

**Advanced Electronic Solutions  
From Design to Manufacturing**



## Ideas

Using **DFM** (Design for Manufacturing) and **DFT** (Design for Testability) combined with over 40 years of experience, Prima Electro translates product ideas into specifications, offering support from the concept and preliminary analysis through the qualification and production stage, supervising the whole manufacturing process.

Vertical integration, **full service design** and **production capabilities** make Prima Electro a key **EMS partner** for any company interested in **dedicated industrial-grade electronic solutions**.



## Design

- Software and hardware development
- Secure FW/SW and HW Trusted platform for cybersecurity and cloud connection
- Electronic/electromechanical and mechanical design
- Advanced design tools and electrical/thermal simulation of new power boards
- **FMEA** as required for SIL and PL applications
- **RAMS** analysis and ILS
- Design for Manufacturing & Testability (**ICT** and **FCT**)
- **DfAM** (Design for Additive Manufacturing)



## Specifications

- Feasibility studies, pre-design and cost analysis
- Foster a strong synergy with customers early in the development process aimed toward building a long-term win-win relationship



## Qualification

- Detailed calculation of timing after Trystorming simulation on functional prototype assembly
- 100% Automated tests both for boards and VSD final assembly
- All projects are **CE** and **UL/CSA compliant**
- Design and construction of test benches (vibrations, environmental, EMC/EMI, electrical safety)
- **ISO9001:2015 QSM**



## Industrialization

**From design to manufacturing:** by a close collaboration between its engineers and the customer, Prima Electro defines all processes and tools to design an industrialized product.

What we offer:

- Cost reduction and maintenance
- Performances improvement
- Environmental sustainability
- End-of-life management
- Monitoring and enforcing of project planning from start of design to start of production

**40+**  
years on the market

**200,000**  
electronic boards/y

**12,000+**  
mid/high power inverters/y

**20,000+**  
industrial products/y

**3**  
plants in EU and China

**1**  
R&D center



## Production & Manufacturing

- Core processes for electronic boards manufacturing (**SMT & PTH**)
- Automatic optical inspection/ X-Ray machine for BGA inspection
- In Circuit Test machines
- Flying Probe machine
- Run-in & Burn-in test/ Functional test
- Conformal coating

## Markets

**INDUSTRIAL  
AUTOMATION**

**RAILWAY**

**E-MOBILITY**

**ENERGY & GREEN**

**ADDITIVE  
MANUFACTURING**



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