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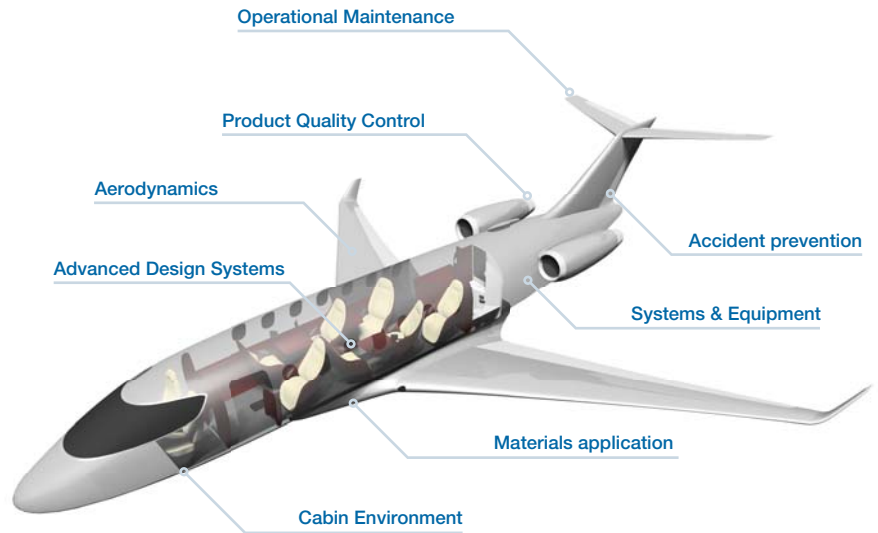
portuguese association for the aerospace industry

PEMAS Network

The PEMAS association is a Network of Portuguese companies for the aerospace industry. The specific objectives of the group are:

1. To integrate national aerospace projects;
2. To integrate and promote participation in international aerospace projects;
3. To participate in the definition of public policies for the aerospace industry.

The PEMAS open network aims at integrating challenging cutting edge technology projects. PEMAS is a private non-profit organization formalized in February 2006.



PEMAS Joint Capabilities

PEMAS participation in both national and international projects is based upon a close cooperation with the aerospace supply chain systems integration companies.

The member companies' combined turnover exceed 200M€ and employ more than 2000 highly qualified specialists working on different areas of expertise in the academic, research and industrial fields. Together, they have ISO9001 quality certification, as well as other aerospace specific certifications.

1. Commercial and Corporate Aviation

- 1.1 Aerospace Engineering and Design
- 1.2 Integrated Design and Cabin Environment Development
- 1.3 Cabin and Interior Refurbishment Materials Supply
- 1.4 Components Manufacturing
- 1.5 Aircraft Maintenance JAR-145/EASA Part-145
- 1.6 Aircraft Operation JAR-145/EASA Part-145
- 1.7 Flight School
- 1.8 Passengers and Cargo Air Transport - JAR-OPS 1 Certified

2. Unmanned Aerial Systems (UAS)

- 2.1 Unmanned Tactical and Experimental Aerial Vehicles
- 2.2 System Development and Integration
- 2.3 Mission Control Software and Commercial Applications

3. Systems and Simulation

- 3.1 Simulation Platforms Conceptualization and Development
- 3.2 System Test Benches and Tools Development
- 3.3 Virtual Reality Systems and VR Supported Crew Training
- 3.4. Systems Integration
- 3.5 Communication Systems
- 3.6 Geographic Information Systems (GIS)

4. Structures and Materials

- 4.1 Aerospace Structures, Structural Significant Items (SSI) and Sub-Assemblies in: Metal, Plastic, Composite
- 4.2 Engine Materials and Parts
- 4.3 Semi-finished Products
- 4.4 Surface Treatments
- 4.5 Non-Destructive Testing
- 4.6 Components and Materials Inspection
- 4.7 Smart Materials
- 4.8 Material Engineering and Development

5 Tools and Machines

- 5.1 Development and Manufacturing of Maintenance and Production Tools
- 5.2 Special Tools
- 5.3 Project, Development and Manufacturing of Special and Custom Machines
- 5.4 Automation and Control Systems
- 5.5 Material Coating and Casing Technologies
- 5.6 Systems Testing, Certification and Validation

6 Space

- 6.1 Onboard Systems
- 6.2 Test benches Development and Coordination
- 6.3 Commercial Satellites Applications and Development
- 6.4 Geographic Information Software (GIS)
- 6.5 Mission Control Software and Commercial Applications

ACOSiber

ACOSiber is an ALCEN group company whose main activities are surface treatment and finishing of materials and parts for Aeronautics, Space and Defence applications. It provides several services of finishing activities such as: cleaning, treatment removing, degreasing, preparation, surface treatment, mechanical assembly, masking, painting, screen-printing and mechanical engraving.

