



Winner of the
productronica
innovation award 2019

PCB & EMS cluster: Limata – LUVIR Technology

Words of praise from Andrej Novikov, University of Rostock

Once again, this year a large number of entries were submitted for the PCB & EMS cluster, which indicates that this sector continues to demonstrate plenty of potential for innovation. In the end, Limata, a company from Ismaning, won with its newly developed LUVIR Technology (laser direct imaging technology) but the many runners-up also offered interesting and innovative products.

The clever combination of lasers, which work using different wavelengths, significantly speeds up the imaging process of solder masks. The IR laser is used for localized heating whilst the actual direct imaging is carried out with the UV laser. There is process flexibility on account of the fact that an extremely wide range of solder masks can be used which can vary in terms of material suppliers, coating colors, surface finishes and coating application methods. The layers of the solder mask can also be processed on rigid or flexible PCBs.

The application of solder masks is gaining particular importance especially in modern power and high-voltage electronics. The high energy density of the combination of IR and UV lasers means that thick layers of solder masks in particular can be reliably processed with a high level of precision and a great imaging speed, providing users with clear advantages both in terms of process control and the quality of the end products.