RFID SMART FEEDER

The Cogiscan RFID Smart Feeder system enables set-up validation for feeders and components on SMT placement machines. It tracks feeders and components on and off the placement machine without human intervention.

- The RFID Smart Feeder system is compatible with all major brands and models of pick & place equipment and it can be retrofitted to existing machines in the field.
- The customer’s inventory of “dumb” feeders can be easily and economically converted to “Smart” feeders.
- The RFID Smart Feeder hardware can be combined with Cogiscan material control applications or it can be integrated with any third-party software.

HOW DOES IT WORK?

1. A Cogiscan RFID tag is attached to each feeder.
2. An RFID antenna is mounted on the feeder bank of the placement machine, removable feeder banks, and/or the offline feeder storage rack.
3. During an offline feeder set-up operation, the reel is associated with a specific feeder.
4. RFID tags and antenna communicate to perform set-up validation, provide real-time location and usage information on and off the placement machine. The system automatically detects the arrival and departure of a feeder along with its precise location (feeder slot).

BENEFITS

- ELIMINATES BARCODE SCANNING AND HUMAN ERRORS.
- REDUCES CHANGEOVER TIME.
- COMPLETELY ERROR-PROOF.
- EASY RETROFIT ON ALL TYPES OF MACHINES AND FEEDERS.
- EASY TO INTEGRATE WITH ANY SOFTWARE APPLICATION.
SOFTWARE APPLICATIONS

The RFID Smart Feeder hardware can be integrated with Cogiscan software applications to track, trace and control feeders and components on and off the placement machine. The RFID Smart Feeder hardware can also be integrated with legacy and third-party manufacturing systems.

Typical applications include:

- **LINE SET-UP CONTROL**: ensure automatic validation of all materials.
- **INVENTORY TRACKING**: track the physical location and remaining quantity of all components and materials.
- **TRACEABILITY**: trace all materials involved in building a specific product.

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.

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.