



ITALIA

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October 2019

Washington, D.C.

AT 70TH INTERNATIONAL
ASTRONAUTICAL
CONGRESS



ITALIAN TRADE AGENCY

ITA - Italian Trade Agency is the Governmental agency that supports the business development of our companies abroad and promotes the attraction of foreign investment in Italy. With a motivated and modern organization and a widespread network of overseas offices, ITA provides information, assistance, consulting, promotion and training to Italian small and medium-sized businesses. Using the most modern multi-channel promotion and communication tools, it acts to assert the excellence of Made in Italy in the world.



**ITALIAN INDUSTRIES FEDERATION FOR
AEROSPACE, DEFENCE AND SECURITY**

AIAD is the Federation that represents the Italian Companies for Aerospace, Defence and Security. It includes almost all the national enterprises that operate with advanced technology in the design, production, research and services activities for the civil and military aerospace, military navy and army sectors along with all the related electronic systems connected to these sectors. AIAD maintains strong relationships with national, international or NATO related institutions in order to promote, represent and guarantee the interests of all its industries. It acts as the point of reference for all the national and foreign institutions for the coordination of all those activities in which there is a need to represent the sector's national interest.

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delle imprese italiane**

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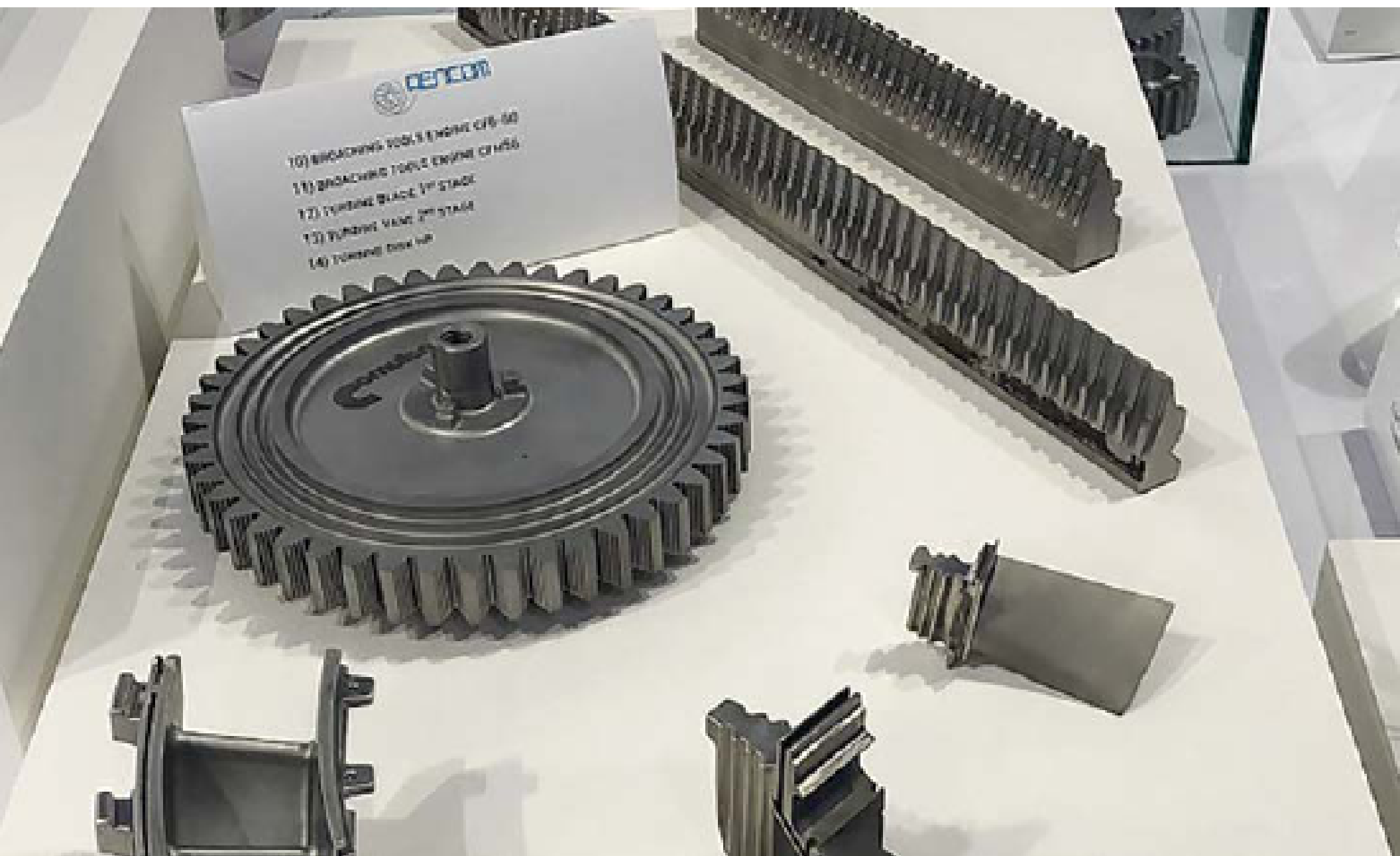
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AENCOM is a cluster of Italian companies able to provide fully integrated turn-key solutions for AEro-ENGINE COMPOnents, sub-assemblies and equipments starting from design to full production series. Thanks to our skilled chain, we can find the easiest and fastest solution to satisfy your requests. Applying a detailed Skill Matrix, AENCOM gives to the Customers a wide range of capability like Engineering, Hot/Warm Forging and Rolling, Machining, NADCAP massive Heat-Treatment processes, Sheet Metal Working (Cutting, Forming, Welding and Brazing), Composites Manufacturing, Non-destructive Inspection and testing, Special Process, Kitting, Assembly, Testing and Qualifications.



