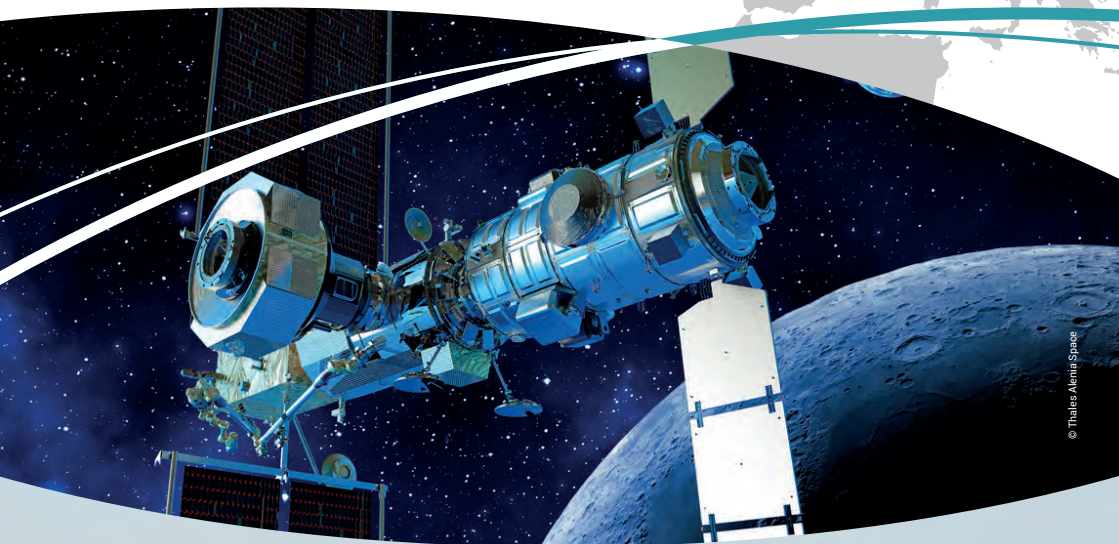


FARNBOROUGH INTERNATIONAL AIRSHOW 2024

22nd - 26th July 2024

FARNBOROUGH

HALL 1
STAND 1245









© Thales Alenia Space



© Leonardo - © 7109 Golf
photo Luca Nicolotti



-  LOGISTICS PLATFORMS
-  EUROPEAN RAILWAY CORRIDORS
-  ROAD LINKS
-  TORINO AIRPORT
(30 MINS FROM CITY CENTER BY TRAIN)
-  CUNEO AIRPORT
(1H FROM TORINO)
-  MILANO MALPENSA AIRPORT
(1H FROM TORINO)

SPAIN

AEROSPACE IN PIEMONTE MEANS:

- 450 SMEs
- 35,000 employees
- 8 billion € turnover.

(Source: 2023 analysis by Piemonte Agency and Piedmont Aerospace Cluster on 2022 figures)

The Piemonte aerospace supply chain is a complete one and offers leading edge technological and business solutions to international key players. The presence of the big players Leonardo, GE Avio Aero, Thales Alenia Space, ALTEC, Collins Aerospace represents a substantial base for the growth of producers of complex subsystems, system suppliers of parts and components, subcontractors of specialised works and equipment for aircraft manufacturing, aerospace propulsion, space systems, satellites, UAV/UAS/OPV, actuation systems, interior equipment and furnishing, electrical, electronic systems, avionics, design and analysis, engineering, prototyping, test and control equipment, advanced materials, special processes, MRO.

To top up this range of capabilities, Piemonte has been developing unique innovative trends such as additive manufacturing technologies, advanced space robotics, manufacturing and technologies for space habitation, innovative and reusable launchers, Space AI and services, low emission aeroengines, advanced materials, interdisciplinarity and AI.

The participation in Farnborough International Airshow 2024 is organised within the Integrated Supply Chain Project "Aerospace". The project provides international players with a preferential channel to meet and develop business with a selection of Italian companies active in the aerospace sector based in Piemonte. At Farnborough International Airshow, 17 top SMEs showcase the region's outstanding capacities in the aeronautics, Space and defense fields. They represent a diversified industrial backbone, demonstrating their strong capabilities in high precision mechanical components and tools, fluid conveying solutions, scientific instruments, additive manufacturing, cross-domain cryogenic solutions, advanced materials, propulsion systems, assembly and testing, automated integrated systems, engineering services, ICT technologies, electrical & electronic systems for on board systems. The project Team's assistance is supply chain focused and completely free of charge for international players. It ascertains the outsourcing needs according to the technical requirements with the most suitable partners, in Piemonte or on one's premises.

The Integrated Supply Chain Project "Aerospace" is promoted by Regione Piemonte (Regional Government), co-funded by the European Regional Development Fund 2021-2027 and carried out by Piemonte Agency.

