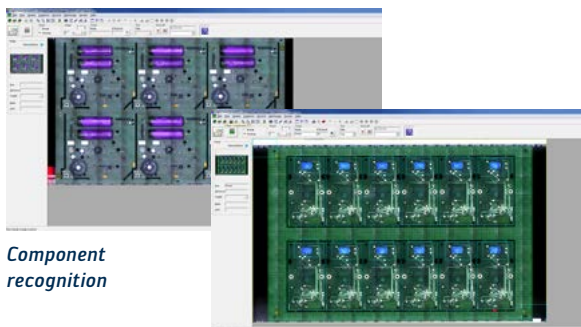
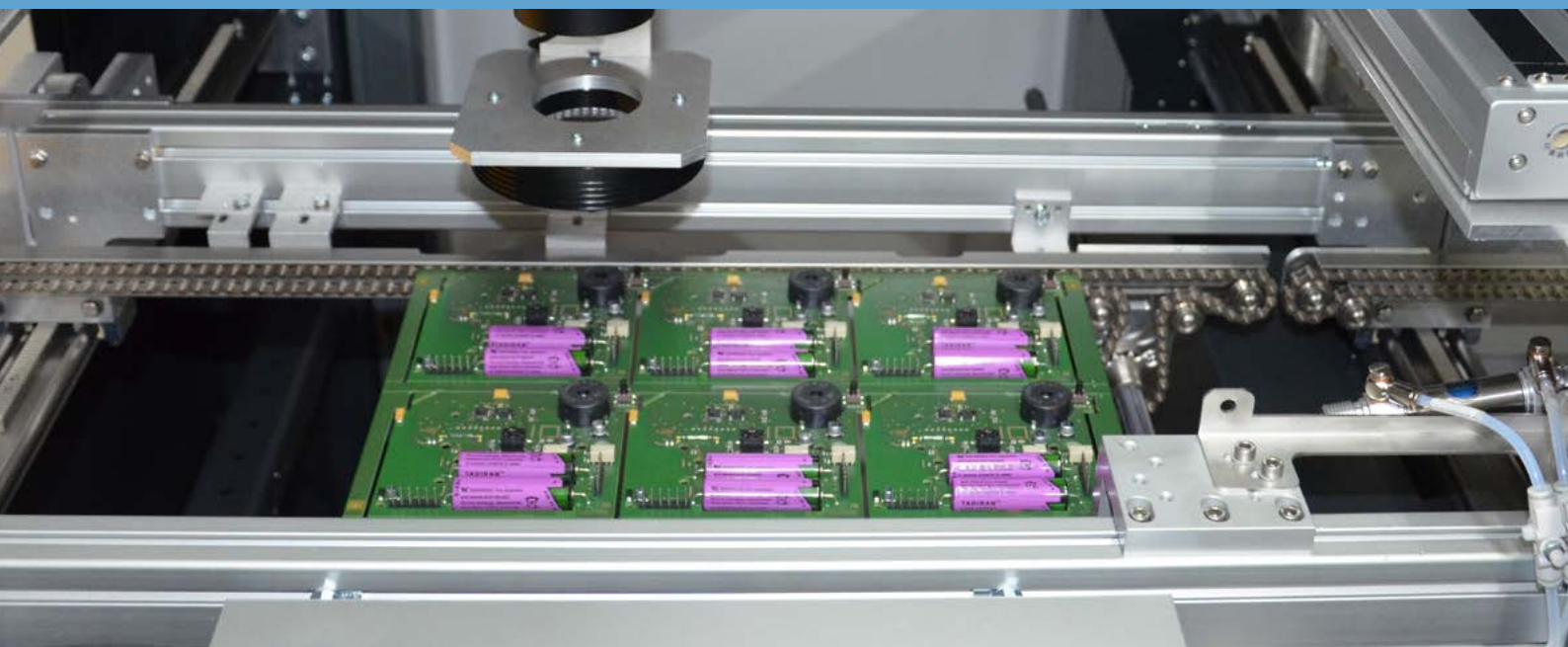


Ersa VERSASCAN & Ersa VERSAEYE Board Examination Systems



Ersa VERSASCAN

Recognizes errors before they occur



VERSASCAN Highlights:

- Separate module fastened to the machine frame
- Recognition of multicodes on PCBs and work piece carriers
- Detection of Bad Boards (9 barcodes)
- PCB direction recognition
- Detection of incompletely assembled PCBs
- Detection of components with wrong polarization
- Detection of misplaced components
- Vision and reading system can be integrated above or beneath the conveyor level

The **VERSASCAN module** consists of a stable powder-coated, welded base frame, control cabinet, cover with glass door and a width-adjustable pin and chain conveyor.

