

Stand-alone Solution for Laser Plastic Welding

Compact & Efficient: LPKF PowerWeld 2600 Gen. 2

- 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



LPKF
Laser & Electronics

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 most compact and efficient stand-alone system.

All components are located in a single laser class 1 housing which is CE compliant. The LPKF PowerWeld 2600 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.



LPKF TherMoPro for the thermographic check of the weld seam



Double-clamp module

Different options and features available make the new LPKF PowerWeld 2600 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 product labelling integrated in the welding machine
- PC & software package for traceability and monitoring of welding parameters and process

| Technical data | LPKF PowerWeld 2600 Gen. 2 |
|--------------------------------------|--|
| Laser power / diode laser 980 nm | 160 W with air cooling – FineFocus set up for smallest laser spot sizes 235 W with air cooling 320 W with air cooling 100 W with water cooling (fiber laser for clear to clear joining) |
| Working area | Single clamp module: 178 mm x 130 mm Double clamp module: 70 mm x 130 mm for each nest |
| Clamping unit (bottom up technology) | 270 N – 3200 N with different pneumatic clamp modules 300 N – 3000 N with different servo-electric clamp modules |
| 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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