Piemonte Agency

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Aerospace Team

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CONNECT WITH PIEMONTE AEROSPACE COMPANIES

3NTR
www.3ntr.net

AENCOM
www.aencom.it

ALFA MECCANICA
www.alfameccanicasrl.it

ALLINOX COMPONENTS
www.allinoxcomponents.it

ALTAIR CONSORTIUM
www.altairconsortium.com

APR
www.apr.it

BISIACH & CARRÙ
www.bisiachcarru.it

BRANCARO INDUSTRIES
www.brancaro.com

COMUTENSILI
www.comutensili.com

ELLENA
www.ellenaspa.com

FRESAL
www.fresal.com

JOINTEK
www.jointek.it

LABORMET DUE
www.labormetdue.it

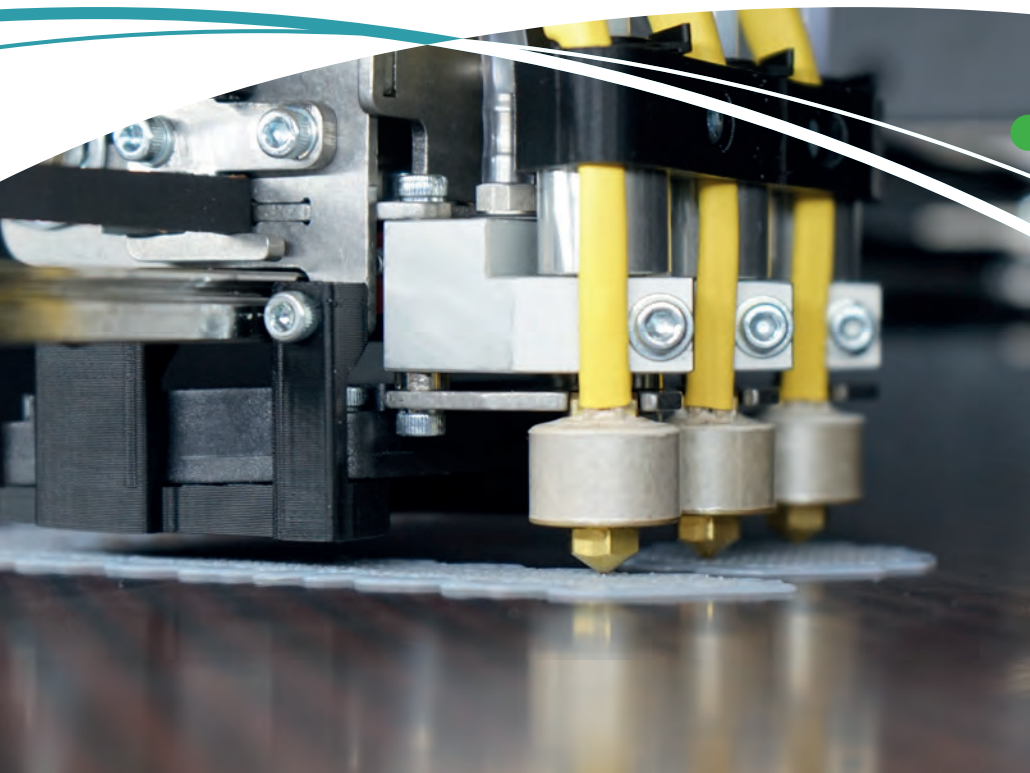
MES GROUP
www.mesgroup.biz

S.I.ME. SOCIETÀ INDUSTRIA MECCANICA
www.simeccanica.it

TECNO E.D.M.
www.tecnoedm.com

TUBIFLEX
www.tubiflex.com

VANZETTI ENGINEERING
www.vanzettiengineering.com



#THINKINGADDITIVE



3NTR represents one of the most consolidated companies within the additive market, on a global scale, thanks to the production of reliable, industrial-grade production systems.

The company kept growing thanks to close relationships with customers and partners, and it is known worldwide for its ethical behavior and integrity, as well as the passion that is in the company's DNA and which has helped to evolve the family business into a globally structured company.

3ntr printers are perfect tools, adaptable to a fast production environment as well as to research centers. Despite having a lower cost, they can guarantee similar or even higher prototyping and production performances compared to other FDM technologies on the market.

Unlike others, 3ntr doesn't bind to forced choices and guarantees an intuitive and reliable process. With 3ntr, each user can approach the printer by testing non-proprietary or research materials, and thanks to the SSI software, ease of use is guaranteed even for less experienced users. The printers, robust and reliable, work without interruption 24/7, always guaranteeing the maximum freedom of control and management of each project.

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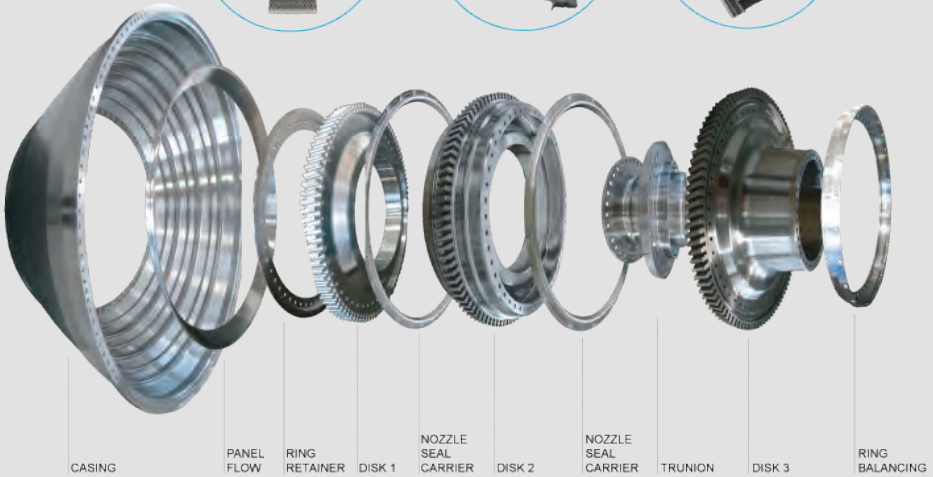
SHROUDS



BLADES



VANES



CASING

PANEL
FLOW

RING
RETAINER

DISK 1

NOZZLE
SEAL
CARRIER

DISK 2

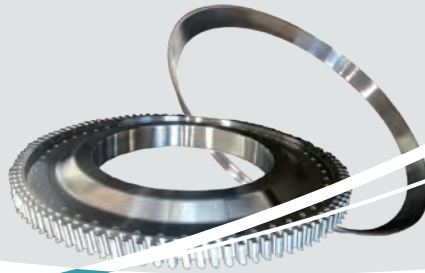
NOZZLE
SEAL
CARRIER

TRUNION

DISK 3

RING
BALANCING

UNITED WE STAND



AENCOM is a cluster of Italian companies working together towards a single objective: provide fully integrated solutions for AeRO-ENGINE COMponents, sub-assemblies and equipments starting from design to full production series. Thanks to its skilled chain, it finds the easiest and fastest solution to satisfy clients requests.

AENCOM capabilities: • Innovative design: Design for Additive Manufacturing, Multi-Disciplinary Optimization • Concurrent Product Development • Industrialization: Assembly in clean room class 100K - ISO 8, Certification of Process, Certification of Conformity (CoC) • Wide range of manufacturing process: NADCAP Near-Net-Shape Hot/Warm Forging and Rolling (production process designed around the desired material fiber disposition), Full Machining capabilities, NADCAP massive Heat-Treatment process (low and high-alloy steels, nickel alloys), Sheet Metal Cutting and Fabrication, Forming, Manual Surface Finishing, Welding and Brazing, Composites Manufacturing • Non-destructive Inspection and Testing: 3 Ct scan from 300 to 450 kv for components until 0.5 mt diameter to 1.0 high in a metrology room EN 9100 certified • Special Process • Kitting • Assembly • Technical Painting • Testing and Qualification.

