



PCB Competence

Manufacturing
and service



Ours is a long history

Alba PCB Group offers a global service for the supply of printed circuit boards by expertly and reliably guiding its customers in choosing the best solution for the procurement of any type of printed circuit board.

Born from the impetus of Alba Elettronica, the parent company and now headquarters producing printed circuit boards since 1989, the group has maintained and grown its Italian production plant while developing its manufacturing presence in the Far East. The consistently pursued expansion strategy, also on an international level, has earned the group an increasingly strong leadership over the years.

Ours is a long history of circuit boards, expertise and customer service.

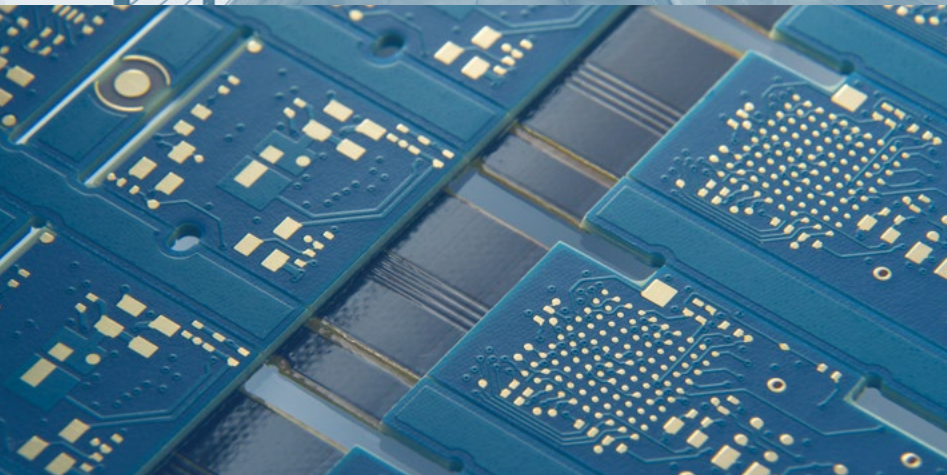
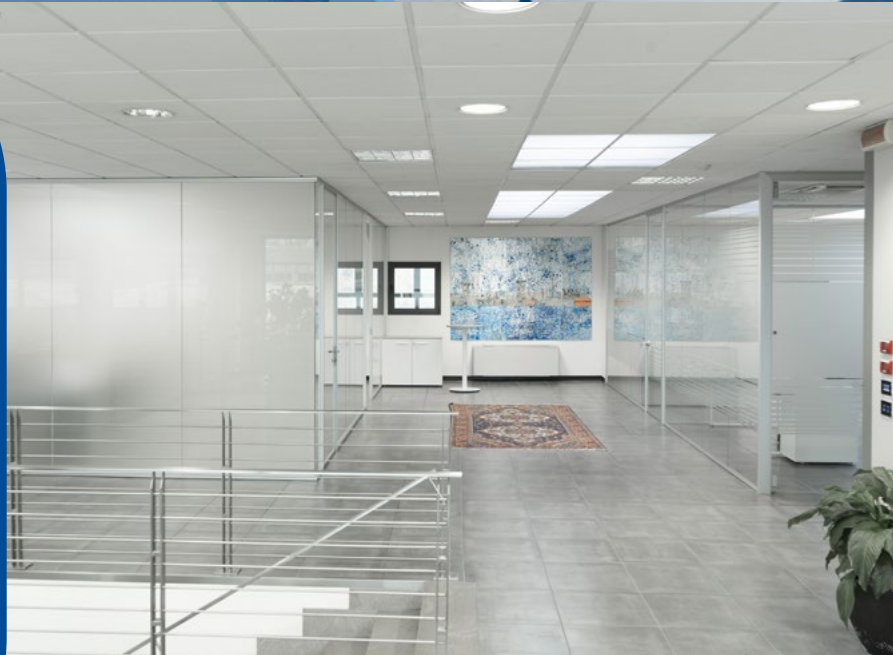


Production plants:
Italy, China.

Manufacturing partners:
Far East.

Technical and
sales offices:
Italy, Poland, Germany.

Commercial office:
Spain.



All services for the circuit board



Thanks to the comprehensive range of services it offers its customers,
Alba PCB Group acts as a single point of contact able to create
tailor-made solutions for every technical, production and logistical need.

