveraging proprietary 50cm resolution and 2.5m resolution multispectral optical constellations, Aerospacelab does not rely on external sources of satellite imagery. Downstream end users benefit from upstream cost optimization.

## RANGE OF PRODUCTS

- Small satellites (subsystems and platforms)
- Data
- Artificial intelligence solutions

## MAIN REFERENCES

ESA and European Commission as clients/collaborators.  
Airbus Ventures as an investor.

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## COMPANY BACKGROUND

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AMOS designs, manufactures and tests high-accuracy optical and opto-mechanical systems for the space and professional astronomy sectors. Its portfolio includes ground-based telescopes, space optics and complete payloads, test equipment for space instruments, and high-precision mechanical equipment.

## ADDED VALUE

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Customers are coming to AMOS for its:

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

## RANGE OF PRODUCTS

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

Space Systems: optics (free form), spectrometers, imagers, optical and mechanical test systems (GSE).

Science and Industry Solutions: Optics, (motorized) structures, cryo- and vacuum-compatible systems.

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

## MAIN REFERENCES

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AMOS is serving customers in Europe (ESA, ESO, AIRBUS D&S, THALES ALENIA SPACE, OHB), in the US (AURA), in India (ISRO, PRL, ARIES), and now also in countries like China, Turkey.

## CERTIFICATION

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ISO 9001:2015

# ANEMO ENGINEERING

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## COMPANY BACKGROUND

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Experts in quick (dis)-connect fasteners.

Manufacturing and distribution of components that secure panels easy and fast.

## ADDED VALUE

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Technical advice to select the correct fastener to an engineer.

Stock availability, rapid quote & shipment, information of technical parts available online.

Reduce change-over time, vibration proof connections, innovative design thinking.

## RANGE OF PRODUCTS

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Turnlock Quarter turns, Quick release pins, self-locking nuts, Spanclamps, Latches, Clinserts, stainless steel 316, Aluminum & Titanium fasteners, Clamps, hinges, handles, locks, temporary fasteners, gas springs, Turn-Grip.

## MAIN REFERENCES

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Airbus, Space-X, Lockheed Martin, Boeing, Blue Origin, Virgin Galactic, Rolls Royce, L3, Elbit, Cassidian, Eurocopter, Babcock, TAI, MBDA, Bombardier, Audi, FN Herstal, Bae Systems.

# ANTICIP CONSULT

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## COMPANY BACKGROUND

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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

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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

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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

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

## CERTIFICATION

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ISO 9001: 2015

IAQG certified EN 9100 auditor

# ANTWERP SPACE

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## COMPANY BACKGROUND

Antwerp Space, is a leading Belgian Space company active in the field of Space based equipment and sub-systems with more than 60 years of heritage. Antwerp Space's core business is in the delivery of satellite communication, navigation, and radar solutions as well as instruments for scientific and exploration missions.

## ADDED VALUE

Antwerp Space delivers breakthrough technology for space, science and secure communication with 100% reliability. We add value to our customers through our knowledge and heritage. In addition, we always deliver!

## RANGE OF PRODUCTS

The products of Antwerp Space range from communication subsystems, TT&C transponders, VLBI instrument, PRS receivers. We work in S-, X-, K- and KA-band. In addition we develop PIC (Photonic Integrated Circuit) solutions for quantum communication and Edge AI solutions for onboard processing system.

## MAIN REFERENCES

Antwerp Space delivered the communication subsystem for JUICE, developed the LaRA instrument for Mars structure monitoring, launched the ARGO software-defined radio from ISS, builds the communication subsystem for ExoMars and ARIEL, as well as PRS receivers for secure communication.

## CERTIFICATION

EN9100 Certified

# ANY-SHAPE

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## COMPANY BACKGROUND

AnyShape is a company dedicated to Additive Technologies (3D printing) for Industry with state-of-the-art equipment to produce metal, plastic, and composites industrial parts. AnyShape helps companies in Europe and beyond by providing them with the whole value chain in additive manufacturing.

## ADDED VALUE

AnyShape competitive assets are based on three main pillars: 1/ Engineering, co-conception & design for AM; 2/ Serial production of qualified parts, based on innovative materials and custom process parameters; 3/ Control, Test and Quality assessment. AnyShape is today manufacturing "Flight Hardware" for several aerospace OEMs including AIRBUS, clear proof of the level of excellence of the services provided!

## RANGE OF PRODUCTS

Our products range from prototypes to serial production of metal and plastic parts.

- Metal alloys: Aluminium (AS10, AS7, CPE1, ...), Scalmalloy (Airbus qualified), Titanium (TA6Vg5, TA6Vg23), Inconel (In718, In625, ABD-900AM, ...), Steels (316L, 17-4PH, M789, E185, MS1, ...), Pure Copper, ...
- Plastic materials: Polyamide (PA11, PA12, PA6,...), Aluminium filled PA (Alumide), Glass bead filled PA (PA-GF), Flame retardant polyamide (PA-FR), TPU, ULTEM9085, ULTEM1010, ...

## MAIN REFERENCES

AIRBUS; AIRBUS DEFENSE & SPACE; SAFRAN (several subsidiaries); ARIANEGroup; OHB; SONACA; SABCA; ESA; JOHN COCKERILL; FN HERSTAL; STELLANTIS; DAIMLER; SOLVAY; and many others from aerospace, defense, transport and medical sectors.

## CERTIFICATION

AS/EN9100, ISO9001

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## COMPANY BACKGROUND

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BeCOVER, located near Liege in Belgium, is an independent test center dedicated to compressor testing and designed to test both civil and military applications

## ADDED VALUE

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The test center includes leading edge technology and has the ambition to support engine developments for the next 40 years. Its configuration, performance and infrastructure are designed to meet future developments in the aeronautical industry. Moreover, the wide range of performances (power, pressure, temperatures...) coupled with the capacity of the test bench to carry out altitude tests for all engine operability conditions makes BeCOVER a unique facility in Europe.

## RANGE OF PRODUCTS

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Tests of low and high pressure compressors for both civil and military aeronautics applications. With an installed power of 20MW, closed loop capability and the integration of dual and triple flow configurations, the test center is capable of testing the current and future compressor configurations.

## MAIN REFERENCES

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The test facility will be operationnal by 2024

# BMT AEROSPACE

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## COMPANY BACKGROUND

BMT AEROSPACE was established as an independent brand inside the BMT Group in 2002, but the roots of the aerospace market inside BMT group started in the early 80' (1981). From that moment, the aerospace portfolio was always expanded up to create a separate branch dedicated to Aerospace in 2022. We celebrated our 20th anniversary recently. The growth was also on the footprint and today BMT Aerospace has facilities in Romania, USA and Belgium (Headquarter).

## ADDED VALUE

The group strategy is focusing on full integration of all needed competencies in-house to deliver best in class product to the customers. This means a fully integrated production process including all special processes and treatment that are made in-house. Avoiding unnecessary logistics flow to suppliers causing delay in production and cost risk. BMT has full control on the production process of the delivered product. In such essence we finalized last year the vertical integration of our US facility by a new acquisition (EHT).

## RANGE OF PRODUCTS

The variety of applications where BMT's products stands is large and, on some Aircrafts, we deliver multiple parts via several customers channels. The list of application is:

- Wing moveable actuations.
- Auxiliary Power Units components (APU).
- Aircraft engines gearboxes components:
  - Internal gearboxes components (IGB).
  - Transfer gearboxes (TGB). o Accessory gearbox components (AGB)
  - Power take off shaft (PTO)
- Helicopter power transmission:
  - Tail rotor Transfer Gearboxes components.
  - Main rotor gears applications

## MAIN REFERENCES

### CERTIFICATION

Nadcap, ISO 9001, EN 9100, JIS Q 9100, AS 9100, FEDERAL PUBLIC SERVICE MOBILITY AND TRANSPORT, OWN OEM'S CERTIFICATION

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## COMPANY BACKGROUND

---

Precision is our passion. For more than 150 years, CAPAUL has been keeping its promises. We manufacture high-precision serial parts and assemble complex sub-assemblies. Our highly qualified staff control and certify the required quality according to ISO EN 9100:2018.

## ADDED VALUE

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We also have extensive experience in the assembly of sub-assemblies for the aerospace, defense, and medical industries. We invest €1.5 million annually in our production facilities. A fully air-conditioned production hall (20°C) is available. Capaul specializes in the production of complex components.

## RANGE OF PRODUCTS

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- 5-axis milling and turning up to  $\varnothing$  2000 x 1000mm in a fully air-conditioned 2000m<sup>2</sup> hall.
- 3D control - 3000 x 2000 x 1000 mm
- Penetrating inspection, deburring, balancing, sandblasting
- Assembly of medical sub-assemblies and aeronautical components.

## MAIN REFERENCES

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SAFRAN GROUP – ASCO INDUSTRIES – FAIVELEY TRANSPORT – John Cockerill GROUP – FN HERSTAL – TECHNICAL AIRBORNE COMPONENTS – IBA – OTTO FUCHS – Thales

## CERTIFICATION

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ISO EN 9100:2018.

NADCAP penetrating inspection

# CASTINGPAR

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## COMPANY BACKGROUND

Precision Investment Casting vacuum (SETTAS-Charleroi, Belgium) and air melting (PRECIMETAL-Seneffe, Belgium). Precision machining (MPO-Orleans, France)

## ADDED VALUE

Foundries: lost wax technology and 3D printing (stereolithography) for prototyping, development and serial production of very complex parts with high precision. High level of quality, dimensional, X-Ray and FPI controls on site. Machining: 3 axis, 4 axis and 5 axis machining

## RANGE OF PRODUCTS

Applications for aerospace parts (structural, engines, supports and other complex tubings) from 1g to 450 kg. Large variety of alloys: titanium, zirconium, stainless steel, copper-aluminum, bronze, cobalt-chrome, nickel,...

Machining: also Inconel alloys

## MAIN REFERENCES

AIRBUS – AIRBUS ATLANTIC – LATECOERE - SAFRAN AERO BOOSTERS – SAFRAN AIRCRAFT ENGINES – SAFRAN LANDING SYSTEMS – SAFRAN AIRCRAFT ENGINES – COLLINS – PRATT & WHITNEY CANADA

## CERTIFICATION

EN 9100 – NADCAP NDT (FPI, X RAY, MAGNETOSCOPY) - NADCAP WELDING

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## COMPANY BACKGROUND

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Cenaero is a research center that supports companies in their product, service and/or process innovations, by providing advice, methodologies and adapted numerical simulation tools. Cenaero is mainly active in aeronautics, space, manufacturing, process engineering, and smart buildings and cities.