The X-Y axis system with integrated camera unit enables the recognition of up to 9 multi-codes as well as Bad Board recognition and the PCB direction. By Bad Board Detection, reject parts are detected and not further processed.

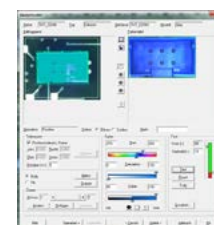
A faulty PCB is neither fluxed nor heated and soldered. This saves valuable production time and maximizes throughput. The saved flux, solder and energy lead to a reduction of unit costs.

The high-resolution camera of the component recognition takes a picture

of the PCB and compares it to a reference image. Following points are being checked:

- Completeness of the components placement on the board
- Correct placement of components
- Orientation of components

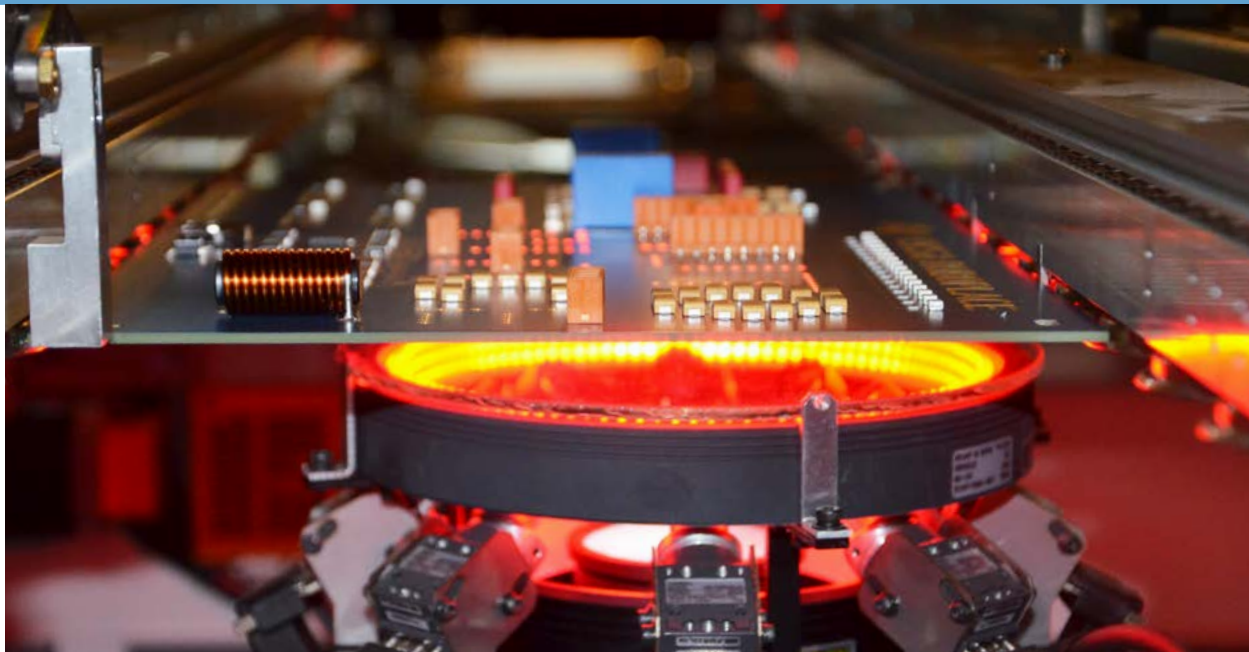
Faults like missing components or misplaced components can be corrected before soldering, which saves rework costs and reduces rejects.



Library creation

Ersa VERSAEYE

Documented solder joint quality



The **VERSAEYE module** is optimized for the inspection of THT solder joints and is, as a separate module, attached to the soldering system, directly after the last soldering module.