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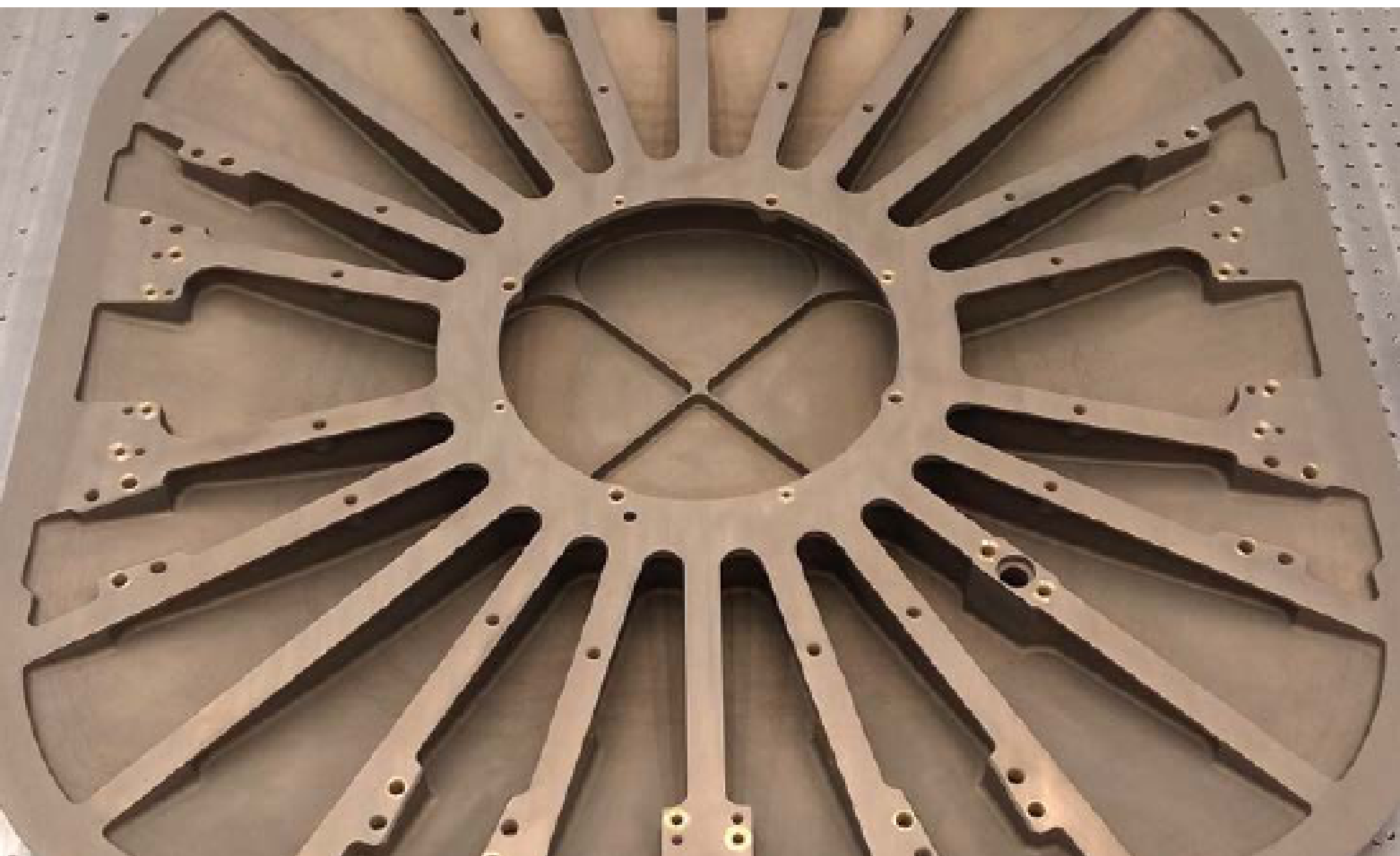


