

## Premium Vapour Phase Soldering Series for highest demands

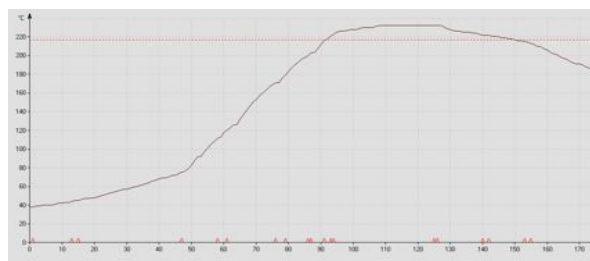


### Features

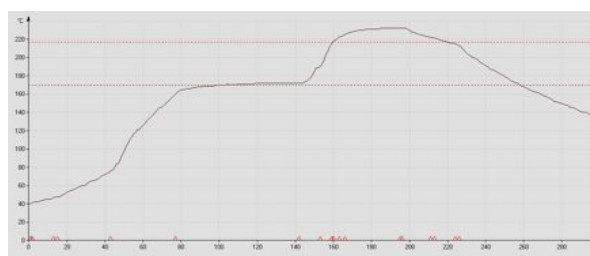
- 2-Chamber Batch-Soldering-Machine
- Lead and lead free soldering without changeover
- Maximum process window at minimum temperature (e.g. lead free soldering at 230°C)
- Easy and comfortable operation through Touch screen monitor for programming.
- Maintenance free transport unit (patented)
- Live 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)

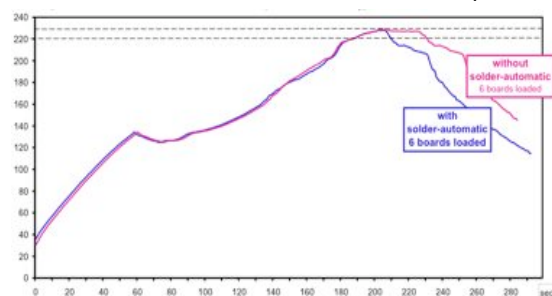
A simple variation of vapour phases soldering, generates different, nearly linear temperature profiles. Energy transfer is controlled by adjustable heating power.

#### 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 -