

# Laser Plastic Welding in Production Lines

## Compact and Economical: LPKF InlineWeld 6200

- Welding head for direct integration in the production line
- ProfiNet interface for industry 4.0 integration
- Boosted laser power
- Cost efficient investment
- Laser class 1 after integration



# 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.

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.

Powerful laser systems need powerful software. The InlineWeld 6200 is supplied with the LPKF CAM software ProSeT – to set up the welding contour quickly and easily.

A ProfiNet interface enables the connection to the client's own manufacturing execution system (MES). The InlineWeld 6200 accepts the process data, and in turn supplies the values for the actual welding process – such as the time/melt travel data for quality assurance. The complete process control and monitoring is comfortably handled by the client's higher-level, central control system. The separately available LPKF Interface Box can decentrally set up process data and system parameters without connection to the MES, and operate the InlineWeld 6200 as a standalone after mounting in a production cell.

With the relevant line integration and control, the InlineWeld 6200 is also an efficient solution for production with a high level of variance and fast cycles.

## LPKF InlineWeld 6200

<b>Laser class</b>	1 (after integration)
<b>Laser power/spot diameter</b>	Max. 200 W / 1.8 mm or 2.1 mm
<b>Clamping pressure range</b>	580 N – 1750 N
<b>Max. working area</b>	100 mm x 100 mm
<b>Welding head dimensions (W x D x H)</b>	400 mm x 450 mm x 1300 mm
<b>Control cabinet dimensions (W x D x H)</b>	950 mm x 600 mm x 1350 mm
<b>Power supply</b>	400 V, 16 A, max. 3 kW
<b>Compressed air</b>	4.5 bar – 10 bar
<b>Ambient temperature</b>	18 °C – 35 °C
<b>Options</b>	Remote Maintenance Module, Interface Box

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