AENCOM

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This company is part of **Aerospace** Integrated Supply Chain Project promoted by Regione Piemonte (Regional Government), co-funded by the European Regional Development Fund 2021-2027 and carried out by Piemonte Agency.

ALFA MECCANICA

Aerospace Quality



A PARTNER TO RELY ON



ALFA MECCANICA, located in Piedmont (Italy) about 20 miles South of Turin and in the Aerospace Business since 1975, is specialized in high precision machining (NC multi axis turning and 3-4-5 axis NC milling up to 8 m), EDM (die sinking, wire cutting and micro boring), NDT (FPI Nadcap Approved), Precision Cleaning and Cleanliness Inspection (qualified by GE Aviation per P4TF21 specification), bearings/bushes installation, complex parts assemblies, functional & hydraulic tests and design and manufacturing of Jigs and Fixtures.

ALFA MECCANICA manages a network of certified suppliers to perform heat treatments, brazing operations, surface treatments, painting and laboratory tests.

ALFA MECCANICA is accustomed to deal with all the special materials used in the aerospace technology from Aluminium alloys to Titanium alloys, from Stainless Steels to Inconel alloys.

The main Customers are: GE AVIO AERO, THALES ALENIA SPACE, ROLLS ROYCE, SAFRAN Group, Leonardo, IAI Aviation Group, ELBIT Systems.

ALFA MECCANICA Quality System is certified according to ISO9001:2015 and EN9100:2018.

ALFA MECCANICA

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This company is part of **Aerospace** Integrated Supply Chain Project promoted by Regione Piemonte (Regional Government), co-funded by the European Regional Development Fund 2021-2027 and carried out by Piemonte Agency.



Allinox components
energy, aeronautic and railway





The company, whose historic headquarters are located in Turin near the Caselle Torinese airport, operates on an area of 4,500 m² and currently has 40 employees.

With many years of experience in the machining of special alloys such as Hastelloy X, Inconel 718, Inconel 625, 17-4PH, Haynes 188, Titanium, and in special process management, Allinox Components is able to meet the requirements of various application sectors.

The main sectors in which we operate significantly are the Aeronautics and Aerospace, Energy-Turbogas and Railways.

Focused since the 1950s on sheet metal processing, in recent years we have achieved numerous challenges and objectives that have allowed us to achieve the completion of internal processes such as mechanical processing up to 5 axes.

ALLINOX COMPONENTS

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**the synergy of Companies
and a qualified network to grow up**





ALTAIR CONSORTIUM

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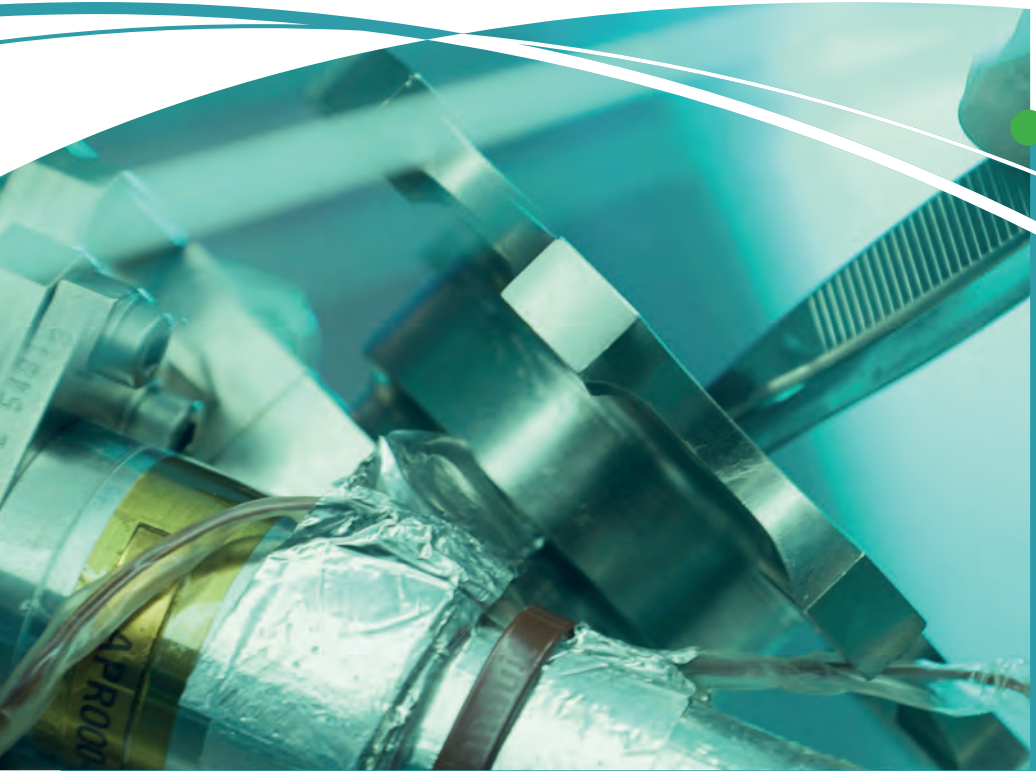
marco.mazzucco@altairconsortium.com

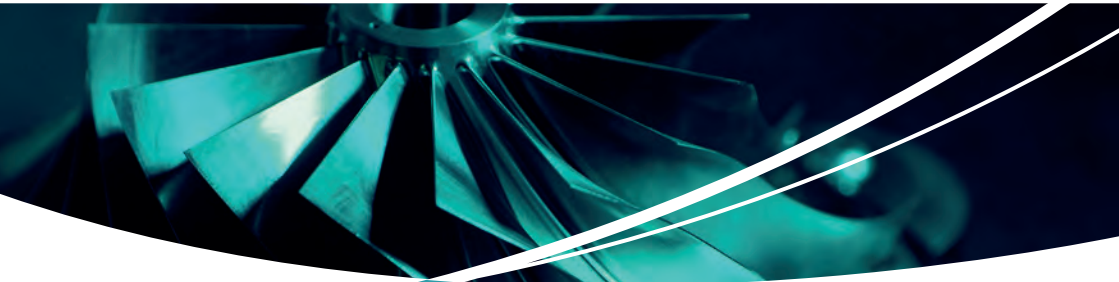
ALTAIR joins the skills and competencies of the partner companies in the aerospace sector and in other relevant experience fields. The synergy of the skills on program management, design, engineering, supply of complete parts, including material, machining (turning, 5 axis milling and grinding), NDT, thermal & surface treatments and small assemblies, avionic and electric harnesses, maintenance, manufacturing and repair, quality and OH&S management, training, logistic engineering, composite materials and composite structures and parts manufacturing, test and validation, industrial gaskets and sealing materials, thermal and acoustic insulation products, lightweight materials for interiors – in aerospace and other fields.

