



Winner of the  
**productronica**  
innovation award 2021

## **Cluster Future Markets: Koh Young – Neptune C+**

### Words of praise from Dr. Sandra Engle, VDMA Productronics Association

Koh-Young's patented LIFT technology (laser interferometry for fluid tomography) offers a non-destructive, inline 3D inspection method for detecting defects in coatings and epoxies (whether transparent or translucent). Defects can be identified as bubbles, cracks and splash marks.

Time consuming (destructive) cross sections were necessary with earlier offline systems to measure thickness defects and gave only statistical estimates of actual defect rates. Koh-Youngs' inline measurement system can inspect the coating across the entire assembled board realtime.

Many AOI systems in the market offer inspection methods for coatings, using UV light, but they don't have as fine a detection resolution as the method developed by Koh-Young which can detect defects down to 200µm using the Near-Infrared light spectrum.

With miniaturization and the resulting high-density component placement, board coatings are thinner, and defect tolerances tighter. Ensuring that a defect free coating is applied is important in the production of highly reliable assembled PCB's, that are used widely in critical systems for example, in aviation and transportation.

Congratulations to Koh-Young and good luck in the market with this promising innovation!