



PRODUCT FLOW CONTROLLER

The Cogiscan Product Flow Controller ensures that production doesn't proceed to the next step of the process unless all required components, materials and tools are detected at the correct line locations. It can be used to realize several different benefits, depending on the specific application.

HOW DOES IT WORK?

1. The Cogiscan Product Flow Controller is typically connected at the interface between a conveyor and machine (example: screen printer or placement machine).
2. It prevents PCBs from advancing to the next step unless all requirements are met to ensure defect-free production at the downstream stations.
3. Additionally, for WIP Tracking and Traceability applications, it integrates with conveyor-mounted PCB scanners to ensure the PCB serial number is captured at each required scan point, 100% of the time, to ensure data integrity.

BENEFITS

- PREVENTS DEFECTS.
- ENSURES 100% READ RATE OF SERIALIZED PCBs AT EACH REQUIRED SCAN POINT.
- DISABLES PRODUCTION WHENEVER MOISTURE SENSITIVE DEVICES OR OTHER TIME SENSITIVE MATERIALS HAVE EXPIRED.
- MAKES SURE THE PRODUCT FOLLOWS ALL SPECIFIED ROUTE STEPS, AND IN THE CORRECT SEQUENCE.
- CAN BE INTEGRATED WITH COGISCAN OR THIRD PARTY SOFTWARE APPLICATIONS.

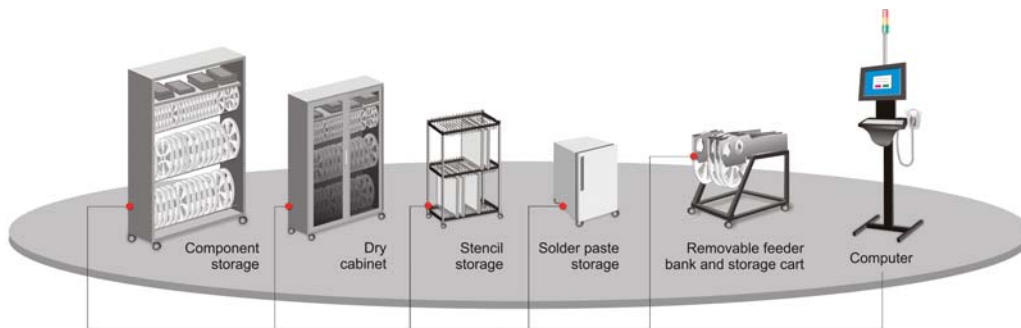


*The right material at the right place
at the right time.*

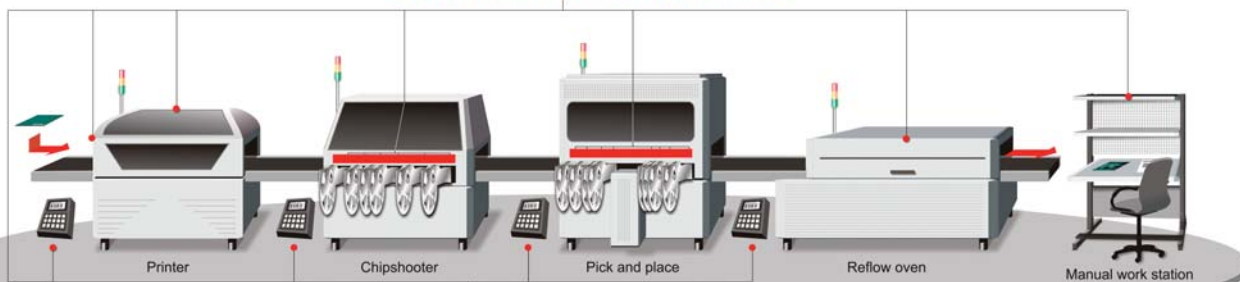


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* Smart Material Control



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

The Product Flow Controller can be integrated with several Cogiscan software applications, including:

- **LINE SET-UP CONTROL** ensure automatic validation of all materials.
- **WIP TRACKING AND ROUTE CONTROL:** track the physical location of PCBs while confirming that each one progresses through the required sequence of operations, and in the correct order.
- **TRACEABILITY:** trace all materials involved in building a specific product.
- **MSD CONTROL:** ensure compliance to IPC/Jedec J-STD-033 for proper handling of Moisture Sensitive Devices.



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50 de Gaspé, Suite A5, Bromont (Quebec) Canada J2L 2N8

Tel: 450 534-2644, info@cogiscan.com

www.cogiscan.com