ITALY AND FAR EAST PRODUCTION

Standard prototype

Express 24H prototype

Standard productions

Express Productions

Buffer stock

Consignment stock

DIRECT SALES FROM CHINA

Mass productions

ONLINE SHOP

Prototypes and productions produced
by Alba Elettronica in Italy

ALBA
ELETTRONICA

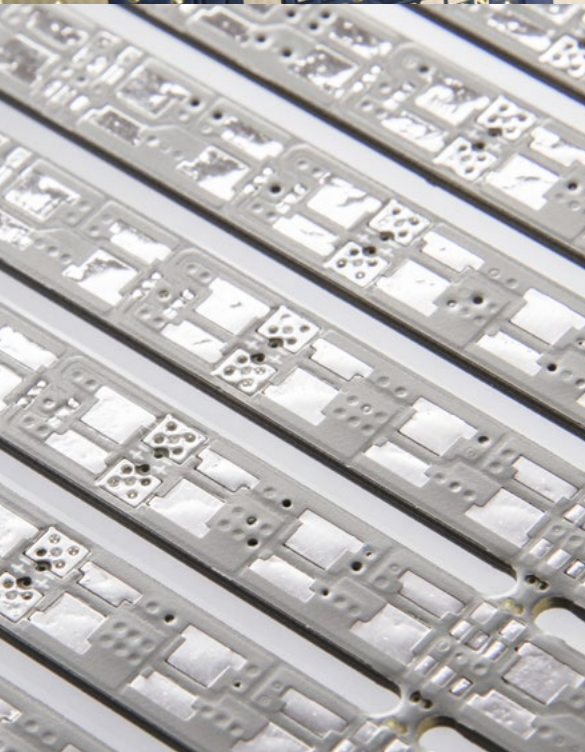
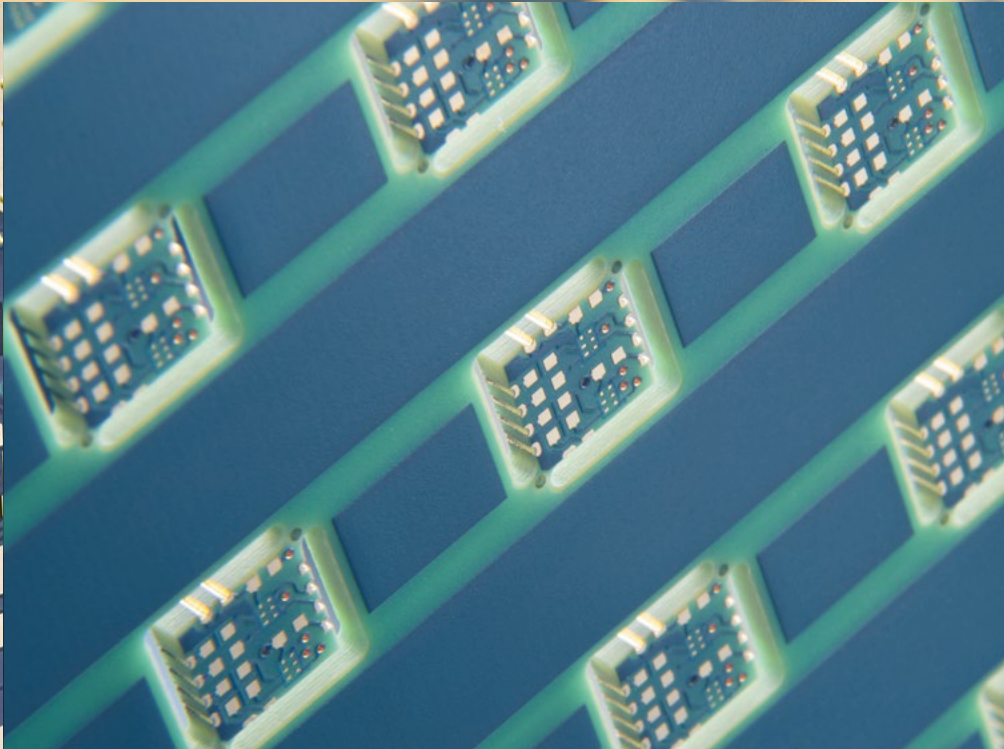
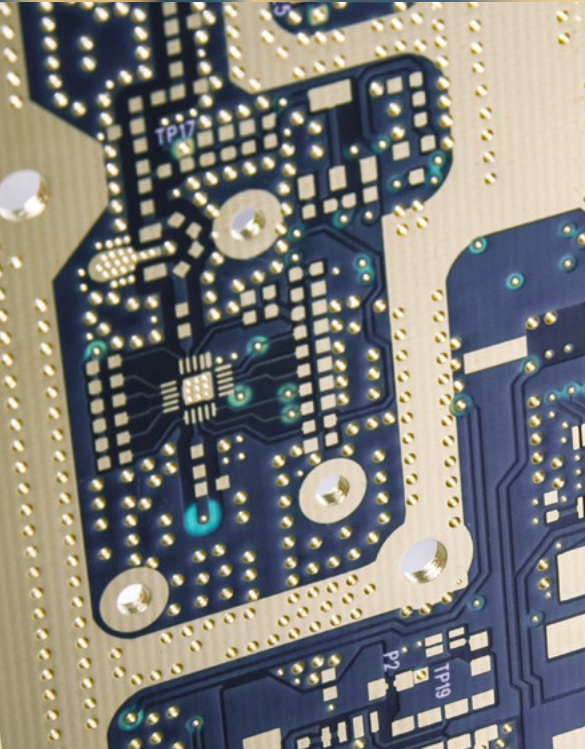


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Every type of PCB

Alba PCB Group manufactures printed circuit boards of all complexities and for all sectors, offering solutions for any requirements regarding characteristics, materials and finishes.





