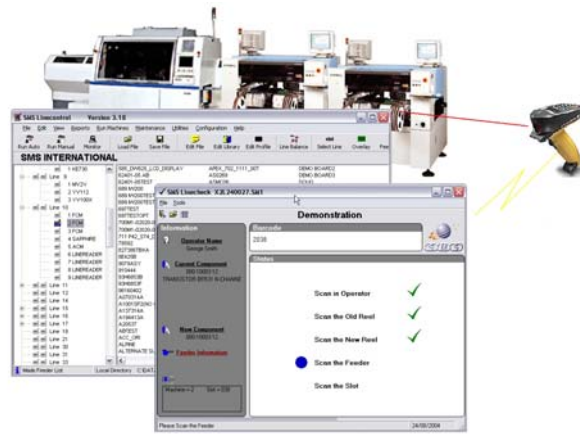# Linecheck

SMS Advanced Feeder Verification System

SMS Linecheck confirms that the new reel is the correct part and is the same part as the exhausted reel

SMS Linecheck verifies the accuracy of feeder set-ups on the assembly line

SMS Linecheck will track faulty feeders and prevent their use on a machine until they have been repaired

Accurate Feeder Control

SMS Linecheck is a feeder verification system that is able to track when feeders have been changed on machines and who done the change.

SMS Linecheck is able to work with all electronics assembly machines. Depending on the machine and configuration it can also prevent the machine from running until the correct replacement process has been done.

SMS Linecheck is designed to prevent the wrong part from being loaded onto a feeder position. The system removes most of the human error usually associated when a wrong part is put onto a feeder.

SMS Linecheck will also check that the previous part on the machine is correct. This is a powerful cross check system that Linecheck uses.

Job set-up

SMS Linecheck has a unique job set up function that allows operators to start a set-up off line and restart the same set-up later. This allows for example moisture sensitive devices to be put on the machine just before production starts, while all the other components have been set-up earlier.

Feeder cart scanning is used so that they can be set-up away from the machine then they are scanned onto the machine at the start of production.

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Operation

SMS Linecheck scans barcode labels on component reels, feeders and machine positions, and then compares the results with the feeder list stored in Linecontrol or an independent list. Once verification has taken place the line is free to resume production.

An additional option allows for recording operators. This can be achieved with operators having their own identification barcodes. The computer will check each operator has the authorisation to change to change the components and feeders or Linecheck can be set to just record the name of each operator that carries out a feeder exchange.

Linecheck can be configured from a two scan basic system to a seven scan comprehensive system:
- ✓ Scan Operator ID (Optional)
- ✓ Scan Existing Part
- ✓ Scan Existing Part Batch Code (Optional)
- ✓ Scan New Part
- ✓ Scan New Part Batch Code (Optional)
- ✓ Scan Feeder (Optional)
- ✓ Scan the Machine Feeder Number (Optional)

The main features of Linecheck:
- ✓ True remote feedback scanner option allowing scans to be confirmed away from the computer
- ✓ Verifies the feeder to be used as serviceable
- ✓ Verifies the replacement component as correct
- ✓ Verifies that the used component being placed was correct
- ✓ Verifies that the feeder is being placed on the correct position
- ✓ Verifies operator authorisation
- ✓ Prevents the machine running until all conditions are met

Benefits

The key to high quality Surface Mount Manufacturing is the prevention of defects. One of the greatest risks is the loading of incorrect components onto the machine which can lead to costly rework or at worst, failure of your product in the field. Another risk is the inability to track feeder and performance that can lead to productivity drop-off and unnecessary scrap.

SMS Linecheck will assist in reducing the opportunity to load an incorrect feeder, and help in maintaining your feeders so you can achieve optimum machine performance.
The System when linked to other SMS software can provide product and component traceability. SMS Linecheck is part of the SMS Traceability Suite.

Linecheck System Structure

Linecheck runs on a computer that exists on the SMT line. Linecheck can be used with Linecontrol™ or from an independent feeder set-up list.

Log data

Log data is stored in the SMX Database or an Access Database.

Data is stored in the SMX Database directory structure allows us to easily find historical data quickly. The files are separated in the structure by date, by machine and by product.

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