



# LINE SET-UP CONTROL

The most complicated task for an SMT operator is to perform a product changeover. Several different components, consumables, feeders, and tooling must be loaded at the right locations at the right time. This challenge is exacerbated by the fact that many of these different materials are visually identical to each other. Any set-up error will result in assembly defects. Cogiscan's Line Set-up Control application can validate the correct set-up at each operation, while also optimizing the changeover process.

Line Set-up Control supports:

- Any type of machine or workstation.
- Any type of material, component, consumable, and tooling.
- Multiple line configurations with different machines and workstations.
- Different product revisions.

## HOW DOES IT WORK?

1. During a product changeover, the system compares the current line set-up to the one required for the next product.
2. All components, consumables, tooling, and machine programs that must be changed are clearly highlighted. Different color codes are used to identify which elements can remain as is, which components must be moved to another position, and which must be removed or added.
3. As changeover progresses, the system provides updated instructions in real-time, until all of the required elements have been validated.

## BENEFITS

- REDUCES THE RISK OF HUMAN ERRORS.
- REDUCES INVENTORY COST.
- REDUCES SCRAP AND REWORK.
- SIMPLIFIES AND SPEEDS-UP PRODUCT CHANGEOVERS.
- EASY TO INTEGRATE ON ANY TYPE OF MACHINE OR WORKSTATION.

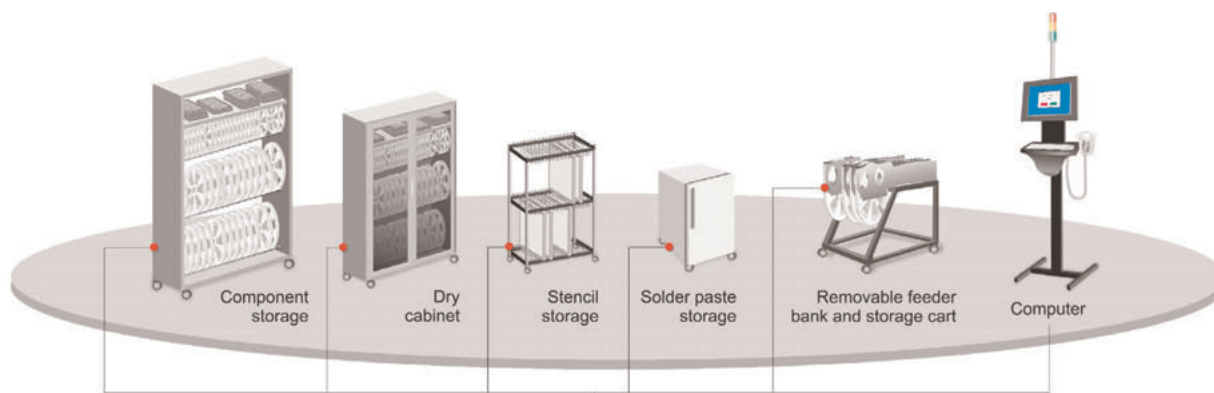


*The right material at the right place  
at the right time.*

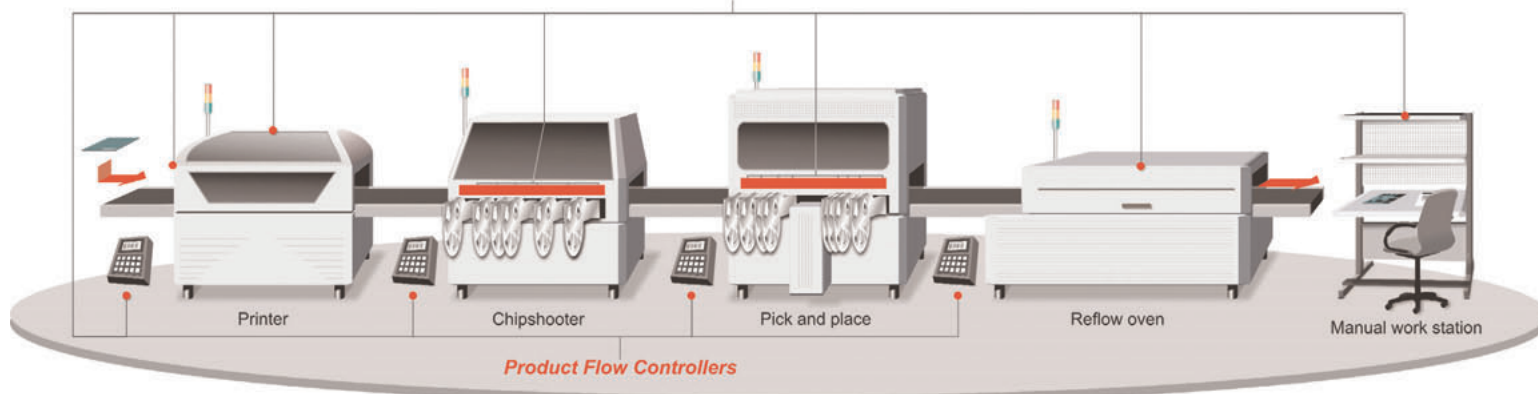


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★ Smart Material Control



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

Line Set-up Control can be integrated with other Cogiscan software applications:

- **INVENTORY TRACKING:** track the physical location and quantities of all components and 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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\* Smart Material Control

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