LEAD TECH GROUP

.....your engineering partner

LEAD TECH
Integrated Logistic Support

LEAD TECH
Industrie & Développement

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Mission

Lead Tech is an **Engineering Company** skilled in providing Technical Support for the **Design and Development of Technical Publications, Management Software, Industrial Automation Systems and Mechanical Design** for both the Military and Civil fields in the Aerospace, Railway, Naval, and Industrial sectors.

Our services fall within the **Integrated Logistic Support** and include the study, design and planning of activities as necessary to ensure the **Effective, Efficient and Cost-Competitive Support** of systems/machineries during their life cycle.

We believe that **Partnership is a key factor** for every Company and the starting point for new projects, new challenges, new opportunities.

Our mission is to offer the **best Customer Care in order to establish more effective, fruitful and durable relationships.**

Lead Tech is certified according to the Standard **UNI EN ISO 9001:2015, EN 9100:2018 and ISO 14001:2015**.

Organization
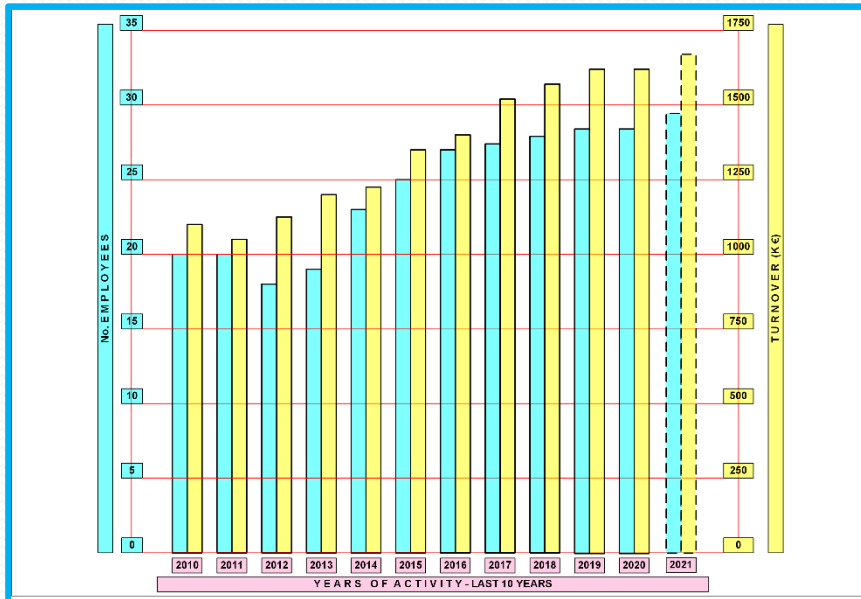
COMPANY GROWTH

Lead Tech's activities, which began in 1994, have seen a steady and constant growth in both turnover and personnel over the years.

Products and services developed for the main national Customers, are mostly provided to Foreign Final Users.

In order to expand the reference market, for some years now, we have intensified the foreign marketing activity, which has boosted the acquisition of Customers abroad.

COMPANY ORGANIZATION

The careful organization of our activities has always been one of the strengths of the Company.

Our work organization also means quality and is an assurance for the Customer who can always count on a solicitous reference person, staying aware of the progress of the activities.
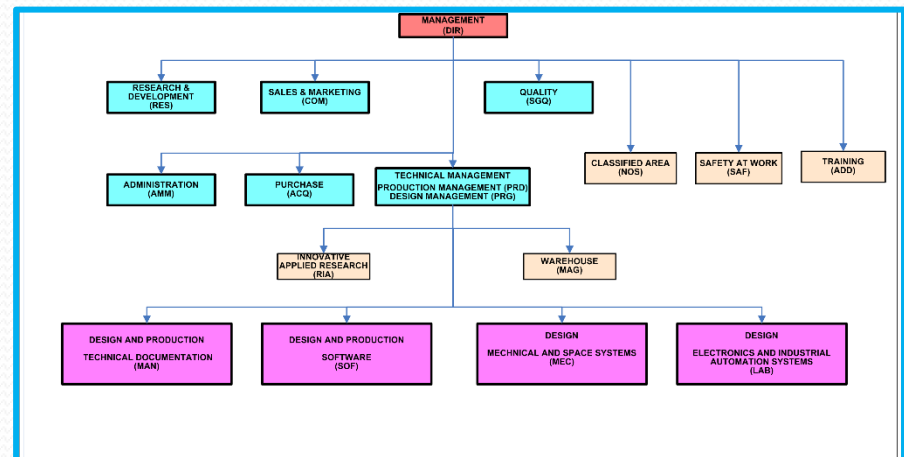
Activities

