

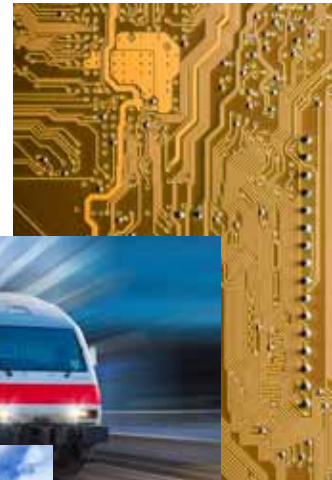
## In-line Inspection for PCB Materials: Quality and Process Control



Dr. Schenk, leading supplier of high precision inspection systems, offers the groundbreaking MIDA (Multi Image Defect Analysis) technology that helps PCB materials manufacturers to combine the detection of defects with material monitoring. This is very important for the production of high-quality electronic components such as printed circuit boards (rigid and flexible) as well as for many other technologically advanced industries. EasyInspect identifies miniscule defects that can occur during the manufacturing process. EasyMeasure monitors the homogeneity of the final product's surface properties (density, thickness etc.) The combination of EasyInspect and EasyMeasure ensures product quality and optimizes the PCB material manufacturing process with a single system.

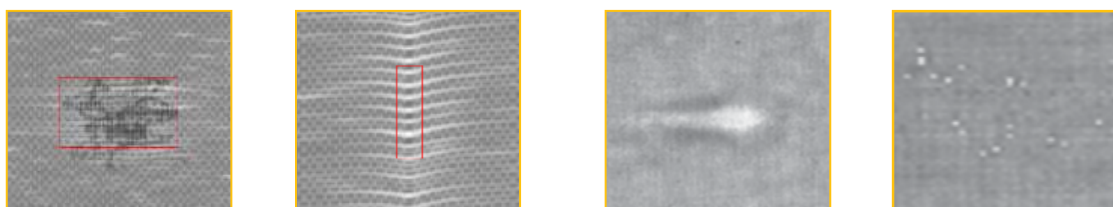
### PCB Web Materials

- Glass fiber
- Prepreg
- Copper foils
- Release Films
- Dry film & Cap sheets
- Flex PCB (Kapton etc.)
- Polyamide



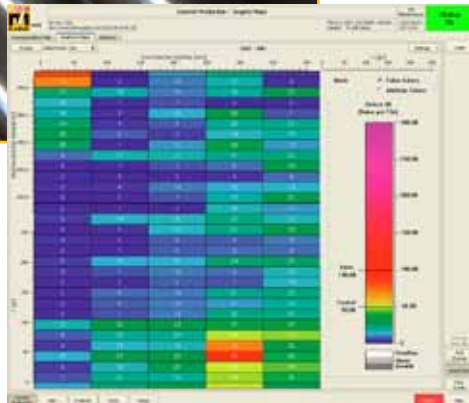
### Other Applications

- Transport
- Aerospace
- Architectural
- Renewable energy
- and more



## KEY BENEFITS

- Better technology:
  - Multiple Image Defect Analysis (MIDA) offers inspection using up to four optical channels for each defect
- Better quality:
  - Higher yield and higher quality of final products
  - Increased customer satisfaction through fewer returns
- Better cost efficiency:
  - Cost savings by replacing manual quality control
  - Increased productivity and accuracy through early detection of process problems
- Better profit:
  - Enables a fully automated production and packaging line
  - Increased throughput of production
  - Faster time-to-market for new products through immediate process feedback



## Easy Measure: 100% control of the PCB material production process

EasyMeasure, Dr. Schenk's additional inspection option, provides manufacturers with the ability to monitor homogeneity of individual material layers.

This feature provides control over thickness uniformity and density distribution of PCB material components. In a multi-layer material, where even smallest inhomogeneities in the resin distribution can make the material unusable, and therefore unsellable, this inspection capability offers a key competitive advantage for the manufacturer.

### About Dr. Schenk

Dr. Schenk GmbH, established in 1985, is a globally active, innovative high-tech company based in Munich, Germany. For the third decade now Dr. Schenk offers comprehensive solutions for automated quality assurance and production process monitoring for the solar, flat glass, film and foil, converting, optical media and semiconductor industries.

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