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ALFA MECCANICA is specialized in High Precision Machining (Milling and Turning), EDM, FPI (Nadcap Accredited), Cleanliness Inspection (Qualified by GE Aviation, per P4TF21), Assembling, Testing and Design & Manufacturing of Jigs and Fixtures. The main products are: Aerostructures Sub Assemblies, Engine and Propulsion Subassemblies, Structural Parts for Space Modules and Satellites, Honeycomb panels Trimming and Drilling. Alfa Meccanica is active on the most important International Civil / Military / Space Programs.



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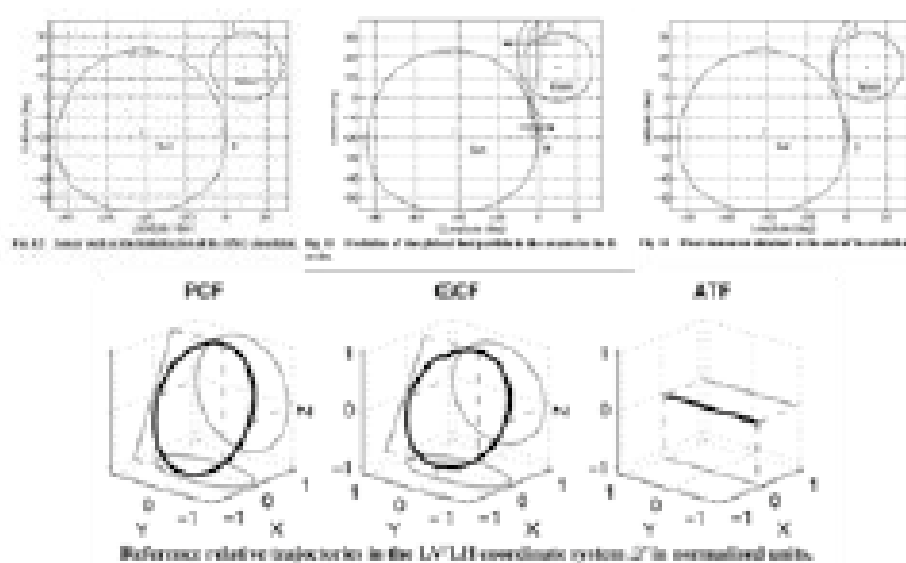
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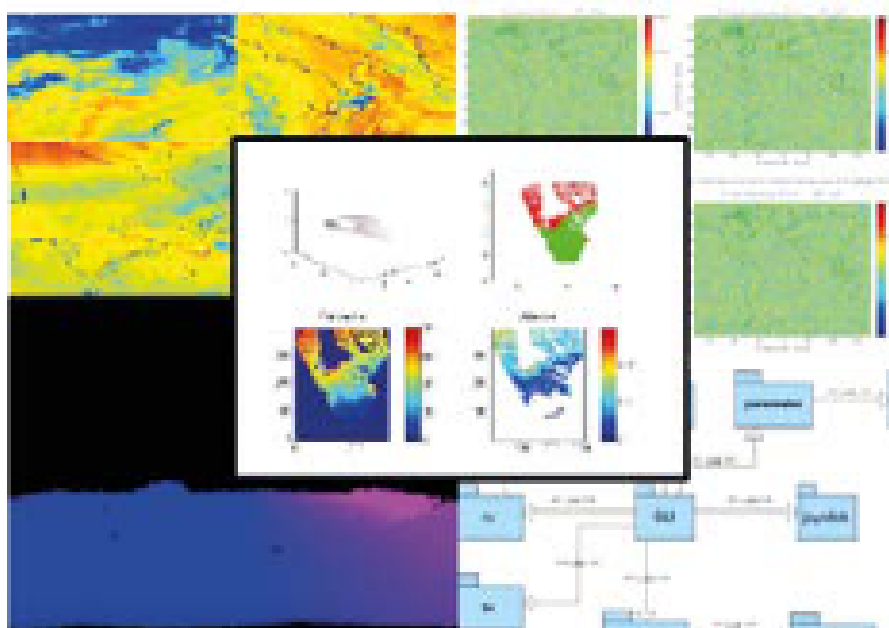
ARCA Dynamics is an Innovative Startup (Italian law n. 221/2012) active in the field of Space technology R&D. The company provides, for both traditional and New Space companies, enabling technologies for space proximity operations (rendezvous, docking, capture, ...) while increasing space automation.

