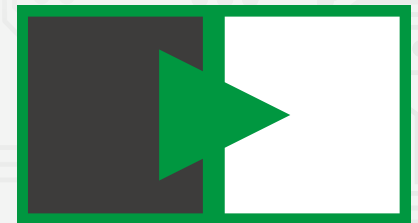


Automated Program Change



IPC-HERMES-9852

The PCB controls the SMT line during product changeovers

In the Intelligent Factory, SMT production lines with ASMPT hardware and software can now change programs fully automatically by passing the data of the respective circuit board from machine to machine via the standardized IPC-HERMES-9852 interface. The line no longer needs to run empty for a product changeover.

The system transmits the circuit board data to the solder paste printer already at the start of the line either via a barcode reader or via IPC-HERMES-9852. If a batch change is required based on this information, the new production program is downloaded automatically. Once printed, the circuit board is passed along to the Process Lens along with its IPC-HERMES-9852 data. The SPI system checks the data and changes the program, if necessary. The subsequent placement machines follow the same routine.

The Automated Program Change function in the WORKS Operations application enables automated program changes for family setups and across setups – without manually loading the corresponding production program. If operator support is required for the changeover, WORKS Operations automatically notifies the right people in a timely manner – skills-based and across lines.

Quick and easy product changeovers



Automated product changeover

The new circuit board initiates the program change at the start of the line, causing the system to propagate it from machine to machine.



NPIs with no production interruption

The line no longer needs to run empty for product changeovers, allowing it to produce multiple product types simultaneously.



Less setup effort

If a line has been set up for multiple products, changeovers can take place completely without manual intervention.



Relief for operators

New production programs no longer need to be downloaded manually to the machine.



Targeted operator deployment

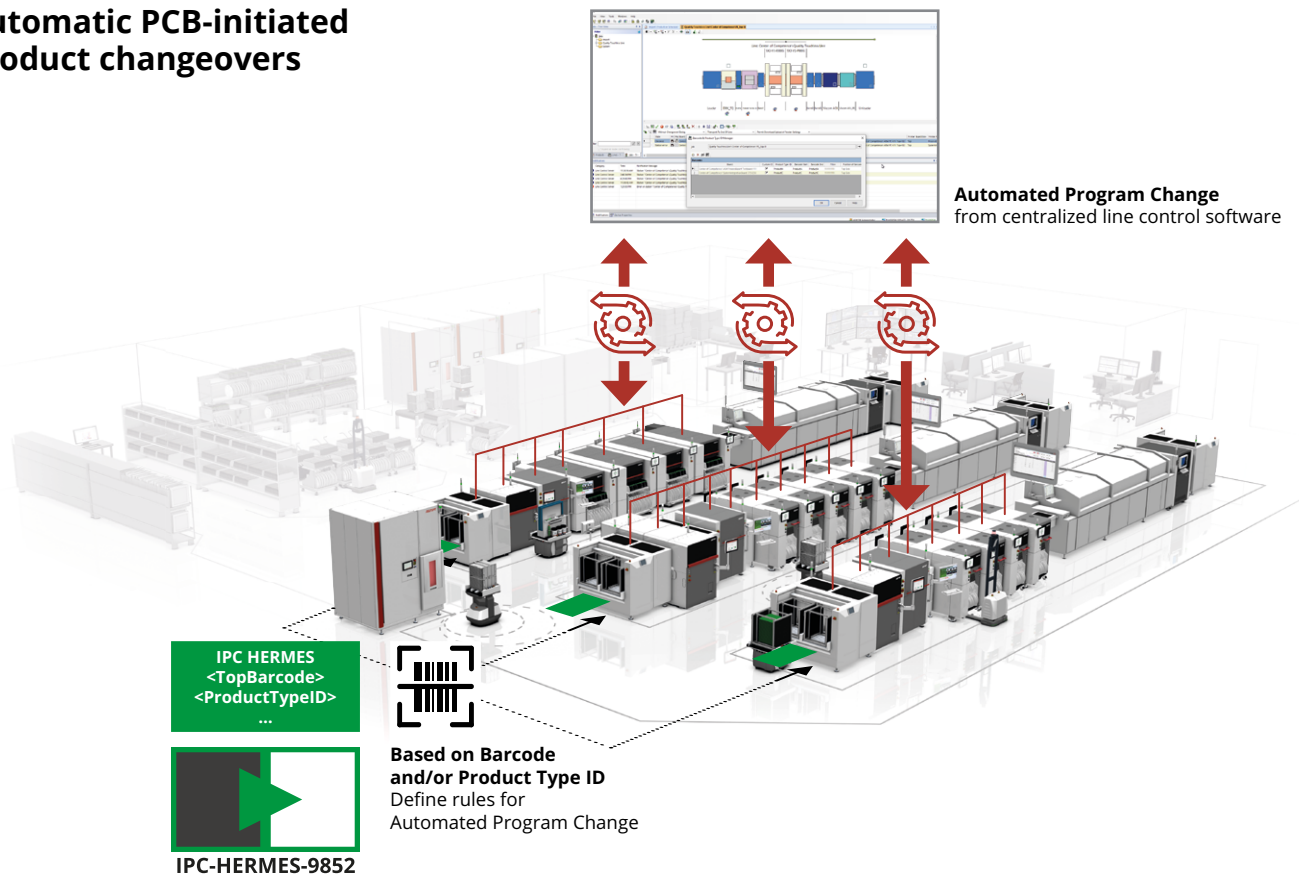
With the operator guidance function of WORKS Operations, operators are automatically assigned to changeover tasks.



Electronic data forwarding

A barcode reader is needed only on the first machine.

Automatic PCB-initiated product changeovers



Automatic Program Change: Product information is forwarded from machine to machine via the standardized IPC-HERMES-9852 interface. Each station checks whether a program change is needed and automatically downloads the new program if necessary.

Your benefits at a glance

- Automatic program changeovers
- The circuit board triggers the program changeover
- Product changeovers without production interruption
- Product changeovers without manual intervention
- Barcode reader needed on one machine only
- Cost reduction through sensible automation
- Automatic operator notifications via interface to WORKS Operations
- More throughput through faster product changeovers
- Reduced personnel costs
- Faster new product introductions (NPIs)
- Avoidance of setup errors

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