



We give power
to your projects



About us

We are a world class supplier of electrical power systems for aerospace and defence industry with a consolidated experience in design, development, integration, production and support of electrical power systems.

Since 1919 we equip the most important aircraft with our system solutions.



A cleaner future

We are committed to building a cleaner future, and we put our R&D efforts in making our products lighter and highly reliable, through the use of innovative materials. A lighter unit means minimizing fuel consumption, for a cleaner sky and a cleaner future.

We give power to your projects.



management | conversion | generation | distribution | system integration

What we do

POWER GENERATION

Both AC and DC, fixed or variable frequency: limitless possibilities with full customization.

POWER CONVERSION

High performance TRU, ATRU, AC/DC, DC/AC and Frequency Converters.

POWER MANAGEMENT

Analog and digital Generator Control Units, to fit any need.

POWER DISTRIBUTION

With integrated Control Unit, to manage and control the whole electrical network.

SYSTEM INTEGRATION

Integrating different equipment into a unique system to get the best performances.

Power Generation

AC and DC electromechanical equipment, including electrical Power Generators, Starters and Starter/Generators represent our core business. To reduce operating costs, our Brushless AC Generators and DC Starter/Generators are made with high performing materials; we design our Power Generators to save weight and simultaneously guarantee a high reliability, with a long time between overhaul.





Find the electrical power rate you need for your project amongst our range: our units go from 5kVA to 45 kVA for AC Generators and from 5 to 15 kW for DC Generators and Starter/Generators.



Our Research and Development department can work in synergy with our customers' engineering department to develop innovative solutions using cutting edge technologies, to guarantee the perfect match between your requirements and our products' performances.

Primary and secondary distribution boxes are available both as off the shelf and as a new designed product. Our Power Distribution range includes both analog and digital distribution boxes, to give you the perfect solution for your project.



Power Distribution

We supply advanced and highly reliable AC and DC Power Distribution Units for primary and secondary electrical systems. Volume and weight are optimized for each specific application through a careful design. Into the same unit can be fitted contactors, relays, solid state devices and circuit breakers.

Moreover, analog and digital electronics can be incorporated into any of our power distribution unit, to implement system management, protections and communication.





Light weight and reliability

Power management, protections, different communication busses and power-up or continuous built-in tests are some of the functions we can combine into a single Power Distribution Unit, to interface it with any other aircraft or ground equipment. Our fast design method allows us to provide customized and fully qualified products in a short time.

We equip a wide variety of aircraft programs with our power conversion range products. Features include unregulated configuration, to offer you the highest level of simplicity, or regulated configuration with tight voltage control. High power quality guarantee a full compatibility with electrical loads.



Power Conversion

An accurate selection of materials and components makes our Power Conversion Units extremely reliable and lightweight. Our range includes AC/DC and DC/AC Power Converters, Frequency Converters, Transformers and Transformer Rectifier Units.

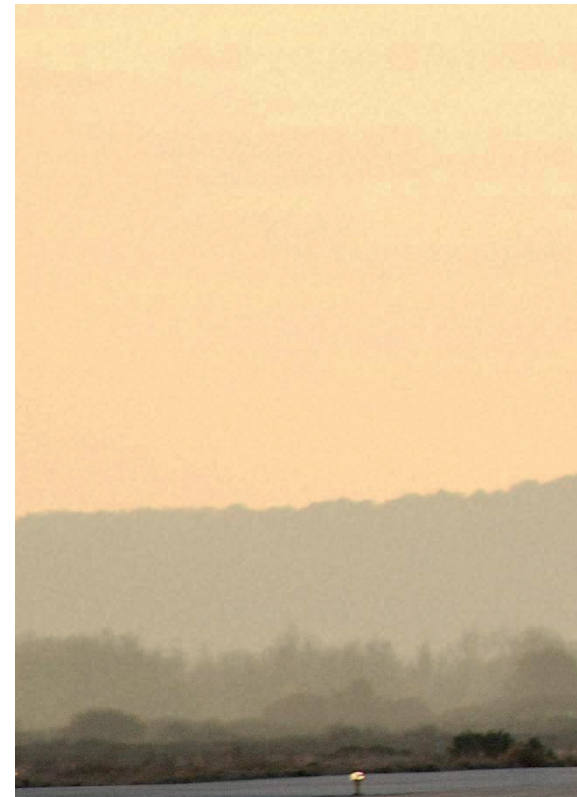




Power Management

Generator Control Units are essential in getting a good power quality combined with a high level of system safety and communication; our GCUs can record any occurrence during the operation.