According to its mission, ARCA Dynamics offers cutting-edge products and services for both flight- and ground-segment like high fidelity simulators, attitude actuators, attitude determination software, control algorithms, sensors firmware, optimization software, design and development of Attitude Determination and Control Systems (ADCS), design and HIL testing of autonomous Guidance, Navigation and Control (GNC) systems for proximity operations.

ARCA Dynamics is a member of the Association of Italian Space Enterprises (AIPAS).



Hazard Avoidance & Trajectory Retargeting



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Argotec is an Italian aerospace engineering company, producing small satellites for deep space and developing innovative solutions to support astronauts' comfort. Thanks to Argotec's facilities and know-how, the company activities follow the "all in-house concept" including design, development, integration, qualification and operation services. The small sat platforms, suitable also for deep space (6U or 12U version), offer highly-reliability, rad-hardness, volume for payloads and integrated propulsion systems. Argotec can monitor sats in space using its Mission Control Centre certified by NASA JPL Deep Space Network. Moreover, Argotec produces custom OBC (including on-board SW and processing algorithms) and EPS for its platforms



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Aviotech main activities are Design, Manufacturing and Integration of

- Multi-Layer Insulation (MLI) blankets
- Electrical Harness

For Space, Thermal-Vacuum chambers, Defense, Aeronautics and Cryogenics applications.

Aviotech is specialized in MLIs for the Low Earth Orbit environment: for this kind of MLI we have an extended heritage based on International Space Station (ISS) and Earth Observation Spacecrafts missions.

Our QMS is certified EN9100:2018 and ISO9001:2015. Harness inspectors and operators are certified ESA ECSS-Q-ST-70-26C and ECSS-Q-ST-70-08C.

In general, we can offer to our Customer three different approaches focused to offer a cost efficiency, On-Time/On-Quality delivery of products: "Built to Print", "Built to Spec" and "Built to Design".



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Brancaro Industries is a leading Italian company, active in the system engineering and aerospace equipment development. Our strength is the capability to design & develop custom equipment in relative short timescale, starting from the requirement definition down to the qualification & production. Our internal engineering department experience includes circuit development, 3D modelling, analysis, simulation, integration and test of digital and analog devices. These skills allow Brancaro Industries to offer manufacturers of the aerospace industry unique technical solutions and improve their final products.



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DTM is active since 1994 in the design, development and testing of aerospace structures and GSE (mechanical, thermal, fluidic) for satellites, launchers as well as facilities for manned and unmanned missions (ISS, sub-orbital rockets, parabolic flights).

DTM facilities include 3D CAD, FEM (structural & thermal) and CFD software, ISO6 and ISO 8 clean rooms; autodave, tools and NDI/test equipments for manufacturing and testing of composite parts, thermal vacuum chambers, static and fatigue test jigs, shaker and acquisition systems, 20 tons crane for integration of large equipments.