1-2 LAYER



MULTILAYER



EMBEDDED COPPER
COIN



FLEX, RIGIDFLEX
AND SEMIFLEX



IMS



SPECIAL
PROCESSING

The double track guaranteeing the supply

EUROPEAN SUPPLY CHAIN

ENGINEERING IN
EUROPE



FAR EAST SUPPLY CHAIN

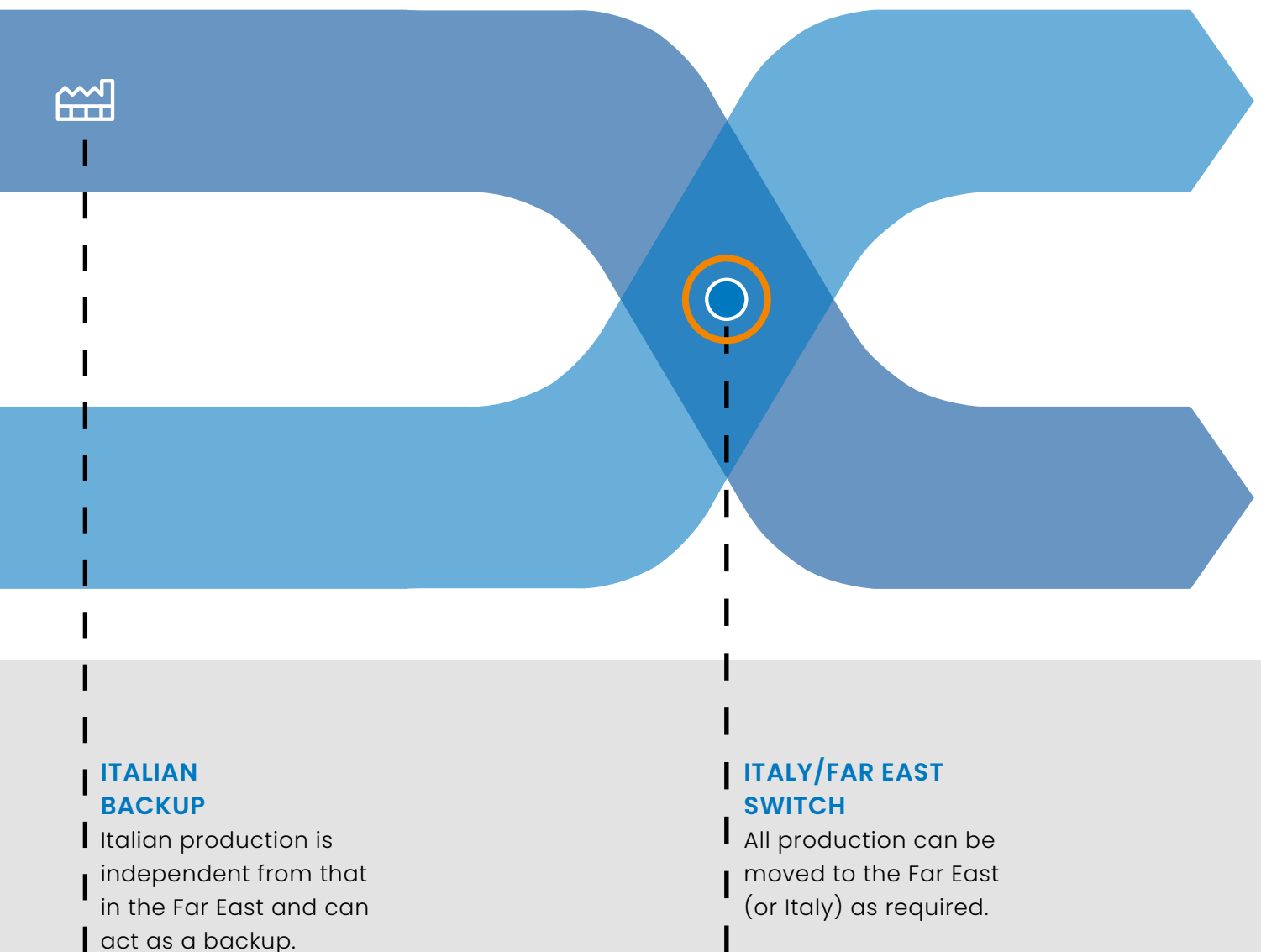
PROTOTYPING WHEREVER YOU PREFER

Depending on requirements, prototypes can be produced either in Italy or in the Far East.