## ADDED VALUE

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Cenaero provides expertise in the simulation of metallic manufacturing processes (assembly; subtractive, additive and hybrid processes; post-processing) and composite manufacturing processes, in the analysis of the in-service behavior of structures (up to the prediction of service life), in high-fidelity fluid dynamics, and in multi-disciplinary optimization and data analysis assisted by machine learning.

## RANGE OF PRODUCTS

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Cenaero provides custom-made engineering services and 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 a supercomputing infrastructure ranked 245 in the Top500 (November 2022).

## MAIN REFERENCES

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Cenaero is a research partner of Safran since 2007.

## CERTIFICATION

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EN 9100:2018

ISO 9001:2015

# CENTRE SPATIAL LIÈGE

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## COMPANY BACKGROUND

Centre Spatial de Liège (CSL), created in 1959, is the foremost institute for space instrumentation, technological research and testing. CSL is the applied research center of Liège University, specializing in design, development, integration, qualification, and calibration of space instruments.

## ADDED VALUE

As part of its work, CSL operates a highly specialized environmental test center to expose instruments, systems, and satellites to extreme conditions encountered in deep space, with unique capabilities in optics and thermal regulation, including cryogenics.

## RANGE OF PRODUCTS

CSL is equipped with thermal vacuum chambers from 1.5 to 6.5m diameter for the Space Qualification of flight instruments. Specific Optical Ground Support Equipments (OGSE) are developed and used for the calibration of Optical Payloads. A specific bench is available for the reflective characterization of flight diffusers (BRDF: Bidirectional Reflectance Distribution Function). Additionally, Straylight test benches are developed for the in-field and out-of-field characterization within a wide wavelength range.

## MAIN REFERENCES

CSL is involved in Earth Observation Missions like Aeolus, Atlid, MTP, MEtop and Copernicus and also in the ESA Science Program like JUICE, JWST, GAIA, Herschel/Planck, Solar Orbiter, Euclid, Ariel.

## CERTIFICATION

ESA: Certificate Number ESA/TEC-Q/CSL2010; certification Expiry: 14/12/2025

EN9100: AFNOR Certification N°2019/98680.2; certification expiry: 10/04/2025

# COEXPAIR

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## COMPANY BACKGROUND

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Coexpair is the reference in Europe for Net Shape Composites Manufacturing Solutions.

Since 2006, we are developing innovative solution in high-performance composite manufacturing and production solutions.

## ADDED VALUE

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Net-shape composites are an opportunity to improve performance: lower weight, lower cost, shorter manufacturing cycle. Coexpair designs and builds RTM workstations. Automation of High Performance RTM process for aerospace is our job. We ensures our Customers the same high quality & reliable equipment worldwide. Previously called RTM press, our workstation is a more advanced solution that integrates functions in a smart way.

## RANGE OF PRODUCTS

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Coexpair produce Molds, Workcells (Presses) and Injection systems for RTM and SQR™ .

Our Engineering Services aims at developing innovative part architectures, advanced RTM & SQR™ processes and optimal production equipment.

## MAIN REFERENCES

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Today Coexpair works for the largest aerospace OEM and Tier-1, including Airbus and Safran.

## CERTIFICATION

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EN9100

ISO9001

# COMPOLAM

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## COMPANY BACKGROUND

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Compolam has extensive expertise developing durable hybrid and metal-clad thermoplastic laminates.

Our engineered materials are made to connect and to protect. We target applications in aerospace, defense, energy, medical and industries that need to perform reliable in harsh working conditions.

## ADDED VALUE

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We connect various thermoplastics (PEEK, PAEK, PEKK, PEI, PPS, PA6, PA12, etc.) with a variety of metals to make rolls, tapes and sheets. Our laminates are extremely durable and resist to the challenges of hostile working environments (temperature, chemicals, radiation)

## RANGE OF PRODUCTS

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- **XRL2000 laminates:** thin laminates for making PCB's, heater circuits, shielding, packaging
- **CompoSTRIKE®:** lightning strike protection materials for aerospace structures – AFP compatible
- **StrikeTape:** lightning strike diverters to protect radar radomes, antennas, and wind turbines.

# CONSOLIDATED PRECISION PRODUCTS BELGIUM



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## COMPANY BACKGROUND

Founded in 1991, CPP has grown substantially over the past 25 years through a combination of acquisitions and organic growth. From our first facility in Cudahy, California, CPP is now comprised of 19 global facilities manufacturing products for the aerospace, defense, and industrial gas turbine markets. CPP is a portfolio company of Warburg Pincus LLC & Berkshire Partners LLC.

## ADDED VALUE

A global network of facilities across the United States, Mexico, and Europe, Consolidated Precision Products specializes in high-precision, geometrically complex aerospace systems, components and subassemblies.

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

## RANGE OF PRODUCTS

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

## MAIN REFERENCES

GE Aviation, GE Power, Spirit Aerospace, Safran Group, UTC Aerospace Systems, Honeywell, Pratt & Whitney, ITP.

## CERTIFICATION

CPP sites have numerous qualifications, including: EN9100 - ISO 9001-2008 – NADCAP – AQS 13100

# CRM GROUP

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## COMPANY BACKGROUND

Innovation, Industrial solutions and a Vision for the future are the watchwords of the 265 employees of the Centre for Metallurgical Research. Since 1948, the CRM Group has been supporting its customers from the creation of ideas to the implementation of innovative solutions by responding to their industrial challenges, whether economic, societal or environmental.

## ADDED VALUE

CRM activities are aimed at multi-sectoral applications such as defence, chemistry, aeronautics, energy and the environment. Sectors for which CRM is offering solutions covering all value chain.

## RANGE OF PRODUCTS

In addition to its historical steel mission, CRM Group has added missions on current challenges, divided into 5 platforms: circular economy; energy transition; digitalisation; advanced manufacturing and construction.

## MAIN REFERENCES

The CRM Group participates in several developments and projects with several defence, aeronautics and aerospace players, such as Herstal Group, JC, ESA, Sonaca, Sabca, SAFRAN...

## CERTIFICATION

267-TEST, 267-CAL, EN ISO/IEC 17025

# DARDENNE

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## COMPANY BACKGROUND

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Established in 1978, Dardenne S.A. is experienced in built-to-print manufacturing of any high precision part or assembly for Aero, Space or Defense industry.

Its organization and size deliver optimum Quality-to-Agility ratio.

## ADDED VALUE

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Complete Build-to-Print execution, including:

- Raw material purchasing
- Thermal and/or Surface Treatment management
- Manufacturing
- Inspection, Measurement & Non Destructive Testing management

## RANGE OF PRODUCTS

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Turning, Milling, EDM, Flat & Cylindrical Grinding, Metrology, Marking Surface and/or Heat Treatment management, NDT management

DVI/PPAP management, CAD/CAM, FMEA

## MAIN REFERENCES

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Safran Aero Boosters, Ariane Group, Parker Aerospace GmbH, Cryostar, Aerospacelab, Mitis, Axiles Bionics

## CERTIFICATION

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EN9100:2018 (EAQS OIN 6131043189)

ISO9001:2015

# DEDECKER PRECISION MECHANICS

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## COMPANY BACKGROUND

Founded in 1969, Dedecker Precision Mechanics is the specialist in manufacturing of high precision metal parts. Later on, in 2012, the company became affiliated with three other companies to create a family owned cluster of advanced manufacturing capabilities in high precision areas: Sub-Alliance. Each division enables a unique synergy between development and manufacturing of polymers, composites, metals and transmissions. Its applications are intended for high precision areas on earth, on sea and in air & space.

## ADDED VALUE

Our companies provide the highest expertise. To enhance your product performances, we offer 5 steps: advanced materials research, lightweight composite design, fast processes development and compliance with the highest quality standards (EN-9100). In addition, we produce various aerospace and defense applications within short lead-times at fair prices.

## RANGE OF PRODUCTS

Dedecker Precision Mechanics is specialized in bar turning and super finishing of mechanical parts: automatic turning of metals and polymers, milling, grinding, honing and treatment. It has a high production rates and in-house thermal processes. DPM is the expert in Al, SS and Ti aero parts.

## MAIN REFERENCES

Airbus A220 thermoplastic composites service panels, A350 thermoplastic composites service panels, Leap thermoplastic engine components (turbine shroud), NH90, TTH90 and H145/H160 transmission and gears, Cockpit handles for Airbus, Bombardier, Embraer and Pilatus, Defense ammunition from 25 to 105mm, Slates and ribs for wing elements, High precision sensors for aero applications, Cockpit & cabin thermoplastic elements, F-35 Belgian Industrial Program, Re-Entry shielding materials

## CERTIFICATION

EN 9100

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## COMPANY BACKGROUND

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DELTATEC is a high-tech design company, specialized in advanced hardware and software technologies. The company is active in the industry sector, in the TV broadcast market and in aerospace which became a strategic activity in 2005.

## ADDED VALUE

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- A Belgian design house located in heart of Europe
- 30 years of experience and more than 500 projects
- A human-sized team of more than 50 high-level engineers
- A recognized expertise in the framework of ESA missions as prime contractor and subcontractor

## RANGE OF PRODUCTS

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Deltatec support its customers throughout their project/product lifetime. In the space segment, DELTATEC designs payload electronics with a strong focus on cameras for earth & sun observation, but also flight or payload computers with advanced processing & storage capabilities. Thanks to its industrial background DELTATEC can bring innovative architecture to customers in the NewSpace market.

## MAIN REFERENCES

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Companies like ESA, CSL, REDWIRE (QINETIQ), THALES, SAFRAN, OHB LUXSPACE, SPACEBEL, VITO, IMEC, AMOS, NEWTEC and many others, regularly entrust to DELTATEC for their projects.

## CERTIFICATION

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DELTATEC is member of SKYWIN, Aerospace cluster of Wallonia.

# DUMOULIN AERO

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## COMPANY BACKGROUND

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Twenty years ago, 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

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Bolts and pins, Links, Excentric Bolts and Bushes

## MAIN REFERENCES

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Tier 2: Airbus and Embraer

## CERTIFICATION

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EN 9100

# EURAMEC

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## COMPANY BACKGROUND

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Euramec NV was established in 1991, initially in the electronics industry. As the company got involved into Aerospace activities, the main activity became the development and production of flight training devices and this since 2010. Today Euramec has offices in Belgium, USA, United Kingdom and Portugal.

## ADDED VALUE

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Euramec is a highly flexible group that specializes in the development and production of flight training devices, mission training devices and maintenance training solutions. Every product is customized and developed closely with the customer. The group is active in both military and commercial aviation and for a wide range of aircraft – fixed/rotary wing, UAV's, etc.”

