FRENCH AEROSPACE & DEFENSE INDUSTRY:

ILA BERLIN

INNOVATION AND LEADERSHIP IN AEROSPACE

25th to 29th of April 2018
in HALL 2 HALL 6

Participating companies

French Aerospace, Defence and Security Industry
“France and GIFAS are proud to develop and strengthen our bonds with India through this mission, as our country and industries are clearly committed to encouraging the “Make in India” initiative. We are glad to contribute to buttressing the strategic partnership between India and France”.

With more than 390 members, GIFAS is a professional body which brings together the main French aviation, space, defense and security players.

**Our main objectives:**
- Represent and coordinate the industry’s activities.
- Analyse and defend members’ interests (trade – standardization – environment, etc.).
- Promote our aerospace excellence.

Since 1909, GIFAS and the French industry organize, every two years, the International Paris Air Show:

**Le Bourget – Paris Air Show**
The world’s largest and longest-running aerospace event
53rd Paris Air Show will be held from June 17th to 23rd, 2019
GIFAS (Groupement des Industries Françaises Aéronautiques et Spatiales), the French Aerospace Industries Association, is an industry body formed in 1908, that brings together some 400 companies ranging from the main prime contractors and system suppliers to SMEs that together form a cohesive, supportive and hard-driving high-technology sector specializing in the design, development, construction, marketing and maintenance of all aeronautical and space programmes and equipment, both civilian and military, as well as defence and security systems – planes, helicopters, drones, engines, devices and missiles, satellites and space launchers, major systems and equipment.

- **2016 revenues:** €60,4 bn
- **2016 total orders:** €73,1 bn
- **+5 years secured backlog**
- **86% to export (consolidated revenues)**
- **77% to export**
- **187 000 people (total employed in France by GIFAS members)**
- **Trade surplus in 2016:** €18,6 bn

[Links: www.gifas.fr, @GifasOfficiel]
AERIADES is the AEROSPACE and DEFENCE cluster of the french GRAND EST Region (Alsace - Champagne Ardenne - Lorraine)
Our 65 members are covering a wide field of activities in industry - research - education, and are serving major OEM's in France and Europe, on all major aerospace and defence programs
GRAND EST is located in the heart of Europe, bordering Belgium, Luxemburg, Germany and Switzerland

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In 2017, Daher had a turnover of 1.2 billion euros, affirming its leadership in three domains: aircraft manufacturing, aerospace equipment and systems, and logistics and services.

Building on the strength of its family shareholding, Daher has been committed to innovation since its creation in 1863. With operations in 11 countries, it has established itself as a key player in Industry 4.0, designing and developing solutions that bring significant added value to its industry partners.

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With over 10,000 military and civil aircraft delivered in more than 90 countries over the last century, Dassault Aviation has built up expertise recognized worldwide in the design, development, sale and support of all types of aircraft, ranging from the Rafale fighter, to the high-end Falcon family of business jets and military drones. This unique experience has allowed Dassault Aviation to propose innovative operational solutions as well as a pragmatic and dynamic approach to cooperation. Thanks to a deep understanding of industrial partnerships, Dassault Aviation has established a wide network with other companies to optimize the success of today’s programmes but also to contribute to the synergy of tomorrow’s European defence Industry.
MAIN ACTIVITY:
High performance plastics molding by injection or compression.

ANNUAL TURNOVER (in €M): 7

Located in Ézy-sur-Eure (Normandie, France) the Delta Plasturgy group has specialised know-how in technical parts with a demand for high performance in:
• Injection of thermoplastic materials with or without inserts.
• Compression or transfer of thermosetting materials with or without inserts.
Delta Plasturgy has 60 staff at its manufacturing site Joly Plastics SAS, located in Ezy sur Eure (Normandy, France)
The Direction générale de l’armement (DGA) is the entity of the French Ministry for the Armed Forces, in charge of leading the national armament programs, equipment programs as well as research programs. DGA takes the lead on complex projects, with crucial technological and industrial stakes.

On the French pavilion, DGA displays future French and European defense systems through innovation and high technology.

CONTACT - Tactical digital communications – for a better connection and interoperability of the forces engaged in national or international operations.

For future European UAV’s, LISA HD, a world first innovation, guarantees high performance communications. DGA also prepares the future air combat system by exploring major technological fields such as artificial intelligence, cognitive sensors, virtual reality, connected equipment and stealth material.
Elvia PCB Group is the largest European supplier of Printed Circuit Boards for the Aerospace and Defense application segments. From HDI Rigid and Flex Rigid technologies, Microwave and Radar technologies, to Space grade PCBs. MIL PRF Standards products, EN/AS9100 AQAP MIL 2120 & NADCAP certifications, ECSS ESA certified PCBs

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FACTEM is specialized in electro-acoustics. FACTEM designs, develops and manufactures transducers (microphones, speakers cells), headsets (military and commercial).