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CAETANO COMPONENTS S.A.

GRUPO SALVADOR CAETANO

Founded in 1972, Caetano Components is a Salvador Caetano Group company, whose main activities are the manufacture of moulded foams in flexible polyurethane and metal components for Transportation industries, trimming of seats in either moquette or leather and sets of parcel/air ducts for both air conditioning and forced air ventilation.

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Active Space Technologies is a flexible and dynamic European company founded in 2004 with extensive expertise in the Aerospace, Defence and Nuclear industries, having worked for ESA, Thales, Galileo Avionica, DLR, Zeiss, UKAEA, etc. We offer high added-value services in the fields of thermo-mechanical and electronics engineering. Further, we develop highly integrated electro-mechanics products, based on disruptive technologies fed by our innovation pipeline, leveraged on R&D programs.

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COURO AZUL, S.A. is part of the “CARVALHOS Group” – which operate in the Tanning Industry since 1939 – and is supplying the main OEM's and first-tier suppliers on the Automotive Sector. More recently Couro Azul developed two new leather products, Airlys for aircraft interiors and Trainlys for train interiors. COURO AZUL has implemented a quality system in accordance with ISO/TS 16949, EAQF/94, VDA 6.1 and ÖKO-TEX Standard 100. The company has a commercial and assistance network in the main European Countries as well as in the USA, South Africa and China.

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Almadesign is a Portuguese design company established in 1997. With Transportation Design as its core business, it also provides consultant and project services in other Design Areas, concerning different process steps, from concept and development to production and trade of products for national and international companies. Our mission is also to help companies and institutions to use and manage design effectively. In addition, ALMADESIGN provides management services, research, consultancy and training in different design areas.

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Critical provides dependable technologies for mission critical systems. Our customized engineering solutions and tailor-made software development are focused on High-integrity Software Development and Independent Software Verification and Validation (ISVV). Together with technologies for diagnosis and prognosis for critical applications of advanced material systems in the most demanding industries, we deliver systems solutions that simply must not fail.

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Amorim Cork Composites is an internationally renowned manufacturer of cork products. It is part of Corticeira Amorim group. Its core business is the production of cork grain and its transformation into blocks, rolls, sheets and composite materials for application in different industries such as the aerospace, aeronautical, and footwear.

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Established in 1988, EDISOFT is the national leader in the domains of command and control systems, systems' integration, logistic information systems, collective security systems and space systems. A Portuguese presence throughout the world, EDISOFT's systems clearly highlight the company's internationalization effort and commitment to innovation and excellence, consolidated with the CMM 2 appraisal, in 2004.

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ESRI Portugal: Is a private company, with national capital, created in 1987 to become an expert in matters of information systems development and supply, based on GIS. The company innovated in Portugal with GIS Offer, GIS consultancy services and operates in specific market segments. Based on information quality, high technology and customer care. ESRI Portugal is distributor of the North-American ESRI - Environmental Systems Research Institute, world leader in its market.

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GLOBALMOLDE

Globalmolde is specialized in design and manufacture of moulds for the plastics industry. Globalmolde's main goal is to be a recognized partner for plastic based products. Therefore, Globalmolde uses the own skills and experience as mould makers, together with those of key partners, cooperating with the customer from the initial conception of the product, through the design and manufacturing of moulds to production of plastics parts and final assembly, adding value to each of these processes.

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With annual revenues of 93M€ and more than 1,000 professionals, GMV is a technology group founded in 1984 acting in areas such as Aerospace, Defense and Security, Telecommunications and Transports and ITC. Having its headquarters in Madrid, GMV has offices in Spain, Portugal, Poland, USA, South Korea and Malaysia. Its excellence centers for the areas of Modular Avionics and Maritime Transport Safety are located in Lisbon, where it employs more than 100 specialists.

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Founded in 1975, IBEROMOLDES is an engineering and tooling Group with a strong expertise in diversified areas such as product design and engineering, computer simulation, prototyping, manufacture of jigs, rapid and non-conventional tooling, moulds and automation systems. The company is part of a group with 19 companies and more than 1000 employees and is located in Marinha Grande.

