

VERSAFLOW Ultimate – Combining All Advantages of High Speed Selective and Mass Soldering in one Machine!



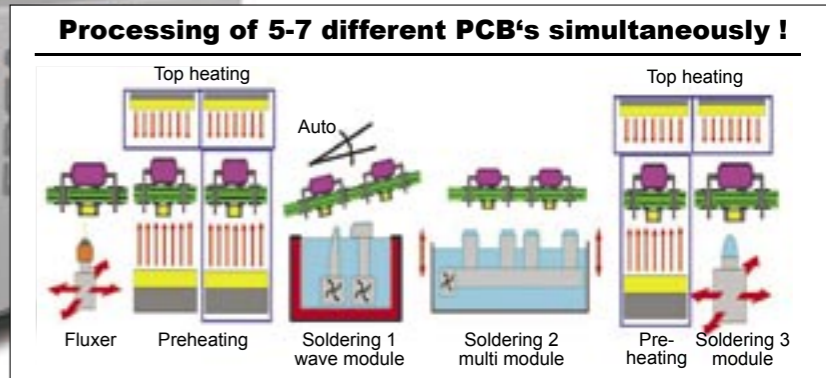
The ultimate solution for leadfree soldering



Single wave module



VERSAFLOW Ultimate



Auto angle adjustment of in-line conveyor



Double wave module in service position

The **VERSAFLOW Ultimate** is a truly high-end, high-tech machine which offers the complete range of in-line selective and mass wave soldering processes in one platform.

Where at all possible, moving away from a wave soldering process to an in-line selective process can increase joint quality, decrease DPM rate and decrease operating costs. Recognizing, however, that wave soldering cannot be completely eliminated in today's electronic manufacturing process, ERS A engineers, in combination

with leading OEMs in the automotive and telecommunication industries, developed our newest high-speed production "flagship" machine, the **VERSAFLOW Ultimate**.

Since its inception in 1997, the ERS A **VERSAFLOW** has been the technology leader for in-line selective soldering. The continual development and improvement on this core technology has always been based upon the need to balance throughput and flexibility requirements. The **VERSAFLOW Multiwave** was introduced in

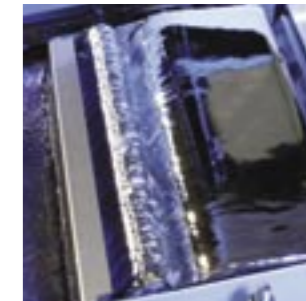
2000 to specifically address the highest throughput needs of our customers. The ever changing market demands continued to drive our R&D team. The **VERSAFLOW Highspeed** was introduced in 2002 to combine the flexibility of the **VERSAFLOW** with the throughput of the **Multiwave**. This machine opened a completely new perspective to streamlining the manufacturing process. Today, standing at the doorstep of lead free implementation, world-class manufacturers must take a strategic approach to optimizing their new production process under the aspects of increasing quality, increasing productivity and decreasing costs. Due to the fact that the reflow process is becoming more and more dominant, the problem is to find the proper machine balance between the increas-

ing need for an in-line selective process, and the decreasing, but ever present demand for classical wave soldering. The ultimate solution was to design the ultimate machine – the **VERSAFLOW Ultimate**.

The **VERSAFLOW Ultimate** is equipped with an initial fluxing and preheating module, which precedes either the double wave or the multiwave mass soldering modules. The PCB then continues on the in-line conveyor to a secondary preheating module and on to the flexible, single wave soldering module. As many as 5 to 7 different PCBs can be processed simultaneously! **Even imagine, that it is now possible to do the required touch up (e. g. solder bridge removal) after the wave process, in the same machine, fully automated, and with zero-defect! The VERSAFLOW Ultimate truly expands the horizons of a production soldering process by offering the ultimate in machine capabilities.**



Multiwave module



Double wave module