

Semi-automated laser soldering station



- 40/60 W diode laser
- 3 linear axes (stepper motor) T-axis optional
- Working area 395x300x140 mm
- PC-control
- programming system WinControl
- enclosed working area (laser safety ref. to CE)



Soldering station economic A400L

The economic A400L is an universal, computer-guided desktop robot with three axes. The device is especially suitable for process evaluation of new products, but also for the production of small to medium sized lots.

The housing is laser-tight and the automatic front door is integrated into the interlock circuit of the laser.

The control of the entire machine is an industrial PC. The respective machining processes are covered by their own microcontrollers. The decentralized control approach relieves the PC control of the entire module and guarantees the real time requirements for the process.

The PC control allows a simple and comfortable administration of the process parameters and programs. Today's manufacturing flexibility and short product cycles require universal production device that can be adapted quickly and cost-effective for different tasks.

Technical Specifications

Positioning:		A400	Controls PC incl for 3 ste T-axis c resoluti digital ii
Working range:	x-axis	395 mm	
	y-axis	300 mm	
	z-axis	140 mm	
Working table:	(x, y)	600 x 375 mm	
Dimensions:	wxdxh	710 x 820 x 750 mm	 digital c
Diode laser		40W / 60W	

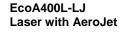
Controls

- PC including 3.5" FDD, HDD, CD, 19"-TFT
- for 3 stepper motors up to 3.75 A
- T-axis optional
- · resolution 50,000 micro steps
- digital inputs 10-30 V
- digital outputs 24 V, 0.5 A

Laser Soldering

The soldering is done with a diode laser. The laser diode generates the laser beam with a wavelength of 980 nm. The laser diodes are actively cooled with peltier elements. With highly flexible optical fibers of the beam is led to the soldering head and focused there with a optic About the laser output (400 microns), the optical fiber of (400/600 microns) and optics (1: 1/1: 2/1: 3) can be optimally coordinated with the respective application of the laser beam. Depending on the application are suitable 3 variants.

EcoA400L-LS Laser with AirPulseDispenser



EcoA400L-LL Laser with SolderWireFeeder



Economic A400L 3 axis (XYZ) IPC with WinControl compact laser control unit single optic external camera SuperSIGMA Dispenser Z-stroke for Dispenser

Option power meter



Economic A400L 3 axis (XYZ) IPC with WinControl compact laser control unit single optic external camera AeroJet with Controller ThermoController

Option power meter



Economic A400L 4 axis (XYZT) IPC with WinControl compact laser control unit single optic SolderWireFeeder with Controller