

# **LIGHT BEAM**

**- economic W500 -**

## *Semiautomatic soldering station*



- *automation for small and medium lot sizes*
- *soldering system LightBeam (hot iron / induction)*
- *closed working area for the soldering process*
- *2 changing cartridges (400x200mm)*
- *integrated PLC*

## Soldering Machine *economic W500*

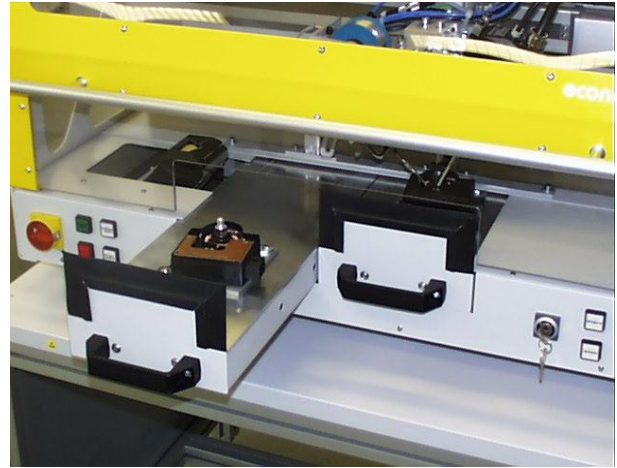
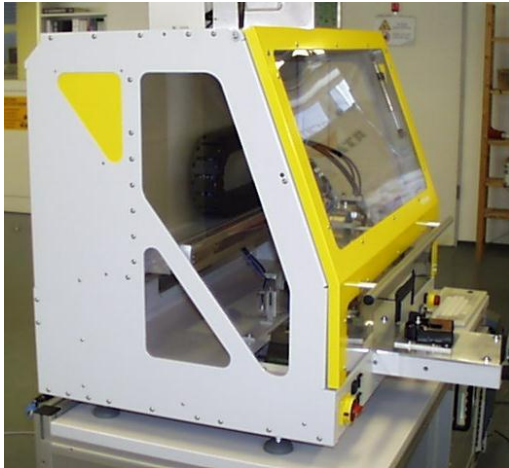
The soldering machine economic W500 is for economical realization of automated processes. The changing cartridge system enables inserting and a taking of the parts independent from the working process and provides for an efficient use of the machine. The basis variant has a free programmable axis of 500 mm

length, which can be equipped with different soldering tools.

The following tools are available:

- LightBeam soldering
- induction soldering,
- laser soldering
- dispensing valves for solder paste.

The controlling of the soldering station is done by an IO system with integrated PLC. The equipment is suitable for the manufacturing of smaller and middle series. Also the economic W500 is very suitable for process evaluation of new products.



### Technical Data

dimensions:	L x W x H	930 x 660 x 800 mm	<b>Options:</b> <ul style="list-style-type: none"> <li>• Industrial PC</li> <li>• table with 19"-Rack (10HE)</li> <li>• Y-axis</li> <li>• pneum. z-stroke</li> <li>• specific colour</li> </ul>
weight:		120 kg	
working-range:	X-axis	500 mm	
changing cartridges:	Number	1 or 2	
changing cartridges:	max. width	275 mm	
changing cartridges:	stroke	400 mm	
changing cartridges:	max. admission	160 mm	

### Soldering Tools

#### LightBeam and Dispenser



At the soldering system Light Beam IR-light is focused by an elliptical mirror. The required temperature at the solder joint comes from absorption of heat radiation. The control unit allows an exact regulation of power. Thus, the light is particularly suitable for "selective reflow soldering".

#### Hot-Iron Soldering



The automated iron soldering is suitable for a lot of different applications. Double coated passive standard tips are used for the powerful 150W heater. This increases the durability and reduces costs. Furthermore, a large variety of standard tips are available.

#### Induction Soldering



The induction soldering works with an alternating magnetic field, which is generated by the inductor. The magnetic field induces eddy currents in the solder joint, that cause a heating up to soldering temperature. The induction soldering allows a huge energy transmission. Another advantage are low maintenance costs.