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The ARGO Multicamera Star Trackers feature smart attitude determination techniques through data fusion and ultra-innovative auto-calibration algorithms, offering high accuracy and robustness in time for targeting the needs of the emerging SmallSats market, especially in term of cost-competitiveness. ARGO 1.0 - the first line's product - is a stand-alone version specifically designed to maximize performance and reliability of multicamera configuration. The flight units were qualified on-ground during 2019 and will achieve flight heritage in H1 2020 in a dedicated IOD mission. A second line's product - ARGO 2.0 - is currently under study, specifically conceived for mega-constellations



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With more than 75 years of experience, Ellena is a strategic contract manufacturing partner that focuses its activities in three main fields: additive manufacturing, precision machining and assembly. Ellena supports its customers with co-design, value engineering and supply chain management. In house additive manufacturing solutions can be offered in different metallic alloys, while finishing operations are performed in Ellena state-of-the-art machining department. Mechanicals and mechatronics assemblies are realized in Ellena assembly department, also equipped with ISO 7 clean room. Ellena can reply to its customers' needs with the key competences to be an excellent partner in future global manufacturing scenarios.



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INTECS, founded in 1974, is an Italian private entity at the forefront in the design and implementation of high-tech electronic systems for the AeroSpace, Defence, and Transportation (Railways and Automotive) markets, where safety, reliability, innovation and quality are the key ingredients for success.

Intecs designs and develops products, applications, tools and software components for complex electronic systems in cooperation with major European and Italian Industries, Organizations, Universities and Research Centres.

The company has operative premises in Rome, Milan, Turin, Pisa, Naples, Genova, Pittsburgh (Pa), Philadelphia (Pa) and a staff of about 400 persons (90% engineers).



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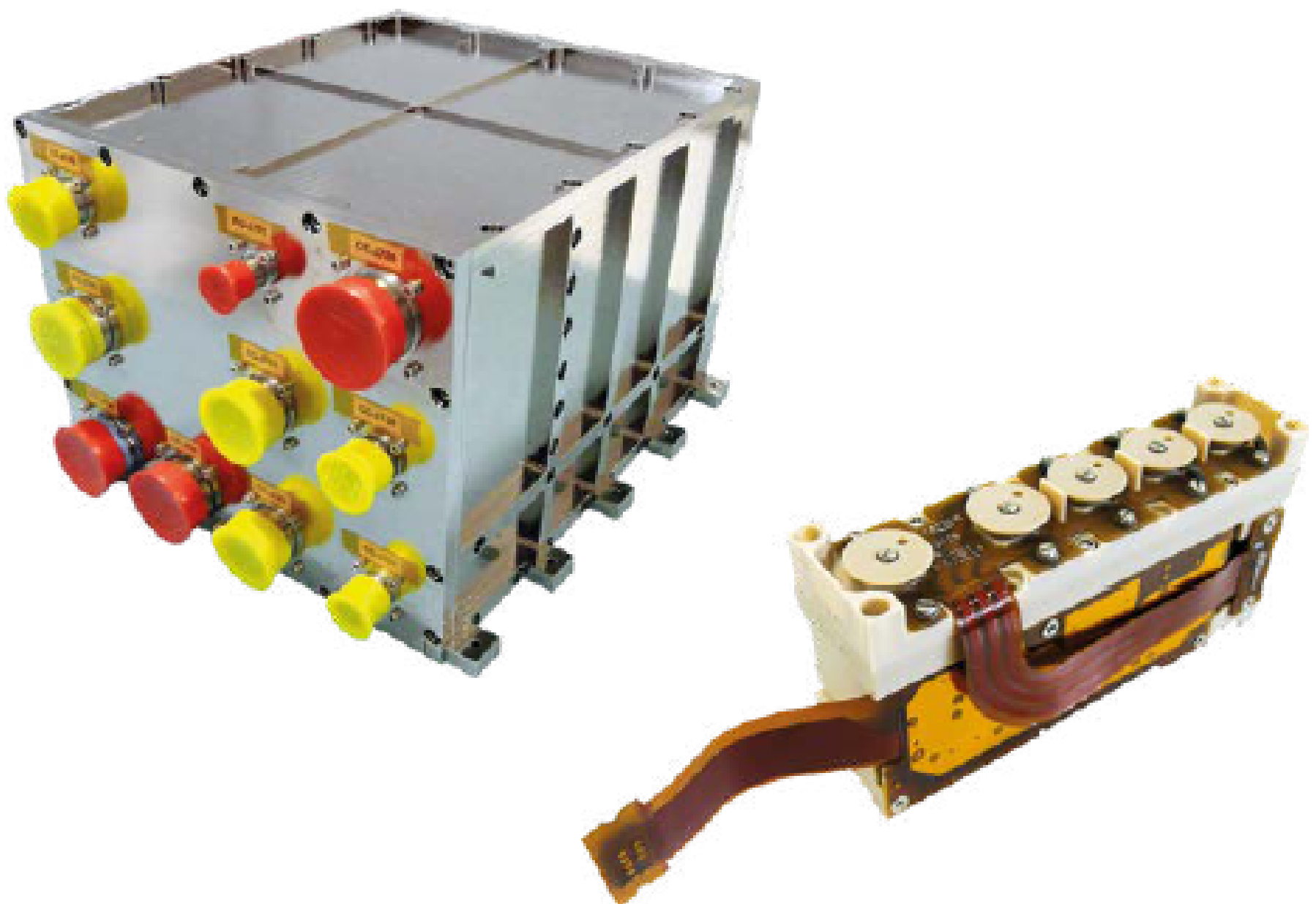
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Kayser Italia is a company working in the space sector, with the development of electrical/electronic systems for aerospace research, and for the development of payloads and equipment for the International Space Station (ISS) and satellites.