## RANGE OF PRODUCTS

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- Customized flight training devices for ab initio flight training, crew training, type ratings and recurrent training, covering piston aircraft, turbo-prop aircraft, business jets and small to medium commercial jets.
- Mission training devices for military flight and/or tactical flight crew, including a range of ISR related training devices for EO/IR sensors, EW, Radar, Accoustics, TACO.
- Virtual maintenance training devices using AR/VR technologies.

## MAIN REFERENCES

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Flight schools and airlines, aircraft OEM's, military aircraft operators and law enforcement agencies, ISR systems integrators, business aircraft operators, universities. All of them worldwide.

## CERTIFICATION

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ISO-9002 is in progress

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## COMPANY BACKGROUND

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Established since 1950 in Mouscron, Feronyl is your engineering and manufacturing partner for advanced mechanical system. Later on, in 2012, the company became affiliated with three other companies to create a family owned cluster of advanced manufacturing capabilities in high precision areas: Sub-Alliance. Each division enables a unique synergy between development and manufacturing of polymers, composites, metals and transmissions. Its applications are intended for high precision areas on earth, on sea and in air & space.

## ADDED VALUE

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Our companies provide the highest expertise. To enhance your product performances, we offer 5 steps: advanced materials research, lightweight composite design, fast processes development and compliance with the highest quality standards (EN-9100). In addition, we produce various aerospace and defense applications within short lead-times at fair prices.

## RANGE OF PRODUCTS

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Feronyl is specialized in the manufacturing of lightweight thermoplastic composites and injection molded components. We manufacture the most technical polymers (PEEK, PAEK, PEI, PPS, PPSU, PSU, PA), metal alloys (MIM), ceramics (CIM) and composite parts. The company targets cost-reduction by advanced in-house thermoplastic composites, high production rates within tight tolerances and technical materials.

## MAIN REFERENCES

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Airbus A220 thermoplastic composites service panels; A350 thermoplastic composites service panels; Leap thermoplastic engine components (turbine shroud); NH90, TTH90 and H145/H160 transmission and gears; Cockpit handles for Airbus, Bombardier, Embraer and Pilatus; Defense ammunition from 25 to 105mm; Slates and ribs for wing elements; High precision sensors for aero applications; Cockpit & cabin thermoplastic elements; F-35 Belgian Industrial Program; Re-Entry shielding materials.

## CERTIFICATION

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EN 9100

# FLANDERS SPACE – FLEMISH SPACE INDUSTRY

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## COMPANY BACKGROUND

Flanders Space unites the space actors in Flanders and focuses on 4 areas: attracting young talent to the space sector, supporting competitiveness and entrepreneurship, providing R&D funding and science communication. As a cluster of the Flemish Space sector, Flanders Space wants to further shape the space economy in Flanders and put it on the international map. Flanders Space is an initiative of the Flemish Space Industry (VRI) supported by VLAIO.

## ADDED VALUE

Flanders Space offers support and a network to companies, research institutes and academia collaborating on the newest products, services and innovative technologies for the space domain. With an ambitious programme and a dedicated budget, the cluster organisation wants to offer all opportunities to the Flemish socio-economic actors and to graduating young people to work with space data and infrastructure. The network is composed of 41 members from industry, including SMEs, research and universities.

## RANGE OF PRODUCTS

- Research mandates for PhD and post-doc students
- Support to startups and funding for hands-on collaborative projects to get started with space data (Space Labs)
- Funding for collaborative projects between industry and research institutes for the development of new and innovative space technology (ICON-projects)
- Development of downstream applications and to put it on the international map
- A dynamic and attractive network of 41 space actors

# FN HERSTAL

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## COMPANY BACKGROUND

From its inception in 1889, FN HERSTAL's core business has been small calibre firearms and ammunition. For over half a century, this focus has expanded to include weapon systems integrated onto carriers (air-land-sea).

## ADDED VALUE

FN HERSTAL has a long-standing expertise in defence solutions with over 5,200 FN Herstal airborne weapon systems qualified and deployed on a wide range of carriers across the world. Our portfolio includes 360-degree customer services to cover the entire product life cycle management.

## RANGE OF PRODUCTS

FN HERSTAL designs, develops, manufactures and integrates crew-served weapon systems and fixed forward-firing systems fitted with FN® 7.62x51mm or 12.7x99mm NATO (.50 cal) machine guns. A production line has been recently installed on FN HERSTAL site to manufacture PCBAs, for our own and third party needs.

## MAIN REFERENCES

Over 5,200 FN airborne weapon systems are deployed on a wide range of carriers across the world. Supplier to NATO members and allied countries.

## CERTIFICATION

FN Herstal is ISO 9001 and AS/EN 9100 certified, and AQAP 2110 compliant.

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## COMPANY BACKGROUND

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For more than 30 years, GDTEch, an engineering firm present in Belgium and France, has developed an expertise covering all the steps necessary for the design, simulation and industrialization of your projects.

## ADDED VALUE

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GDTEch provides an integrated service covering the entire product development process or, depending on your needs, supports a specific part of it.

Thanks to our in-depth knowledge of the most advanced technologies and software, we bring a customized solution to your challenges. Our assets: our expertise and our complete CAE services.

Our services can also be provided on site

## RANGE OF PRODUCTS

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- Design, drawing, manufacturing and testing: components and assemblies, manufacturing tools, industrial equipment.
- Numerical simulation: structures, fluids, thermal, acoustic, multiphysics, manufacturing processes (additive, forming).
- Industrial process monitoring, endoscopy and industrial lighting.

## MAIN REFERENCES

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SMEs and large Belgian and international groups.

## CERTIFICATION

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ISO 9001 and EN 9100

# GLOBAL MOBILE LAB

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## › DELEGUE(S) AU SALON

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## COMPANY BACKGROUND

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Global Mobile Lab (GML) is a biotechnology company dedicated to commercialize products and services related to biological mobile laboratories, integrated with satellite telecommunication and mapping, to support medical infrastructures and to bring diagnostic capability as close as possible to the health crisis area for fast emergency response.

## ADDED VALUE

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The GML Mobile Laboratory is fieldable. It is box-based, can be easily deployed anywhere, nearby the crisis area and can be relocated quickly in another area or user site.

It is an autonomous, self-contained laboratory for analysis, reporting and management of information.

The GML Mobile Laboratory is flexible and can be adapted for a wide range of pathogenic agents and medical tests.

## RANGE OF PRODUCTS

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The GML Mobile Laboratory can perform rapid diagnostic tests for various infectious diseases. It is integrated with GML BSL3 gloveboxes, real-time qPCR systems, automated DNA/RNA extraction systems, next generation sequencing systems, with all instrumentation and support equipment. A satellite telecommunication system is integrated as well as an optional real time epidemiological mapping service.

Full support is provided as well as a training service with certification from a University Reference Laboratory.

Global Mobile Lab is also providing consulting and testing services for new biotechnology products and instruments.

## MAIN REFERENCES

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Global Mobile Lab (GML) is a spin-off of the B-LIFE (Biological Light Fieldable Laboratory for Emergencies) ESA project which has been deployed in many successful missions, including the Ebola mission in Guinea, from 2014 to 2015, and the COVID-19 mission in Italy, in 2020.

# GRIMONPREZ TRANSMISSION GEARS

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 **ALLIANCE** | GRIMONPREZ  
TRANSMISSION GEARS

## COMPANY BACKGROUND

Established since 1877, Grimonprez Transmission Gears is the specialist in manufacturing all types of gears and gearboxes. Later on, in 2012, the company became affiliated with three other companies to create a family owned cluster of advanced manufacturing capabilities in high precision areas: Sub-Alliance. Each division enables a unique synergy between development and manufacturing of polymers, composites, metals and transmissions. Its applications are intended for high precision areas on earth, on sea and in air & space.

## ADDED VALUE

Our companies provide the highest expertise. To enhance your product performances, we offer 5 steps: advanced materials research, lightweight composite design, fast processes development and compliance with the highest quality standards (EN-9100). In addition, we produce various aerospace and defense applications within short lead-times at fair prices.

## RANGE OF PRODUCTS

Grimonprez Transmission Gears is specialized in the engineering and manufacturing of gears, transmission elements and gearboxes in small and medium volumes for rotary aircrafts.

## MAIN REFERENCES

Airbus A220 thermoplastic composites service panels; A350 thermoplastic composites service panels; Leap thermoplastic engine components (turbine shroud); NH90, TTH90 and H145/H160 transmission and gears; Cockpit handles for Airbus, Bombardier, Embraer and Pilatus; Defense ammunition from 25 to 105mm; Slates and ribs for wing elements; High precision sensors for aero applications; Cockpit & cabin thermoplastic elements; F-35 Belgian Industrial Program; Re-Entry shielding materials

## CERTIFICATION

EN 9100

# GROUP ACB

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## COMPANY BACKGROUND

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Group ACB is a European manufacturer of High Reliability Printed Circuit Boards (PCB's). We have three production sites: one in Belgium (ACB NV - Dendermonde) and two in France (Atlantec – Malville and Cibel – Bellême). Next to the PCB's we also have a component packaging service divisions in France and Tunisia.

## ADDED VALUE

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If you need Printed Circuit Boards for your life-critical applications, Group ACB is the right partner. For more than 30 years we are manufacturing high-tech/high-rel PCB's for demanding markets like defense, space and aerospace.

## RANGE OF PRODUCTS

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Group ACB offers a wide range of Multi-Layer (> 30 layers) PCB's in rigid, flex or flex-rigid boards with or without HDI technology. One of our production sites specializes in the production of High Frequency Boards. We qualified a wide range of materials for our production including FR4, polyimide, CIC, high-speed materials...

## CERTIFICATION

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EN9100 / Nadcap / ESA

# JD'C INNOVATION

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## COMPANY BACKGROUND

3 competences: **Composite materials**: designs, industrialises and produces composite parts for Aeronautics and Defence following the hand lay up technology. **Multi-material assembly** and **process Industrialization**: these technologies require working with high quality and using the most advances technologies.

## ADDED VALUE

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

## RANGE OF PRODUCTS

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

## MAIN REFERENCES

Thales Belgium, John Cockerill Defense, FN Herstal, Sonaca, Sabca, Safran Aero Boosters, Gradel, Etilux, Carat Duchatelet, Skywin, Thales Alenia Space, Stelia Aerospace, Exail ...

