

# Laser Plastic Welding in Production Lines

## Compact and Efficient: LPKF InlineWeld 6200 Series

- Compact welding head for direct integration
- XL version with bigger laser working field
- FineFocus system for precise applications
- Pneumatic or servo-electric clamping module
- Standard ProfiNet Interface for fast implementation



# Powerful, Efficient, Compact

LPKF laser welding systems in the InlineWeld series are already working successfully in many production lines worldwide. The LPKF InlineWeld 6200 is the first of a new price-performance class for integration systems. Laser plastic welding will thus become attractive for even more applications.

The flexible modules of the LPKF InlineWeld series enable laser plastic welding to be directly and easily integrated into the production lines of a wide spectrum of business sectors: The modules only need a small amount of space for the laser head, and all of the functions relevant for the process are included in the integration systems. The technical embedding uses standard electrical and mechanical interfaces.

The new generation of integration systems boasts a new machine layout – and not just on the outside. Costs are reduced and system performance boosted, thanks to a clever combination of the most up-to-date

components. In addition to the standard optics, a continuously adjustable fine focus version is available for delicate components.

The welding field measures up to 100 mm x 100 mm. The system conforms to the laser protection stipulations, and corresponds to laser class 1 during production operations. In addition, the clamping technology, the cylinder unit and the component holder are all equipped with safety sensors. This makes it really easy to realize installation in production lines in conformity with EN-ISO 11553.



Integration in conveyor belt system



Integration in rotary table system



Several machines for higher output rates



Stand-alone solution with assembly stand



Medical custom solution with full stainless steel

| Technical data                        | InlineWeld 6200 Basic  | InlineWeld 6200 FineFocus | InlineWeld 6200 XL              |
|---------------------------------------|--|---------------------------|---------------------------------|
| Laser power / diode laser 980 nm      | 235 W or 300 W with air cooling  | 160 W with air cooling    | 235 W or 300 W with air cooling |
| Working area                          | 100 mm x 100 mm  | 100 mm x 100 mm           | 150 mm x 150 mm                 |
| Clamping unit                         | Top-down, pneumatic (servo as option)  |                           |                                 |
| Laser class                           | Class 1 – after integration with integrator                                    |                           |                                 |
| Welding head dimension (W x D x H)    | 400 mm x 450 mm x 1300 mm  |                           |                                 |
| Control cabinet dimension (W x D x H) | 950 mm x 600 mm x 1350 mm  |                           |                                 |
| Options                               | Interface box for control, TherMoPro for thermographic process control feature |                           |                                 |



Made in Germany

## LPKF Laser & Electronics AG (Headquarters)

Osteriede 7 30827 Garbsen Germany  
Phone +49 (5131) 7095-0 info@lpkf.com www.lpkf.com

## LPKF WeldingEquipment GmbH

Alfred-Nobel-Str. 55 – 57 90765 Fürth Germany  
Phone +49 (911) 669859-0 info.laserwelding@lpkf.com www.lpkf.com



### LPKF Service & Support

LPKF provides worldwide premium customer support. Learn more: [www.lpkf.com/support](http://www.lpkf.com/support)