Today in ALTAIR CONSORTIUM seven companies work together: Alfa Meccanica S.r.l., Ares S.r.l., BAVA, Bercella S.r.l., CT Engineering Ltd, Langensee Srl, Setel Group S.r.l.

www.altairconsortium.com

This company is part of **Aerospace** Integrated Supply Chain Project promoted by Regione Piemonte (Regional Government), co-funded by the European Regional Development Fund 2021-2027 and carried out by Piemonte Agency.





APR vision is "being Customer's choice for fluid-dynamics components in Aviation and Space": we design, industrialize and manufacture components, leveraging our vertical-integrated structure.

The rock-solid base is our industrial know-how: since 1998 we manufacture fluid dynamics critical parts (inducers, impellers, BLISKS/IBRs), engine components (hinges, casings) and accessories (filler caps, engine turning systems, helicopter gearbox cooling fans).

Progressively APR integrated special productions and prototyping (airfoils, full turbine demonstrators, additive-parts machining).

From 2019 APR developed the internal RD&E team, nowadays counting 30% of employees. We offer turn-key solutions via E2E "design-to-production" process for Valves, Pumps and Heat Exchangers, working in different contexts.

It started with Space: we proudly fly our ECLSS Valves on Cygnus and soon on HALO. We supply Active Thermal Control System (fluidic pumps, mixing and on-off valves) to I-HAB, and Propulsion (solenoid) Valves & Pumps for ARIANE, VEGA-E and EL3 studies. In the last year our product line expanded towards Aviation, where APR started on Fuel Pumps, low pressure Oil Valves, and more are in progress.

APR

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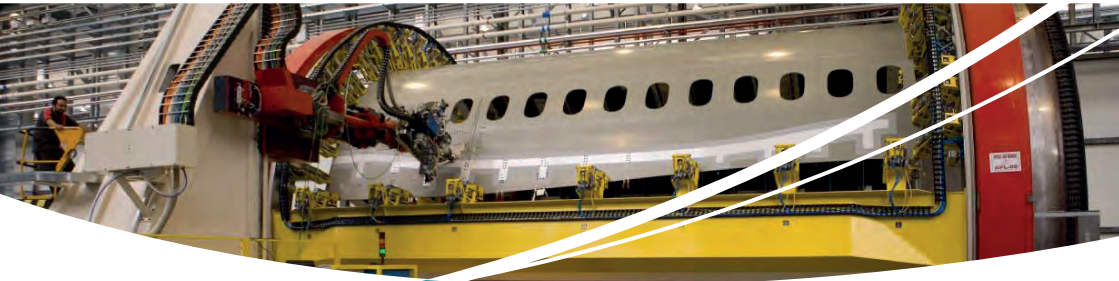
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BISIACH & CARRÙ S.p.A.



WE AUTOMATE YOUR IDEAS



Since 1957 **BISIACH & CARRÙ** has represented an evolution milestone for research and development in technology through an intensive work in advanced design imbued to its ongoing and upcoming future. We carry on that mechatronic approach that has led to what has been defined as a masterpiece of engineering today. Bisiach & Carrù offers a wide range of turnkey solutions dedicated to railway, aeronautic and space fields. In particular, for aeronautics needs:

- Design and manufacture of drilling/riveting automatic systems;
- Robotized systems for aircraft components assembling;
- Automatic systems for positioning, drilling and stringer/clip riveting;
- Robotized systems for machining on wings (drilling, riveting, sealant application, measuring, etc.);
- Complete set of Tooling and automatic transport system dedicated to the aircraft manufacture.

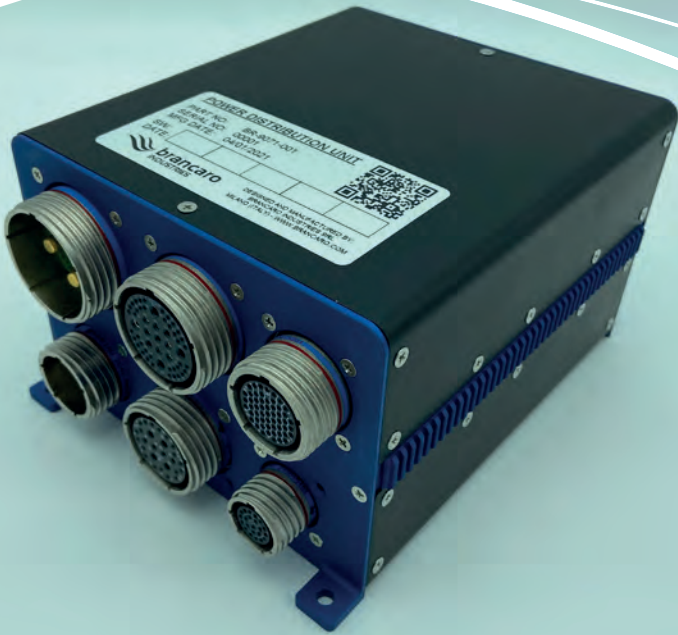
We design, realize, assemble and test automated integrated systems. Our solutions are completely internally developed by structured technical departments. We create synergy between the machine and the tool.

BISIACH & CARRÙ

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PROBABLY THE WORLD'S LIGHTEST CERTIFIED
ELECTRO-AVONICS EQUIPMENTS



BRANCARO INDUSTRIES designs, develops and produces the lightest and most compact, DO-160 qualified electronic equipment for the aeronautics market. The on-board systems BRANCARO is focused on are: electrical system, control, monitoring and actuation.