## CERTIFICATION

EN9100 certified since 2009 and ISO 14001 and 45001 certified since 2021, Airbus Qualification, Safran Aero Boosters and Sonaca qualification for vacuum and autoclave polymerization, Stelia and Thales Qualification.

# L&D JET TECHNIK

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## COMPANY BACKGROUND

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L&D was founded in 1994 and has almost 30 years of experience working as a subcontractor for aviation industries: Precise machining of all kind of materials.

## ADDED VALUE

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Complete machined parts in composite, alu, titanium, plastics and many more, with big dimension

## RANGE OF PRODUCTS

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L&D offers customized precision machining of all metallic and composite materials with the use of waterjet cutting and milling/drilling/routing: 2D and 5-axis. We have ISO9001 and AS9100 certificate and several specific certificates.; L&D provides short lead times and offers solutions to reduce prices. Reactivity, Performance, Quality and Confidentiality are Key Words for L&D.

## MAIN REFERENCES

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Sonaca, BMT aerospace  
Sabca, Asco

## CERTIFICATION

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ISO9001  
EN9100

# LA NITRURATION MODERNE

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## COMPANY BACKGROUND

La Nitruration 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 EN9100, LNM is also certified in Nadcap non-destructive testing and chemical processes. LNM is a “onse top shop”, form 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, Managese 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, Back Oxide, Passivation, Zinc Phosphating.

## MAIN REFERENCES

SONACA, ASCO, DUMOULIN, TAC, SHURLOK, PRETEC, MAP

## CERTIFICATION

EN9100, NADCAP: Chemical Processing and NDT (MPI+FPI)

# LIONOIL - ANTWERP LION OIL WORKS

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## COMPANY BACKGROUND

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Established in 1924 as motor oil company we have grown to an international player in special lubricants and lubrication systems. As preferred sales channel for the Master Fluid Solutions (TRIM®) metalworking fluids we offer high quality cutting fluids with Aerospace approvals.

## ADDED VALUE

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

## RANGE OF PRODUCTS

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Metalworking fluids with Aerospace approvals

Hylomar sealing paste with Aerospace approvals

Custom made lubrication systems

## MAIN REFERENCES

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SAFRAN AERO BOOSTERS

# MACHINESIGHT

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## COMPANY BACKGROUND

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MachineSight is the concatenation of two main areas of activity: Machine and Sight. MachineSight's mission is to help companies of all sizes to set up and operate automated machines equipped with their own control system, their virtual operator.

## ADDED VALUE

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MachineSight develops high end systems ready for industrial application and all the manipulation means for specific requirements. MachineSight is dedicated to designing, developing and industrialize innovative solutions related to virtual operators.

## RANGE OF PRODUCTS

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Our integrated Oculus.AI enables virtual operators to be embedded in your equipment, to improve quality and performance. Oculus.AI is using the latest AI technologies in Advanced OCR, visual inspection, defect control and conformity control.

## MAIN REFERENCES

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MachineSight has successfully implemented projects at Safran Aero Boosters and currently with Safran Aircraft Engines.

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## COMPANY BACKGROUND

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High precision metal machining, from prototyping to mid-series, using microerosion and electroerosion. Expertise in microholes and certified production parts.

Centrally located in Belgium since 1982.

## ADDED VALUE

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Micromechanics know-how developed in-house, performing complex shapes, sharp edges, and microholes in any to very hard metals (from 1 to 400mm), with precision down to 1µm of tolerance for drilling, cutting and control, and roughness down to Ra 0.03µm. Active R&D department collaborating with academic research programs in applied or fundamental fields.

## RANGE OF PRODUCTS

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EDM – Microholes – Microdrilling – Microerosion – Micromechanics

Sleeve-piston for undercarriage ABS – Nozzle guide blades for turbines – Anti-rotation locks and lock spacers – Nozzle activation systems for rockets – Racks for leading edge slats

## MAIN REFERENCES

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Airbus A319/320 – A350 – A400M, Boeing 737, Safran, SABCA, SONACA, Euro Heat Pipes and Ariane. CERN, Centre Spatial de Liège, AMOS, Institut Von Karman, CMI John Cockerill.

## CERTIFICATION

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Certification EN9100 – ISO13485 (in progress) – Safran (EDM) – Airbus (EDM)

# MECASPRING

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## COMPANY BACKGROUND

GROUPEMECA is a manufacturer of precision springs in wire and flat strip materials (compression, tension and torsion springs & induction coils according to drawing or customer samples) Mechanic welded assemblies and sub-assemblies. Tailor-made machining parts, finishing treatments.

Our engineering team is at your disposal for your new projects in research and development. Certified ISO 9001: 2015 and EN 9100: 2018. Accredited supplier for Aeronautics, Defense, Space and Automotive.

## ADDED VALUE

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

We are accredited supplier according to ISO 9001: 2015 and EN 9100: 2018 towards highly qualified customers in Defense, Aeronautics, Space and general industry (Automotive, Gaz, Connectics, ....)

## RANGE OF PRODUCTS

GROUPEMECA 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, finishing treatments.

## MAIN REFERENCES

Aeronautics: SAFRAN AERO BOOSTER

Defense: FABRIQUE NATIONALE GROUPE – DIEHL – MECAR – NEXTER - RHEINMETALL

GAZ – CONNECTICS – AUTOMOTIVE – LIGHTING

ELECTRICAL APPLIANCES: SCHNEIDER ELECTRIC GROUP

## CERTIFICATION

Our company is certified according to ISO 9001: 2015 and EN 9100: 2018 standards.

# MONTANA AEROSPACE

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## COMPANY BACKGROUND

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Montana Aerospace's core competencies include the development and manufacture of mission-critical aircraft parts. Thanks to our global presence in development and production and our broad multi-material competence, we are one of the world's leading manufacturers for the aerospace industry.

## ADDED VALUE

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From the processing of raw materials using recycled base materials to the assembly of entire components, our one-stop-shops offer the highest standards in quality, delivery reliability and service. By streamlining the supply chain, delivery times are shortened, CO<sub>2</sub>-emissions are reduced and costs are saved. Our extensive investments in modern production facilities underline our state-of-the-art claim.

## RANGE OF PRODUCTS

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Montana Aerospace's core competencies include the development and manufacture of highly critical aircraft parts. Our product portfolio extends from structural components more than 20 meters long for the fuselage, wings and landing gear to critical engine components subject to high thermal and mechanical loads, and functional components for the cabin interior.

## MAIN REFERENCES

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As a highly integrated full-service provider with state-of-the-art production facilities in Europe, America and Asia, we support the strategy of the world's leading aircraft OEMs and their Tier 1 suppliers.

## CERTIFICATION

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AS/EN 9100; POA Part 21G; MOA Part 145

NADCAP; NDT, Chemical Processing, Heat Treatment

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## COMPANY BACKGROUND

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Motulus.aero was formed in 2018 by a team with deep expertise in mathematics and software development. The team develops advanced and pioneering optimization algorithms which are integrated in solutions that improve operational efficiency and reduce operational cost for airlines.

## ADDED VALUE

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Motulus.aero enjoys solving the problems that haven't been solved before by deploying the next generation of optimization solutions. Our products help airlines to reduce operational costs, improve crew satisfaction and operate a smooth schedule. Easy integration with airline IT architecture, intuitive user interfaces and excellent customer support are part of Motulus' DNA.

## RANGE OF PRODUCTS

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**Integrated Crew Scheduling:** generates crew schedules. The solution is unique in generating rosters and pairing in one optimization run: which drives a more optimal plan.

**Tail Assignment:** allocates aircraft to flights to deliver reduced costs and operational robustness

**Network Optimization:** answers the question of when to fly where?

## MAIN REFERENCES

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The Motulus products are currently in production with two TUI airlines; a number of proof of concepts are additionally ongoing with other airlines.

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## COMPANY BACKGROUND

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MPP is a major service provider in the Non-Destructive Testing field (NDT) and in precision deburring-polishing for the aerospace manufacturers and maintenance shops as well as the defense, energy and transportation industries. MPP is based in Liège. MPP expertise composite and metallic parts.

## ADDED VALUE

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In order to answer customer needs, MPP manage 10 NDT technics: Digital X-Ray, Tomography, Shearography, Thermography, Ultrasonics, Eddy currents, Penetrant, Magnetoscopy, Etching, Digital microscope. MPP uses fix and mobile equipment. MPP has several NDT inspectors level 2 covering 28 NDT certifications and an inspector NDT level 3 certified in all those technics.

## RANGE OF PRODUCTS

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Expertise, production inspections and R&D in NDT at MPP.

NDT Expertise on site with mobile equipment or/and as an additional resource to customer staff

NDT Training level 1 and 2 in all NDT technics according to EN4179 and NAS410.

Precision deburring and polishing on aerospace and industrial parts.

## MAIN REFERENCES

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Safran Aero Boosters, Sabena Aerospace Engineering, Sabca, Asco, Sonaca, Thalès, General Atomics, Daher, Ariane Group, BMT aerospace, SKF Aerospace, Euro Heat Pipes, Revima Group, KVE Repair, TAC.

## CERTIFICATION

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EN9100 – n°67647.5 / ISO9001 – n°67646.5 / NADCAP  
NDT Audit N° 209981 (RX, MT, PT)

SAFRAN AQPS Pr5250, Pr5000 & DMC0010, Pr5300 & DMC0070, Pr1300-100A & DMC0340

# OIP SENSOR SYSTEMS

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## COMPANY BACKGROUND

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OIP specializes in design, development and production of high-end electro-optical systems for the defence and space markets. The OIP Space Instruments department has delivered electro-optical equipment for space applications since the 90s.

## ADDED VALUE

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OIP works closely together with customers to develop customized products. As a major manufacturer of specialized systems, OIP is fully equipped to handle every aspect of design, manufacturing, testing and qualification, thereby ensuring that all products exactly match specifications and provide complete customer satisfaction.

## RANGE OF PRODUCTS

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The application fields of the electro-optical Space payloads include Earth & planetary observation, atmospheric analysis, space monitoring, navigation & landing, and scientific instrumentation.

## MAIN REFERENCES

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OIP is payload prime of the ALTIUS mission, which will deliver profiles of ozone and other atmospheric trace gases. OIP is also responsible for the CLIM payload on the Copernicus CO2M mission.

## CERTIFICATION

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OIP is certified to AS 9100 and to AEO.

# OPEN ENGINEERING

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## COMPANY BACKGROUND

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

## ADDED VALUE

Open Engineering's software tools are based on the OOFELIE::Multiphysics platform which is optimized for large industrial multidisciplinary 3D Finite Element Analysis (FEA) design works. OOFELIE::Multiphysics is used by our customers to conceptualize, design, analyse, 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::Multiphysics Solver, our proprietary multiple fields and strongly coupled solver.

