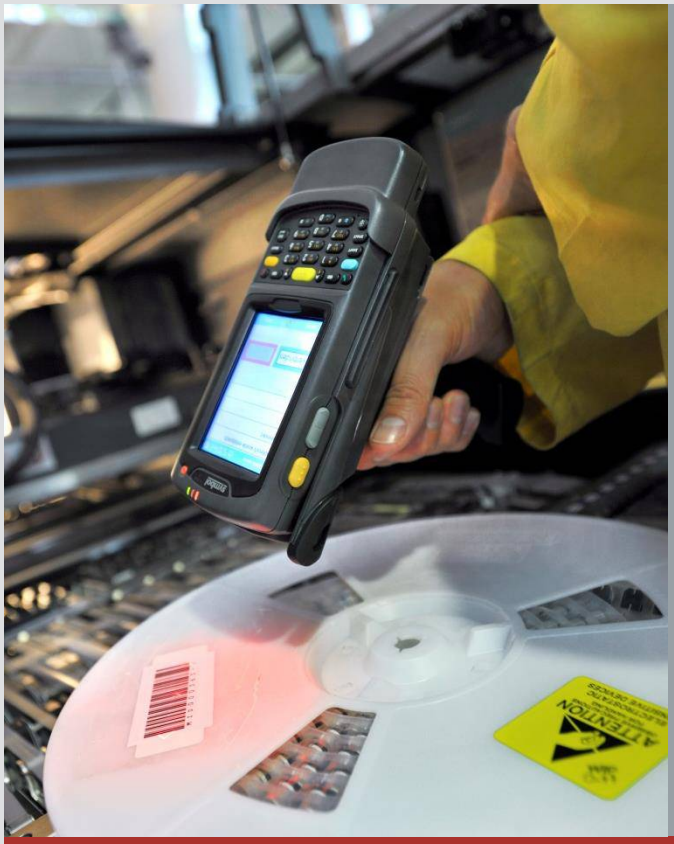
ASM Traceability

YOUR BEST INSURANCE FOR HIGH QUALITY PRODUCTION



Your safety net against potential liability claims: ASM Traceability stores real-time information on assembled PCBs and placed components and allows you to analyze whether faulty input materials are responsible for defects in the finished products.

For maximum productivity and quality in your production, it is not only important to know how many PCB boards per hour your line can produce, but also how many technically and qualitatively flawless boards are assembled and delivered.

What is needed are production lines with a closed loop component verification system combined with a reliable traceability solution that stores real-time information on material used during production to minimize risks of defects or recalls.

The SIPLACE component verification system allows the registration of all incoming material during the placement process and prevents machine operators from setting up wrong components during production. If some of the placed components subsequently turn out to have faults, ASM Traceability can ascertain which other boards or batch of boards are also fitted with these faulty components.

As a result, it is possible to recall only those boards that really have faults. In addition, the scope for providing evidence to be used in liability claims against component suppliers is of benefit to the customer.

ASM Software

ASM Traceability

Main features

The end-user can specify which component data have to be registered for traceability e.g. part number, lot ID, vendor ID, date code, etc. This information can be encoded on a single barcode or on multiple barcodes onto the component reel.

The validation and registration of the above mentioned component traceability data are done with the component verification system SIPLACE Setup Center by using a wireless handheld terminal to provide the operator with maximum flexibility. This forced component verification can be done either off-line in a pre-setup area or directly at the line.

For maximum accuracy and reliability in the component verification and traceability process, each individual tape feeder can be equipped with a Splice Sensor to ensure that the change of component reel is detected during material replenishment with tape splicing.

During production, a PCB Barcode scanner allows the registration of the serial number of each PCB processed by a SIPLACE machine. This serial number will be combined with a manufacturing order (Job ID) and the product name. It is also possible to read the PCB ID with the PCB camera in the SIPLACE machine or to feed barcodes' reads from upstream equipment to ASM Traceability.

ASM Traceability merges and records all registered trace data of PCB's and components together during the placement process and store it in a central database.

Moreover, the traceability information of the material verified on the DEK printer can be imported and processed by ASM Traceability in order to store and centralize all relevant material verification information into one single traceability application.

Traceability information

After each produced PCB the following data can be delivered by ASM Traceability:

- Line name
- Station name
- Manufacturing Order (Order ID)
- Unique PCB ID (Board ID)
- Name of the PCB (panel)
- Date/time of the beginning of processing
- Date/time of the end of processing
- Recipe and setup name
- Name of subpanel 1 to n
- Unique sub-panel ID (if read by PCB camera)
- Within each subpanel:
  - List with all placed component lots including component name, lot ID, vendor ID, date code, etc...
  - Package form
  - Feeder track information
  - Placement position on the board
- Material used on DEK printer, i.e. printing medium, screen, squeegees, tooling, etc… (DEK Verification and Traceability option required)

An individual component ID can also be read by the PCB camera before pickup in the SIPLACE machine and combined with all other traceability data delivered for the processed PCB.

The collected ASM Traceability data can be visualized via the Trace Monitor interface and is made available for further processing as XML files or via OIB interface.

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