

Q&A Session for Integrated In-Line Test & Inspection

Date: August 3, 2005

Q: Is the Strategist software part of the standard software for other Teradyne hardware products, such as x-ray or ICT?

A: Strategist is a standalone solution that can be used with Teradyne ICT and AXI or any other system on the market.

Q: What is meant by closed-loop feedback?

A: Close loop feedback refers to the ability to take the defects detected by a test system and feed them back into the model and confirm that the defect detection list is accurate.

Q: Can AXI keep up with in-line processes?

A: Simple Transmissive AXI can easily keep up with the beat-rate of a production line, while only the newer 3D AXI systems are beat-rate capable. Teradyne's Strategist software can accommodate for slower AXI systems by allocating defects that AXI is best at finding and comfortably trading off coverage to meet a line's beat rate requirement.

Q: Are there any limitations on which AOI platforms Teradyne can interface with (e.g., Landrex or Orbitech)?

A: We support both of the above directly and the AOI models will give the correct default coverage. The only possible issue is whether we produce the correct output file. In most cases, output files are relatively simple and can be adapted from the standard outputs

Q: We do a lot of flash programming and EEPROM programming, is it possible to do this in-line? This typically doubles our test time at a minimum.

A: Yes the can be done in-line, but it may extend the test time beyond the beat rate of the line. Strategist can model this and, if needed, can trade ICT coverage to allow for the longer programming times and still keep up with the beat rate.

Q: Do you have an in-line ICT solution?

A: Teradyne has systems that can be integrated into a handler from a number of suppliers as a 19 inch rack. This is a fully integrated in-line solution.

Q: How do you deal with contact issues in-line for ICT?

A: Contact with in-line solution tends to be better than with a traditional vacuum fixture. This is because the board movement is controlled mechanically with push down gates.

Q: How about top and bottom side probing and power up in-line?

A: As with normal fixtures double-sided probing is available with inline solutions.