The company has participated in over 70 space missions with 110 payloads, all completed with success, in several programs of the European and Italian Space Agencies. The staff is composed of 70 specialized engineers with experience in electronics, aeronautics, thermodynamics, physics, informatics, optics, molecular biology and biotechnology.

The company has a Quality System certified UNI EN ISO 9100:2018 / UNI EN ISO 9001:2015 Standard.



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Nurjana Technologies provides Systems and SW Solutions for System Integration and Sensor Data Fusion & Tracking based on a strong System Engineering approach.

The MSCCS is an integrated and modular Command & Control System based on the NT software MMP designed to provide a complete suite of applications for a wide spectrum of testing and evaluation activities.

NEOS is a complete HW and SW system for real time optical tracking in the field of high precision measurements and SST/SSA.

NT-SST is a software suite for orbit determination, accurate propagation and conjunction analysis based on multi sensor data fusion algorithms



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OHb Italia is part of the German Group OHb SE and it is the national leader for design, production and integration of complex space systems. It is also implementing important solutions for Earth Observations, Space Situational Awareness and Space Science.

Our main customers are the European Space Agency-ESA; the Italian Space Agency-ASI; research institutions, all the major industrial players in the space market and more in general the export market domain.



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RADIOSAT® is a miniaturised high frequency telecommunication system for small satellites, initially commissioned by ESA ARTES Programme, fully compliant with ECSS and ITU standards. RADIOSAT meets three objectives:

- Performances: superior data transmission performances thanks to high frequency operational band (Ka-band), compliant with state-of-the-art communication protocols (DVB-S2X Modem by Silicon Infusion, ready to implement additional protocols), operating as a transceiver, characterised by low power consumption (16W in transmitting mode);
- Standardisation: plug-and-play concept, storable in "1U", mass 1 kg;
- Modularity: the transceiver is made of three key subsystems: 1. RF front-end, 2. Modem, 3. Power supply. This design is ready for future upgrades towards higher frequency bands and customisation according to client specifications.



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Piemonte-Italy is a leading global hub for aerospace with an organized supply chain equipped with a complete pipeline of skills and qualifications, engineering know-how, high-level manufacturing processes and services, integrated solutions: 280 SMEs, 14,800 employees, developing € 3.9bn turnover, features an exceptional aggregation capacity with world-leading players located in the area (Leonardo, GE Avio Aero, Collins Aerospace, Thales Alenia Space and a network of universities and R&D centres). Piemonte Regional Government and Piemonte Agency develop with the local companies best practices on supply chain performance. At IAC 2019 Piemonte Aerospace is author of: RESULTS OF SPACE INITIATIVES IN PIEDMONT REGION SUPPORTING INNOVATION AND INTERNATIONALIZATION OF SME'S - IAC-19,E6,2,8,x53004