On these systems BRANCARO is capable of assisting its customers from the System Engineering phase, down to the concept, design, assembly, testing and qualification stage. Our Power Management Unit (PMU), is one of our latest product. It is capable of managing a Brushless Starter Generator, and allow cranking and generation up to 2.5 kW with 28V and 12V output. The offer is completed with the UAV Smart Battery pack and the Power Distribution Unit, a 2kW all-in-one primary and secondary power distribution system that manages 3 power sources and 48 loads. It is the perfect solution for medium-size UAVs.

Discover our range of COTS products and all possible development among Brushless Starter/Generators, Brushless control units for advanced cranking and generation, batteries with integrated BMS, integrated custom systems, battery chargers for your aircraft.

BRANCARO INDUSTRIES

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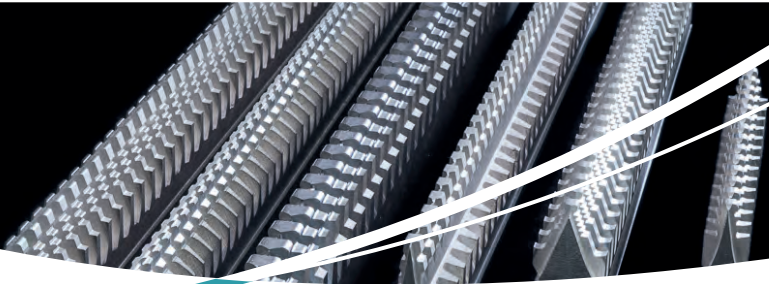
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www.comutensili.com



PERFORMING PRECISION



COMUTENSILI is an engineering manufacturer Company of 75 employees, specialized in machining turbine and engine parts, design and manufacturing of high precision tools, for Customers belonging to the Aerospace and Energy markets.

Products and skills:

- broaching tools (pine & dovetail) designing and manufacturing.
- blade, vanes, nozzles, rotative and stator parts machining from castings, managing the whole scope of work including fixtures, tooling, NDT, heat treatment, surface treatment in cooperation with qualified supplier.
- engine parts machining from forgings and castings in alloy and superalloy materials.

Main products: engine disks, vanes, rings, housing bearings, rings, etc. (turning up to 1600 mm).

- tooling, accessory parts, installation kits, auxiliary components.

COMUTENSILI is certified according to ISO9100 standard and UNI EN ISO 9001. The Quality System has been audited and approved by many of the most important Players in the Aerospace and Powergen markets.

COMUTENSILI

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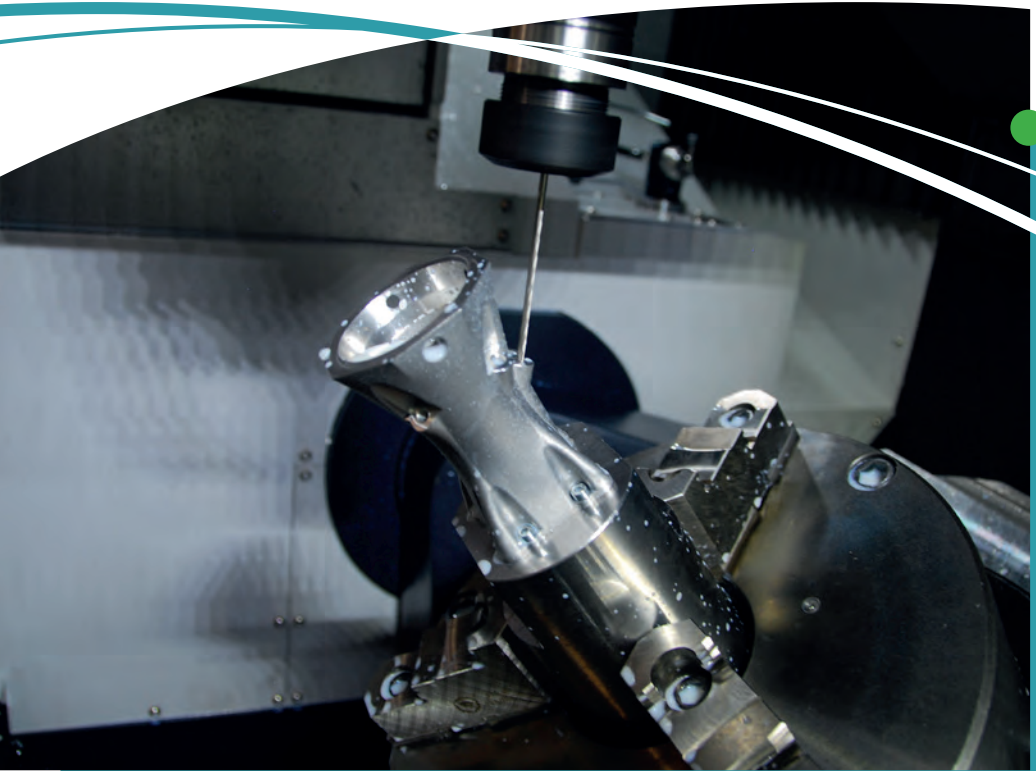
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Ilona





With 80 years of history, **ELLENA** is a turnkey solutions provider, supporting its customers in:

- high precision machined components
- supply chain management
- assembly and test
- additive manufacturing.

Machining operations are performed in Ellena state-of-the-art machining department, which includes high performance 7 axis mill turn machines, 5 axis machining centers and CMM Zeiss machines. An experienced team of industry professionals manages complex supply chains with selected qualified suppliers and long-term partnerships; this enables Ellena in providing turnkey products for critical applications.

Mechanical, hydraulic and mechatronic assemblies are realized in Ellena assembly department, also equipped with ISO 7 clean room and test benches. In house additive manufacturing solutions can be offered in different metallic alloys and completed with machining and post process operations; this service will support either engineering prototyping both additive specifically designed products. Ellena, family owned since its foundation, aims to be a key partner in future manufacturing scenarios.

