

Premium Vapour Phase Soldering Series for highest demands

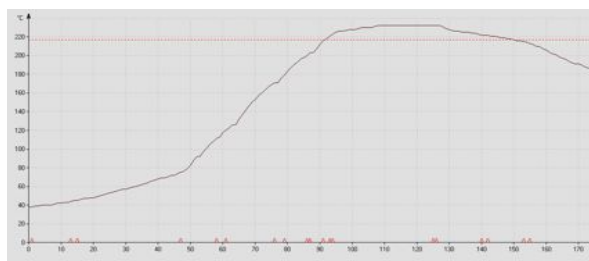


Features

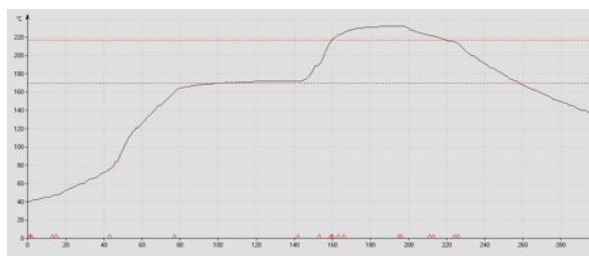
- 2-Chamber Batch-Soldering-Machine
- Lead and lead free soldering without changeover
- Maximum process window at minimum temperature (e.g. lead free soldering at 230°C)
- Easy and comfortable operation through Touch screen monitor for programming.
- Maintenance free transport unit (patented)
- Live temperature profile monitoring, documentation and optimization with IBL Software VP-Control (all data are universally compatible)
- Optional Rapid cooling system (RCS, patented)
- Optional IR heater unit (ideal for glue hardening)
- Lowest running cost through energy management system
- Lowest fluid consumption
- Fully electric handling without compressed air

Process cycle

The BLC/SLC series allows the precise processing of complex PCB boards without time consuming pre-testing. Through combination of the patented IBL Soft-Vapour Phase with the IBL soldering automatic the system can run classical vapour phase profiles as well as plateau-temperature profiles by simply selecting the suiting program from the process library. During operation the sensor based process control adjusts the temperature points automatically in order to provide a reliable soldering result.



Linear temperature profile



Plateau temperature profile

Modes of operation

Heat Level Mode (HL-Mode)

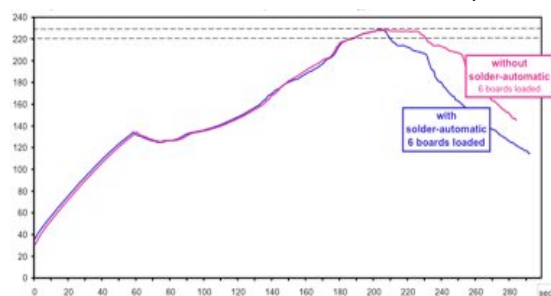
A simple variation of vapour phases soldering, generates different, nearly linear temperature profiles. Energy transfer is controlled by adjustable heating power.

Soft-Vapour-Phase-Mode (SVP-Mode, Patented)

Extremely variable possibility to create reproducible temperature profiles for different requirements. Soft-Vapour phase stands for slow stepping into the vapour phase and the possibility to stay in different positions. Up and down movements in the vapour phase are freely programmable.

Solder Automatic

For the optimization of the solder-process the integrated premium-solder-automatic can be activated in addition in both modes. This automatically controls the adaptation of the solder time or the maximum solder-temperature.



After the solder temperature is reached a timer will begin. The solder cycle will finish automatically after the adjusted time over liquidus.

Standard Equipment / Specification

- Machine operation with TFT touch panel
- 2 process chambers with internal air-lock separation
- Fully electric carrier in- and output
- SVP mode for precise adjustment of temperature profiles (**Patented**)
- SVTC – Temperature based process control
- Syncro Mode for exact process repeatability
- Premium solder automatic incl. 4 internal channels for comfortable temperature measuring and profiling
- Energy management system incl. program storage
- Maintenance-free transportation system (**Patented**)
- Integrated convection cooling station for board cooling
- Integrated heat exchanger and fluid recovery system
- Fluid level monitoring
- Automatic fluid filtering
- Redundant monitoring of cooling water temperature
- Controlled heater area, no overheating
- Observation window into process chamber with integrated illumination of the soldering area

Options

- Rapid cooling system (RCS, **Patented**)
- IR heater system with quartz radiator
- Barcodescanner
- Anti Fog System (AFS) for clear vision of the soldering process (**Patented**)
- Adapter for double sided PCB boards
- Monitoring software VP-Control for convenient documentation and fine adjustment of the process
- Inline-Handling-System (see picture, **Patented**)
- Cooling device for closed loop machine cooling



Overview BLC/SLC - Series

System	Machine Dimensions Batch System (WxDxH)	Carrier size Batch	Max PCB Size Inline
SLC 309	940 x 1,760 x 1.320 mm	300 x 340 x 80 mm	N/A
SLC 509	1,190 x 1,760 x 1.320 mm	540 x 340 x 80 mm	540x300x50 mm
SLC 609	1,290 x 1,760 x 1.320 mm	640 x 340 x 80 mm	640x300x50 mm
SLC 809	1,490 x 1,760 x 1.320 mm	840 x 340 x 80 mm	840x300x50 mm
BLC 509	1,190 x 1,960 x 1,320 mm	540 x 540 x 80 mm	540x400x50 mm
BLC 609	1,290 x 1,960 x 1,320 mm	640 x 540 x 80 mm	640x400x50 mm
BLC 809	1,490 x 1,960 x 1,320 mm	840 x 540 x 80 mm	840x400x50 mm
other sizes on request	e.g.	640 x 650 x 80 mm 840 x 650 x 80 mm	640x400x50 mm 840x400x50 mm

Water connection (all systems)	1/2"
Power Supply (all systems)	230/400VAC / 3 Phase

- Technical changes reserved -