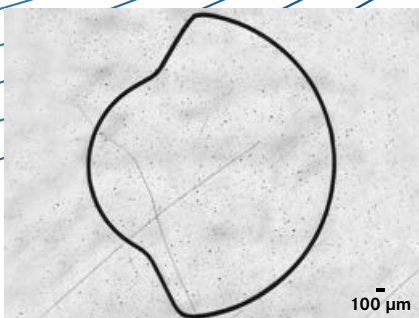
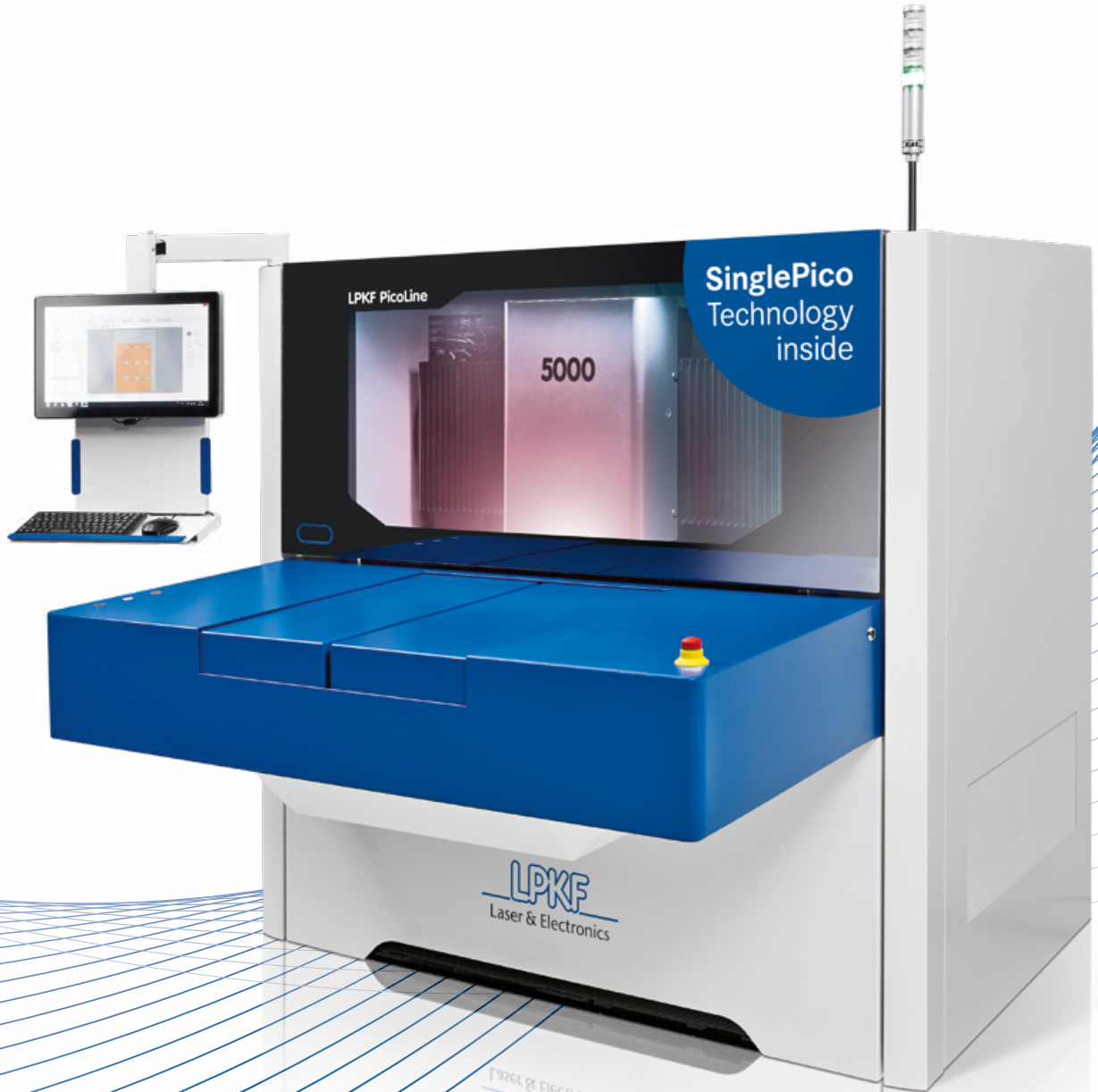


SinglePico Technology in Laser Processing

LPKF PicoLine 5000 Series



Greater Versatility and Efficiency for a Wider Range of Materials

Based on the MicroLine platform, LPKF has developed a solution for even higher demands on laser manufacturing quality: LPKF PicoLine. With this new laser system, LPKF meets the highest expectations regarding quality and cutting speed. The system increases yield and production efficiency in PCB processing – resulting in fast return on investment. Equipped with a pico-second laser, the ultra-short pulse laser system LPKF PicoLine 5000 stands for highly precise positioning and accurate processing of PCB material such as FR4, PI-, LCP- and PTFE-FPC, in all industry-standard panel sizes. Due to the single-digit pico-second laser technology, the heat affected zone (HAZ) of the material becomes negligible. The convincing results: Clean cutting and precise vias – above industrial standards.

Technical Data: LPKF PicoLine 5000

Laser (class 1)	Power 28 W, wavelength 355 nm, single-digit ps pulse duration
Working area (X x Y x Z)	533 mm x 610 mm x 11 mm (21" x 24" x 0.43")
Operation modes	Manual, reel-to-reel; max. reel width: 530 mm (20.86")
Positioning accuracy	± 20 µm (0.8 mil) @ 22 °C ± 2 °C (71.6 °F ± 3.6 °F)
Diameter of focused laser beam	25 µm (1 mil)
System dimensions (W x H x D), weight	1660 mm x 1720 mm x 1900 mm (66" x 68" x 75"); ~ 2000 kg (~ 4400 lbs)
Operating conditions	
Facility requirements	400 VAC, 50–60 Hz, 6.5 kVA, 16 A, 3-phases, 0.6 MPa (87 PSI), 130 l/min
Required accessories	Exhaust unit
Optional accessories	Reel-to-reel automation

* Height incl. status light = 2200 mm (87")

PicoLine 5000 systems feature: PicoLine 5428 (28 Watt laser source)



LPKF Service & Support

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Made in Germany