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DRAGONFLY

AUTOMATIC OPTICAL INSPECTION

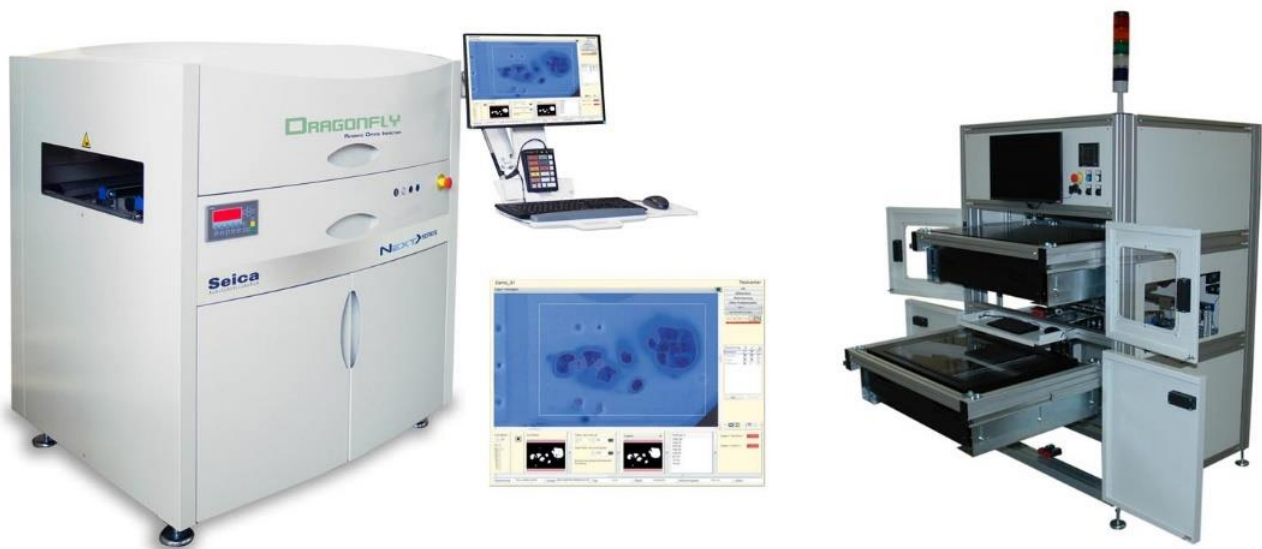
NEXT>

VIVA
NEXT

Conformal Coating Inspection

Dragonfly CC (Conformal Coating) NEXT> is the generation of systems featuring sleek look thanks to the premium materials of the chassis and innovative worth discovering performances, ensures a quick and complete examination of all coated assemblies.

The combination of multi-colored LED lighting, UV-LED lighting with the color line scan camera enables clear Laquer Inspection. The full-scan imaging of the PCB will ensure proper detection of faults. Compared to manual inspection, the results of **Dragonfly CC** are not operator dependent, but always objective and reproducible.



The inspection allows rapid feedback of process faults (closed-loop). The test results are displayed for documented repair of the module at the appropriate repair station.

This results in time and cost savings as well as a significant increase in quality: **Dragonfly CC NEXT> saves time, space and money, the typical payback is eight to twelve months.**

To receive a flawless end product and at the same time reduce the costs for quality control and on-going basis, inspection is required to make sure faults do not arise. AOI (Automatic Optical Inspection) allows an economical test of various processes.

Automatic and manual fabrication steps can therefore be verified using many diverse criteria. There is a demand for a flexible solution; it should provide a test with different requirements in mind and without an elaborate and complicated test program process. The program generation can be done in minutes.

PROCESS OPTIMIZATION

Utilising **Dragonfly CC** for conformal coating not only detects faults like missing areas and splash contamination but also helps with process control. Initial coating programs can be checked and fine-tuned to create uniform coating patterns with an even thickness.

Existing processes can be monitored for changes during the production run. A blocked nozzle or a material change can easily be spotted.



In order to detect conformal coating defects, it is necessary that the coating material has an UV trace. The product has to illuminate with UV light and using the fluorescent light for the inspection. Our solution uses an High Power UV LED source to amplify the response of applied product and have a better result in testing.

INDUSTRY 4.0

Information, and the technology needed to collect and analyze data is key to the successful digitalization of the manufacturing process, which is at the heart of the **Industry 4.0** concept.