Design and Realization of Technical Documentation

We develop all the activities related to Integrated Logistic Support such as Designing and Implementing Technical Publications, Planning, Maintenance, Drawing, Training, Translations, Prints and Data Entry.

Design and Development of Software

We develop all the activities related to the Design and Development of Software for Business Management, Documentation Management and Maintenance Management.

Electronics Design and Automation of Industrial Systems

We develop all the activities related to the Design and Prototyping of Data Acquisition Systems, Command and Control for both Hardware and Software / Firmware.

Mechanical Design also applied to Space Systems

We develop all the activities related to the Mechanical Design and, together with our Partners, to the realization of Aeronautical Mechanical Components as well as of Space Systems.

Research & Development

We develop all the activities related to Experimental and Industrial Research in order to increase the Company's know-how and to offer our Partners / Customers more and more innovative and competitive solutions.
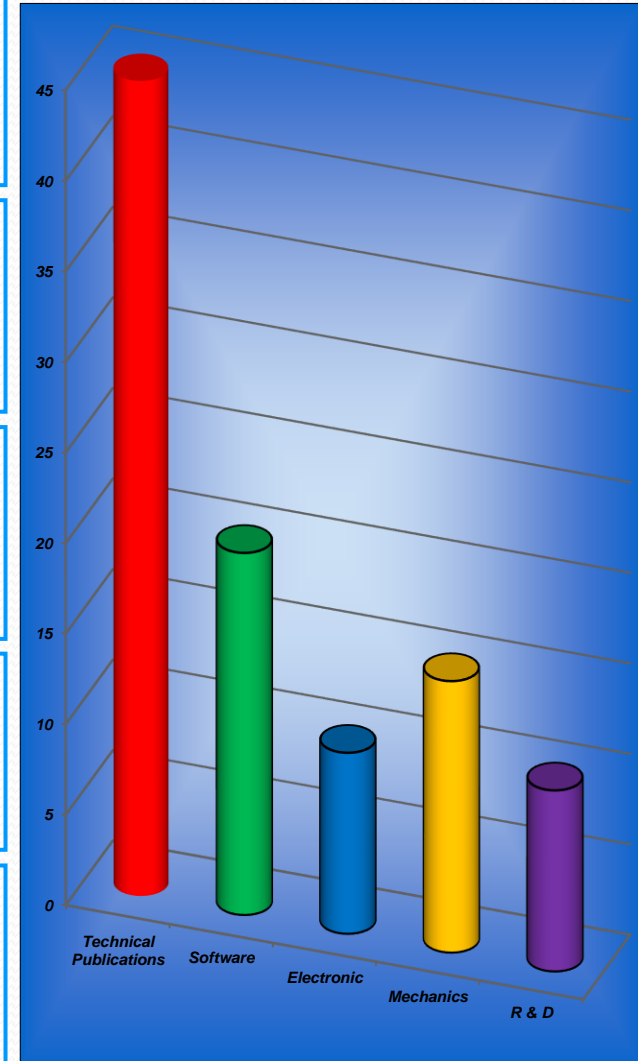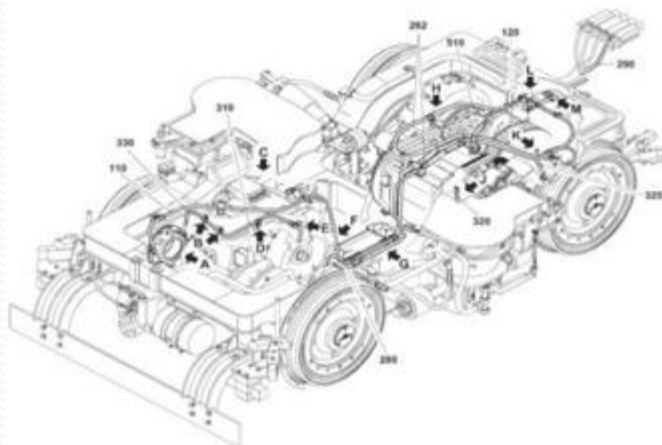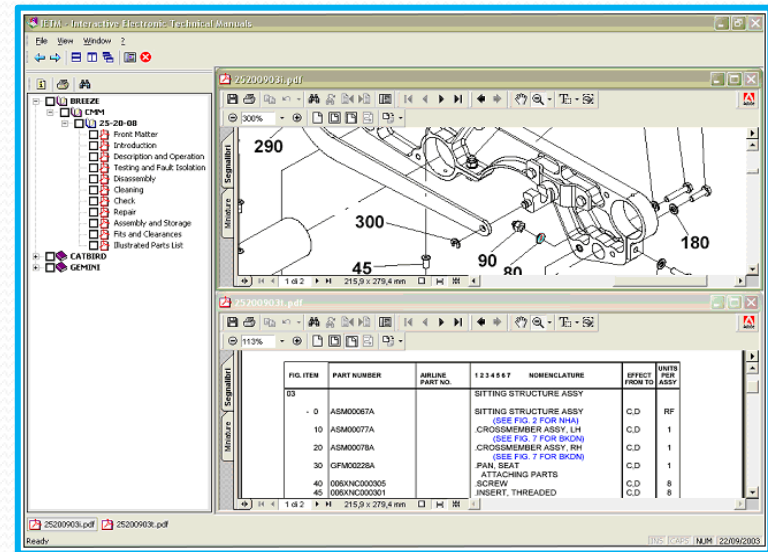
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Design and Realization of Technical Documentation
- Technical Publications -