PARALLEL PRODUCTION

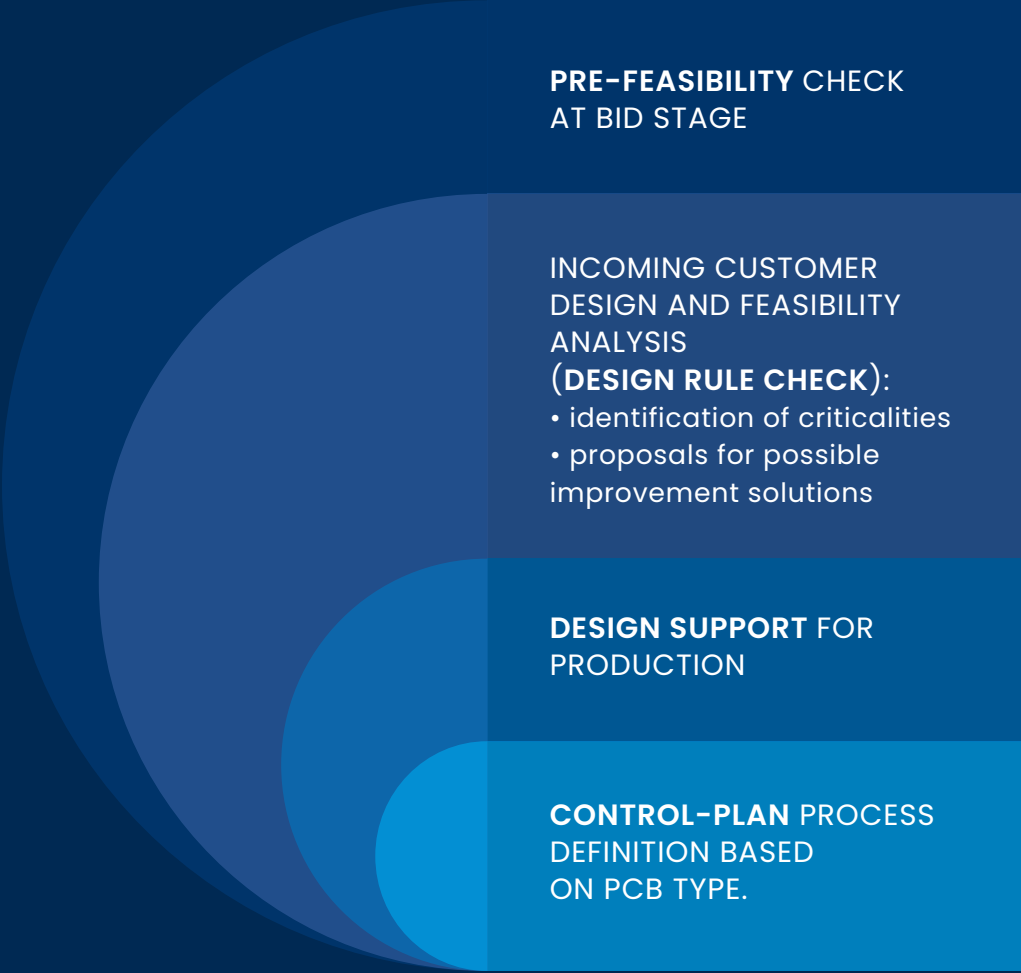
Mass production can take place on both supply chains.

Alba PCB Group has developed its total service philosophy on a dual-supply production organisation: European production and Far East production independent of each other. This allows maximum flexibility because it is possible to easily switch from one to the other according to the customer's needs, ensuring effective support in the event of unexpected contingencies: a guarantee on the supply and delivery of printed circuit boards.



Solutions from PCB manufacturers

An experienced technical department that, with the most modern dedicated IT tools, is able to process the customer's information in a productive way, checking its feasibility and proposing improved solutions.