The OOFELIE::Multiphysics link to Simcenter, our plugin to operate the OOFELIE::Multiphysics Solver from the Simcenter 3D modern environment of Siemens DIS.

OOFELIE::ADX, our application for the automated exploration of the design space and optimization.

## MAIN REFERENCES

AMOS - ArianeGroup - CSL - ESA - FN Herstal - Fokker - Ford - Hyundai - John Cockerill - Lambda-X - LASEA - LuxSpace - MECAR - ONERA - RHEA - SAFRAN Aero Booster - Taipro - Thales - UMICORE - V2i

## CERTIFICATION

Over the last 20 years, the Open Engineering company entered in partnership with the following complementary companies: Cadence, Siemens DIS, Siemens EDA and Zemax.

# OPTIMAL AIRCRAFT DESIGN - OAD

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► **Didier BREYNE**, Managing Director  
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## COMPANY BACKGROUND

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For more than 15 years at the service of aeronautical companies, universities and research institutes, located on all continents. Involved in various research and development projects, from the design of small-size drones to mid-range airliners.

## ADDED VALUE

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We can carry out the entire conceptual/preliminary design or part of it if the client lacks resources or skills in this specific area. We use our own software, optimized to meet the specific needs of aeronautical projects. Thanks to our expertise, the completion times are short and the studies successful.

## RANGE OF PRODUCTS

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Company specialized in the conceptual design and the preliminary design (technical, marketing and financial analyses) of all types of aircraft, from drones to airliners.

Developer and distributor of the ADS Suite (Aircraft Design Software), software intended to carry out the entire conceptual design of an aircraft.

## MAIN REFERENCES

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From large companies (Airbus, Comac...) to medium and small size companies (Diamond, UAVision, Griffon Aerospace...), most of the universities (MIT, ECP, Darmstadt, Beihang...)

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## COMPANY BACKGROUND

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OPTRION is an SME created in 1999 which originates from the CSL (Centre Spatial Liégeois) and specializes in interferometry techniques. It has developed its technical base by applying methods such as ESPI to spatial programs.

## ADDED VALUE

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OPTRION is an extremely dynamic and specialized company. We use our knowledge and experience to create state-of-the-art non-destructive testing systems based on shearography. We are proud of our ability to develop both hardware & software solutions internally which allows our customers to benefit from unequalled reactivity and flexibility.

## RANGE OF PRODUCTS

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OPTRION commercializes complete shearography systems from its standard DeFinder line as well as tailored systems for production control or maintenance operations. Our offer for robotized applications benefits from our latest developments and is the most complete on the market.

## MAIN REFERENCES

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Over the years, OPTRION has worked with the greatest names of the aeronautic, space and defence industries such as entities from the Safran and Thales Groups, Ariane, ESA,...

## CERTIFICATION

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OPTRION's products and activities are covered by our ISO9001 certification. Two members of our personnel are also certified level II for shearography testing according to NAS410/EN4179.

# PATRIA BELGIUM ENGINE CENTER

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# Patria

## COMPANY BACKGROUND

Supporting around 15 Air Forces worldwide with F100-PW engine MRO over decades, Patria BEC offers a full engine MRO solution via a wide range of in-house capabilities (overhaul, cleaning, non-destructive, testing, repair, O-I-D-level and engineering). Patria BEC has incorporated Patria Group in 2019

## ADDED VALUE

Patria Group is an **international provider of defense, security and aviation life cycle support services and technology solutions**. We provide our customers with equipment availability, continuous performance development, selected intelligence, surveillance, management system products and services. Patria's mission is to give its customers confidence in all conditions.

## RANGE OF PRODUCTS

- Patria Group **Products** (Armored wheeled vehicle, Mortar systems, Airborne & Naval solutions, C5iStar.
- Patria Group **Services** (Strategic Defense Partnership Concept, Helicopter Life Cycle Support, Engine Life Cycle Support, **F100-PW jet engine MRO (Patria BEC specific)**, Aircraft Life Cycle Support, Land Forces Life Cycle Support, Systems & System Integration, Aerostructures, Professional Pilot Training.

## CERTIFICATION

Patria BEC: AS/EN 9110 (FR21/81843874), BE.BMAR.145.101 and MAA-NLD A-145-048 accreditations, US Air Force approved

# PIX COATING

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## COMPANY BACKGROUND

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PIX COATING has over 35 years' experience in the painting and coating industry. The company works mainly for 3 sectors: aeronautics, aerospace and defense, PIX COATING has numerous qualifications and works to the highest specifications and quality standards.

## RANGE OF PRODUCTS

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RESSUAGE/NDT- SURFACE TREATMENTS (Anodising, chromating, passivation, metal plating) - HIGH PRECISION PAINTING (Management of complex specifications & expertise in surface finishing) - COMPOSITE SURFACE FINISHES (Carbon fiber/glass & new composite materials) - SANDBLASTING/MICROBLASTING - ANTI-CORROSION TREATMENTS (FROSIO - level 3) - POWDERING

## MAIN REFERENCES

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Thales – John Cockerill – Eca Group – Amos – Aerospacelab – FN Herstal – Emerson

## CERTIFICATION

---

ISO 9001 – EN 9100

# PRINTING INTERNATIONAL

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## COMPANY BACKGROUND

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LESCAV (member of Printing International Group) specialises in industrial silicone masking solutions to cover certain areas of components being treated with thermal spraying processes like HVOF, HVOF and plasma.

## ADDED VALUE

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We believe in and we stand for dialogue and open communication between entities. Our R&D and engineering departments offer creative, customised solutions to the challenges you face. Thanks to a particularly close collaboration with our partners, we are able to take on board all the details of both the components you wish to treat and the techniques you're using in order to achieve your goal.

## RANGE OF PRODUCTS

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silicone protection masks, silicone parts

## CERTIFICATION

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Belgisch Centrum voor Certificatie NV, NBN EN ISO 9001:2015, "Design, production, sale and maintenance of pad printing machines, accessories, consumables and derivative products and services", certificate number 677433322, date of issue: 13 th September 2022, expiry date: 12 th September 2025

# PROSUITE

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› Patrick **DE JAEGER**, CEO  
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## COMPANY BACKGROUND

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De Jaeger automation BV is a software company that is already more than 20 years active in the assembly industry. We have consolidated all of our experience into our ProSuite product that helps all manufacturers with highly customisable low volume products to reduce the cost of non-quality.

## ADDED VALUE

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Our ProSuite software makes the transition into Industry 4.0 easy. Process engineers can now configure the whole process into the ProSuite software and guarantee the quality of the assembly process. So no coding is needed, all kind of devices can be connected out of the box. Low risk, highly configurable, compatible with all smart tightening tools on the market, cost reduction and assisting operators to deal with product complexity are our main advantages

## RANGE OF PRODUCTS

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Scalable SAAS solution from a standalone workstations to fully integrated systems with SAP/MES/...

Basic ProSuite® Modules are ProTrac™ and ProTight™ with optional ProCollect

Enterprise modules: ProSuite Manager and Dashboard and reporting server

## MAIN REFERENCES

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Ariane group, Collins aerospace, GE, Nexter, Safran, Williams international, Volvo Cars, Nissan, Isuzu, Caterpillar, Perkins, Komatsu, Case New Holland, Atlas Copco Airpower, Komatsu, Vertiv, Staubli, Parker,...

## CERTIFICATION

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ISO9001:2015

# REDWIRE SPACE

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› Frank **PREUD'HOMME**, Sales & Business Development Director  
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## COMPANY BACKGROUND

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Redwire Space is accelerating humanity's expansion into space by delivering reliable, economical, and sustainable infrastructure for future generations.

## ADDED VALUE

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Decades of flight heritage and innovation of world-class technologies combined with our mission success and focus on customer satisfaction have positioned Redwire Space as a leader in advancing the future of space infrastructure.

## RANGE OF PRODUCTS

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- Satellites and major satellite equipment including: platforms, on-board computers, power control and distribution units, and remote terminal units.
- Sophisticated science instruments and life support systems to enable long-term crewed missions.
- IBDM: the International Berthing and Docking Mechanism.

## MAIN REFERENCES

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ESA – European Space Agency

## CERTIFICATION

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EN9100

# ROADFOUR

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## COMPANY BACKGROUND

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ROADFOUR company is the Original Equipment Manufacturer (OEM) that is developing the new amphibious aerial firefighter Seagle.

## ADDED VALUE

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The Seagle is the result of a collaboration between experienced aircraft engineers, firefighting experts, pilots and aviation specialists from different countries worldwide.

The Seagle will help us protect our planet and reduce carbon emissions by extinguishing wildfires in Europe and abroad.

The aircraft will be the first water bomber in its segment to be designed and built on European soil.

## RANGE OF PRODUCTS

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The Seagle is the next generation, large capacity and amphibious aerial firefighting aircraft.

The entirely new “build for purpose” design of the Seagle has an optimized shape and the latest features to focus on fighting megafires, including:

- 12000L payload capacity & dosed waterdrop
- Double 5000hP engine system
- 360° cockpit
- Retractable landing gear
- Composite structure
- Advanced avionics

## MAIN REFERENCES

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Under development

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Dellestraat, 54

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## COMPANY BACKGROUND

Sabca Group is present in the three Belgian regions (Brussels-Capital Region, Louvain la Neuve – Sabca Technologies – in Wallonia and Lummen in Flanders) and in Casablanca, Morocco.

## ADDED VALUE

Sabca offers a full range of services to the civil, space and military aviation markets and has recently expanded into the commercial autonomous unmanned systems market as an aerospace solutions integrator for the industry.

## RANGE OF PRODUCTS

Sabca has a wide range of competencies, developed during its 100 years of experience in the design, construction, and assembly of integrated metallic and composite aerostructures as well as the development, manufacture and support of actuators for flight control systems.

Sabca's Structural and Mechatronics Engineering offices are responsible for most of the new programs. Its workshops are equipped with modern machines that produce complex metallic and composite assemblies for aircraft and space launchers and advanced Thrust Vectoring Systems for space launchers.

Its customers and partners are among the elite of the aerospace industry. By bringing end-to-end solutions to their customers, Sabca has an important role in different critical structures and components of flying platforms.

## MAIN REFERENCES

Sabca is part of Orizio Group, a unique industrial ecosystem focusing on the sustainable development of the aerospace industry by uniting agile, forward looking and high-tech companies. Find more informations: [sabca.be](http://sabca.be)

# SABENA ENGINEERING

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- › Vincent **MONBORGNE**, Director of Corporate and Strategic Development  
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## COMPANY BACKGROUND

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Sabena Engineering is an international MRO provider offering sustainable maintenance and engineering solutions to the Commercial Aviation and Government/Defense markets.

