



Your Best Partner  
to add value to your  
customers

**Isotrol** is a recognized engineering firm that develops products, projects, solutions and software for supervision and control systems, and also offers specialized outsourcing services. The firm maintains a clear commercial focus on excellence based on flexibility, innovation, continuous improvement, and efficiency in client relations. Currently, Isotrol has a presence in Europe and Latin America and employs over 250 professionals. In 2013, company sales reached 15 million Euro.

## We understand projects, not limits

The company's understanding of the different sectors in which it operates—Renewables, Electricity Distribution, Electricity Markets, Energy Efficiency, Education, Health and Social Services, Public Administration, Aeronautics, Industrial Sector and Water—has enabled it to become a global company, with projects in the USA, Mexico, Brazil, Portugal, Spain, the United Kingdom, Italy, Bulgaria, Turkey, India and Tunisia.



### 12 Countries

Our solutions and services are helping our customers to improve efficiency in the management of their businesses in the U.S., Brazil, India, Tunisia, Portugal, Bulgaria, Romania, Vietnam ...Turkey, India and Tunisia.

### Products for 1000 aircraft

Our ILS solutions and services for the aeronautical industry optimize the operation and maintenance of a fleet of more than 1,000 aircraft worldwide.

### 2 Million users

With the world's most extensive free software, we provide technical and communication support for an educational network of 750,000 computers and 2 million users.

# Your best guarantee for added value

Isotrol's outstanding team adheres to the strictest quality standards in the sector to ensure optimal results. Our production structure allows us to adapt to the specific requirements of the aviation industry and provide tailor-made solutions for our customers.

We focus our activities in different areas within the aeronautical sector, achieving a high degree of specialisation through our commitment to training of specialist teams and development of our own technology and working methods to ensure we are both efficient and competitive.

## Integrated Logistics Support

We cover the entire value chain for aeronautical products, offering services focused on optimisation of maintenance and operations and Life Cycle Cost (LCC) reduction. We are backed up by more than ten years of experience in this field, including provision of services for major military programmes.

We handle everything from Logistics Support Analysis (LSA) and associated analyses (RAMS, LORA, MSG-3, etc.) through to Systems Service Support, with special emphasis on technical information in two key areas: Technical Publications and Training.

We aim to ensure the success of your projects by placing all our skills and tools at your disposal.