Our GCUs are currently installed on several European and International programmes and combine a proven high reliability with low weight and size. Our digital GCUs comply both with the requirements of RTCA/DO 254 and 178.



Through our System Integration service our customers can achieve significant time and cost reduction in their projects' development processes. We can set up test rigs that incorporate all system equipment and perform integration tests to demonstrate the actual performance compared with system requirements.

System Integration

The whole testing process can take place in the presence of our customers. We deliver complete and ready-to-use electronic documentation about each test step and its results.





Fixed wing

From nimble and fast trainers, through powerful fighters to majestic airliners and tactical airlifters, we furnish with our products a wide range of fixed wing aircraft. We're proud to work with some of the most important aircraft manufacturers all over the world, taking care of their projects with a step-by-step assistance.

Rotary wing

A broad range of rotary wing aircraft, from 1.3 to 15 tons, is currently equipped with our units, from the single machine integrated into an existing system to the entire electrical system.

Every product can be provided both to civil and defence rotary wing aircraft, fully satisfying every requirement; each unit can be customized to fit any need.

All our units can be quickly modified and upgraded as necessary, thanks to our pre- and post-sale customer service.





UAV

Both civil and defence unmanned aerial vehicles industries are quickly evolving, becoming more demanding and challenging. We are flexible and competitive: we always offer innovative solutions to our customers, relentlessly researching into new materials and configurations.

With our reliability, these are the main reasons why we have been chosen as developing and supplying partner for the most important international UAV projects.



Defence Vehicles

Backed by many years of experience, we are the best choice for equipping armoured vehicles with advanced and reliable solutions: we design, supply, and overhaul the equipment of the main defence vehicles since decades. Besides the electrical generators, our components range for ground vehi-

cles is completed by hydraulic brake systems, fuel systems, smoke extractor fans, engine monitors and bilge pumps.

Our products and systems are currently installed on various vehicles used in peace missions all over the world.

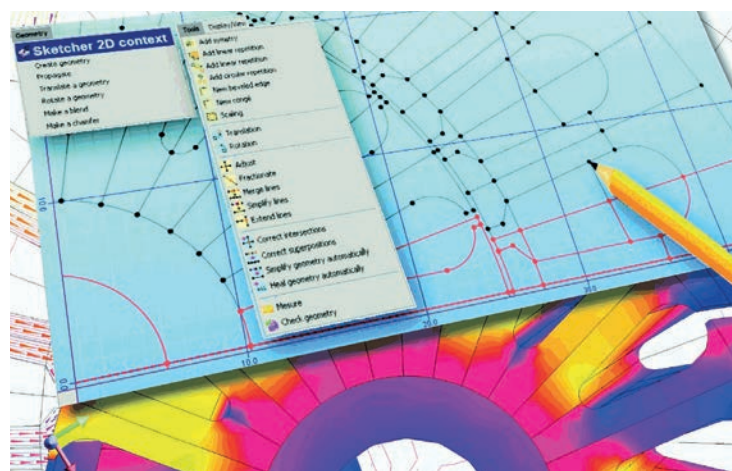
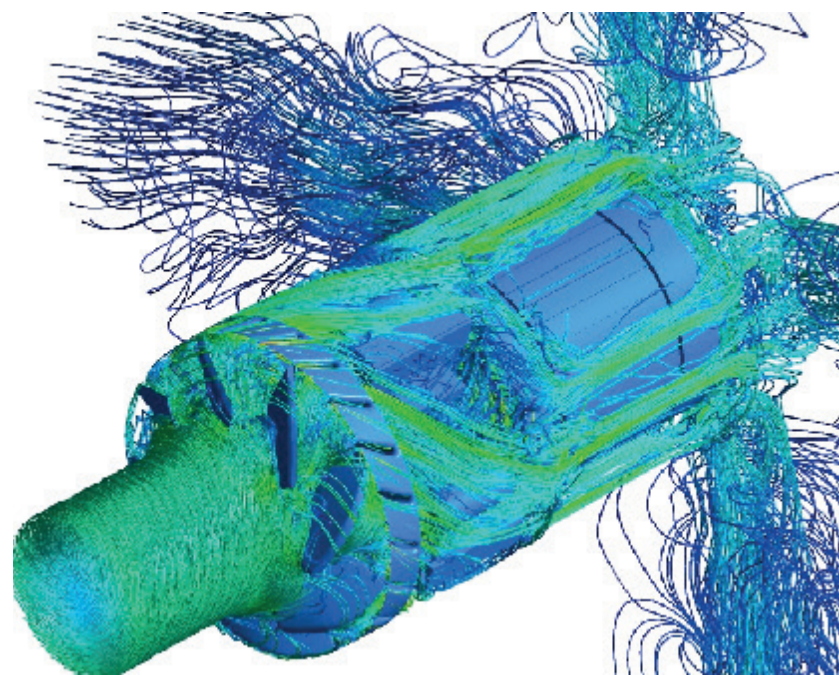
Engineering