## ADDED VALUE

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Sabena Engineering relies on nearly 100 years of experience and the expertise of more than 900 employees operating from 15 countries in Europe, the Middle East and Africa to serve airlines, government and air forces worldwide. On-time reliability, agility, passion and an ever-growing aircraft expertise are part of Sabena Engineering's commitment to customers, and are translated into the company's stated promise: "Keep on Flying, We Take Care."

## RANGE OF PRODUCTS

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The activities of Sabena Engineering included Line & Base Maintenance; Aerostructure & Components Repair, CAMO & Engineering; Design & Manufacturing, Engine Services and a Maintenance Control Center offering 24/7 support all around the world.

## MAIN REFERENCES

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Sabena Engineering is part of Orizio Group, a unique industrial ecosystem focusing on the sustainable development of the aerospace industry by uniting agile, forward looking and high-tech companies. Find more information on [www.sabena-engineering.com](http://www.sabena-engineering.com)

## CERTIFICATION

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EASA/FAA approved

# SAFRAN AERO BOOSTERS

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## COMPANY BACKGROUND

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Safran Aero Boosters designs, develops and produces low-pressure compressors, as well as equipment and test cells for aircraft and rocket engines. The company equips most current commercial airplanes, as well as Europe's Ariane launch vehicle. Based in Liège (Belgium), Safran Aero Boosters has two subsidiaries in the United States and employs 1,600 people.

## ADDED VALUE

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Safran Aero Boosters invests into researching and developing breakthrough technologies for its products and, as a partner to engine manufacturers, provides solutions to meet the main challenges of the aerospace industry. Boasting state-of-the-art industrial facilities, Safran Aero Boosters has invested in automated robotics equipment and flexible manufacturing systems on its production lines, using Closed Door Machining operations.

## RANGE OF PRODUCTS

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- Low-pressure compressors and oil systems for aircraft engines
- Test Cells for aircraft engines
- Space equipment

## CERTIFICATION

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

# SAMI ENGINEERING

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# SENSY LOAD CELLS

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› Serge **SENDROWICZ**, CEO  
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## COMPANY BACKGROUND

SENSY LOAD CELLS is a Belgian manufacturer of standard and custom-made load cells, load pins, force and torque transducers, established in 1985. Our products are exported in more than 80 countries. We design them for all industrial sectors, including the most demanding ones, such as the aerospace and aeronautics.

## ADDED VALUE

Our added value consists in our ability to design custom-made sensors that meet all expectations and requirements of our customers, but also in the safety, precision and reliability of our products. These are ensured thanks to our long experience in the use of steel or aluminum products (aerospace quality), but also thanks to the 100% monitoring of our manufacturing processes.

## RANGE OF PRODUCTS

We are used to working for the aeronautics and aerospace sectors. Here are some applications examples of our standard and custom-made sensors: stabiliser propulsion, fatigue simulations, multi-axis measurement of force and torque for wind-tunnel testing, dual instrumentation design for turbulence, force and torque actuators measurement, testing and embedded systems, ...

## MAIN REFERENCES

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

## CERTIFICATION

ISO 9001:2015, certificate n°150575 valid until May, 29 2026, certified by SIRÀ

Load cells manufactured according to EN9100 / ATEX, IECEX and CSA certified products and quality system

# SEPARTECH

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## COMPANY BACKGROUND

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Based on almost 20 years of experience in sieve manufacturing technology and industrial machinery, SEPARTECH is the specialist in sieving processes. The representation in Wallonia and Luxembourg of BFM Global Ltd products has completed the activity since 2018.

## ADDED VALUE

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Our values lie in service, responsiveness, know-how and proximity. Thanks to our large stock of canvases, fast manufacture of sieves and spare parts all brands.

## RANGE OF PRODUCTS

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Production of sieving machines

Sieve manufacturing and fast delivery of spare parts

Performance analysis and optimization of your vibrating sieve

On-site installation and replacement of spare parts and sieves

## CERTIFICATION

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ATEX

EC1935

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## COMPANY BACKGROUND

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Sichem is a start-up founded in 2022 (a spin-off from its parent company) specialized in research and development of innovative coatings for various industrial applications such as health (Nobacoat), energy, hydrogen as well as all areas of sustainability.

## ADDED VALUE

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Sichem stands out by offering high-quality coatings that meet the specific requirements of its customers in terms of wear resistance, adhesion, and durability. The company invests in research and development of new technologies to stay at the forefront of innovation. Close collaboration with customers enables expert advice to be offered to meet the specific needs of each client.

## RANGE OF PRODUCTS

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Sichem offers a range of coating products for the hydrogen, energy, health, and sustainability sectors. These products include corrosion protection coatings as well as at high temperature (turbines), barrier coatings for anti-diffusion of the H<sub>2</sub> for its production, storage and transport; antibacterial and antiviral coatings for any substrates with high durability, and wear-resistant (mechanical and chemical resistance at high temperature) coatings (PEEK).

## MAIN REFERENCES

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BASF, Howden, John Cockerill, Borealis, Mitsubishi,...

## CERTIFICATION

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ISO22196, ISO 21702, l'Anses: le numéro d'inventaire 67771, Article 89 of BPR in conjunction with § 28 (8) of the German Chemicals Act

# SOBELCOMP

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## COMPANY BACKGROUND

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Sobelcomp designs and manufactures composite parts from the prototype to the series, and also remarkable single part. For industrial customers in Belgium or neighboring regions.

Our customers are looking for solutions to improve their parts in terms of weight, design, reproducibility, multi-functional integration or even cost reduction.

## ADDED VALUE

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Meeting customer's requirements by adapting production processes in the best cost-quality-time balance, by optimization his composites parts through a project-oriented organization. We have 4 methods of production, painting and machining by robot located in our 2 plants in Belgium.

## RANGE OF PRODUCTS

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Defense, industry & leisure. Volume: from 0.3 m x 0.3 m up to 8 m x 4 m. We have small (1 a year), medium and large series (1200 a year).

## MAIN REFERENCES

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see our website [www.sobelcomp.be](http://www.sobelcomp.be)

## CERTIFICATION

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ISO9001 & EN9100

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- › Amandine **MEERSSEMAN**, Responsable communication  
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## COMPANY BACKGROUND

Sonaca is one of the world leaders in development, manufacturing, assembly and detailed parts supply within the aeronautical sector. Its core competencies are spread within civil, military and space markets. Lastly its 3,600 employees work from 6 different countries to serve major OEMs and super tier-ones.

## ADDED VALUE

Sonaca has a long-lasting outstanding track record in design & built and built to print, together combined with one-stop shop industrial capabilities specialized in metallic and composite supplies. Widely recognized by its customers for its best-in-class performances, Sonaca has engaged significant investments to reach 4.0 industry while materializing sustainable transformation towards decarbonation. To pursue its ambitions, Sonaca has also significantly invested to diversify its activities, in particular through urban air mobility and high value integrated systems.

## RANGE OF PRODUCTS

Sonaca has unique capabilities in machining, stretch forming, metal bonding with regards to small and large parts for both soft and hard metal in various locations. Sonaca is also a world class composites manufacturer with advanced out of autoclave and automatic tape laying facilities as well as traditional hand lay-up in best cost locations.

## MAIN REFERENCES

We are proud to serve our long-lasting customers such as Boeing, Airbus, Bombardier, Embraer, Gulfstream, Dassault aviation, Pilatus, Airbus Atlantic, Lockheed Martin, Sikorsky, Airbus Military, Spirit, Mitsubishi.

## CERTIFICATION

ISO 9001:2018, EN 9100:2018, AS 9100:D & ISO 14001:2015; NADCAP (Heat Treatment, NDT, Composite Bonding & Chemical Milling); EASA Part 21 Subpart G, EASA Part 145, FAA Part 145

# SPACEBEL

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

## COMPANY BACKGROUND

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SPACEBEL is a systems and software engineering company operating in the Space and Earth monitoring applications 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

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Being able to offer expertise in many aspects of the Space business, from Space infrastructure 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 infrastructure, and the study of complete mini-satellite systems.

## RANGE OF PRODUCTS

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- On board software systems for satellites and Space vehicles
- Satellite simulation & modelling systems
- Ground systems for control and mission centres
- Space data access management & applications
- Earth observation mini-satellite solutions

## MAIN REFERENCES

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Over 50 Space Missions! CSO, Proba-1, Proba-2, Proba-V, Proba-3, Ariane5, Vega, Galileo, Columbus, ERA, Euclid, Gaia, Smart, Rosetta, Space Weather, SmallGEO, SAT-AIS, HERA, Altius, Space Rider, SWOT, EarthCARE, Smos, ...

## CERTIFICATION

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ISO 9001 – 2015

# STEP G - SANKYO TATEYAMA EUROPE BV

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## COMPANY BACKGROUND

ST Extruded Products Group is a global manufacturer of Extruded Aluminium Profiles and Cast Billets. STEP-G has a global footprint with production facilities in Germany, Belgium and China. We are highly qualified and offer a comprehensive range of profiles, rods and bars as well as further fabrication and added value options. Our high quality has earned a vast range of approvals for the Aerospace and Automotive Industries. Also covering their direct suppliers and other branches.

Our Duffel plant specialises in HARD ALLOY production for a range of HI -Tech markets worldwide covering the Aerospace, Automotive, Transport and many other niche market areas.

## RANGE OF PRODUCTS

Our plant in Duffel manufactures and supplies a range of high-quality rods, bars and solid shapes for complex applications for many Industries. We offer alloys 2014, 2024, 2219, 2618A, 6061, 6082, 7022, 7049, 7050, 7075/7175, 7068 and others on application. These are pressed on our 50MN indirect extrusion press. Additionally, we provide high added value 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

# STRAIN 2 DATA

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## COMPANY BACKGROUND

Introducing Strain 2 Data - the leading manufacturer of high-quality strain sensors that are designed to meet the most demanding industrial needs. Our cutting-edge technology and precision engineering allow us to deliver strain sensors that provide the most accurate and reliable data for NDT, predictive maintenance and destructive testing.

## ADDED VALUE

At Strain 2 Data, we understand that the reliability of data is paramount in today's fast-paced industrial landscape. That's why we have developed a range of strain sensors that are designed to deliver the most accurate and consistent data in even the toughest environments.

