PHIXEL MIS - STRIP-TO-STRIP INSPECTION AFTER MOLDING

Enables early detection of production problems to prevent loss

The Strip-to-Strip Inspection after molding guarantees the quality of WIP products with fast feedback loop. When manufacturing cost and quality are a concern, the PHIXEL MIS minimizes waste and loss - enabling early detection of defects usually only discovered during the final 4th Optical inspection of finished products. With ultra-high-speed and high-precision 2D vision scans, as well as a high-precision laser for reject treatment, PHIXEL MIS helps to achieve best-in-class throughput.



Key features

Application

 Inspection of lead-frame substrate to detect package dimension, molding and plating defect

Key features

- Dual stations for 2D inspection and laser marker
- Throughput: Up to 117000 UPH (subject to package size & leadframe density)
- Support max 100 mm x 300 mm substrate LF size
- 3-4 magazines for on/off loaders
- · Auto-lead frame QR code reading
- Full strip laser mark option
- Vacuum system and brush clean for package laser mark
- AOI cellular network architecture for recipe and e-Map management
- Option: real-time data feeding to MES and eSPC
- Option: auto email alert (defect/batch summaru)
- SEMI standard with SECS/GEM interface
- Advanced Defect Classification (ADC)

Specifications

Imaging system

- Camera: 16K > 8K or 16K color line-scan camera
- Number of cameras: 2
- Resolution/Field of view: 3.17 to 6.3 µm/ pixel, FOV 50 mm to 100 mm
- Minimum object detection: 12 to 25 μm
- Lighting: Compound lighting

Inspection categories

- Program mode: Fast programming for common reject criteria
- Reject treatment: Electronic map and auto punching
- Inspection view: Top and bottom view

Inspection items

- Moulded lead-frame defects: Chipping. Body broken. Scratch. Pin hole or void. Mold shift. Incomplete mold. Gate remain. Foreign material. Gate chipping. Rough surface. Melted Body. Blister. Body crack. Bubbles
- Lead-frame defects: Flash along lead. Cu exposure. Contamination. Bend lead or twisted lead. Mould compound leakage on lead. Burr. Missing lead. U-shape flash (mold flash under lead-frame). Indexing hole deformation. Mold flash. Lead press. Lead width. Empty (no encapsulation)



Follow us on LinkedIn: www.linkedin.com/company/itecequipment



www.ITECequipment.com

© 2024 ITEC

All rights reserved. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. No liability will be accepted by the publisher for any consequence of its use. Publication thereof does not convey nor imply any license under trademark- or other industrial or intellectual property rights.