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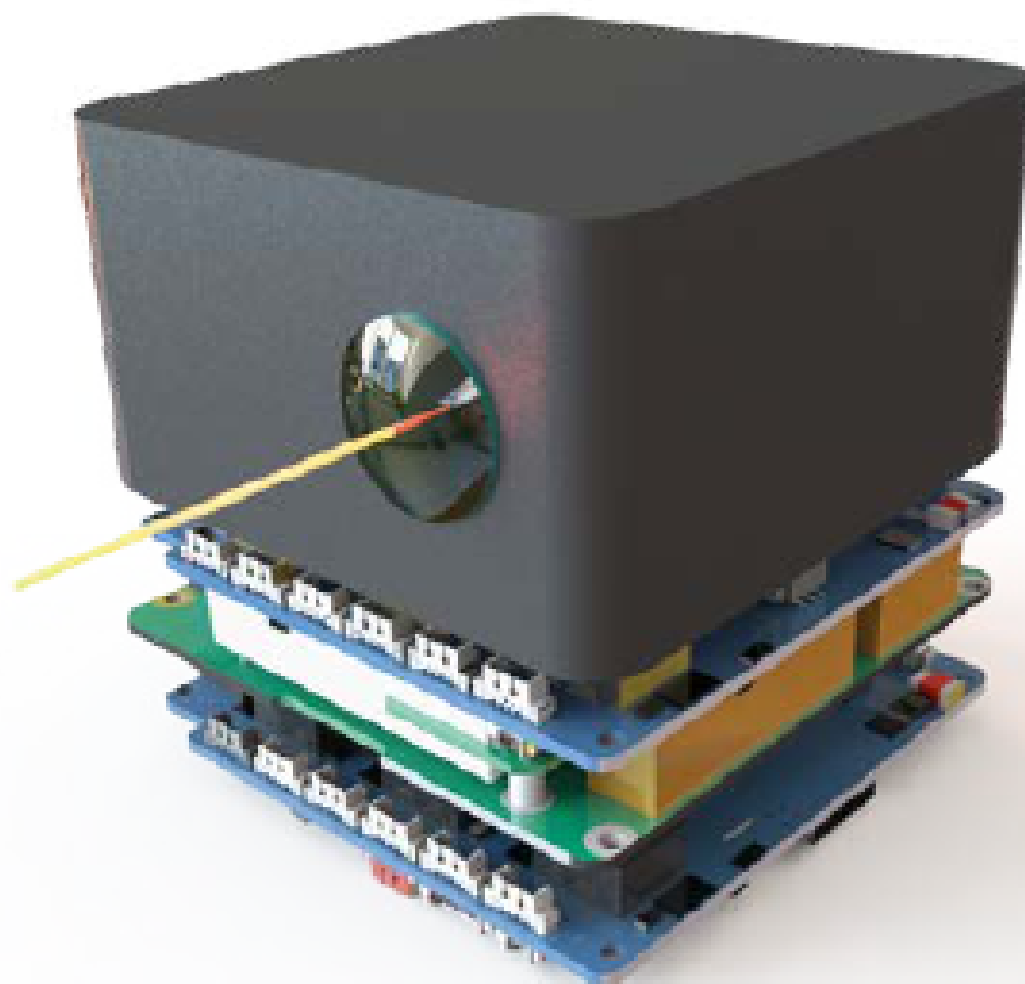
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Stellar Project is a blend of leading edge technical research and prominent entrepreneurial skills focused on the production of lasercom solutions for small satellites.

Its core product, called LaserCube, is a 2-way lasercom terminal for nano, micro and mini satellites, compliant with the CubeSat standard and fitting in 2U. It provides a step-change in telecom capabilities of smallsats, with performance more than 10 times higher than state-of-the-art RF solutions for similar platforms. LaserCube is based on a number of standardized building blocks that can be assembled according in two configurations: intersatellite link (up to two full-duplex channels) and downlink (1 TX channel).

