

High-Precision Laser Welding of Transparent Plastic

LPKF paper at the Laser Manufacturing Conference available as a TechPaper

Contact:

Malte Borges
malte.borges@lpkf.com
Tel. +49 (5131) 7095-1327
Fax +49 (5131) 7095-90

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**LPKF
WeldingQuipment GmbH**

Alfred-Nobel-Str. 55-57
90765 Fürth
Germany

Local court Fürth: HRB 14026

» www.lpkf-laserwelding.com
» www.lpkf.com

General Manager

Markus König
Lars Ederleh

Member of LPKF Group

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Thanks to the reliability of the welding results, laser plastic welding has become established as the technical standard for mass production. Now with a new technology, LPKF is targeting the challenging medical applications sector, and is focusing on researchers and developers with demanding specifications for the joining technology.

Complex systems with channel cross-sections in the micrometer range are used for fast analysis in a number of fields including food safety, clinical diagnosis, chemical synthesis and biological research.

The high-precision mechanical and optical positioning system in the LPKF PrecisionWeld uses the welding properties of transparent plastics at a laser wavelength of 2 µm. This creates an effective technology for the prototyping and series production of microfluidic components.

The TechPaper describes the technical principles, the design implementation as a laser welding system, and the resulting welding parameters which can then be achieved. The TechPaper can be downloaded free-of-charge on the LPKF website in the Knowledge Center (www.lpkf.com/knowledge-center).



About LPKF

LPKF Laser & Electronics AG manufactures machines and laser systems used in electronics fabrication, medical technology, the automotive sector, and the production of solar cells. Around 20 percent of the workforce is engaged in research and development.