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MAIN ACTIVITY:
ENGINEERING, INTEGRATION, PRODUCTION SUPPORT & MAINTENANCE

ANNUAL TURNOVER (in €M): 411

Groupe ADF, a leading provider of industrial engineering and maintenance services, employs 3,900 people in 13 countries, across 4 continents. Specialising in three business lines – engineering & expertise, the supply of production and testing equipment, and production & maintenance services – Groupe ADF serves the Aeronautics, Space & Defense – Industry – Energies – Oil & Gas sectors.

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With more than 160 years of elastomere experience, Hutchinson is a global supplier for the aerospace market in 4 activities: material and structure, vibration control systems, fluid management systems and sealing systems.
Within the activity Sealing Systems, Hutchinson JPR is a world leader supplier of sealing solutions for the aerospace industry.
Based in Amiens, France, Hutchinson JPR provide sealing solutions made from reinforced parts (silicone and fiber), moulded parts (compression and injection) and extrusions parts, as well as "sealing integrated" solutions such as radom for wifi-on-board, cover plates for passenger doors etc.
JACQUES DUBOIS designs and manufactures EMI/RFI shielding products and services (electromagnetic / radiofrequency interferences) specifically for the aeronautics, space and defense markets. JACQUES DUBOIS’s EMI/RFI shielding products and services include: knitted gaskets, cable shielding, conductive elastomers conductive glues and paints, shielded vents, architectural shielding solutions, EMI windows, RF & microwave absorbers, contact strips, conductive adhesives, sealing and conductive gaskets, RFID shielding solutions and thermal management materials.

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MAIN ACTIVITY:
CABLE HARNESSSES FOR AERONAUTICS, SPACE AND DEFENSE // FUSELAGE SECTIONS AND DOORS

ANNUAL TURNOVER (in €M) : 655.0 Mio € (2016)

LATECOERE is a leading group of first tier suppliers to the big OEMs in aeronautics and space. Being already 100 years in aerospace we divide into two divisions: Aero Structures and Interconnection Systems.

LATECOERE Interconnection is one of the largest providers in design, route optimization, manufacturing and installation of cable harnesses in aeronautics and space, worldwide. In addition, we support defense applications with our high quality and harsh environmental harnesses.

LATECOERE Aero Structures is the leading provider for fuselage sections and doors in aeronautics. Built our own aircrafts from 1917 until late 1950-ies, we are the biggest independent doors manufacturer worldwide. We provide the NextGeneration Door.

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French Aerospace, Defense and Security Industry
MAIN ACTIVITY:
SUPPLIER OF HIGH PRECISION MECHANICAL SUBASSEMBLY

ANNUAL TURNOVER (in €M): 130

We have a long-standing commercial relationship with major players of the aerospace and defense industry. We manufacture, assemble and commercialize sheet-metal parts for leading industrial clients with complete control of the production cycle (supplies, production, assembly and testing). We also designs and applies technical dry coating solutions. We masters several different processes such as liquid and powder manual and automatic projection, tempered-centrifuged, thermal spraying, plating. Our main clients include SAFRAN, ZODIAC, NEXTER, LIEBHERR, DASSAULT, THALES, SAFRAN, BOMBARDIER. We have many industry certifications like EN9100 and NADCAP.

We are positioned on most of the future programs such as the A320 Neo, the A350 or B787.

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MEGA-P is a French company specialized in mechanical engineering. MEGA-P provides tailored machined parts, assemblies, sub-assemblies and industrial tooling for critical missions in complex domains: energies, naval defense, aerospace, offshore oil & gaz, nuclear medicine...

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In-house conception office
Parts, assemblies and industrial tooling
Milling: 3250x1600x1200
Normandie AeroEspace (NAE) is the Normandy's network for the aerospace, defense and security industries working on the major projects of tomorrow. The NAE network currently represents 142 members: 16 major industrial groups, 4 airports, a military base, 78 small and medium-sized firms and 3 start-ups, 24 research laboratories and 16 higher education institutions. The sector weights 20,000 employees in total, with a turnover of 3 billion Euros in 2017.

NAE exhibits for the first time with 7 companies: Elvia PCB, Mega-P, Volum-e, Solcera, Factem, Delta Plasturgy and Jacques Dubois.

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NCSIMUL SOLUTIONS enables a flexible and automated digital CNC process based on a bidirectional data management, including the following modules:

NCSIMUL MACHINE: High-speed NC simulation for absolutely collision-free NC programs and reduced set-up times.