## RANGE OF PRODUCTS

Our strain sensors are made using the highest quality materials and are rigorously tested to ensure they meet our stringent quality standards. Whether you need to measure strain in a simple application or a complex one, Strain 2 Data has the right sensor for you.

Our strain sensors are easy to install and integrate seamlessly with your existing systems. And with our exceptional customer support, you can rest assured that you'll receive the help you need whenever you need it.

So why choose Strain 2 Data? Because we are committed to delivering the most reliable and accurate strain sensors and data acquisition on the market. With our sensors, you can be confident that you're getting the data you need to make informed decisions and improve your processes.

Contact us today to learn more about our range of strain sensors and how we can help you take your industrial processes to the next level.

# SUB-ALLIANCE

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► Caroline **COLARD**, Marketing & PR

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## COMPANY BACKGROUND

Established since 1950 in Mouscron, SUB-ALLIANCE is specialized in advanced mechanical systems. Our enterprise symbolizes the affiliation of four companies: Feronyl, Dedecker Precision Mechanics - DPM, Tecnolon Works - TW and Grimonprez Transmission Gears - GTG. Each division enables a unique synergy between development and manufacturing of polymers, composites, metals and transmissions. Our applications are intended for high precision areas on earth, on sea and in air & space.

## ADDED VALUE

Our companies provide the highest expertise. To enhance your product performances, we offer 5 steps: advanced materials research, lightweight composite design, fast processes development and compliance with the highest quality standards (EN-9100). In addition, we produce various aerospace and defense applications within short lead-times at fair prices.

## RANGE OF PRODUCTS

SUB-ALLIANCE regroups the industrial engineering and manufacturing capacities of 4 business units:

- Feronyl is specialized in the manufacturing of lightweight thermoplastic composites and injection molded components. We manufacture the most technical polymers (PEEK, PAEK, PEI, PPS, PPSU, PSU, PA), metal alloys (MIM), ceramics (CIM) and composite parts. The company targets cost-reduction by advanced in-house thermoplastic

composites, high production rates within tight tolerances and technical materials.

- Dedecker Precision Mechanics, DPM, is specialized in bar turning and super finishing of mechanical parts: automatic turning of metals and polymers, milling, grinding, honing and treatment. It has a high production rates and in-house thermal processes. DPM is the expert in Al, SS and Ti aero parts.
- Tecnolon Works is specialized in the manufacturing of tools and the machining of technical parts in metals, polymers and composites for aerospace and defense applications.
- Grimonprez Transmission Gears is specialized in the engineering and manufacturing of gears, transmission elements and gearboxes in small and medium volumes for rotary aircrafts.

## MAIN REFERENCES

Airbus A220 thermoplastic composites service panels; A350 A350 thermoplastic composites service panels; Leap thermoplastic engine components (turbine shroud); NH90, TTH90 and H145/H160 transmission and gears; Cockpit handles for Airbus, Bombardier, Embraer, Pilatus; Defense ammunition from 25 to 105mm; Slates and ribs for wing elements; High precision sensors for Aero applications; Cockpit & cabin thermoplastic elements; F-35 Belgian Industrial Program; Re-Entry shielding materials

## CERTIFICATION

EN 9100

# TECHNICAL AIRBORNE COMPONENTS INDUSTRIES

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TAC - TECHNICAL AIRBORNE COMPONENTS

## 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.

## CERTIFICATION

EN 9100 – ISO 14001 - NADCAP

# TECNOLON WORKS

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## COMPANY BACKGROUND

Established since 1950, Tecnolon Works is the tooling and CNC machining of complex technical parts expert. Later on, in 2012, the company became affiliated with three other companies to create a family owned cluster of advanced manufacturing capabilities in high precision areas: Sub-Alliance. Each division enables a unique synergy between development and manufacturing of polymers, composites, metals and transmissions. Its applications are intended for high precision areas on earth, on sea and in air & space.

## ADDED VALUE

Our companies provide the highest expertise. To enhance your product performances, we offer 5 steps: advanced materials research, lightweight composite design, fast processes development and compliance with the highest quality standards (EN-9100). In addition, we produce various aerospace and defense applications within short lead-times at fair prices.

## RANGE OF PRODUCTS

Tecnolon Works is specialized in the manufacturing of tools and the machining of technical parts in plastic, metals, polymers, copper, brass and titanium for aerospace and defense applications.

## MAIN REFERENCES

Airbus A220 thermoplastic composites service panels; A350 thermoplastic composites service panels; Leap thermoplastic engine components (turbine shroud); NH90, TTH90 and H145/H160 transmission and gears; Cockpit handles for Airbus, Bombardier, Embraer and Pilatus; Defense ammunition from 25 to 105mm; Slates and ribs for wing elements; High precision sensors for aero applications; Cockpit & cabin thermoplastic elements; F-35 Belgian Industrial Program; Re-Entry shielding materials

## CERTIFICATION

EN 9100

# TELESPAZIO BELGIUM

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## COMPANY BACKGROUND

Telespazio Belgium, a subsidiary of Telespazio Group, provides cutting-edge solutions and applications, engineering services, and R&D in the space domain, with more than 40 years of experience and uninterrupted collaboration with space agencies and satellite operators.

## ADDED VALUE

The core business of Telespazio Belgium has always been represented by carrying-out projects in Satellite Operations & Systems domain, in which it is now a reference in the EU industrial landscape. Over the years, it has progressively extended a range of value-added technical support services for ESA, EUSPA and Private actors, always carrying-out R&D projects and downstream applications domain.

## RANGE OF PRODUCTS

Telespazio Belgium is involved in a large number of projects aimed at improving space services in a wide range of domains: Satellite Systems & Operations (Services and applications in Navigation domain); Geo-Information (For agriculture, maritime traffic and disaster management) and Satellite Communication (Telecom. services, Space Security, Ground segment assets).

## CERTIFICATION

ISO 9001:2015

# THALES ALENIA SPACE BELGIUM

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## COMPANY BACKGROUND

Thales Alenia Space - a joint venture between Thales (67%) and Leonardo (33%) - is present on Belgian soil with three sites in Charleroi, Hasselt and Leuven. In Belgium, Thales Alenia Space is a key Electronics Competence Centers of Thales Alenia Space and a world leader in electrical energy onboard 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 plasma propulsion motors and travelling wave tubes. 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 launch 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, Turkmenalem, 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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**THALES**  
Building a future we can all trust

## COMPANY BACKGROUND

Thales is a long-standing partner of the Belgian armed forces, supplying tactical communication systems and a variety of onboard sensors for armored vehicles, ships, helicopters and UAVs.

For more than 20 years, the Group has been involved in NATO's program to upgrade its AWACS early warning and control aircraft, modernizing the communications systems as a Tier 1 supplier to Boeing.

Thales Belgium also designs, produces and supplies complete 2.75"/70mm rocket systems, qualifies and combat-proven on multiple airborne and land platforms.

## ADDED VALUE

- Long-standing provider of C4I solutions to the Belgian and Luxembourg armed forces
- Program partner on NATO's AWACS aircraft upgrade program for more than 20 years
- Thales radars and navigational aids (Nav aids) for all Belgian airports
- 70 mm/2.75" rocket system in service with more than 30 countries and on 300 platforms.

## RANGE OF PRODUCTS

- Airborne Intercommunication Systems, including the fully digital Voice over IP system 'MACS'
- C4ISR solutions
- Radars and navigational aids
- Thales 2.75"/70mm rocket system, including fire control systems, weapons and both guided and unguided ammunition for fire support and precise target engagement

## MAIN REFERENCES

NATO AWACS, USAF AWACS, FRENCH AWACS, P-8, AIR-FORCE ONE, MELTEM MARITIME PATROL,

Major NATO countries as well as non-NATO customers worldwide using Thales' rocket system

## CERTIFICATION

ISO9001, EN 9100, AS9100, AQAP2110, EMAR145, AS9115

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## COMPANY BACKGROUND

V2i was founded in 2004, after a four-year development phase as a spin-off of the University of Liege (LTAS: Laboratory of Aeronautics and Space Techniques). Since then, the V2i team has been growing continuously, participating in the most advanced industrial and R&D programs in aeronautics, space, defense, mechanics, and civil engineering.

## ADDED VALUE

At V2i we offer an all-in-one solution for all types of mechanical vibrations related simulations, measurements, certifications, and monitoring. Based on our experience and numerous R&D projects we are part of, we can correlate simulations with measurements on top of having various environmental testing capacities.

In addition to these services, we have developed our own tailor-made acquisition and monitoring systems that can meet any customer requirements for complex data acquisition and monitoring.

## RANGE OF PRODUCTS

Our mechanical vibrations expertise cover and combine:

- Numerical simulation #Simulate2Predict
- Engineering and prototyping measurements #Experiment2Validate
- Instrumentations of all mechanic-related sensors #Detect2discover
- Environmental testing #Test2certify
- Measurement, data collection and analysis onsite #Measure2monitor

And continuously grow to keep on providing our partners the best leading-edge vibration expertise.

## MAIN REFERENCES

Safran, Rolls-Royce, Thales, Ariane Group, SABCA, NanoAvionics, Sonaca, FN Herstal, John Cockerill, Alstom, Citius, Arcelor Mittal, ...

## CERTIFICATION

- ISO9001:2008
- ISO/IEC 17025:2017 flexible scope which allows us to conduct vibration testing under any vibration standards (we can certify your specifications!), such as: MIL-STD, RTCA, ISO60068, IEEE 344, ...
- Safran/Rolls-Royce

Certified LabView Developers / NI Alliance Partner

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## ► Pierre **SCHAAPS**, CEO

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## COMPANY BACKGROUND

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GROUPEMECA is a manufacturer of precision springs in wire and flat strip materials (compression, tension and torsion springs & induction coils according to drawing or customer samples) Mechanic welded assemblies and sub-assemblies. Tailor-made machining parts, finishing treatments.

Our engineering team is at your disposal for your new projects in research and development. Certified ISO 9001: 2015 and EN 9100: 2018. Accredited supplier for Aeronautics, Defense, Space and Automotive.

## ADDED VALUE

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

We are accredited supplier according to ISO 9001: 2015 and EN 9100: 2018 towards highly qualified customers in Defense, Aeronautics, Space and general industry (Automotive, Gaz, Connectics, ...).

## RANGE OF PRODUCTS

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GROUPEMECA 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, finishing treatments.

## MAIN REFERENCES

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Aeronautics: SAFRAN AERO BOOSTER; Defense: FABRIQUE NATIONALE GROUPE – DIEHL – MECAR – NEXTER - RHE-INMETALL; GAZ – CONNECTICS – AUTOMOTIVE - LIGHTING; ELECTRICAL APPLIANCES: SCHNEIDER ELECTRIC GROUP

## CERTIFICATION

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Our company is certified according to ISO 9001: 2015 and EN 9100: 2018 standards.