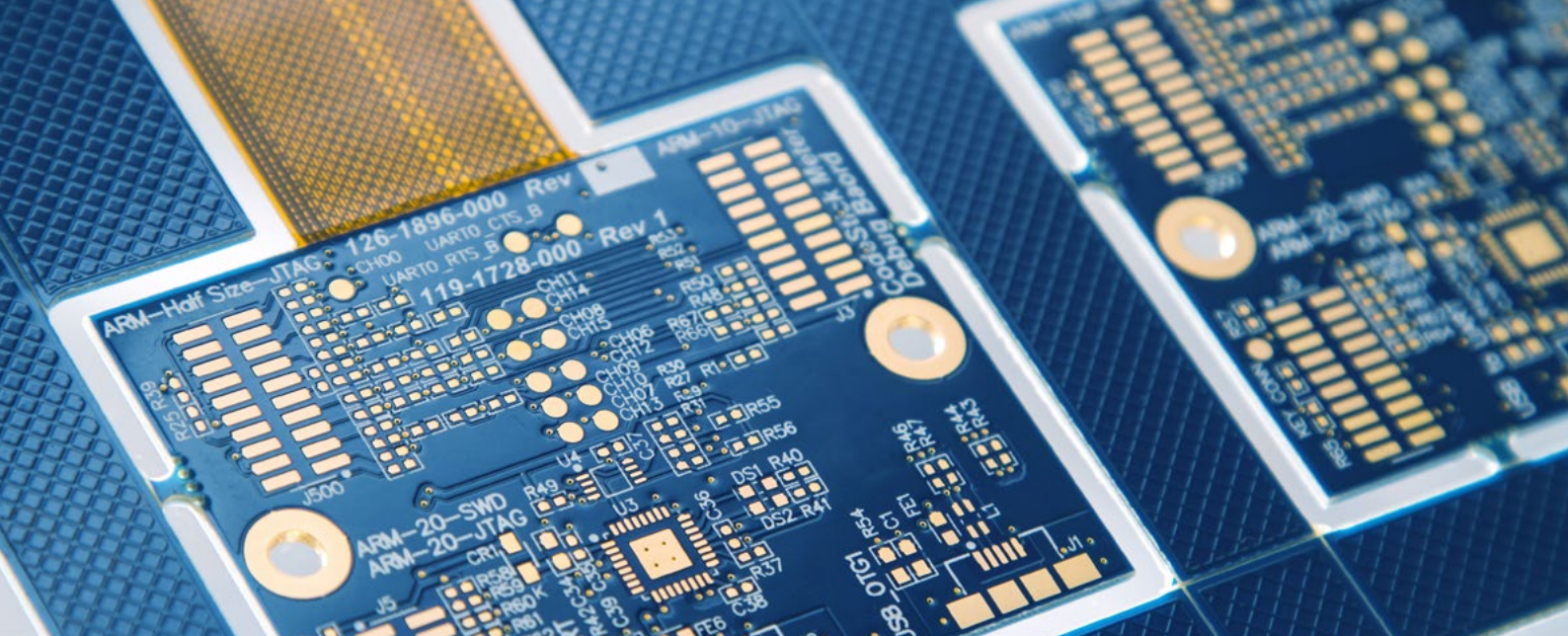
PRE-FEASIBILITY CHECK AT BID STAGE

INCOMING CUSTOMER
DESIGN AND FEASIBILITY
ANALYSIS
(**DESIGN RULE CHECK**):

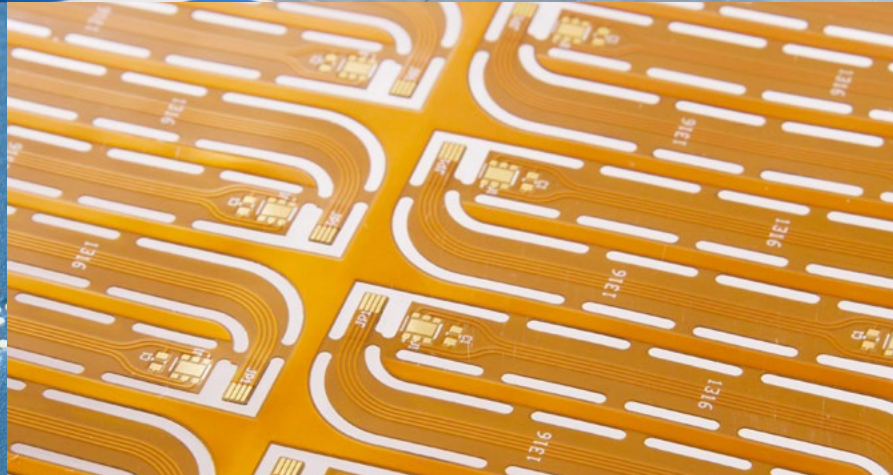
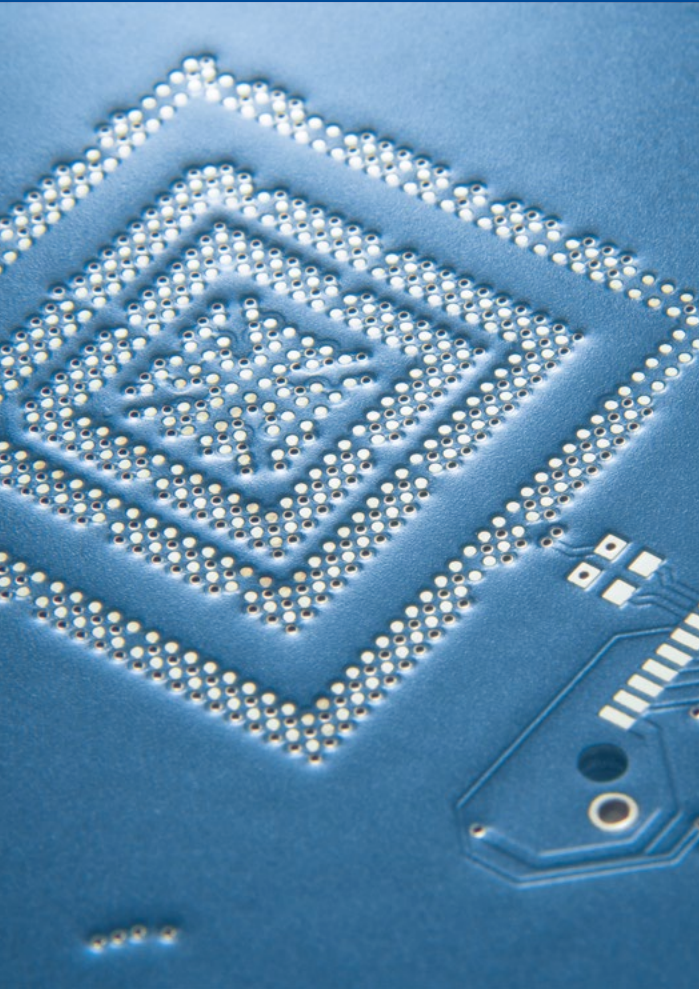
- identification of criticalities
- proposals for possible improvement solutions

