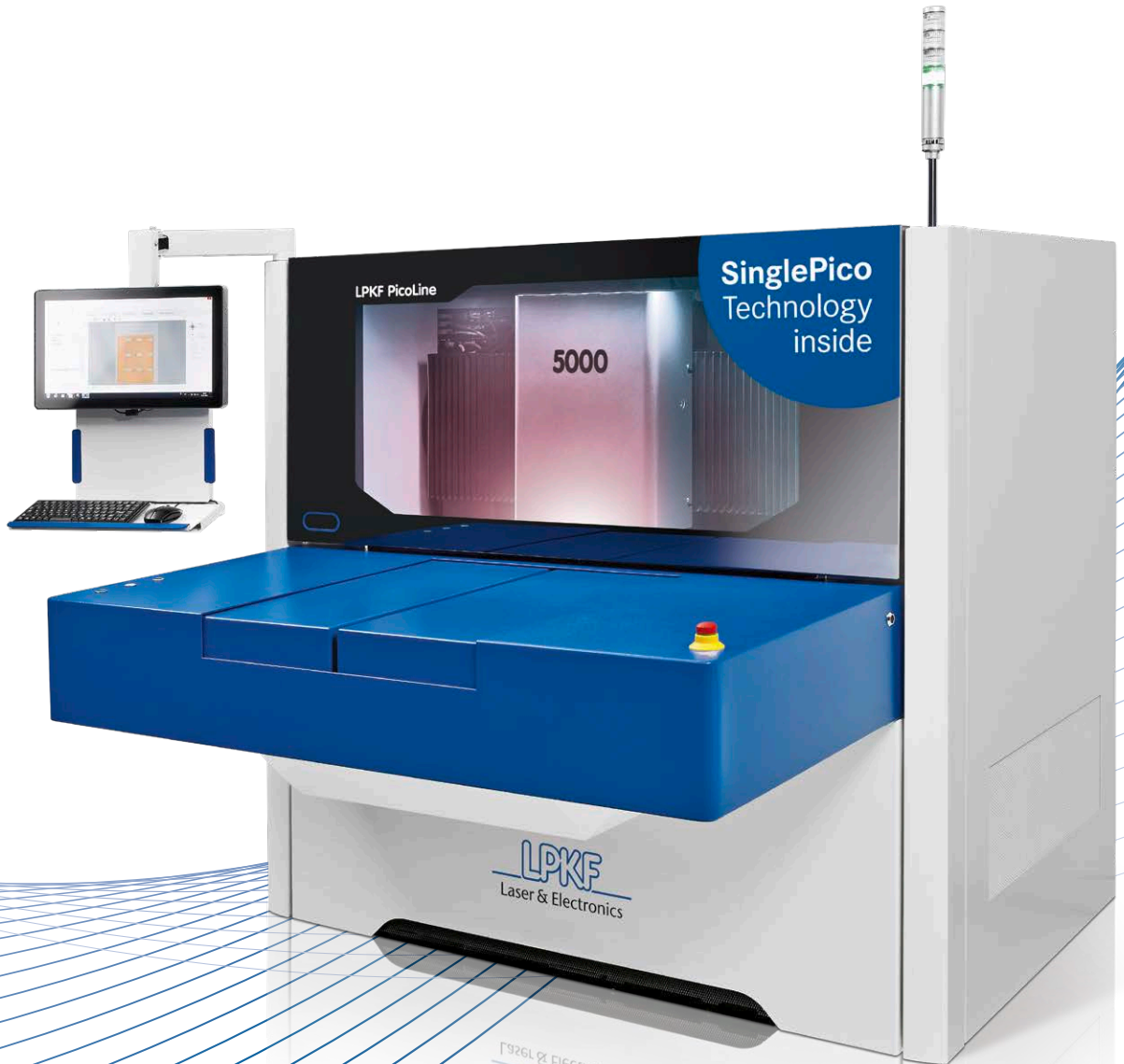


# SinglePico Technology in Laser Processing

## 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
<b>Laser (class 1)</b>	Power 28 W, wavelength 355 nm, pulse duration single-digit ps
<b>Max. working area (X x Y x Z)</b>	533 mm x 610 mm x 11 mm (21" x 24" x 0.43")
<b>Operation modes</b>	Manual, reel-to-reel
<b>Positioning accuracy</b>	± 20 µm (0.8 mil)
<b>Diameter of focused laser beam</b>	25 µm (1 mil)
<b>System dimensions (W x H x D)</b>	1660 mm x 1720 mm x 1900 mm (66" x 68" x 75"); height incl. status light = 2200 mm (87")
<b>Weight</b>	~ 2000 kg (~ 4400 lbs)
<b>Operating conditions</b>	
<b>Power supply</b>	400 VAC, 3-phase, 50-60 Hz, 16 A, up to 6.5 kVA
<b>Cooling</b>	Air-cooled (internal water-air cooling)
<b>Ambient temperature; humidity</b>	22° C ± 2° C (72 °F ± 4 °F); < 60% (non-condensing)
<b>Compressed air</b>	130 l/min @ 0.6 MPa, air quality ISO 8573-1:2010, class 6.4.4
<b>Required accessories</b>	Fume extraction and filtration unit

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



**LPKF Service & Support**

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