Our Technical Publications are developed with the aim of providing clear and complete information to the end-user and can be realized both in the paper and interactive/multimedia format (pdf, html and xml).

Technical Publications can be designed and developed in accordance with the national and international Standards (ATA, MIL, AER, AECMA etc.) or according to Customer's specific requirements.

Lead Tech also carries out studies aimed at defining maintenance, reliability, maintainability and testability to identify tools and equipment, as well as at planning the maintenance activities and defining the required spare parts.

Main Products and Services

✓ Use and Maintenance Manuals

✓ Operating Manuals

✓ Spare Parts Catalogs

✓ Technical Files

✓ Tutorials and online guides

✓ Training

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Design and Realization Technical Documentation
- Technical Publications -

To support the Customer in training activities, Lead Tech designs and develops courses such as Computer-Based Training / Web-Based Training and produces educational documentation for Multi-Language training activities.

P 2550 MAINTENANCE COURSE
THEORY OF OPERATION

TASK - Right wheel removal and installation:

1. Insert jointed head in related hole on steering wheel hub.
2. Install nut and tighten, lock it with cotter pin.

The Lead Tech team supports the Customer also with Online Training by means of E-Learning tools for content distribution and education over the web.

Customer Support Services include all of the ancillary, but indispensable, activities to complete production processes.
- ✓ Multi-Language Translations
- ✓ Prints / Plotting
- ✓ 3D prints
- ✓ Data entry

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Design and Development of Software - Management Systems-

Lead Tech designs and realizes customized, simple and intuitive Management Systems to optimize activities and business processes by developing applications based on Customer's real needs.

The LMS - Lead Management System - allows the production, management and editing of S1000D Technical Publications. The "Viewer" application, for the WEB visualization of Technical Publications and the "Maintenance / Palm" application, for the management of Maintenance, operate within the LMS System.