ELLENA

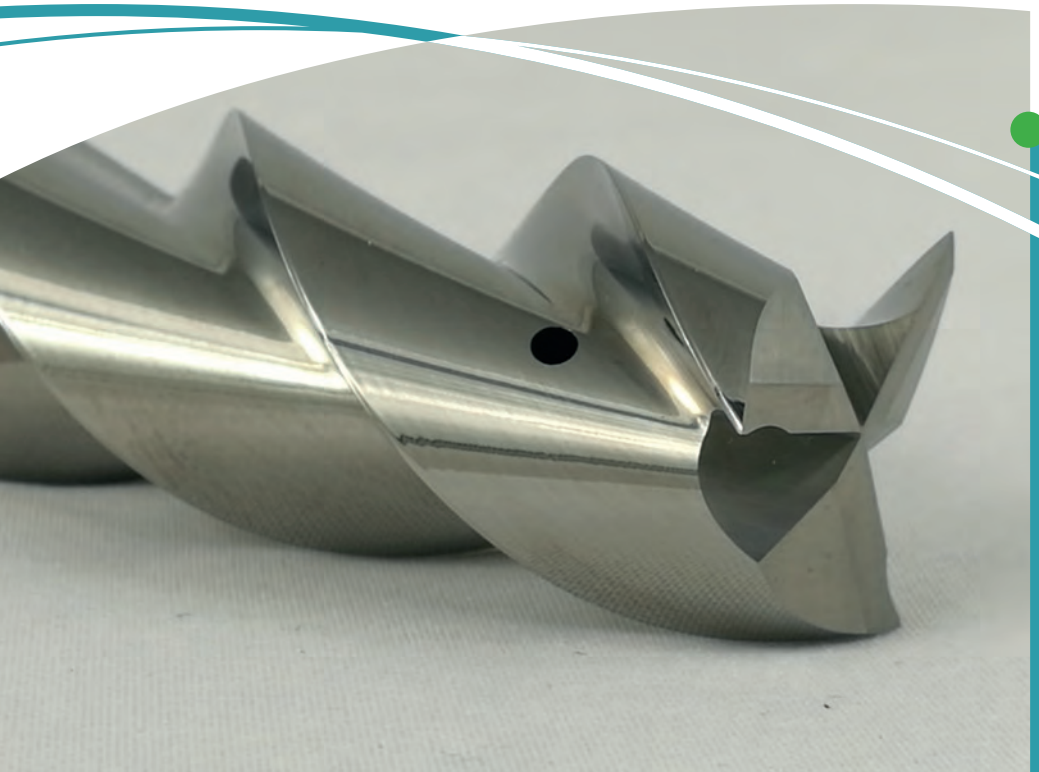
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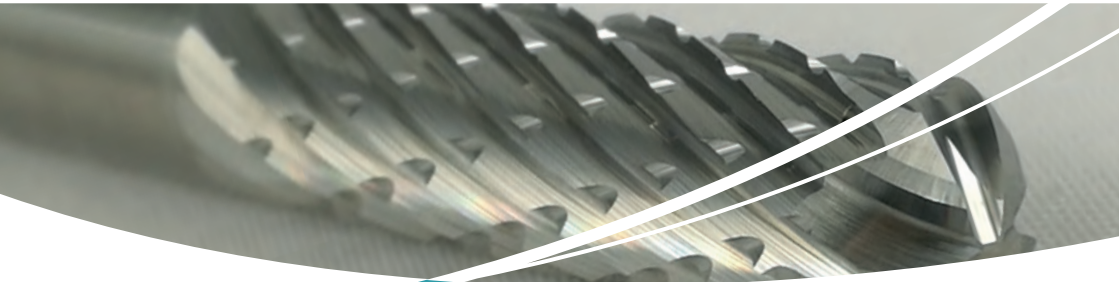
www.ellenaspa.com

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FRESAL

AEROSPACE





FRESAL is an Italian company specialized in manufacturing solid tools for machine cutting, based in Volpiano (Turin).

The range of standard tools produced by Fresal meets the needs of various industrial sectors (Aerospace, Military, Automotive, Energy and General Mechanics), including cylindrical cutters, drills and reamers both in solid carbide, powder metal (HSS-PM) and cobalt high speed steels (HSS-E).

In addition to our standard products, 50% of our production is for special tools, with any type of geometry, profile or tolerance, according to the customer's needs. We have been having a great experience in the aerospace field since many years. In our offer of tools for the aerospace industry we have end mills for high speed cutting of aluminum (UGV), for high-performance cutting of titanium and super alloys and for composite materials.

Furthermore, we also have a wide range of tools for aircraft assembly and maintenance, such as reamers for locations rivets, drill-reamers spinner-head, drills-countersinks (one-shot) and 100° countersink.

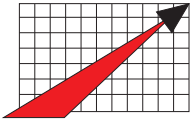
We also offer the possibility to recondition our tools, allowing like-new performances but implementing savings of the customer.

FRESAL

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This company is part of **Aerospace** Integrated Supply Chain Project promoted by Regione Piemonte (Regional Government), co-funded by the European Regional Development Fund 2021-2027 and carried out by Piemonte Agency.



Jointek
aerospace



FLEXIBLE HOSE ASSEMBLIES, QUICK DISCONNECT COUPLINGS,
SPECIAL ENGINEERED COMPONENTS



JOINTEK was founded in 1991 and in 1994 entered into an agreement with "Parker Hannifin Corporation - Stratoflex Products Division" to promote and sell flexible hoses, fittings and quick disconnect self-sealing couplings. In order to enhance customer service in Europe, in 1995 Jointek and Parker-Stratoflex established an assembly and test facility for aerospace hose assemblies in Northern Italy. The facility is fully approved by Parker-Stratoflex and completely managed by Jointek.

Hose assemblies are custom-made for each application according to size, length, pressure rating, temperature and configuration. Hose fittings are available in stainless steel, aluminum, titanium, and nickel-based alloy materials. Jointek is capable to address high-performance custom requirements, both in terms of design specifications, small-quantity-batch, and fragmented delivery date.

Our manufacturing facility operates in conformance with Parker-Stratoflex production processes and procedures and is fully equipped with cutting, brushing, bending, crimping, testing and laser marking machines. Our capabilities are enhanced by our experienced manufacturing-personnel. The quality inspection process and procedures includes 100% proof test and cleaning.