# VITO REMOTE SENSING

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## COMPANY BACKGROUND

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VITO is a leading European independent research & consultancy centre focusing on cleantech & sustainable development. VITO Remote Sensing develops state-of-the-art space & airborne EO systems (sensors & platforms, processing & distribution) that enable end-users to use reliable geo-information for Environment, Agriculture, Water&Coast, Infrastructure, Security & Climate.

## ADDED VALUE

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People, Planet & Profit benefit from objective geo-data. VITO's Remote Sensing unit makes worldwide, both for institutes like the EC & WFO, and for companies, a crucial contribution to the development of EO instruments & technologies. We play a primary role in collecting & processing raw EO data into objective information & insights, which we make available via platforms. Our experts search for the right approach for every need.

## RANGE OF PRODUCTS

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Raw data – end-to-end EO technology – operational image processing services – EO application development – value added services & information products – user and system requirements – instrument conceptual design – system performance modelling – radiometric and geomatic calibrations/validation and sensor calibration – HR imaging spectroscopy – instruments, platforms, missions

## MAIN REFERENCES

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

## CERTIFICATION

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ISO 9001, ISO 14001, ISO 45001

# VON KARMAN INSTITUTE FOR FLUID DYNAMICS



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## COMPANY BACKGROUND

The Institute is an international education and research center that is at the leading edge of fluid dynamics in aeronautics and aerospace, turbomachinery and propulsion, as well as environmental and industrial processes. Today, more than ever, VKI focuses on the study of complex dynamic flows.

## ADDED VALUE

It is one of the few places in the world where not only numerical simulations, but also extensive experimental research is carried out. VKI's unique expertise and scientific infrastructure (large range of facilities, some world-unique) is aimed and focused at studying and solving complex fluid dynamics problems.

## RANGE OF PRODUCTS

Motor: high speed transonic axial compressors, inlet design, ducts aerodynamics and related experimental testing; hydrogen propellant management system / Cel: high-lift devices, aeroacoustics footprint by new configurations, low observability by design, hypersonic design and wind tunnel testing / Space: hypersonic reentry, space debris, electric propulsion for VLEO satellites

## MAIN REFERENCES

Defence Innovation Accelerator for NATO, Ref. Lab ESA, Space Act Agreement with NASA, privileged partner of Safran, WINGS (Walloon Innovation for Green Skies), Clean Aviation, Clean Hydrogen projects

# WILL FILL

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## COMPANY BACKGROUND

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Will-Fill originates from the manufacturing company Dierickx-Tools, active in machining small series and prototypes of high-precision (metal) parts. Solving our own problems with maintaining coolant, we have developed the Will-Fill to fully automate monitoring and production of coolant for our machine tools.

## ADDED VALUE

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Due to complete coupling of measuring and refilling of the coolant for Machine Tools, the Will-Fill device offers stability of the coolant. This results in stable machining conditions and reduction of consumption of oil, water, energy and tooling; contributing to more sustainable manufacturing. Through a central software for all devices, graphs on the measurement data help to achieve traceability for every part.

## RANGE OF PRODUCTS

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The Will-Fill device is a modular system to accommodate any coolant and filtration unit. Variations in lengths for different tank depths, different production rates for small (single machines) or big (centralized tank for multiple machines) tanks and flexibility in the measuring options (only volume, concentration, temperature and consumption data, or also pH and hardness) can be freely chosen.

## MAIN REFERENCES

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Pratt & Whitney, Airbus, Safran, APN Global, JPB Système, GKN Aerospace (Fokker), Deharde, Tier-1 Airbus suppliers.

# USEFUL ADDRESSES IN FRANCE – WALLONIA

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## **Flanders Investment & Trade**

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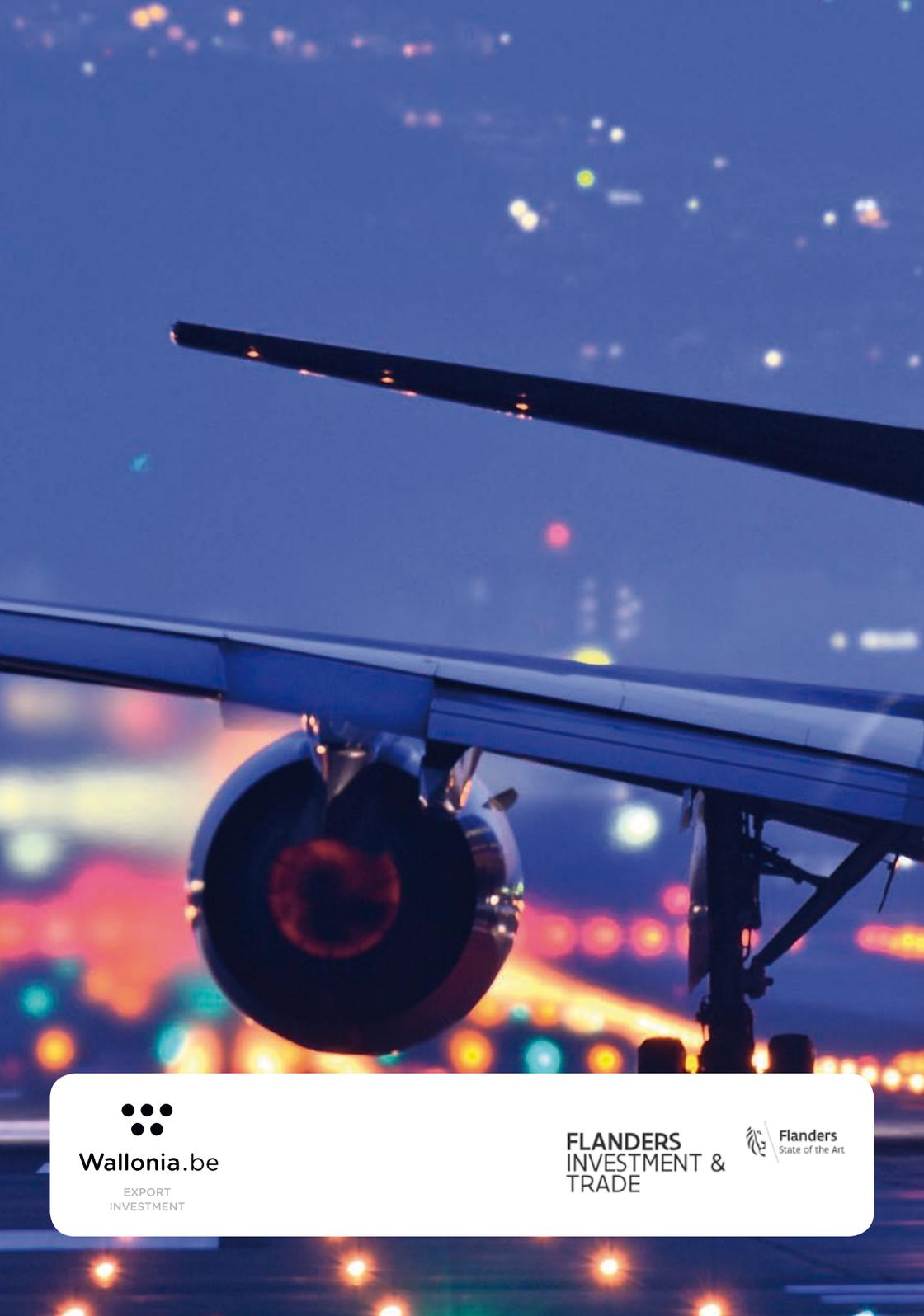
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Wallonia.be

EXPORT  
INVESTMENT

FLANDERS  
INVESTMENT &  
TRADE



Flanders  
State of the Art

# BEBLUE CRYOTECH



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## COMPANY BACKGROUND

«BEBLUE is a spin off of the cryotech-  
nic test centre of the University of Lie-  
ge. With more than 30 years of exper-  
tise in cryogenic fluids, BEBLUE is one  
of the 4 recognized ESA test centre.  
We are proposing  
engineering & testing capabilities with  
cryogenic fluids, namely Hydrogen,  
Oxygen and Nitrogen both liquid or ga-  
seous. From material characterization  
under cryogenic environment to com-  
plex components and systems testing  
in real conditions including dynamic  
behaviour, BEBLUE is able to support  
customer development. Our enginee-  
ring expertise is also proposed to test  
rig design, integration and manage-  
ment.»

## ADDED VALUE

From material characterization un-  
der cryogenic environment to com-  
plex components and systems testing  
in real conditions including dynamic

behaviour, BEBLUE is able to support  
customer development. Our enginee-  
ring expertise is also proposed to test  
rig design, integration and manage-  
ment.

## RANGE OF PRODUCTS

BEBLUE is able to test; characterize and  
bring engineering support in cryogenic  
environment.

- Material Characterization under cryogenic environment
- Complex components & Systems testing
- Engineering
- Test rig design & management

## MAIN REFERENCES

ArianeGroup, Safran, Avio, ESA, CNES,  
JAXA, DARK

## CERTIFICATION

BEBLUE is under ISO-10725 process  
for activities .

# D-Carbonize



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## **COMPANY BACKGROUND**

The Carbon Cockpit, our proprietary CO2 management tool, measures and reduces greenhouse gas (CO2e) emissions from companies.

We currently have under management a total of 5 million tCO2 emissions, which is equivalent to the emissions of a developing country.

With our product, companies can expect to reduce their footprint by 30% minimum by 2030.

## **ADDED VALUE**

The Carbon Cockpit has the precision of a carbon auditing tool and the user-friendliness of an online app. It allows a multi-site company to drill down on site-specific total CO2-equivalent emissions. The Carbon Cockpit also enables companies to track CO2 emissions related to their products through product life-cycle analysis. The Carbon Cockpit supports 5 languages.

## **RANGE OF PRODUCTS**

Our proprietary solution, the Carbon Cockpit, allows companies to measure their carbon footprint and track the progress of their carbon reduction strategies.

We also provide advisory services to support our customers implementing an end-to-end carbon strategy.

## **MAIN REFERENCES**

Alstom, Aisin, Icoms, BIA, Crowell, Oniryx, InvestBW, Metron, CMS, Golden Palace, Alcogroup...

## **CERTIFICATION**

Carbon Account Norms: GHG Protocol, Ademe's Bilan Carbone®, ISO 14064, and GRI 305

Labels: Solar Impulse Efficient Solution, and Early Metrics Top 20