Over the decades, we acquired a significant experience in designing and developing full electrical systems for a wide range of applications. We have a remarkable amount of empiric data, gathered over years of experience.

Our dynamic engineering team is constantly focused on finding innovative solutions to our customers, to guarantee the highest efficiency and reliability combined with light weight and cost reduction.

CAD/CAE workstations and several tools for electric simulation, structural, thermofluid-dynamic and electromagnetic FEM analysis compose the complete simulation environment that our engineering team has setup. Our testing facilities allow us to keep under control every single design step, checking products data and performances in real time during developing process.





We regularly take part in national and European R&D programs, working with the most illustrious Universities on the development of new technologies and innovative solutions. Paramount in this frame is the development of a cutting edge generator for Clean Sky Life R Craft helicopter, a flying demonstrator under Horizon 2020.

Lean production

Being customer oriented means understanding our customers' real needs and providing the expected service, even when it comes to implied needs.

This is the reason why we introduced in our company a customized Continuous Improvement program: creating an effective operating method to ensure to fully meet our customers' expectations.

We embraced the principles and the techniques of Lean Manufacturing, to improve our internal process and get a fast and constant enhancement in quality, delivery times and cost reduction, minimizing any possible waste.

Since the beginning of the Continuous Improvement program, we have been able to achieve significant changes in our culture. The extensive implementations of 6S changed our offices and productive areas and the value stream mapping technique strengthened our processes.

We apply the root cause analysis and mistake proofing solutions; through the use of the *one piece flow* technique, we reduced inventory and cycle times.

Applying the total preventive maintenance concepts guarantees the availability of critical equipment, eliminating downtime.

Our operative personnel is involved in Kaizen events; the human resources contribute to get a general improvement of working environment.

All the benefits conquered by our team since the introduction of the Continuous Improvement program allow us to be even more competitive and to face the challenges of an always more demanding market.



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9100:2018



UNI EN
9001:2015



AER-Q-2110



EASA part 21
POA



EASA part 21
APDOA



EASA part 145



TCCA CAR 573



FAA 14 CFR



APDOA



JOSCAR



TCCA
unlimited

Certifications & approvals

The full compliance of our Quality Management System in design, development, manufacturing, installation and service activities, both for civil and defence market, are demonstrated by a large set of certifications and approvals.

Special type of test equipment can be supplied and installed to facilitate products maintenance, repair and overhaul at customers' premises. Our support service is completed by clear and complete documentation and training courses for customers' personnel.

Global support

Integrated logistic support is a service that we provide to all our customers worldwide, from the earliest development phases through the whole life cycle. Fast and reliable maintenance, service and overhaul are provided to satisfy turnaround requirements, ensuring constant availability of spare parts, quick detection and resolution of any technical issue and on site support of field service engineers.



Key success factors

Customer oriented: each of your request deserves our greatest care in realizing it. We truly pay attention to all your needs.

Flexible: every project can be modified in every possible step its fulfillment, and we quickly realize every requested change.

Full satisfaction: it doesn't mean only to meet stated expectations, but also to understand and satisfy implied expectations.

Continuous improvement: we strive everyday to improve ourselves, to be even more competitive and to offer the best products and services possible.

A successful partnership

A successful partnership should be based on mutual respect and on paying heed on customer's needs.

Respecting our customers and openly trusting them means to us that we have to work to satisfy their stated expectations and to understand and fully accomplish even implied needs.

The ability of reacting quickly and the capability to satisfy every possible request, creating or modifying an existing product or a whole system are some of our distinctive traits.

We can really be the ace in the hole of your projects realization: we give you the power to your projects.



We give power
to your projects



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