

## Intelligent Laser Soldering Head ILPH



Machine axis and integration by Häcker  
Automation: <https://haecker-automation.de/>

Laser systems and laser processing heads can usually only be integrated by specialists in machines and systems. The handling of fiber optic cables is critical. The ILPH is a complete laser soldering system including diode laser (60W), complete LASCON® process controller, pyrometer, camera, optional wire feed controller and ring light source - all on board.

Main application is laser soldering but laser plastic welding is also possible.

The ILPH can be mounted directly on a machine axis.

The ILPH requires only 2 cables: 24V dc and field bus Ethernet (optional EtherCAT)

### Technical data:

- Laser power 0 - 60W
- Wavelength 978nm, others on request
- Glass fiber diameter: Pigtailed 100µm
- Min. laser spot diameter down to 100µm@50mm work distance, 200µm@100mm
- Easy to integrate in machines and plants via digital and analogue I / Os -> LASCON
- Easy to integrate with laser safety
- Bus connection: Ethernet or optional EtherCAT
- Integrated high-speed pyrometer with 10,000 measurements per second
- Temperature measuring range typically from 120 ° C
- Integrated process controller for closed loop control with 10,000 control steps / s
- Software package for process control: LASCON Process Controller
- Software package for video camera: LASCON Camera Manager
- 256 programmable laser process scripts
- Data storage on internal flash disc
- Data export to the hard disk of a production server possible
- Power supply 24V, 8A max
- Dimension 450x160x160mm, overall dimension
- Weight 5kg