DESIGN SUPPORT FOR PRODUCTION

CONTROL-PLAN PROCESS
DEFINITION BASED
ON PCB TYPE.



All staff at your
service: technicians,
sales and R&D
management.

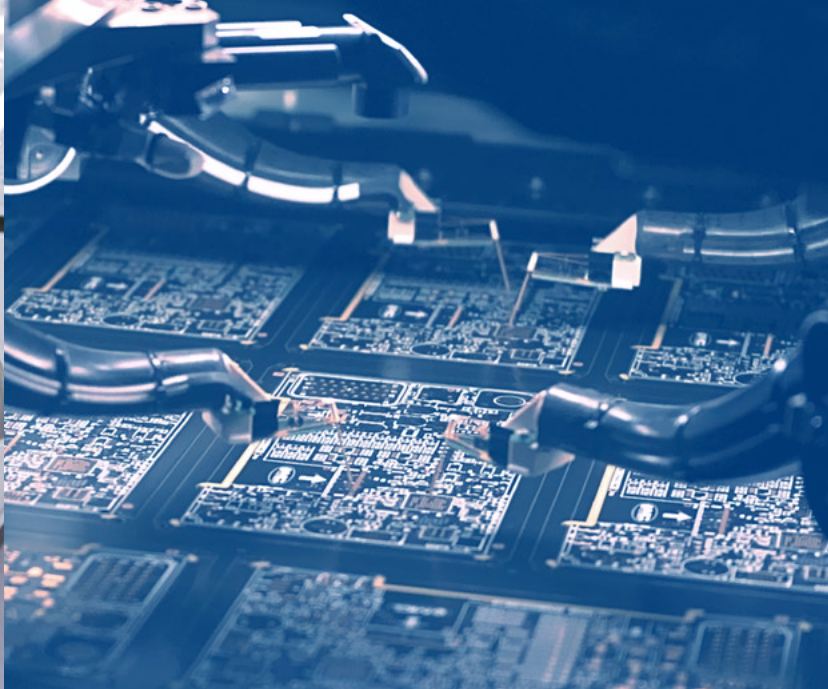
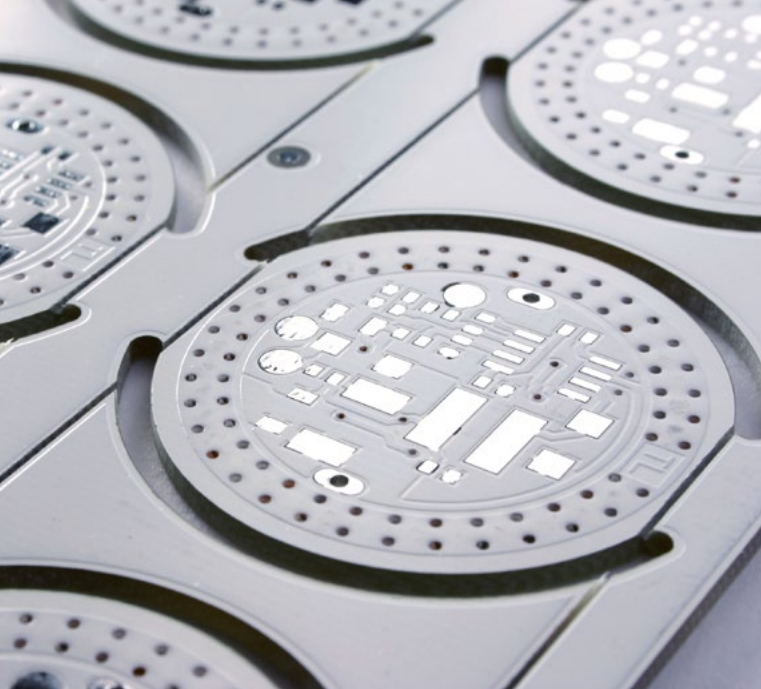


Our Made in Italy production

Since 1989, Alba Elettronica has been manufacturing printed circuit boards of all types to the highest quality standards. The creation of a printed circuit board is based on a wide range of knowledge: photography, electronics, mechanics, chemistry, metallurgy, electroplating. It requires the use of sophisticated software, different specific processes and the use of many materials: from laminates to resins, from photosensitive films to metal alloys.

