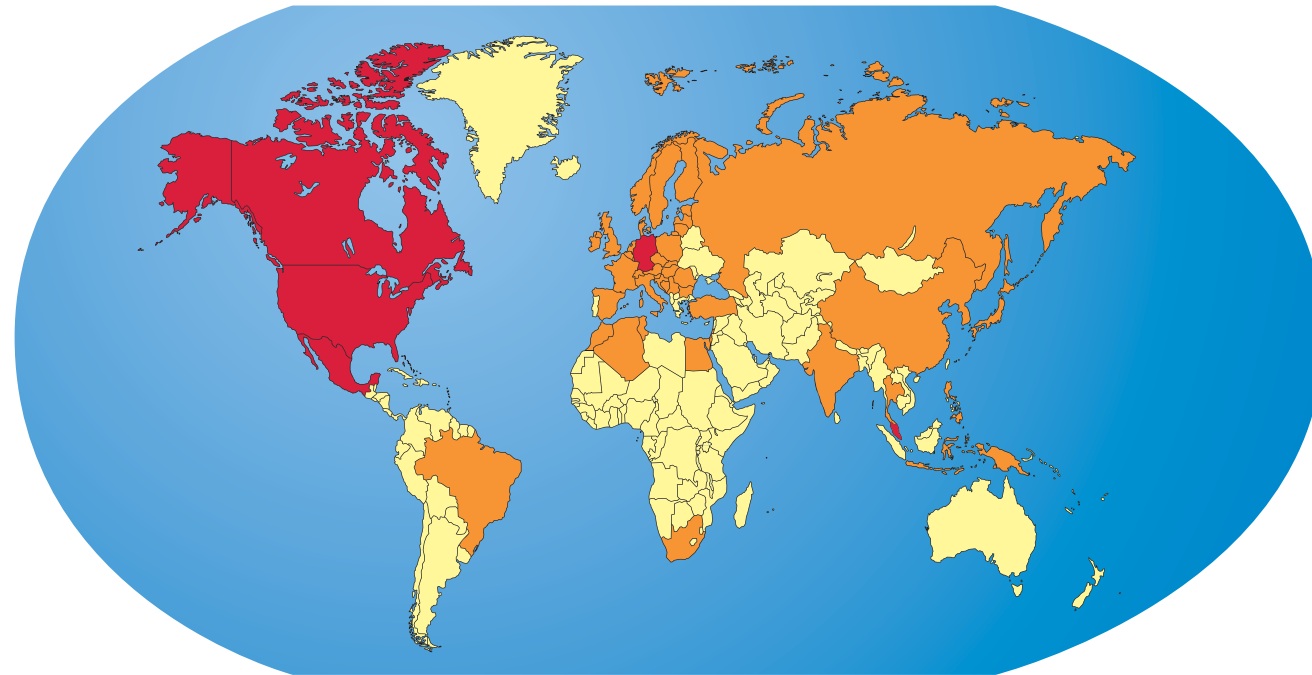


Sales Office / Representatives / Service



- = Sales and Service offices
- = Representatives and Service on Site
- = Other presence

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SMT

Maschinen- und Vertriebs GmbH & Co.KG

Know-how in Thermal Process Know-how in Thermal Process

Aerospace



High-End Tele-communication



Medical



Automotive



Defence



When it counts - it matters -
Vacuum- and Reflow Technology from SMT

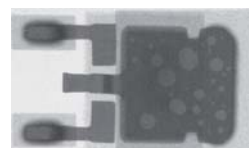
Reflow Soldering – Vacuum Soldering – Drying – Curing – Hot-Function-Test

www.smt-wertheim.com

SMT

Maschinen- und Vertriebs GmbH & Co.KG





Life sustaining devices, controls for aircraft or aerospace, defence, telecommunications as well as automotive control systems all have one thing in common:

They have to function faultlessly over an extended period of time.

Base requirement for accomplishing this is a perfect solder joint. The smallest imperfection can potentially have fatal consequences.

Decisive is a high strength, nearly void free solder connection. Voids in a solder joint have to be reduced to a minimum without compromising other important parameters.

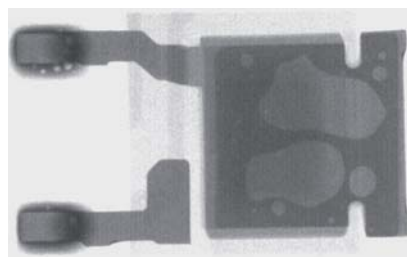
SMT offers the market a unique solution.

When it counts - it matters – Vacuum- and Reflow Technology from SMT

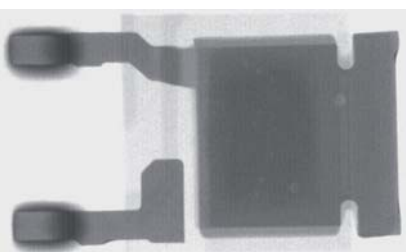


fig. Quattro Peak L Plus VAC N₂

SMT Vacuum Plus N₂



Solder results without vacuum soldering:
Share of voids: >25%



Solder results with SMT vacuum module:
Share of voids: < 5%

The Vacuum Plus N₂ System is designed as a module which is placed between the heating and cooling section of a SMT Reflow System and, therefore, makes available another process step towards perfecting soldering technology. All required parameters like time interval to vacuum, level of vacuum, venting, etc., can be freely defined in consideration of process and product requirements. Those can be comfortably entered via the user-friendly touch-screen.

The complete Vacuum Plus N₂ System is particularly flexible because of the integration of the vacuum functionality, including nitrogen control, with the machine controls and operating concept of the reflow soldering system. If the vacuum module is set in off-mode the complete system will perform like a standard reflow system but with an expanded heating zone and consequently the capability of increased throughput. It should be taken for granted that the complete Vacuum Plus N₂ Module combined with reflow system can also be supplied by SMT with our well-proven multi-track transport concept.



fig. vacuum module

- Inclusions/voids will be reduced up to 99%
- Vacuum process can be switched on or off
- Nitrogen and air soldering possible
- Double sided PCB possible
- Pass through height: 30 mm (top and bottom)
- Small PCB with carrier
- Setting parameter: Time until sub-pressure, holding time sub-pressure, venting time, sub-pressure
- Only one sealing surface of the vacuum chamber
- Small footprint
- No increase in nitrogen consumption



The second time within a year, SMT Wertheim has distinguished itself by receiving two international awards for its SMT Vacuum Plus Reflow Soldering System.