The LMS-RFID System enables the tagging and tracking of aircraft components and systems using UHF passive RFID tags according to the ATA Spec 2000 Ch. 9 standard and according to the standards of the main Manufacturers.

The LAM - Lead Company Management System supports corporate administrative and operational management with particular attention to the management of orders, business documentation and human resources within a Quality Management System that meets the UNI EN ISO 9001 and EN 9100 standards.

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Design and Development of Software
- WEB Services and Development of APPs -

To the completion of Software Development, Lead Tech provides Web Services & Web Marketing Services, including the realization of web sites, the development of mobile Apps, and social media marketing, SEO and SEM services.

WEB SITES DEVELOPMENT	With the various solutions offered in the development of a website, Lead Tech takes care of every aspect of its realization by offering a product that the Customer can use by means of any professional, graphically captivating device to add and modify content s through access as User/Administrator in full autonomy.
APPs DEVELOPMENT	Lead Tech specializes in the development of smartphone and tablet applications for both Android and iOS systems. Through a smartphone and tablet application you can enhance visibility for your business or improve your company's work processes.
WEB MARKETING	Through SEO and SEM activities, and some specific skills related to tools such as Google AdWords and email marketing, Lead Tech provides services to make the best use of web channels to develop a company's business network, analyze market trends, anticipate their evolution and create bids targeted on specific customer profiles.

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Electronic Design and Industrial Automation Systems
- Human Machine Interface Systems -

Electronic Design was originally limited to Lead Tech's activities with the aim of developing Data Acquisition Systems and connect to the LMS-Maintenance System for Predictive Maintenance Management. Subsequently its target has been extended to prototype design and implementation of Electronic Systems for Command and Control in the Aeronautics, Automotive and Industrial fields.

In Automotive, two HMI's (Human Machine Interfaces) have been created recently, which include an innovative Infotainment System with its own Dashboard.

- ✓ Analog-digital speedometer
- ✓ Info-data real-time
- ✓ CAN BUS

- ✓ Audio / Video playback
- ✓ Integrated 4 CH x 30W Amplifier
- ✓ Bluetooth connectivity
- ✓ Radio
- ✓ Air conditioning management interface (HVAC)
- ✓ GSM connection
- ✓ Navigator
- ✓ Gyroscope and Accelerometer
- ✓ CAN Bus

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Electronic Design and Industrial Automation Systems
- Human Machine Interface Systems -
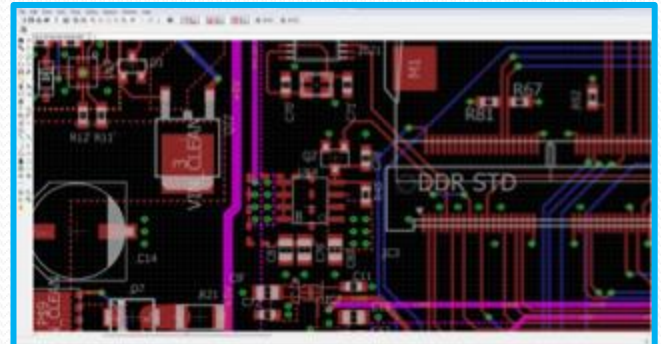
✓ *Design of control units with embedded microcontroller and microprocessor systems*
✓ *Design and implementation of prototype CNC machines*
✓ *Hardware and firmware design for assisted-pedal electric bicycles*
✓ *Data acquisition systems*
✓ *Design of video surveillance systems for road safety*
✓ *Design of Testing tools for electronic counters*
✓ *Design of Circuit Breaker Testing Tools*
✓ *Design of Electronic Card for Avio Coffee Machine control*

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Mechanical Design and Space Systems
- Mechanical Design -

