



TRACEABILITY

The Cogiscan Traceability software application captures and maintains historical data throughout the complete manufacturing process. All batches of components, consumables and tooling can be associated with the finished product. The Cogiscan historical database and traceability reports provide liability protection and proof of compliance.

- Traces all materials used during each operation
- Offers multiple levels of resolution, down to the PCB Reference designator.
- Records and gives easy access to a complete "as built" history:
 - Date and time of production, assembly, test, inspection, etc.
 - Assembly line and equipment used.
 - Components, consumables, tooling part numbers, lot numbers and serial numbers.
 - Assembly route.

HOW DOES IT WORK?

1. All components and other materials that require traceability are identified with barcode labels and/or RFID tags.
2. These items are scanned in the system when they are loaded and unloaded from a specific production machine or workstation.
3. The system also keeps track of partially assembled boards as they enter and exit each operation, machine and workstation.
4. The traceability application associates the material currently loaded at each operation with the product being assembled. All this information is stored in the Cogiscan data warehouse (historical database).
5. A set of standard traceability reports can be generated quickly and additional data mining and custom traceability reports can be developed with the optional Cogiscan data warehouse service.

BENEFITS

- **ACCELERATES AND SIMPLIFIES RECALL MANAGEMENT.**
- **IMPROVES QUALITY BY HELPING TO IDENTIFY THE ROOT CAUSE OF PRODUCT FAILURES.**
- **INSURES 100% READ RATE OF SERIALIZED BOARDS BY USING THE PRODUCT FLOW CONTROLLER (PFC).**
- **ELIMINATES HUMAN INTERVENTION AND BAR CODE SCANNING BY USING THE RFID SMART FEEDER.**

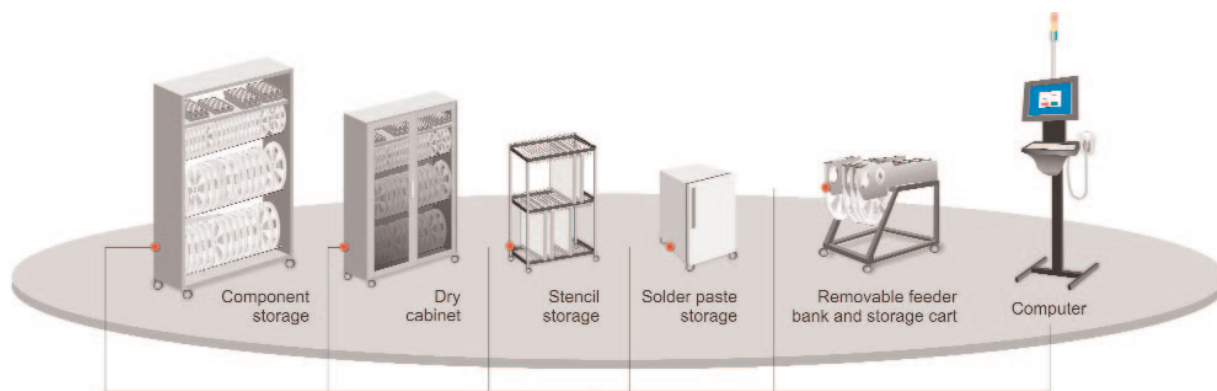


*The right material at the right place
at the right time.*

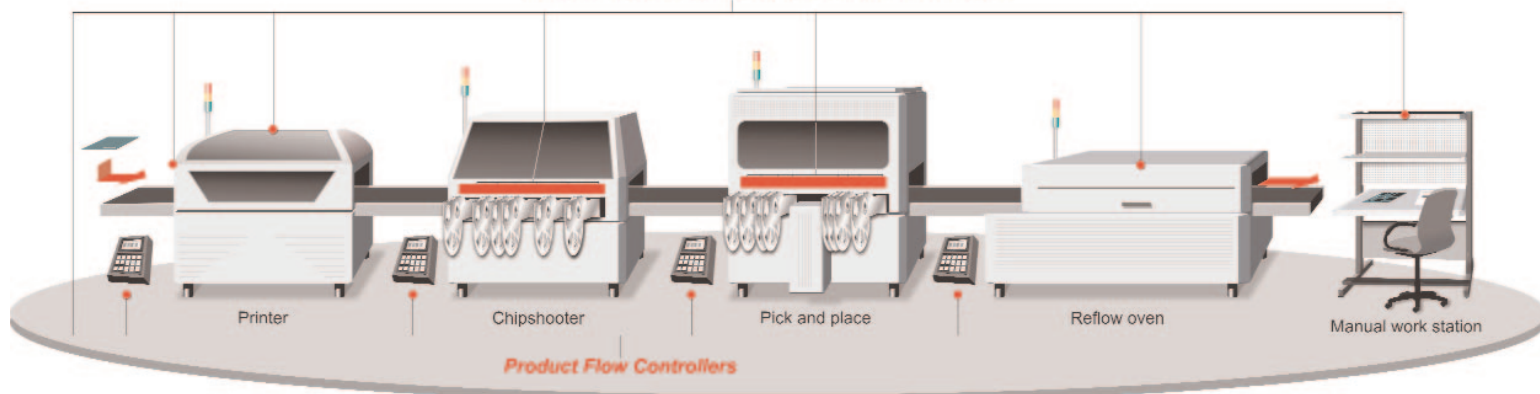


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Smart Material Control



Bar code readers and/or Integrated RFID Antennas



Product Flow Controllers

SMART MATERIAL CONTROL

The Cogiscan platform enables real-time tracking, traceability and control of all materials on and off the assembly line. This includes work-in-progress, components, tooling, consumables and other items critical to the assembly process.

The modular concept of the Cogiscan platform offers many significant benefits :

- Flexible, scalable and cost-effective.
- Quick and simple to implement, easy-to-use.
- Hardware and software available separately.
- Fully automatic configuration using RFID.
- Semi-automatic configuration using bar code.
- Open architecture for seamless integration with MES, MRP and ERP.

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RFID CONTROL

Leading equipment manufacturers are working with Cogiscan to embed our RFID Control technology into their machines and feeders. Cogiscan is committed to establishing a global standard for RFID-based material tracking

in the electronics manufacturing industry.

SOFTWARE APPLICATIONS

Traceability can be integrated with other Cogiscan software applications:

- **INVENTORY TRACKING:** track the physical location and remaining quantity of all components and materials.
- **LINE SET-UP CONTROL:** ensure automatic validation of all materials.
- **MSD CONTROL:** provide real-time tracking and status of all moisture sensitive devices.

All software applications are compatible with RFID technology (fully-automatic) and/or bar code technology (semi-automatic).



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* Smart Material Control

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