

Boosting production during laser plastic welding

New system software and welding machines at Medtec

Medical technology makes particularly high demands on production technologies. LPKF WeldingQuipment showcases the latest laser plastic welding developments at Medtec

You don't always need big machines to achieve significant production advances. At Medtec in Stuttgart from 4 – 6 April, LPKF's booth (3C14) is the showcase for technologies and developments which can give a major boost to productivity and economic efficiency.

The new LPKF laser welding systems are supplied with a calibrated working area, Soft-PLC, and the high performance LPKF ProSet 3D CAM software. ProSet 3D takes the CAD data for the clamping tool and the product, and uses this to determine optimal welding contours in only a few minutes – even with a fluctuating welding surface in the z direction.

Thanks to the calibrated working area, this data can be extrapolated to all LPKF systems using Soft-PLC – nothing extra is needed to set up the project. The welding system requires no additional setting up, the process parameters generated in this way can be used without any further modification on LPKF laser systems with calibrated working areas.

A premiere at Medtec: LPKF will be presenting a solution for existing welding machines. The LPKF WeldPro Light software takes the process data from ProSet 3D, and after a one-off machine calibration, can then transfer the process data without any problems.

Another exhibit is the recently announced InlineWeld 6200. This system is integrated within the clients' own production lines. It features a ProfiNet interface, and is fully controlled via the in place MES. The version with the fine-focus laser showcased at Medtec is completely new. This model is designed for extremely fine and precise welds, and can be used to create weld seams with widths between 0.7 mm and 2.5 mm.

The high quality standards demanded by medical technology meet their match in the LPKF TMG 3. As a stand-alone or integration solution, this transmission measuring device determines the absorption values of components in the wavelengths of the welding laser. Thanks to certification by the German National Test Authority (Physikalisch-Technische Bundesanstalt) this measuring device has been issued with a factory calibration

Contact:

Matthias Lippold
matthias.lippold@lpkf.com
Tel. +49 (5131) 7095-1322
Fax +49 (5131) 7095-90

14.03.2017

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

Part of LPKF Group

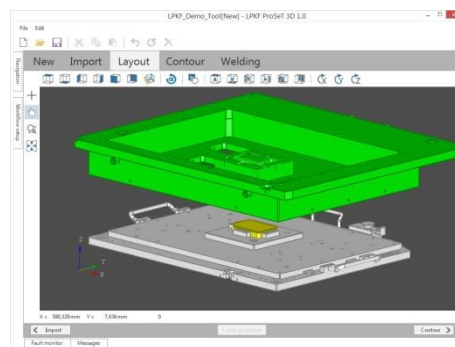
Shares: Prime Standard
ISIN 0006450000

Reproduction free of charge,
copy requested

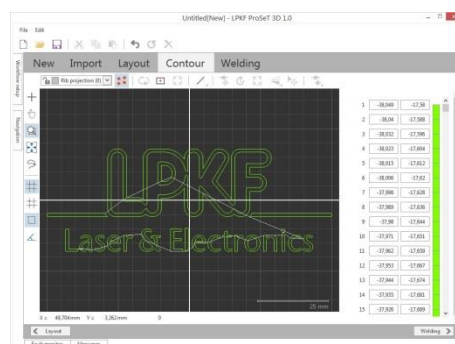
» [Other press releases](#)

certificate since December 2016, and complies with the DIN 9001 specifications for unbroken product monitoring during the manufacturing process.

A solution for the production of shallow clear-clear welds uses a laser with a wavelength of around 2000 nm. Welding takes place by very precise focussing on the welding horizon. The LPKF PrecisionWeld is a compact welding system for the production of microfluidic components. Thanks to modern laser technology, and a special overpressure clamping system, it can weld transparent microfluidic parts without harming the sensitive channels.



LPKF ProSeT 3D imports components and holders directly from the CAD designs



LPKF ProSeT 3D generates optimal welding contours and parameters – also for complex contours

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.