

Laser Depaneling at IPC APEX Expo 2025

Next Generation of the LPKF CuttingMaster

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Flexibility and precision are essential when separating PCBs. Laser depaneling has long since surpassed conventional methods due to its precision, cleanliness, and zero-stress process.

At LPKF, the most significant recent innovation is the integration of Tensor technology for green wavelength lasers. This technology enables higher laser power and cutting speeds without compromising quality or damaging the material. Tensor technology accelerates the high-quality processing of tabs, mouse bites, and especially full contour cuts of PCBs.

Previously only available as an additional upgrade, a performance exhaust head is now integrated as standard. This module includes integrated laser power measurement for automatic process control, which is carried out without changing tools and can be adapted to application-specific requirements. The exhaust head can process circuit boards with component heights of up to 40 mm.

With new improvements, the LPKF CuttingMaster 3000 platform is well suited to production environments with a high degree of automation. After unloading, empty fixtures can now be returned for re-use, below the working area, allowing for more streamlined automation solutions from LPKF or third-party suppliers.

The integrated automatic conveyor width adjustment feature further increases the system's level of automation. The width is specified fully automatically by the job, the MES system, or a HERMES interface.

Patrick Stockbrügger, product manager for LPKF cutting systems, asserts, "With the next generation of the LPKF CuttingMaster, we have implemented essential customer requirements. Even smaller production companies are choosing laser depaneling because the quality and performance clearly outperform other processes."

**About LPKF**

LPKF Laser & Electronics SE is a leading provider of laser-based solutions for the technology industry. LPKF laser systems are crucial for the manufacture of circuit boards, microchips, automotive parts, solar modules and many other components. Founded in 1976, the company is headquartered in Garbsen near Hanover and operates worldwide through subsidiaries and representatives. Around 20 percent of employees work in research and development.