LPKF PowerWeld 4000 ATA

Serial Production Machine for Laser Welding of Absorbing to Absorbing Plastic Parts

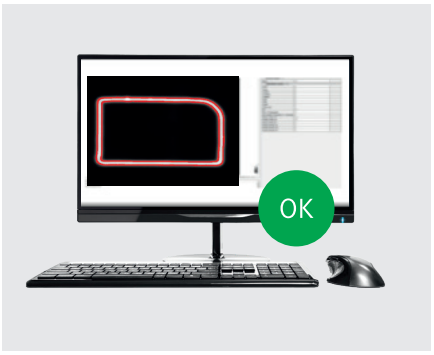
The new PW4000 ATA serial production machine for laser welding two absorbing components using ATA technology stands out for its compact, economical design, comparable to other LPKF systems such as the PW3600. The system concept scales well to larger processing fields, and the arrangement of components enables customer-specific solutions for inline automation.

By individually irradiating both joining partners with separate scanner systems, it is now possible, unlike with through-transmission welding, to achieve weld joints even between different materials with differing melting points.

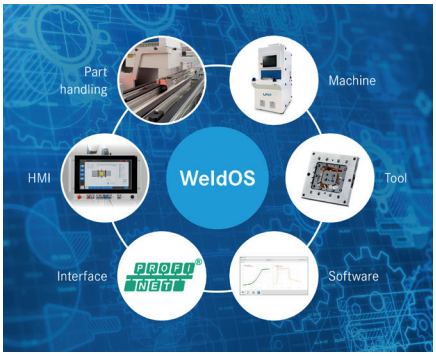
- Compact stand-alone welding machine
- Fast part movement and clamping for optimized cycle times and stable processes
- Two lasers with up to 320 W per laser
- Working field of 185 x 240 mm²
- Clamping force up to 7 kN
- Fast and easy process setup with LPKF ProSeT 3D, which generates the welding contour from the CAD model
- Best-in-class process control with the thermographic imaging and analysis solution LPKF TherMoPro
- Controlled, force-regulated joining motion using servo-clamping
- Integrated extraction nozzles, specially designed to generate an even airflow over the welding parts
- Quasi-simultaneous laser transmission welding possible on the same machine
- LPKF WeldOS software for scanner control, traceability, monitoring and contour management

Precise, Flexible and Efficient

Precise laser welding of absorbing to absorbing plastic parts



Flexible online process control



Efficient LPKF WeldOS Software

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Photos may also show optional accessories. Specifications subject to change without prior notice.

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