> The Mechanical design activity has been particularly enhanced in recent years, working closely with several Suppliers / Partners to realize Lead Tech-designed prototypes .
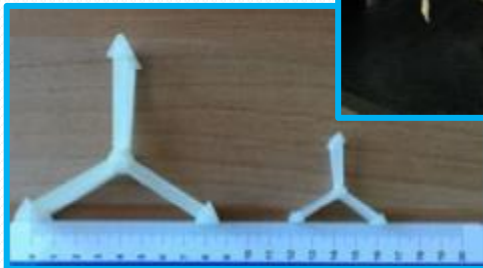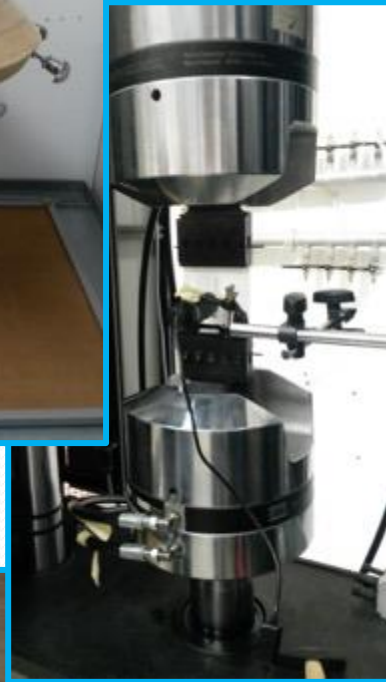
Main Activities

- ✓ Test plan
- ✓ Test Run
- ✓ Integration
- ✓ RAM analysis
- ✓ FMECA analysis
- ✓ Realization of prototypes
- ✓ Design of:
  - • Mechanical Ground Support Equipment (MGSE)
  - • Handling and Logistics Tools
  - • Thermal protection systems
  - • Deployable systems
  - • 3D-Printable systems
  - • Whole equipment (optoelectronic, pneumatic, motorized, with network of sensors) for laboratory testing or industrial automation.

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Mechanical Design applied to Space Systems
- Space Systems -

In recent years the Company activities have been extended to Space Systems through the participation of Lead Tech in important Space projects such as MISTRAL, TABASCO and MIFE.

Currently Lead Tech is at the forefront in designing and manufacturing a capsule with a variable-geometry heat shield, capable of entering the atmosphere and landing without parachute and without braking rockets, thanks to the lowest ratio between mass and frontal area ever realized by a space capsule.
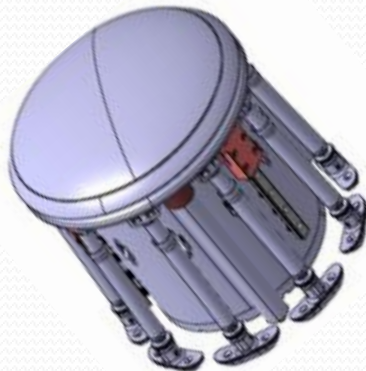
New projects include the development of a proprietary technology for 3D metamaterials with potential applications both in space and industry.

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Research & Development
- Activities Developed -

R & D activities are always present and particularly significant within the Company. They have enhanced the acquisition of new technologies and processes that have led to a high level of Company know-how.
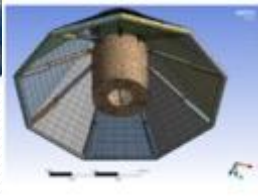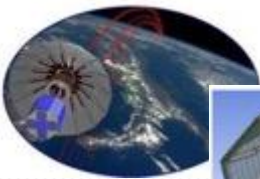
Main Activities
✓ Design and implementation of a system for detecting and monitoring seismic events in the Bay of Pozzuoli (Naples).
✓ Data acquisition system for general aviation.
✓ Design and Dimensioning of a Power Distribution System for Microsatellites.
✓ RFID system for configuration management
✓ Maintenance management system
✓ Design of thermal and mechanical protection of microsatellites.

Research & Development
- Products Realized -

Besides of improving internal know-how, R & D activities have led to the development of new products that we provide to our Customers.

✓ Flight Data Acquisition System for General Aviation

✓ RFID system for configuration and tagging with passive UHF tags according to SPEC 2000 Ch 9 Specification

✓ SW design and development for maintenance management and e-learning platform

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Main Customers

Partners

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Certifications and Homologations

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Contacts

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