



With its vacuum supported soldering process and the newly designed induction heating the VADU 100-I system stands for high-quality void-free soldering results, even in small series production.

Induction vacuum soldering system VADU100-I

For highest precision in temperature control

The compact soldering system VADU 100-I operates primarily with preforms and generates void-free solder connections. It is equipped with separate soldering and cooling chambers. The soldering area is divided in two controllable inductive heating zones.

Due to its small dimensions and the easy operation, the batch system is very suitable for production of small series and in laboratories for research applications.

Technical data

Process area (W x D): 168 x 280 mm (e.g. 2 cards à 4 x 6", each controllable)
 Clearance height: max. 50 mm
 Dimensions of the system (W x D x H): 1,330 x 1,380 x 1,200 mm
 Power supply: 3 x 400 V, 50/60 Hz
 Power input: 24 kVA
 Weight: 600 kg

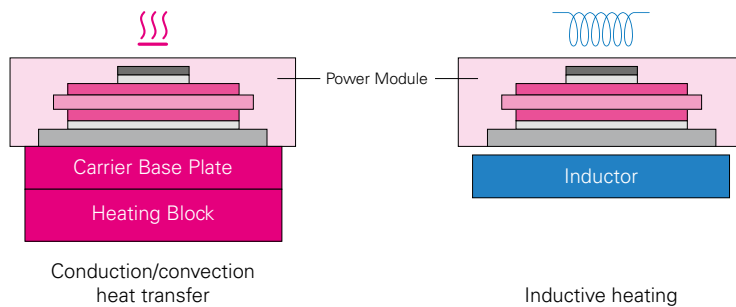
System features

- Void-free solder connections
- Two separate controllable inductive heating zones
- Individual soldering profiles
- Heat generation directly in the product
- Soldering temperatures up to 500 °C
- Controlled temperature gradients
- Separate soldering and cooling zone
- Inert gas atmosphere
- Residual oxygen content < 5 ppm
- Flux-free soldering with formic acid
- Soldering with preforms and/or pastes
- Short cycle times
- Flux management
- Reproducibility of the soldering results
- Permanent process control
- Ethernet interface
- Remote maintenance (VPN)
- Internationally patented system

Options

- Traceability
- Handling/Transfer systems
- Integrated MES interfaces (e.g. SECS/GEM)
- Cooling system
- Selective pin-cooling for the prevention of voids during cooling

Conventional vs. Induction Soldering



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