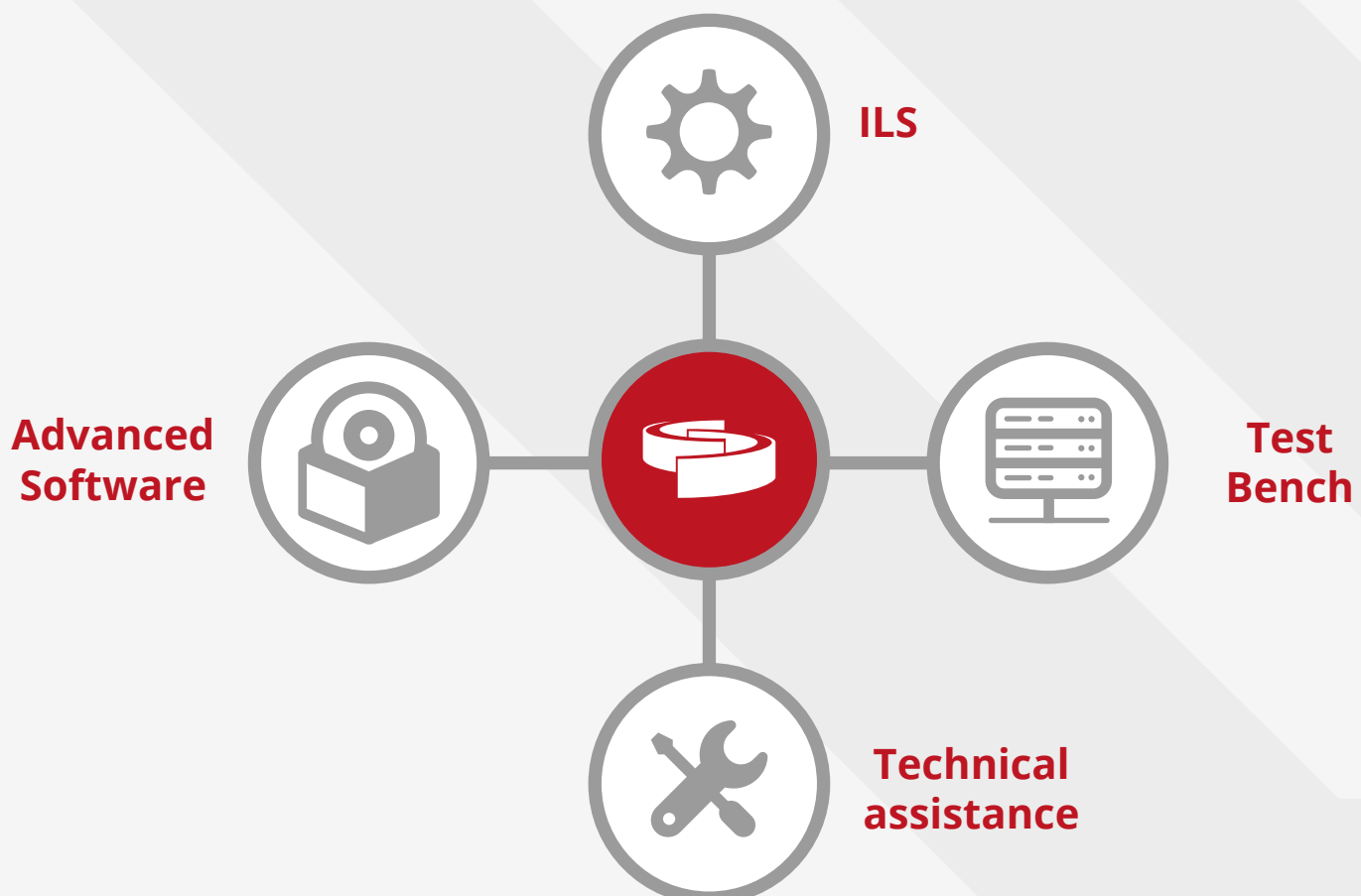


## Technical Publications

Isotrol covers the complete life cycle of technical documentation for aircraft, including manuals of all kinds (aircraft operation and maintenance, repairs and materials for complex systems: WDM, IPC, AMM, SRM), Service Bulletins, work instructions and operating manuals.

We are experts in the Business Rules definition and technical documentation specifications, as well as drafting technical manuals according to standards such as ASD (AECMA) S1000D, S2000M, STE100 and ATA iSpec2200.

*We have also gained invaluable experience through our involvement in various aeronautical programmes, including the A400M, A330 MRTT, C295, CN235, C212, P-3 ORION and the Tiger helicopter.*



## Training

We specialise in the development of training and instructional systems for the aeronautical industry, with military pilot training centres (Part-147) among our main customers.

We also design and develop complementary training tools adapted to the specific needs and requirements of our customers (mainly Multimedia Interactive Training System (MITS) tools) with a specific focus on aviation and military missions, including projects for the armed forces of more than ten countries.

This knowledge has been applied in our research activities and, together with technology centres, we are now developing immersion training systems using the latest technology such as virtual reality.

## Software and Advanced Systems

ISOTROL develops its aeronautical software and systems in accordance with strict quality standards.

Our proven experience in developing high-criticality real-time systems, in addition to our expertise in programming languages and the multiple tools available in the market, enable us to successfully tackle the needs of each project.

Our services encompass a range of areas, including:

- **Applications for communications between systems**
- **Graphic interfaces. Embedded software for avionics systems**
  - **Critical embedded real-time operating systems (RTOS) according to DO-178B/C, DO-160 and MIL-STD-498 standards**
- **Tools and improvements supported by SEAS in the field of Test Methodologies and production**



## Recent projects in this field include:

Development of hardware-in-the-loop (HIL) simulations.

Independent Validation and Verification (IV&V) of SEAS versions.

Consulting for embedded systems and DO-178B/C and MIL-STD-498 standards.

Support tools (CATS 2G).

Refactoring (CATS 3G).

Advanced Data Loggers and Software Defined Radios for UAS (Unmanned Aerial Systems).

We are committed to ongoing improvement and updating of software systems to achieve optimal efficiency and bring about improvements in lead times and production quality. Our expert team will ensure you make the most of your software systems.

We have a highly mature software development environment based on best practice and CASE (Computer Aided Software Engineering) tools, along with an advanced laboratory for hardware development and integration. All of which is complemented by a specialised, seamlessly integrated supply chain.

Due to its experience and expertise in the field of software development, ISOTROL has been certified with Maturity Level 2 (ML2) under the CMMI Methodology, the de facto international standard for software development.

# Hardware Design, Development and Manufacture

We offer complete solutions for hardware and software design, development and manufacture, combining our skills with those of our partners with whom we have established strategic alliances to provide optimal solutions tailored to the needs of our customers.

Working together with our technological partners, we are able to provide turn-key hardware and software design, development and manufacture solutions:

- Test system engineering according to customer needs and requirements.
- Hardware Integration with SEAS servers.
- Design, development and manufacture of racks, cockpits and mission consoles.
- Hydraulic, electronic and pneumatic test benches (AIM) and auxiliary equipment.

## Technical Support

We have a customer-oriented approach to technical support. Using our specialist expertise, we provide adequate and timely solutions to meet all our customers' needs in a range of critical areas using :

- Industrial computer-aided design (CAD), CATIA v5, AutoCAD and Adobe Tech Illustrator, among other tools.
- Support during the product life cycle using PLM (Product Lifecycle Management) tools.
- Control and management of technical documentation (DTS, CDS, ITS, etc.) and support for manufacturing routes.
- Development and maintenance of software support tools to implement improvements and monitor production.



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