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INEGI is a non-profitable Research and Technology Organization focused on Mechanical and Materials Engineering. It was founded in 1986 to strengthen the liaison between the Department of Mechanical Engineering and Industrial Management of the University of Porto and the industry. It has developed and consolidated the position of Industry partner for R&D based innovation activity. Its staff is composed of 210 people, mostly post-graduate level engineers.

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Introsys is a market leader company, specialized in Industrial Automation, responsible for robots and armed arms software design, with special expertise in the Automobile and Aeronautics industry. More than just thinking the future, Introsys adapts it's present to the tomorrow's needs. "For Introsys, the nowadays implementation of Production Systems mean the digital factories of the XXI century". That is why, we make it with a technique of excellence, which is, above all, the signature of this company."

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The ISQ is a private Portuguese entity, established in 1965, with a Group turnover, in 2009, of 80M€ (44% overseas) and a staff in the order of 1300, a permanent presence in 9 countries and operations in around 20 countries. Some of ISQ areas of expertise are Mechanical, Civil and Electrical Engineering, Testing, Technical Inspections and Research and Development.

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Founded in 2002, Lauak Portuguesa is a company of the "Groupe Lauak". The new factory in Portugal, with a site of 30.000 sqft - 110.000 sqft from the beginning of 2009, has the capacity to carry out in-house total service: study and manufacture of tools, parts of sheet-metal works and mechanics, NDT, TTS, painting, assembly, controls and tests for the Aeronautical industry.

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Lisvolde Group was founded in 1959, Specialist in Precision Machining/Engineering & Tools. The Group puts the client in 1st place and privileges quality. LisvoldeGroup is an engaged and specialized team supported by the latest technology, works continuously to fulfil delivery times and to guarantee the best solutions. All projects are analysed in order to achieve Innovation, Efficiency, Quality, Price and Deadlines. The quality of our production is constantly monitored by the quality assurance team using ultra-precise measuring tools and machines.

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Fully dedicated to the production of aerospace systems, LISTRAL was founded in March 2001 by API Capital,S.A., OGMA - Indústria Aeronáutica de Portugal, S.A., Iberomoldes S.A. and Manuel Pousada (Herdeiros) Ltd. Listral skills are supported on its human capital of 105 aircraft structures technicians with a strong experience of 25 years on aircraft structures assembly and production of several aircraft like the PC-12 for Pilatus Aircraft-Switzerland.

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Nortávia executes the training of professional pilots both on airplane and helicopter as well air transport of passenger and cargo, also performs aerial work such as aerial advertising, aerial photography and filming. Nortávia includes a division of aircraft maintenance & engineering and is an international authorized service facility of the Cessna aircraft company. Recently Nortávia has created a product R&D division. Certified by INAC/EASA, owns a fleet of 12 airplanes and 3 helicopters capable of serving the national and international markets. Founded in 1989, Nortávia is based at the Maia Airfield (LPVL).

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PIEP is a non-profit making Research and Development Organization based at the University of Minho. With its main core competencies on advanced polymeric systems and composites, and supported by highly qualified engineering and scientific staff, PIEP is actively engaged in the successful development of innovative products and manufacturing technologies for the industry.

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Spin.Works is an engineering company dedicated to the development of systems and structures for the Aeronautics, Space and Defence markets, namely: Complete Structural Solutions & Composites, Mechanisms, Navigation & Flight Control Systems, Simulation Systems, Detection Systems and Unmanned Aerial Vehicles. Spin.Works continually develops its expertise by focusing in R&D projects in cooperation with top universities and R&D institutes, as well as in technical projects in collaboration with leading companies in the space and aeronautical fields.

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Sunviauto is a Portuguese company established in 1969. With the development and production of Seating Solutions as Core-business, its major customers are well known players on the Automotive, Railway, Bus, Boat and Defence industries.

The alliance of flexible processes and multidisciplinary technical capacity also allow SUNVIAUTO the production of metal components for the industry. Focusing on Quality, these products go from the fine to heavy mechanics – powertrain elements to acoustic panels.

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T-Systems is the Deutsche Telekom corporate customers subsidiary that operates information and communications technology (ICT) systems for multinational corporations and public-sector institutions, providing integrated solutions for the networked future of business and society. With offices in more than 20 countries and with a global supply capacity, T-Systems work with companies within all industries.

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TEKEVER ASDS creates technology and products for the Aeronautics, Security, Defence and Space markets. With a highly skilled dynamic and multi-disciplinary engineering team, the core competencies are in distributed embedded systems, wireless communications, mobile systems and advanced HMI. TEKEVER ASDS has successfully rolled out products in the areas of Wireless ad hoc Communications, Detection & Early warning, Personnel & Asset Tracking, and Command & Control.

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