



# INVENTORY TRACKING

Electronic components typically represent 70-90% of the total cost of a finished Printed Circuit Board Assembly (PCBA). Traditional ERP and MRP systems only keep track of what material is currently stored in the warehouse, and what was released to production in the form of Work-In-Process (WIP). An excessive amount of time and resources can be wasted trying to find a specific reel of components somewhere on the shop floor. The Cogiscan inventory tracking application keeps track of the precise location and status of all materials. It gives users instant access to:

- Exact location of materials.
- Material remaining quantities.
- Remaining floor time for Moisture-Sensitive Devices and other time-sensitive materials.

## HOW DOES IT WORK?

1. Materials are identified using RFID tags and/or bar code labels and they are scanned in the system as they move from one location to another.
2. When operators need specific materials or tools, they simply perform a search in the system.
3. The system provides the exact location and status of materials available on the shop floor.
4. Remaining quantity information can be entered manually or it can be updated automatically through machine communication.

## BENEFITS

- REDUCES INVENTORY COST.
- REDUCES TIME TO LOCATE AND COUNT MATERIALS.
- ELIMINATES UNNECESSARY MOVEMENTS OF MATERIALS, TOOLS AND EMPLOYEES.
- SIMPLIFIES AND ACCELERATES PRODUCT CHANGEOVER.

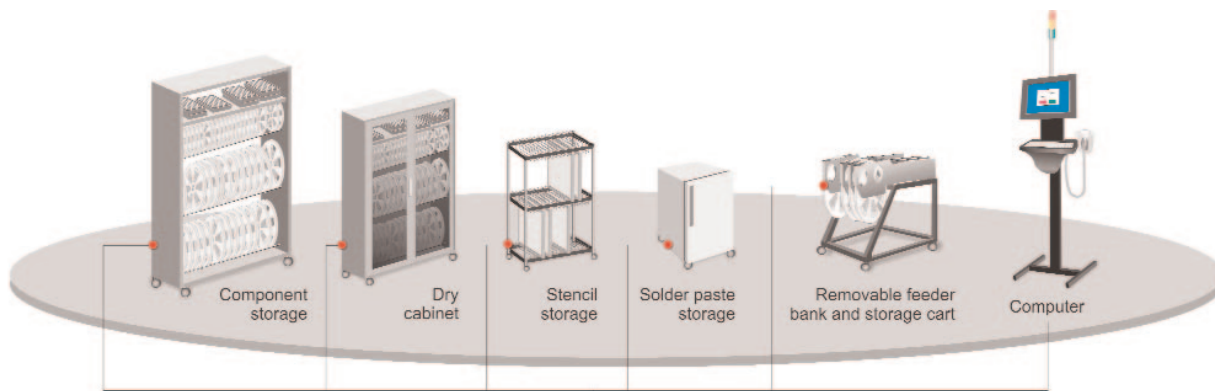


*The right material at the right place at the right time.*

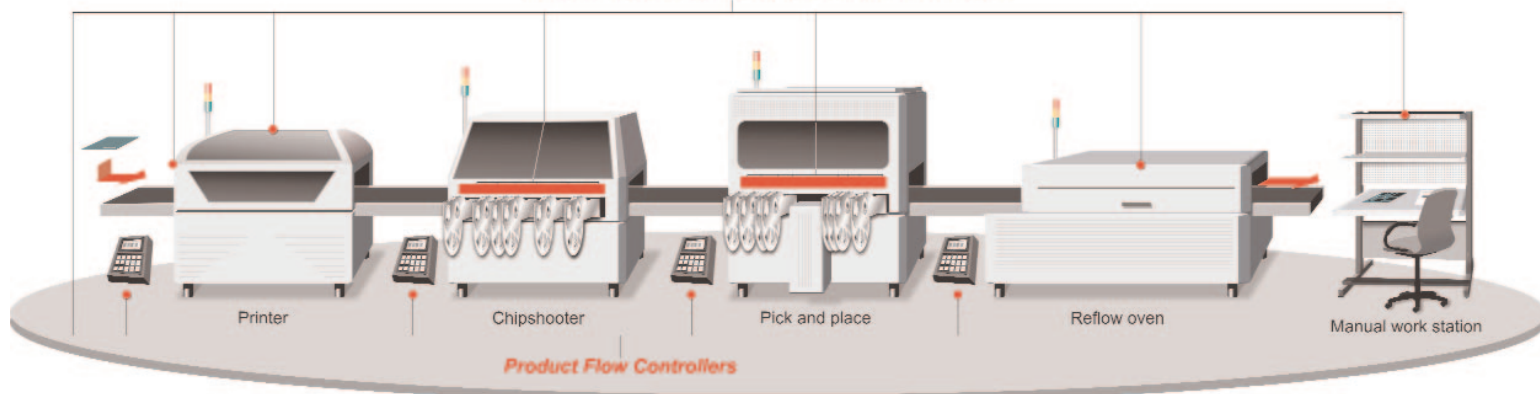


**Cogiscan**

\* 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

Inventory Tracking can be integrated with other Cogiscan software applications:

- **LINE SET-UP CONTROL:** ensure automatic validation of all materials.
- **TRACEABILITY:** trace all materials involved in building a specific product.
- **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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