JOINTEK

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LABORMET DUE is one of the strongest commercial facilities in Northern Italy in the sector of scientific instruments for the laboratory and quality control. LABORMET DUE provides instruments for characterization of materials and their relevant consumables from stereomicroscopes to 200-ton tensile machines. LABORMET DUE can guarantee for all the equipment supplied: installation, staff training, after-sales service, upgrading, and certification.

LABORMET DUE uses the best-known characterization and measurement techniques, such as: metallography, optical and electron microscopy, image analysis, physical and mechanical testing, environmental simulation testing, chemical analysis, metrology in the research, production control, and quality check. One more big business opportunity is offered by the tomography service required from a wide range of different customers category. Reverse engineering, evaluation of porosity, internal defect occurs are just a few examples of what the CT scan technique can offer.

LABORMET DUE operates in the aerospace and defence sector and, for this reason, has improved his Quality Management System to be conform to the standards ISO 9011:2015 and EN 9100:2018 requirements.

LABORMET DUE

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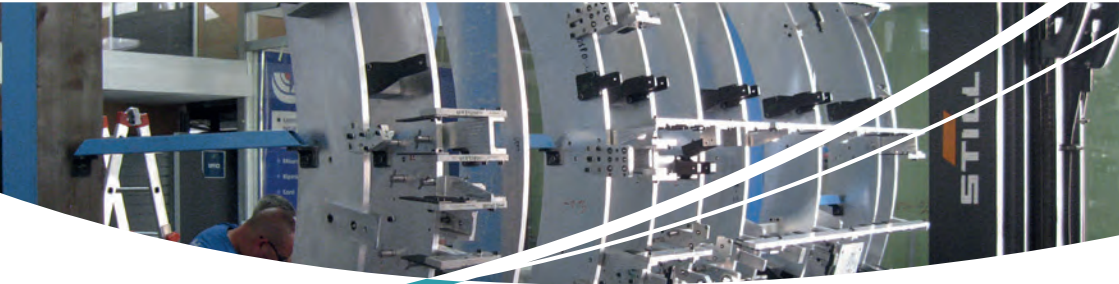
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This company is part of **Aerospace** Integrated Supply Chain Project promoted by Regione Piemonte (Regional Government), co-funded by the European Regional Development Fund 2021-2027 and carried out by Piemonte Agency.



MAKING QUALITY MEASURABLE!



MES GROUP provides engineering services for the aerospace and automotive sectors. The company's activities cover the entire product life cycle: from 3D design, drafting of technical documentation, prototyping and serial production, to the dimensional testing of the product "in house and in service".

The Manufacturing area is equipped with 3, 4, 5-axis CNC machines - and a large fleet of lasers and measuring arms, which make MES the ideal partner for metrology and dimensional controls in any industrial sector.

MES is specialised in the following activities: - Design and construction of bench tools, assembly stations, moulds, drilling jigs, control gauges; Dimensional Testing and Reverse Engineering with latest-generation equipment and instruments (Laser Trackers, anthropomorphic arms, CMMs); Prototyping of parts and production tools for composite materials (bonding tools); Quality Consulting, Engineering, Dimensional Testing, Training.

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This company is part of **Aerospace** Integrated Supply Chain Project promoted by Regione Piemonte (Regional Government), co-funded by the European Regional Development Fund 2021-2027 and carried out by Piemonte Agency.



manufacturing
YOUR
dreams



S.I.M.E., established in 1950 as a family business, specializes in precision mechanics for the Aerospace & Defence sector since 1980. With EN9100 qualification, we excel in turning and milling medium-sized (up-to-5-axis) complex parts up to 400x400mm (16"x16"). Our CNC Grinding and professional deburring ensure tight tolerances and low roughness.

Additionally, we offer external thread rolling and NADCAP approved processes (LPI, Magnetoscopic NDT, Heat Treatment, and Passivation) for fully finished products.

With over 70 years of experience, we've expanded to include MRO repair station facilities for various clients.

Our parts are utilized in prominent aircraft like Airbus A350, A320neo, A220, Embraer E2, Comac C919, Boeing 777x, Eurofighter, Tornado, AW109, AW129, AW169, AW189 and JSF.

We provide comprehensive support from initial product design to manufacturing strategies. Continuously improving, we're enhancing our grinding and 5-axis milling capacities.

Furthermore, we've joined the UN Global Compact to support the Aerospace Industry's goal of achieving zero emissions by 2050.

S.I.M.E.

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This company is part of **Aerospace** Integrated Supply Chain Project promoted by Regione Piemonte (Regional Government), co-funded by the European Regional Development Fund 2021-2027 and carried out by Piemonte Agency.



TECNO EDM
Service Specialist





TECNO E.D.M. was founded in 1992 developing the core business of designing and constructing high quality graphite, copper and tungsten-copper electrodes. The great commitment dedicated over the years gave the company the ability to offer a complete and innovative service to the customers according to the ISO 9001 certification. We can satisfy every customer's material and specifications request providing the certification sheets of the material which has been used. We can manage deliveries flexibly according to customer needs. We can develop and design the equipment, electrode holders and electrodes starting from the 3D files of the part to be machined, providing a complete consultancy and support service.

GRAPHITE ELECTRODES

Our graphite electrodes can be pre-configured to be used with your standard connections, for a fast and easy setup on your machines. Our Technical Office is available to meet any request, including electrode's design.

COPPER ELECTRODES

Our skills in the manufacture electrodes allowed us, over the time, to develop and fine-tune an advanced milling technology for this historical electro-erosion material.

TECNO E.D.M.

