

Different cultures, one goal

Elemaster offers customized solutions ensuring the highest level of expertise in every phase of the production process. With our international EMS centers, sales offices and R&D departments, we can support Customers worldwide.



HEADQUARTERS RESEARCH & DEVELOPMENT MANUFACTURING CENTERS SALES / SERVICE OFFICES

AREAS OF SPECIALIZATION



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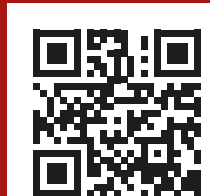
INDIA

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Electronic Technologies

Our worth is measured by **YOUR SUCCESS**

Whatever the size and complexity of your project, Elemaster offers highly customized solutions and guarantees you the highest level of expertise in every phase of the product's life cycle.



We guarantee the excellent quality of your products, from prototyping to mass production



We develop cutting-edge techniques and processes to design and manufacture products with the highest technological content



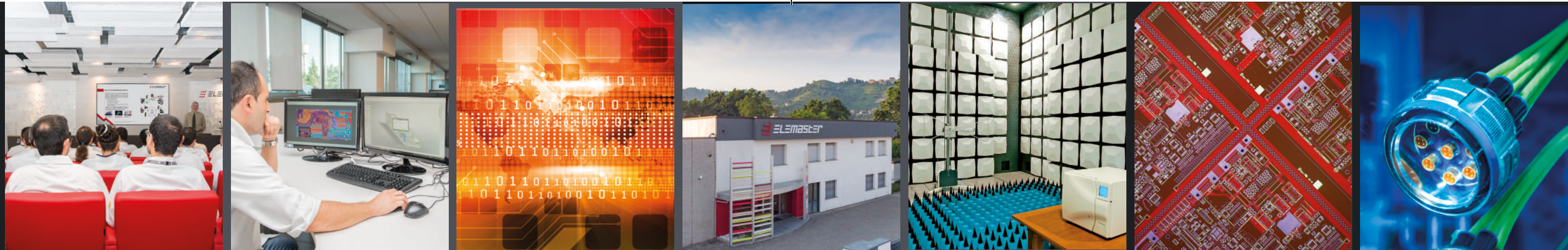
We innovate products and processes constantly to guarantee maximum production efficiency

Why Elemaster?

Choosing Elemaster means having the confidence to obtain excellent results and ensure the maximum competitive advantage for your product



ELEMASTER.COM



Research & Development

The Elemaster **International Design Centers**, R&D Division at the forefront thanks to the highly professional skills of more than 100 professionals encompassing system-, hardware-, PCB layout-, software-, mechanical and test engineers, excel in the comprehensive development and redesign of electronic devices and appliances, using best EDA (Electronic Design Automation) tools available.

HW & SW Development

The hardware design team consists of professional technicians who work in synergy with the software team, taking advantage of the latest technological solutions and taking care of development and updating throughout the product's life-cycle.

Industrialization DFT + DFM + DTC

Thanks to Design For Testability, Design For Manufacturability and Design To Cost stages, we ensure that all future testing and production operations are carried out as efficiently as possible. Through excellent organization, both in terms of manufacturing and production flow strategies inspired by lean methodologies, we can minimize production costs and easily monitor our industrial processes.

Rapid Prototyping and NPI

We specialize in the production of prototypes and guarantee constant communication to best respond to your requests in the shortest possible time. We have a manufacturing facility in Northern Italy entirely dedicated to prototypes and innovation. Here, we have a **ISO 7 Cleanroom** specialised for **Avionics & Aerospace** applications.

Validation and Certification

We use our laboratories for validation processes and for the certification of your products. All certification processes are overseen and guaranteed by international third-party entities, helping companies to gain market access by verifying compliance with national and international standards. EMC, climatic, insulation, vibration and shock tests are accredited to ISO/IEC 17025:2017 (Eletech Lab)

PCB Production

We can meet any requirement for the production of your Printed Circuit Boards, offering solid experience, cutting-edge expertise and flexibility.

Since 1988, we stand out in the competitive scenario as PCB provider with our own company, covering the entire life cycle of the circuit from the idea to the finished product.

We also have an inhouse laboratory entirely dedicated to PCB certification and validation.

Wiring Harnesses

With a manufacturing area around 1.800m² dedicated only to cable production with full automatic and semi-automatic machines we can cover a wide range of applications. With our cable scan TSK we can test low-impedance connections and protection against high-impedance short circuits. Copper, Flat, Coaxial, Battery cables for all types of signal, power supply and HF: all you need, we have it!

Elemaster can manage the entire lifecycle of your products

PCBA & Box Built

SMT Assembly

Elemaster uses state-of-the-art technology for the automated assembly of SMD components, exceeding the most stringent quality controls. These include the Solder Paste Inspection (SPI), Automatic Optical Inspection (AOI) and X-Ray Inspection.

THT Assembly

Elemaster offers THT assembly service using both manual and automatic assembly lines with waves and selective soldering machines, which ensure great flexibility.

Testing and Controls

We have advanced equipment for the ICT with Bed of Nails technology or with Flying Probes. The process, integrated with the phases of On-Board programming and JTAG Scan, ensures maximum quality. We also have a **ISO 7 Medical Clean Room** (at Lomagna HQ) designed for medical-grade manufacturing. These controlled environments ensure compliance with international standards, enhancing reliability and safety.

Functional Test

The Test Engineering Team is able to develop functional testing equipment according to the specifications required by the customer. The pride of the department is ELETEST, a complete and flexible solution, able to meet the most complex needs.

Conformal Coating

Each production site has fully dedicated departments for conformal coating process, complete with drying and temperature-humidity climate control facilities. Elemaster offers you the best technology for automatic selective coating.

Turnkey Solutions

We perfectly manage all final stages of construction of your products, such as electromechanical assembly, wiring and additional components integration with the "Free Pass" process. Our capabilities and qualified partners let us purchase all custom components, not only electronic ones. Thanks to comprehensive supply chain management, we offer CMS services.

Logistics and After-Sales

We can manage the logistics & after-sales support on a global scale, by:

- dedicated Repair Center.
- technical assistance, including repairs on returns not made by us;
- Product Refurbishment;
- Evolutive Maintenance and qualified partners let us purchase all custom components, not only electronic ones. Thanks to comprehensive supply chain management, we offer CMS services.
- single point of contact for RMA;
- spare parts management in High-mix Low-Volume;
- direct shipments to distribution centers.

Engineering Services - International Design Centers

Elemaster works for companies operating in different sectors, providing great flexibility in production volumes and exploiting processes and technologies. Specialized in High Mix / Low&Mid Volumes.

PCB

Wirings