Our expertise in the entire process and the use of high-tech equipment allows us to respond to the continuous evolution of electronics and the ever-changing demands of the printed circuit board market.

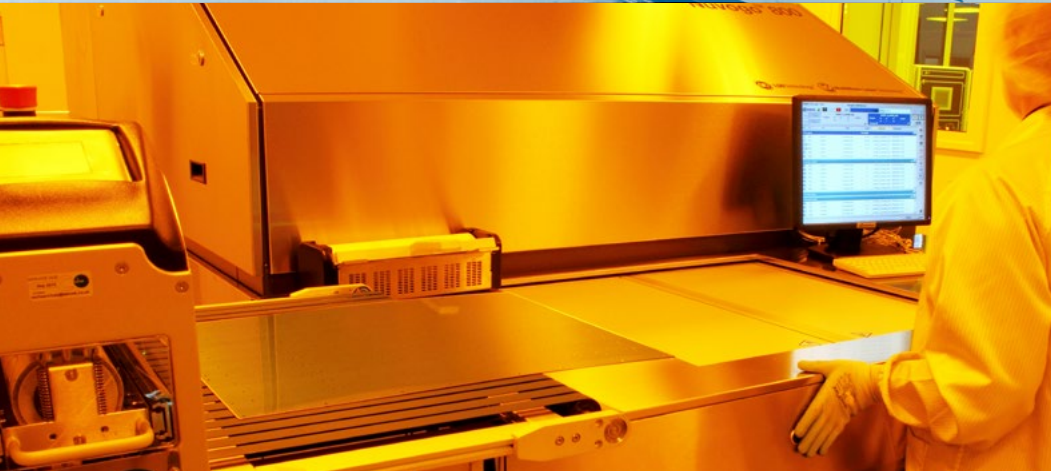
Today, production takes place in a modern high-tech plant where the use of increasingly automated processes allows speed of execution and great flexibility of service.



Hi-Tech
production plant

4,000 sqm production plant

200 sqm per day
production capacity



50,000 sqm
per year production
capacity

From Europe or the Far East

Alba PCB Group manages product logistics from Italy and the Far East to every location in the world, acting as a single point of contact for the organisation of the entire finished product delivery process. We produce, store and deliver as required, also providing a buffer stock and consignment stock service. Shipping, management of the necessary documentation and optimisation of carriers are aimed at ensuring a timely delivery.

LOGISTICS:

From Europe or the Far East to all countries

CONTROL AND STORAGE (ITALY, POLAND AND GERMANY):

Buffer Stock and Consignment Stock

TRANSPORT MANAGEMENT:

By air, by ship and by train.



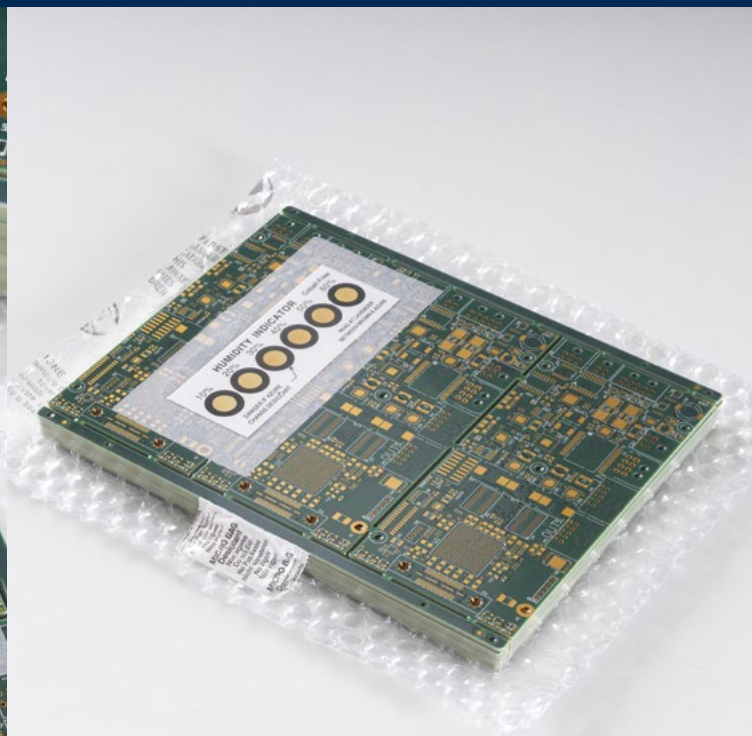
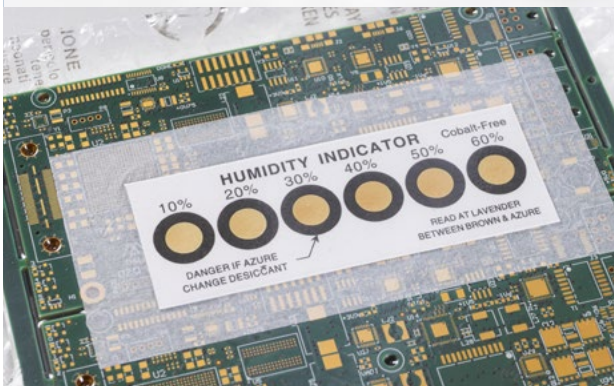
A single point
of contact for
the organisation
of the entire product
delivery process.