NCSIMUL OPTITOOL: Tool path optimization for a faster machining time by 20% on average.

NCSIMUL 4CAM: Automatic conversion of NC programs to a different target machine with a few clicks - also with different kinematics and control and without manual reprogramming. The results: faster implementation of new machines and flexible part processing.

NCSIMUL TOOL: Digital tool management with an own integrated 3D kernel and predefined master models according to DIN and ISO standards.

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Germany

www.ncsimul.com

“Nicomatic is today teasing the market with the DLMM: A shielded metalized composite solution, lightweight and cost effective. Compliant with the harsh requirements of MIL-DTL-83513G, you will be able to get your DLMM, even the combo ones (mixed layout), in 3 weeks without mini- mum order quantity, thanks to deep skills in composite materials.”

1.27 mm pitch Miniaturized and Rugged Nicomatic SA is pleased to introduce its new micro connector, the EMM. With its 1.27 mm pitch, it achieves extra weight and space reduction to meet your miniaturization needs in the most extreme environments. Designed to meet the performance requirements of MIL 83513, the new EMM is the perfect solution for your equipment. With key features such as reversed contacts, integrated 90° back protection and interchangeable hardware, the new EMM range combines rugged design with enhanced electrical and environmental performance.

Microflex™ interconnection is a flat cable harness with screw fixing for high vibration environment. This jumper mates with CMM 220 connector for high mechanical resistance. This solution has been tested to meet MIL-DTL-55302F performances. 3 versions are available Female-Female, solderpin-female and octopus multi branches.

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For over 10 years, NOVAE AEROSPACE has developed a complete offer for production and repair of complex aerostructures capitalizing on its 80 years industrial heritage of building aircraft in addition to an efficient service offer in engineering, manufacturing and maintenance in operational conditions of equipment as well as civilian and military aircraft. The company employs close to 450 qualified staff throughout its factories present in Reims (France) and Romania, as well as its offices in France, Morocco and the United Arab Emirates in its three branches: NOVAE AEROSPACE Industry, NOVAE AEROSPACE Romania, NOVAE AEROSPACE Services. NOVAE AEROSPACE --> an integrated industrial & services Group

Quality approvals : ISO/EN 9100 - PART 21 - PART/FAR 145 - TCCA

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French Aerospace, Defense and Security Industry
Préci3D is specialised in highly precise mechanical part for aeronautic industry. We are covering a wide range of applications for engine parts specially for military program such as Rafale, Mirage 2000.
Our core business: from drawings to ready-to-use parts. We are taking care of complex operations including subcontracting heat treatment, surface treatment NDT...

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French Aerospace, Defense and Security Industry
RAFAUT is a French family company, dedicated to aeronautical mechanics, both for military and civilian aircraft. For over fifty years, RAFAUT acts as a prime contractor, on behalf of the French Ministry of Defense, for the design, the manufacturing and the maintenance of ejectors, pylons and multiple bomb racks. It is ready both to deliver COTS products, including transfer of production, or to cooperate to new studies and share its technology assets. Most of its military equipment are in operational service and are combat proven, under various aircraft. On the other hand, RAFAUT acts as a first tier supplier to companies such as Airbus Group (airplanes and helicopters), for the manufacturing of flight controls and rotor brakes.

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Main Activity:
Aerospace & Defense

Annual Turnover (in €M): 16.5 billion euros

Safran is an international high-technology group, operating in the aircraft propulsion and equipment, space and defense markets. Safran has a global presence, with more than 58,000 employees worldwide, and logged sales of 16.5 billion euros in 2017. Comprising a number of companies, Safran holds, alone or in partnership, world or European leadership positions in its markets. Safran undertakes extensive Research & Development programs to keep pace with its fast-evolving markets, including expenditures of 1.4 billion euros in 2017. In February 2018, Safran took control of Zodiac Aerospace, significantly expanding its aircraft equipment activities. Zodiac Aerospace has 32,500 employees and generated sales of 5.1 billion euros for its fiscal year ended August 31, 2017.

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SkyNaute, a new-generation family of aircraft navigation systems (Christophe Viseux/CAPA Pictures/Safran)
The French industrial group Finaero adopts the name Satys to link its activities, divided into four business units:

- **Satys Sealing & Painting** (formerly STTS): aircraft painting & sealing, aerostructures & railway equipment.
- **Satys Interiors** (formerly AIP, AIT and SMTC): design and production of railway and aircraft interiors.
- **Satys Electric** (formerly CIEE Interconnect): wiring and cable assemblies for the medical, energy, rail and aerospace sectors.
- **Satys Surface Treatment** (formerly AST): surface treatment for aerospace components.

