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PCBCool Strengthens Global Manufacturing Network Across Asia and North America

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Content

PCBCool, the digital manufacturing brand of PS Electronics Co., Ltd., is continuing to develop its international electronics manufacturing network around production resources in China, Malaysia and Mexico, giving customers access to multiple manufacturing locations within the same organization. The network has developed as electronics companies place greater emphasis on where products are manufactured, how supply chains are structured and whether production can be supported in more than one region. Rather than treating each facility as a separate business, PCBCool coordinates manufacturing resources across locations according to project requirements, production volume, supply-chain considerations and destination markets.

More information about the company's facilities and regional capabilities is available through the [PCBCool global manufacturing network](#).

China Remains the Center of the Manufacturing Network

China continues to serve as the main base for PCBCool's PCB manufacturing and electronics supply-chain activities. Its operations there support PCB fabrication, component sourcing, PCB assembly, testing and higher-level product assembly. For development-stage projects, proximity to Shenzhen's electronics ecosystem also provides access to component suppliers, PCB production resources and engineering support. This is particularly useful during prototyping and new product introduction, when designs, materials and manufacturing processes may still require adjustment before recurring production begins.

PCB fabrication capabilities within the network include conventional multilayer boards as well as HDI, rigid-flex, flexible, high-frequency, heavy-copper and other application-specific PCB technologies.

PCBA Capacity Across China, Malaysia and Mexico

PCB assembly is supported through manufacturing resources in China, Malaysia and Mexico. The facilities provide different combinations of SMT, through-hole and mixed-technology assembly depending on the requirements of each program. The multi-region structure allows manufacturing location to be considered as part of production planning rather than as a fixed decision made at the beginning of a project.

For example, a product may begin with engineering review and early production in China, while later production requirements may make Malaysia or Mexico relevant for subsequent manufacturing stages. Such decisions depend on factors including component availability, manufacturing processes,

production volume, logistics and the customer's target market.

Detailed information about [PCBCool's PCB assembly services](#) is available on the company's website.

Manufacturing Beyond the Circuit Board

The company's manufacturing scope has also expanded beyond bare PCB fabrication and board-level assembly. Many electronics programs require PCBAs to be integrated with enclosures, cables, displays, switches, power supplies or other mechanical and electrical components before the product can leave the factory. PCBCool supports these requirements through box build and final product assembly, including electromechanical integration, enclosure assembly, cable and wire-harness installation, system-level testing and final inspection according to project requirements.

This manufacturing model is intended for projects in which PCB fabrication, component sourcing, assembly and product integration need to be coordinated as connected manufacturing stages rather than managed through several unrelated suppliers.

Testing and Production Control Remain Project-Specific

Production requirements are not assumed to be identical between locations. Equipment, process capabilities and available production capacity may differ between facilities, and manufacturing allocation is evaluated on a project-by-project basis. Inspection and testing can include bare-board electrical testing, solder paste inspection, automated optical inspection, X-ray inspection, in-circuit testing and functional testing depending on the product and customer specifications.

Additional information about these processes is available through PCBCool's PCB testing and inspection services.

A Manufacturing Structure Developed Over Time

PCBCool is operated by PS Electronics Co., Ltd., an electronics manufacturer established in Shenzhen in 2008. The business initially developed around China's electronics manufacturing supply chain before extending manufacturing resources into Malaysia and Mexico. The international structure reflects a gradual change in customer sourcing requirements. Electronics manufacturers are increasingly asked not only whether they can build a product, but also where it can be manufactured, how production can scale and whether alternative manufacturing locations are available as market or supply-chain conditions change.

PCBCool's approach is to maintain China as a major engineering and manufacturing base while using additional production resources in Malaysia and Mexico where they are appropriate for individual programs.

Tags:

Electronics Manufacturing (EMS), PCB

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About Us:

Heading : About PCBCool

[PCBCool](#) is an electronics manufacturing services provider operated by PS Electronics, a Shenzhen-based manufacturer established in 2008. The company provides PCB fabrication, PCB assembly, component sourcing, testing, box-build assembly, and related manufacturing support for customers in industrial electronics, automotive, IoT, medical, and consumer applications.

PCBCool supports projects from prototypes and new product introduction through volume production, with manufacturing resources in China, Malaysia, and Mexico. Its capabilities include multilayer, HDI, rigid-flex, high-frequency and heavy-copper PCBs, SMT and through-hole assembly, inspection and testing, conformal coating, and final product assembly. The company works with customers worldwide, providing engineering support throughout the manufacturing process.