The right PCB packaging

STANDARD PACK

Packaging in shrink-wrap/polyethylene foil shrink-wrapped on with micro-bag desiccant insertion and HIC (moisture indicator).



The packing and packaging of the circuit board can be different according to requirements. The solution is defined in agreement with the customer, assessing the criticality of the PCB and in relation to the logistics used.

STANDARD PACK

+ PE PLASTIC VACUUM BAG

PE plastic vacuum bag in addition to bubble wrap increases the moisture barrier.

Dedicated for transport by ship.



STANDARD PACK

+ MOISTURE BARRIER BAG

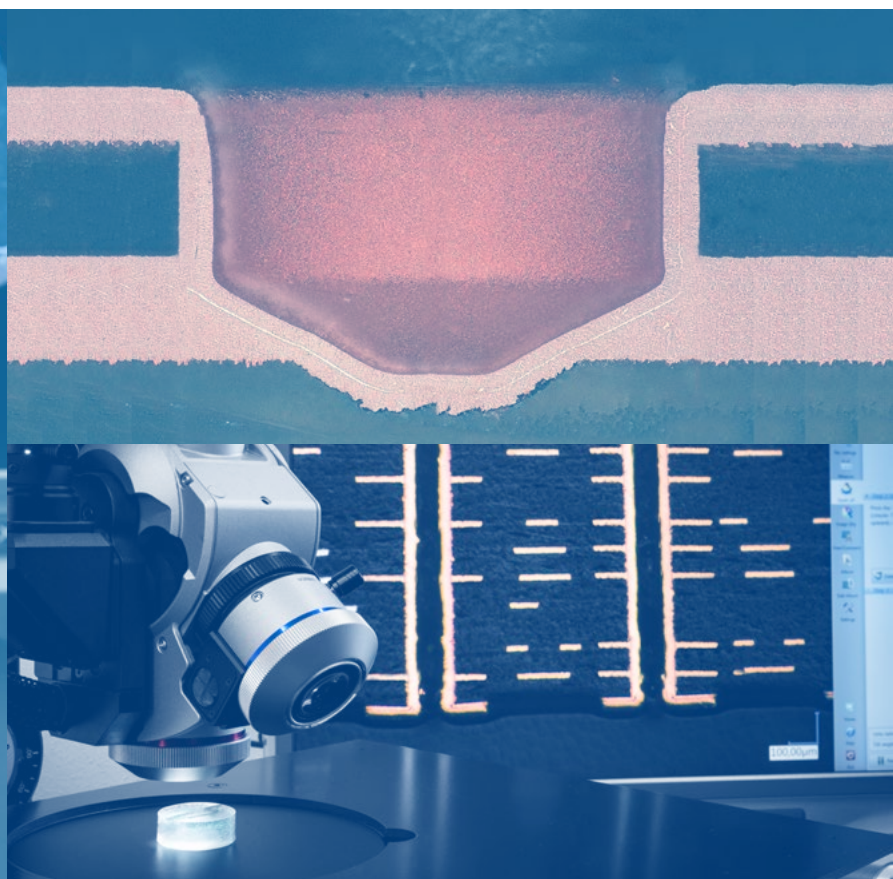
THE BEST PACKAGING FOR PCB

The printed circuit board is a moisture-sensitive device, so we also implemented packaging with MBB, packaging designed to protect the contents from moisture.



PCBs you can rely on

From the technical department to the final inspection, the production process is entirely guided by a philosophy of maximum focus on quality.



Customer project incoming verification

- DFM product analysis
- DRC analyses
- Creation and control of files for interchange with production plants
- Drawing up a control plan according to the product

Metal thickness checks

- Thickness control of base metal (copper)
- XRF control of metal composition and thickness of surface finishes
- Metallographic specimens (cross section)

Mechanical Controls

- Dimensional and mechanical checks using precision optical instruments (OGP)

- Micrometric depth pre-cut controls
- Controlled height machining using dedicated instruments (Z-axis OGP)
- 3D Optical Controls (Keyence VHX950F)

Other controls

- Realisation and verification of coupons for controlled impedance (z-metric ST300)
- X-Ray centring control (INSPECTA)
- Ionic contamination control (TIC)
- Checking the wettability of the finish (Deep test and comparative Wetting Balance Test)

First Article Report (FAR)

Production Parts Approval Process (PPAP)

100% product traceability

Circuit board traceability for both Italian and Far East production:

Italy:

UL + data code

Far East:

UL with productive plant extension + data code



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