Satys’ turnover in 2017 attained 172M€. The group employs 2500 persons worldwide and benefits from numerous certifications.

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SOLCERA is the European leader in the fields of technical ceramics, optical advanced materials, ceramic/metal and glass/metal assemblies. We control the ceramic manufacturing from powder to the finished component.

100% French company since 2015, SOLCERA has an ambitious human and economic development plan for aeronautics and defense applications. We develop in particular insulating parts for sensors, relays and connectors in aeronautics, armor plate for ballistic protection and EM/IR transparent windows in defense applications.

Located in Évreux in Normandy and in Moissy-Cramayel near Paris, SOLCERA employs 140 people in 2018.

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MAIN ACTIVITY:
PRECISION MACHINING

ANNUAL TURNOVER (in €M) : 10

Founded in 1961, SOMEPIC has built a strong reputation in the field of precision engineering. SOMPEIC Technologie currently employs 100 technicians and experts and has over 30 machines-tools to meet the needs of all the major aeronautical stakeholders. Our company has successfully developed over time to stay tuned to the needs of our customers.

Help you save time and improve your production cycle. That’s why our SOMEPIC Technologie expert teams offer you a comprehensive range of top-quality services, from aeronautical machined parts to complex subassemblies.

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French Aerospace, Defense and Security Industry
MAIN ACTIVITY:
WELTWEIT AGIERENDER KALIBRIERDIENSTLEISTER

ANNUAL TURNOVER (in €M) : 290 Millionen Euro

GLOBALER PARTNER DER LUFT- UND RAUMFAHRTINDUSTRIE
Kompetenzen in allen Referenzen und Standards der Luftfahrt (AS 9100, EN 9100, JIS Q 9100, FAA, EASA, NADCAP, BNAE...)

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French Aerospace, Defense and Security Industry
Our mission: To conceive and implement efficient manufacturing processes, which are increasingly more respectful of people and the environment. VENTANA V-Solutions: A complete range of manufacturing processes, fruit of the technological innovations developed by Ventana and our partners, using as many combinations of our core businesses to adapt to our customers' needs. Simplify your supply chain by choosing our sustainable and efficient solutions for the co-design, industrialization and production of your high value added metal components and sub-assemblies. Ventana would be pleased to welcome you at their booth on the GIFAS STAND!
MAIN ACTIVITY:
ADDITIVE MANUFACTURING OF PROTOTYPES AND FLYING PARTS

ANNUAL TURNOVER (in €M) : 6.7

High performance additive manufacturing is VOLUM-e's core competence.

The 55-women-and-men strong team operates state-of-the-art, large dimensions SLM, SLA and SLS systems under ISO9001 and EN9100 qualifications. VOLUM-e is present on the entire production line, from design and topological optimization to post processing for the delivery of finished part.

VOLUM-e enjoyed great successes in manufacturing parts for space launchers and satellites; let's deliver more light-weight high-performance solutions.

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French Aerospace, Defense and Security Industry
MAIN ACTIVITY :
PARIS INTERNATIONAL TRADE SHOW

The 53rd International Paris Air Show will take place from 17 to 23 June 2019. It will bring together all the players in this global industry around the latest technological innovations. The 2,381 exhibitors, 142,000 trade visitors, 150 aircraft, 290 official delegations and 3,450 worldwide journalists in 2017 reaffirm the International Paris Air Show as the largest Airshow in the world.

Innovation and digital technology in aerospace were the keywords of the 52nd edition through the new area Paris Air Lab. Featuring collaborative work from industrial groups, companies, and startups; conference debates on the future of the field; startup pitches; immersive experiences and More, the Paris Air Lab has something for everyone.

Don't miss this opportunity to be part of the industry’s most outstanding and innovative event!

Discover more and register on www.siae.fr

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DIRECTION GENERAL DE L’ARMEMENT (DGA)
ELVIA PCB
FACTEM
GROUPE ADF
HUTCHINSON - JPR
JACQUES DUBOIS
LATECOERE INTERCONNECTION SYSTEMS
MECAPEOLE
MEGA-P

NCSIMUL SOLUTIONS
NICOMATIC
NORMANDIE AEROSPACE
NOVAE AEROSPACE
PRECI 3D
RAFAUT
SAFRAN
SATYS
SIAE
SOLCERA
SOMEPIEC TECHNOLOGIE
TRESCAL
VENTANA
VOLUM-E

ILA - Hall 2 - booth no.305
ISC - Hall 6 – booth no. 392

PARTICIPATING COMPANIES