STELLAR

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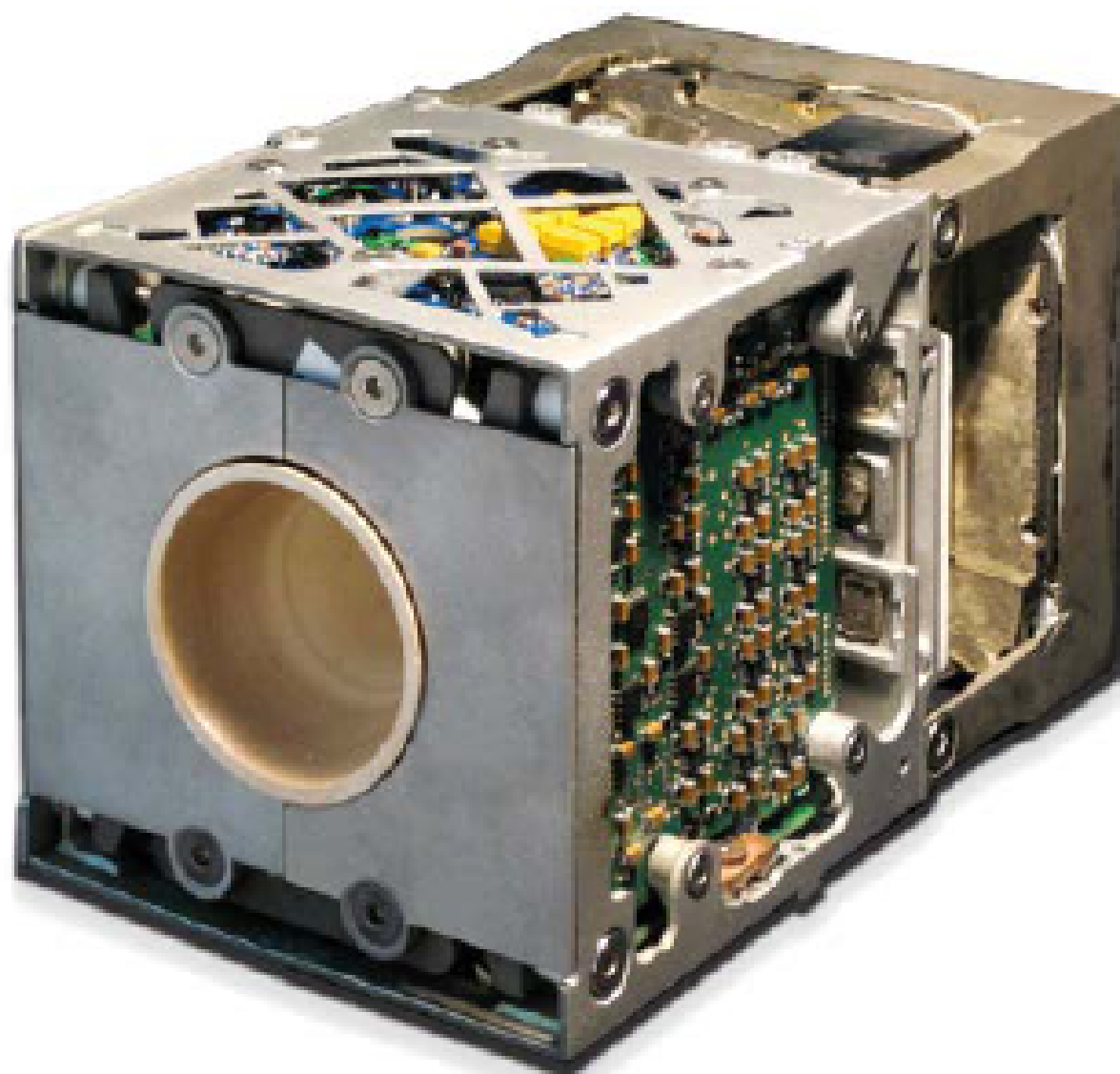
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Thrusting a different future

T4i focuses on innovative engines to open unexplored mobility forms to small satellites and unlimited windows to access space. T4i key solutions are electric propulsion systems, with space thrusters based on helicon source technology, and chemical propulsion systems, with monobipropellant motors based on H₂O₂ and hybrid rockets for aeronautics and space applications. These products are the concretization of a vision born more than a decade ago, while T4i's team was still part of the Research Group of the University of Padua, about the necessity of the market for small, versatile and cost-effective propulsion systems, easy to be integrated into satellite platforms ("Plugged & Played").



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