QUALITY THROUGH PROCESS CONTROL

Reliable fault detection

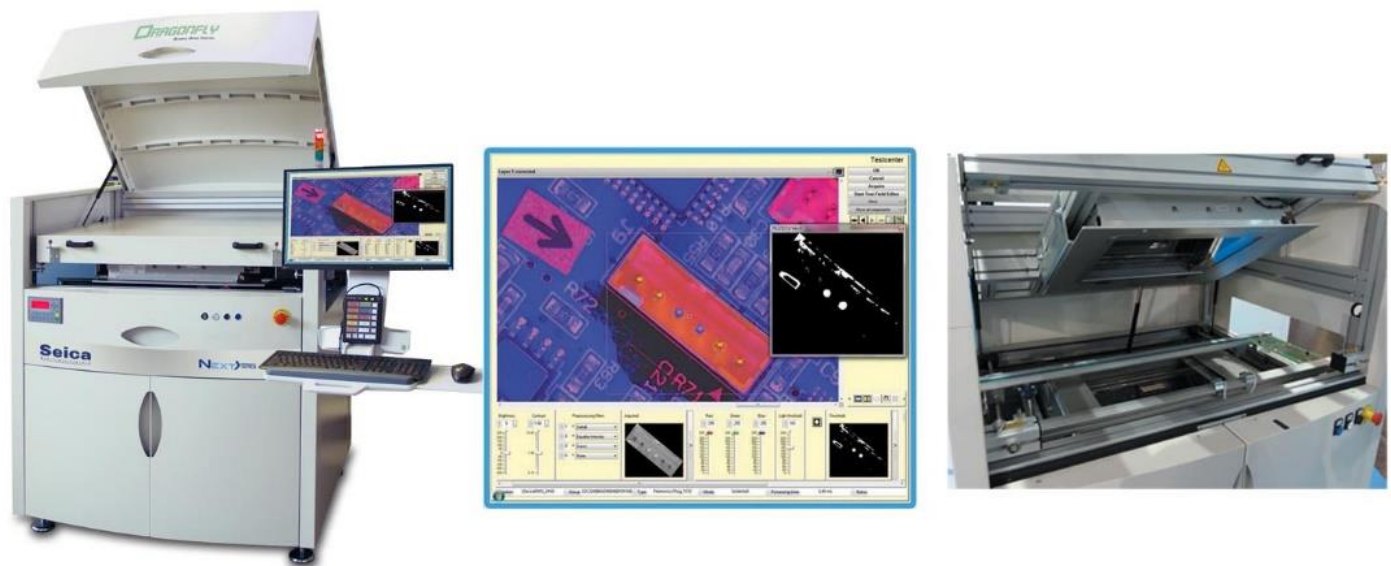
- Painting zone (area)
- Paint splashes to 100µm (fully covered)
- Identification of DMC / barcode on the review page without additional Reader
- Optional coating thickness measurement

High inspection depth and large test facility

- High-resolution color scanner
- Multi-color LED lighting Plus UV lighting
- 24Bit Color, 14.040 x 20.400 Pixel per Scan
- Board size: small ver. 300mm x 400mm, large ver. 420mm x 540mm
- High speed: 25mm/Second
- Entire surface parallax-free view
- Twin system for simultaneous inspection of both sides of PCB's TOP/BOTTOM
- For cross line or benchtop installation, CMOS color camera version available, 18 or 42Mpixel

Clear operation

- Display the error position and representation of error and comparison image
- Software (GUI) identical to the test system and repair stations
- Fault is assigned by pressing a button statistics
- Easy to use and train



Statistics and Process Control

- Traceability by evaluating barcode / 2D code / RFID
- Cost savings because of quick process optimization
- Intuitive inspection plan
- Graphical interface
- Powerful and flexible test algorithms
- Optional Process SPC and data collection module

General features

- Power supply: 230V 50Hz 1Ph+N+G; 4 A
- External Dimensions: 1200x1071x1373mm (LxWxH)
- Weight: 560Kg
- SMEMA compatible

- MLD1200: fixed optical system, only mirrors and illumination are moving, almost no wear.
- Low maintenance.
- MTBF = 1,300,000 Scans / UV Lights 5000 Hours.
- One-Pass-Scan: complete test of the board in one pass scan.
- Timing depend on board size between 6 and 25 sec.

Thanks to the global extension of Seica and its subsidiaries, Seica can ensure local service support wherever the customer needs it, in addition to 24-hour telephone assistance.



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