

# MOISTURE SENSITIVE DEVICE CONTROL

Moisture Sensitive Device (MSD) Control is widely recognized as a critical and difficult application. Insuring proper control of MSDs during assembly has a direct impact on the short- and long-term reliability of the finished product. Leading electronics OEMs and EMS providers recognize the Cogiscan MSD Control application as the benchmark in material quality and process control. This expert system keeps track of each individual tray or reel containing moisture-sensitive components, from the time they are removed from their protective dry bag through placement and final reflow.

It gives users instant access to:

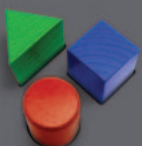
- Real-time status, physical location, and remaining floor life of all MSDs on the assembly line, dry cabinet, re-sealed dry bag and oven.
- Complete MSD traceability data simplifying audits and reducing liability.

## BENEFITS

- PREVENTS COSTLY FIELD FAILURES.
- MINIMIZES NUMBER AND DURATION OF BAKING CYCLES.
- ELIMINATES HUMAN ERRORS.
- REPLACES COMPLEX, CUMBERSOME AND MANUAL PROCEDURES.
- INSURES COMPLIANCE WITH INDUSTRY STANDARD (I.E. J-STD-033).

## HOW DOES IT WORK?

1. When the trays and reels containing moisture-sensitive components are removed from their dry bags they are identified with bar code labels and/or RFID tags.
2. The trays and reels are scanned in the system each time they are moved from one location to another, including on and off the placement machine, in and out of dry cabinets, re-sealed dry bags, bake ovens, etc.
3. The Cogiscan MSD Control application keeps track of the total history of exposure time in various environments.
4. Based on this information the system constantly monitors the remaining floor life according to the guidelines of the joint industry standard J-STD-033.
5. The system provides appropriate instructions, warnings and alarms to the production operators.

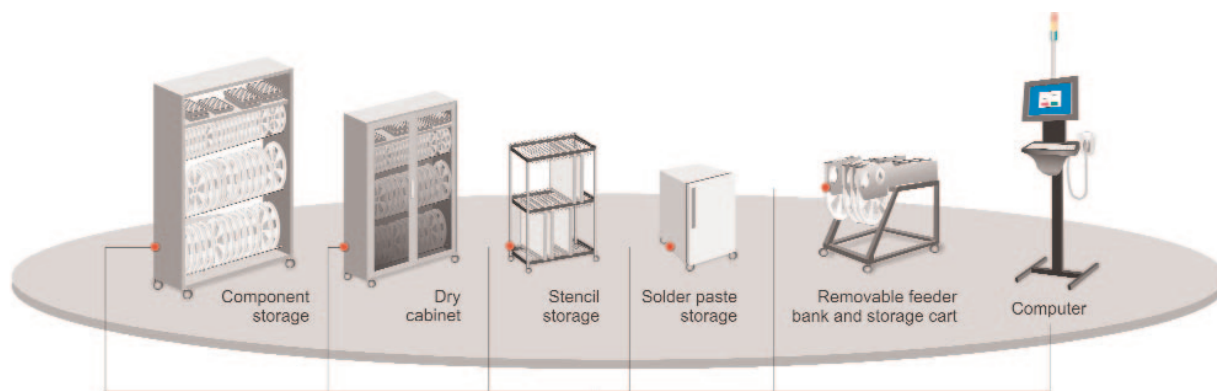


*The right material at the right place  
at the right time.*

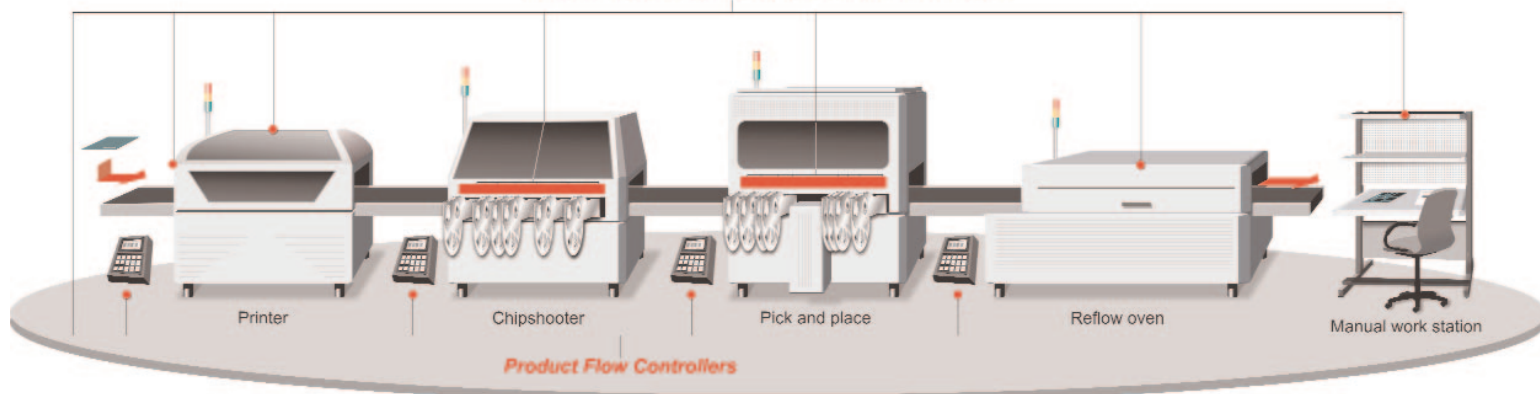


**Cogiscan**

\* 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

MSD Control 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.
- **INVENTORY TRACKING:** track the physical location and remaining quantity of all components and materials.

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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