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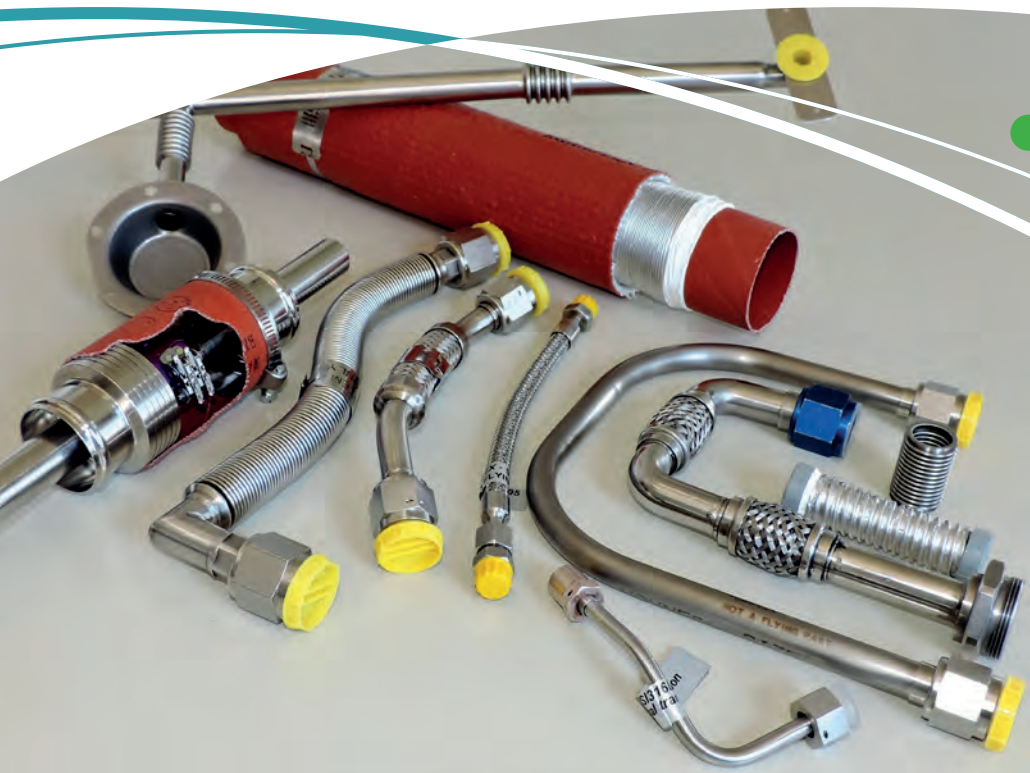
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TUBIFLEX™

Flexibility!



a member of
**INTERPUMP
GROUP**





Founded in 1951, **TUBIFLEX** belongs to the Interpump Group since 2016. Thanks to over 70 years' presence on the market, Tubiflex has gained expertise and excellence in designing, manufacturing and providing fluid conveying solutions through flexible hoses, custom made assemblies and expansion joints using high performance materials such as St. Steel, super alloys, Ti, PTFE. With a staff of more than 150 employees and an export of 54%, Tubiflex serves many leading companies in multiple sectors: from Aerospace to Naval,Railways,Power Generation,Industrial.

Tubiflex supports customers in the creation of innovative and "tailor-made" solutions to meet the requirements for fluids conveyance in high temperature systems subject to vibration, granting quality, efficiency and reliability even in the most extreme situations. The long-lasting experience in the aerospace field makes Tubiflex to be the best partner to design, propose and develop the best solution to satisfy the most different application requirements.

Typical aerospace applications: air bleeding, oil&water draining, oil breathing, fuel systems draining, venting suction & refuelling,cabin ventilation,electrical cables&pressure switches detectors protection.

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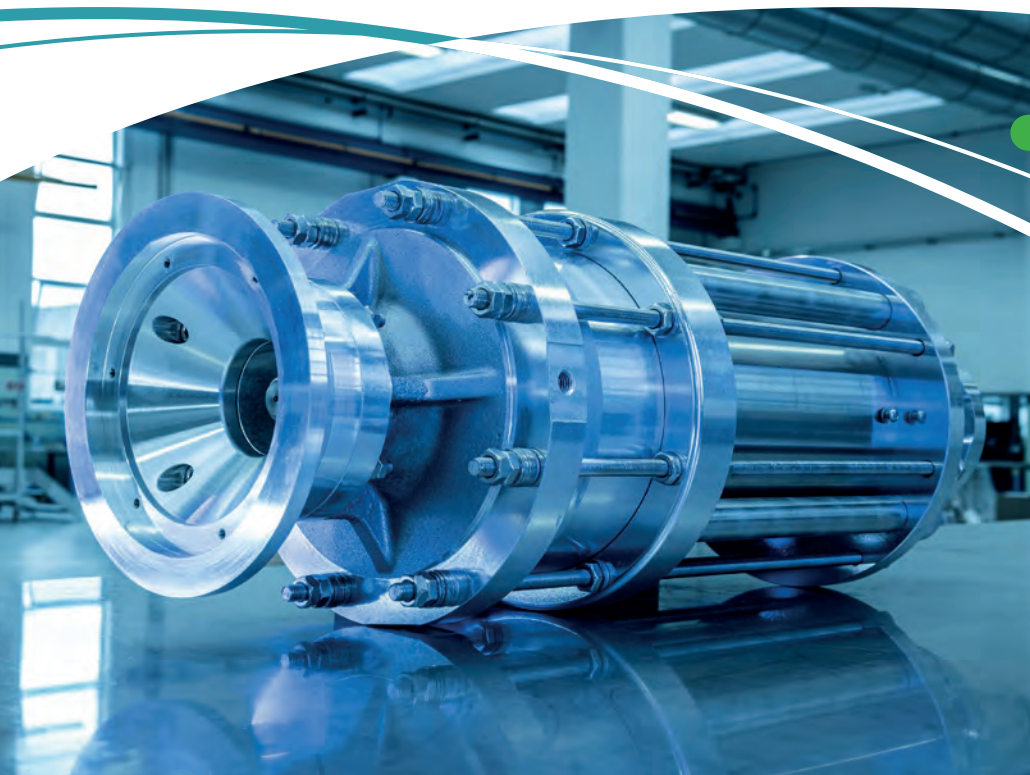
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VANZETTI  CRYOGENIC
TECHNOLOGY





Since its establishment in 1984, **VANZETTI ENGINEERING** has emerged as a premier Original Equipment Manufacturer (OEM), focusing on the precise design and construction of cross-domain cryogenic pumps.

Over the decades, the company has consistently advanced its centrifugal and reciprocating cryogenic pump series, guided by a resilient design philosophy.

Involved in the Marine, Automotive, Industrial, and Aerospace fields, Vanzetti Engineering stands for innovation and reliability.

The mission is to reshape the global fuel transition through a never-ending upgrade of cryogenic pump solutions across earth, water and air.

The company envisions a technology that goes beyond the technical aspects. To this end, Vanzetti Engineering longs to lead the green cryogenic technology to serve the planet beauty.

VANZETTI ENGINEERING

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