SOLUTIONS AND SERVICES FOR YOUR ELECTRONICS
VISION, ETHICS AND FAMILY VALUES ARE THE ELEMENTS THAT MAKE MB ELETTRONICA HISTORY WINNING SINCE 1961.
MILESTONES IN OUR HISTORY

1961: Francesco Banelli founds the company Cafel, a company that assembles parts for tape recorders, players and radios and other consumer products.

1988: Francesco Banelli founds MB Elettronica, a company that manufactures products for primary customers in the railway, pacekeeping and telecommunication markets.

1999: MB Elettronica achieves the ISO-9001 certification, that is substituted in 2001 by Vision 2000


2013: MB Elettronica opens its new plant

2014: New ERP System goes live

2015: MB Elettronica achieves the IRIS certification for engineering and manufacturing activities

2016: MB receives the KB Awards “Supplier of the year” and gets EN9100 Certification

2017 MB gets two NADCAP Certifications and ISO TS Certification
MB represents a solid bridge between product development and producible products. We also provide services of Fast Prototyping and After Sales.
SOLUTIONS AND SERVICES

MB Elettronica lives alongside its clients to develop solutions together, that can meet the most demanding requirements in the field of technological innovation without overlooking the economic factor.

Competence, skills, technology assets and more than 50 years of experience is the fundamental key to understand problems, find quick solutions and guarantee definite delivery times.

Our business model is based on tailor made solutions for individual needs for volume and products variants.
OUR KNOWLEDGE SUPPORTS CUSTOMERS IN THE MOST IMPORTANT INDUSTRIAL SECTORS

HIGH COMPETENCE ANY VOLUME

Aerospace and Defence
Audio Industry
Security
Professional communication
Medical
Railways
Automotive

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- New ERP
- New SMT Line
- Lean Warehouse operation and Traceability Assurance
- New SMT line
- 6 engineers in staff and development
- IRIS Certification
- 4 engineers in staff
- Document management system
- EN 9100
- 3 engineers in staff
- New SMT Line
- Lean Warehouse operation and Traceability Assurance
- ISO/TS Certification
- NADCAP Certification
- ISO/IEC 27001
- SPI + 3D AOI
- New SMT Line
- Selective Soldiering Line
- 3D Professional Printing

YEAR

18% export

2014
- 122 employees
- 15.8 million € sales

2015
- 128 employees
- 18.1 million € sales

2016
- 163 employees
- 32.1 million € sales

2017
- 170 employees
- 40 million € sales

2018
- 204 employees
- 47.5 million € sales

BUDGET

YEAR: 2014
- New ERP
- Layout Lean
- New SMT Line
- 6 engineers in staff and development

YEAR: 2015
- IRIS Certification
- 4 engineers in staff
- Document management system

YEAR: 2016
- EN 9100
- 3 engineers in staff
- New SMT Line
- Lean Warehouse operation and Traceability Assurance

YEAR: 2017
- ISO/TS Certification
- NADCAP Certification
- ISO/IEC 27001
- SPI + 3D AOI

YEAR: 2018
- New SMT Line
- Selective Soldiering Line
- 3D Professional Printing
SITE CERTIFICATIONS AND STAFF QUALIFICATIONS

ISO 9001
Certified Quality System
Member of CISQ Federation

EN 9100
Certified Quality System

RINA
Member of CISQ Federation

ISO 9001
Certified Quality System

RINA
Member of CISQ Federation

ISO/TS 16949
Certified Quality System

RINA
Member of CEQ Automotive

Certified IPC-A-610
Application Specialist

European Cooperation for Space Standardization

ISO 27001
Certified
A selective investment policy in choosing the facilities allows MB to offer an assembly service in line with the high quality standards combined with a high production flexibility.
Active since 2012 the “Clean Room” is realized in accordance to the US Fed. Std. Class 100000 (ISO 8), Space Qualification.
Main facilities for board population and inspection, parts traceability is fully guaranteed.

### Tools and Equipments

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TESTING, BOX BUILD AND SYSTEM ASSEMBLY

Leading equipment for all kinds of tests e.g. Flying Probe, Boundary Scan, Functional Test. Development and realization of custom HW and SW Functional Tests.

Dedicated area for customer combined with the skills of our qualified technicians guarantees the maximum reliability in every step as required.
Rework and repair of BGA, Underfilling used to increase the device resistance to shock or drop failures, conveyorized Coating for in-line production.
HARNESSES & CABLE ASSEMBLY CONTRACT MANUFACTURING

We have been manufacturing cables since 1964, our production range covers many sectors, from railways, avionics, telecommunications, industrial automation to marine and military industry, as result of continuous investments in people and machines.

We combined high know-how of the staff with the latest generation of machines. Our manufacturing capabilities and versatility enable us to manufacture an extensive product range. We can manufacture to customer specific high technological specifications also for relatively low volumes of productions.
CUSTOM CABLE MANUFACTURING AND WIRE HARNESS ASSEMBLY

We manufacture all types of cable assemblies using hand and automatic pin crimping machinery or soldered connections.

We produce harnessed cables with moulded plugs on request also for your special application.
CABLE AND WIRE HARNESS QUALITY

Cutting machines, winding machines and automatic crimping machines
Connector molding
Mechanical assembly / Semi-automatic product integration

A constant control of the process guarantee the highest quality level of products.

**CONTINUITY:** Harnesses are tested on proprietary equipment to ensure correct routing of all connectors and wires.

**POLARIZATION:** Testing is done to check polarization of all connections, ensuring proper grounding and safety.

**PULL TEST:** Weights are added at various stress points to test sufficient flex and hold. Ensuring long lasting connections.

**VISUAL INSPECTION:** All harnesses pass multiple inspection points by trained QA Inspectors.
Every Customer’s BOM is evaluated on individual parts data to focus each risk in sourcing, manufacturing process, lifecycle and ensure compliance with environmental regulations. Proactive manage of component obsolescence with PCN/EOL alerts when there’s a change in lifecycle.
Traceability means goods control over the whole Supply Chain. Our logistic process is characterized by Real Time Data Availability, Lean Warehouse Operations, full Traceability and FIFO system.
The development team consists of a group of engineers who have gained a long experience in the electronics aimed at Security, Broadcasting, Railway and Industrial Sectors.

Many of the devices designed by MB Elettronica are installed on highway surveillance System, telecommunication nodes, broadcasting, railway coaches, also high speed trains, underground vehicles.

Thanks to the close connection between development and manufacturing facilities of MB, the customer can take big advantages in terms of quick responses to its problems and a very high level of flexibility.

- Design on Customers specifications
- Hardware & Software Engineering
- Prototyping, Environmental, Reliability & EMC test
- Product Industrialization
- Test Bench realization: ICT and FCT
- Adoption and implementation of technical standards and relevant updates:
  - Cenelec Standards EN-50126, 50128, 50129
  - IEEE 1558 and associated standards
- Reverse Engineering
In After Market applications, MB can provide its Customers with:
• Re-engineering and re-design of electronic boards
• Obsolescence protection management (monitoring of components’ obsolescence)
• Service on field and troubleshooting

The activity is carried out on electronic boards designed and manufactured several years ago and now required as spare parts.
The activity includes
  1. Review of available documentation
  2. Analysis of obsolescence
  3. Analysis of compliance with current regulations
  5. Redesign and design and manufacturing documentation update.
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