

Stand-alone Solution for Laser Plastic Welding

Compact & Efficient: LPKF PowerWeld 3600

- Stand-alone welding machine all in one housing – Laser class 1
- Part handling by operator or robot
- Various working fields and laser powers
- Laser marking and thermographic check control option

25%
Higher Output Rate
with Double-Clamp
Technology



The Most Powerful and Efficient Stand-alone Solution for Laser Plastic Welding

Stand-alone systems are an integral part of laser plastic welding production concepts – especially in welding of low and mid volume production scales. As a successor to the well known LPKF PowerWeld 2600 system, LPKF introduces the next generation. This is LPKF’s latest and most efficient stand-alone system.

All components are located in a single laser class 1 housing which is CE compliant. The LPKF PowerWeld 3600 is equipped with a servo electric rotary table for achieving higher output rates. With different technical options available, this standard system platform can be configured individually to project and product specific requirements.

Different options and features available make the new LPKF PowerWeld 3600 best suited for individual customer demands:

- Option: Double-clamp module for welding two parts in one cycle
- Option: Servo-electric clamp module for a higher range of clamp forces – independent of compressed air
- Safety light curtain for faster handling and output rates
- LPKF TherMoPro for 100% inline thermographic check control
- Marking laser for housing labelling integrated in the welding machine
- PC & software package for traceability and monitoring of welding parameters and process



LPKF TherMoPro for the thermographic check of the weld seam



Double-clamp option

Technical data	LPKF PowerWeld 3600
Laser power / diode laser 980 nm	Up to 320 W with air cooling Up to 100 W for clear/clear welding LPKF FineFocus set up for smallest spot sizes as option
Working area	Single clamp module: 178 mm x 130 mm Double clamp module: 70 mm x 130 mm for each nest
Clamping forces (bottom up technology)	Up to 3200 N with pneumatic clamping Up to 3000 N with servo clamping
Laser class	1
Dimensions (W x D x H)	800 mm x 1400 mm x 2000 mm
Options	LPKF TherMoPro for quality control, safety light curtain, marking laser, DMC reader, PC & software package, RFID coding



Made in Germany

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