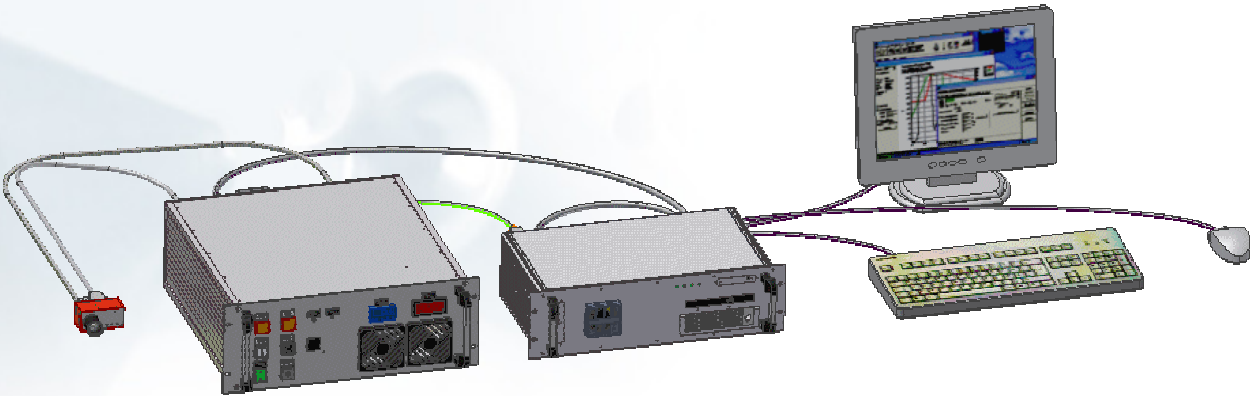


Laser OEM Kit



The picture shows our oem laser kit. It`s ready for integration into manufacturing facilities. The kit consists of laser head LH50, fiber coupled diode laser LMxxx, pc based temperature controller (LPC02 with PCI plug in card PCI-1P) with measurement and controller software LASCON as well as keypad, mouse and LCD monitor.

The temperature controller measures every 100 μ s the temperature inside the laser focus and calculates immediately the analog control voltage for the laser. The control voltage is applied to the laser as 0-10V analog signal. The user prescribes the setpoint temperature or programs a temperature curve in the software and the laser is controlled in that way, that setpoint and actual temperature on the workpiece are same within milliseconds. For communication of a machine plc (programmable logic controller) with the laser controller, the PCI plug in card has digital (24V optoisolated) and analog I/Os. The comfortable LASCON process manager software allows the user to define complex laser processes, stores and visualises the data. The software also has an open TCP/IP interface for direct programming. This allows the development of user software packages by the customer.

Main applications are laser plastic welding and laser soldering and laser hardening as well a induction heating.

Technical data:

Laser:	Lmxxx, fiber coupled diode lasers
Wavelength:	808nm, 915nm, 940nm, 980nm
Laser power:	up to 400Watt
Laser heads:	LH50 und LH500
	integrated pyrometer with measurement rate of 10kHz
	video camera for LH500 as option

Controller system:

Hardware:	LPC02 or LPC03 with plug in card PCI-1P
Software:	LASCON with real time control , process supervision, 100% process control by automatic failure detection during the laser process and creation of an error signal to the plc, process documentation, detection of irregular laser processes .