It can be equipped with up to nine cameras - one bottom and 8 side cameras. The VERSAEYE can move

in x-, y- and z- direction to enable an all around inspection of the solder joints in an 45° angle.

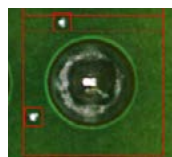
It can detect different wetting problems, solder bridges solder balls or missed out pins. The analysis of the solder joints is performed on basis of an algorithm with adjustable tolerances. Thus the VERSAEYE enables the optimal documentation of your solder joint quality on the basis of your individual quality requirements.

VERSAEYE Highlights:

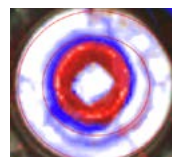
- System optimized for wave and selective soldering systems
- Compatible with work piece carriers
- Modular inspection possible: bottom, top or bottom & top
- Available with up to 9 cameras per module
- I/O interface
- Classification of inspection results at all times



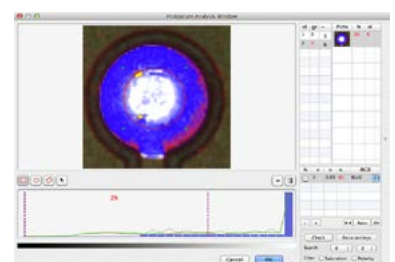
The **VERSAEYE** module with 9 cameras



Solder balls



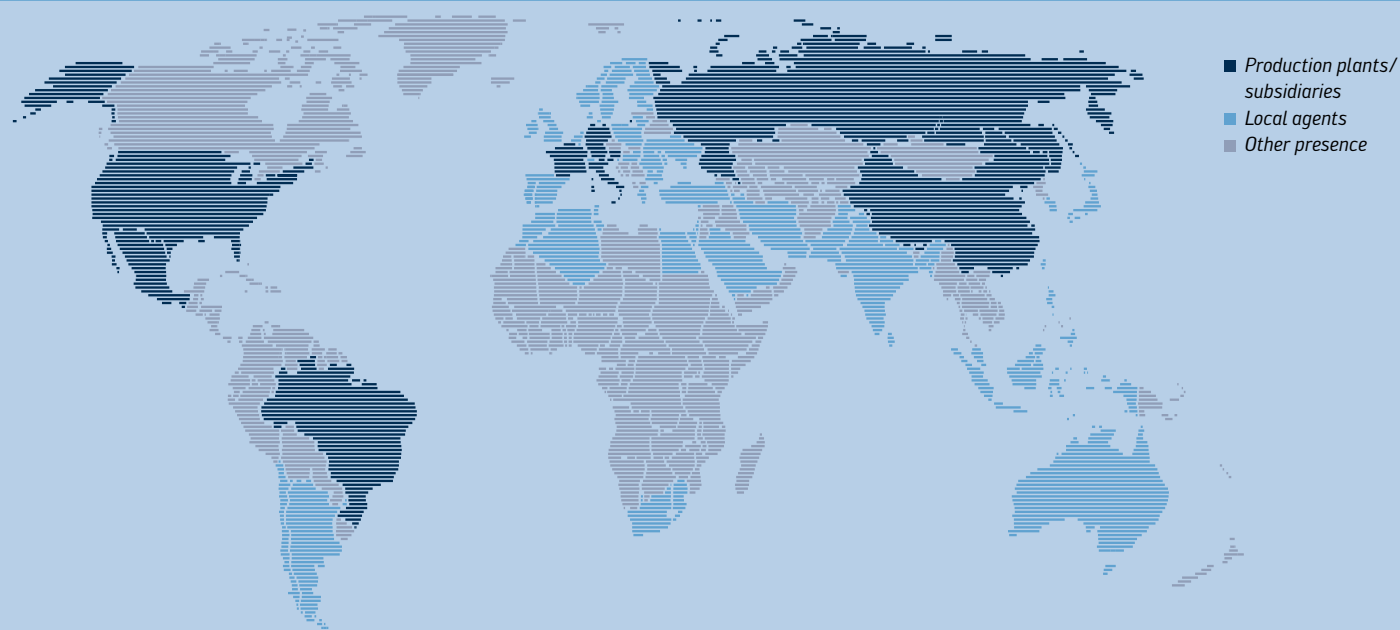
Wetting problem



Solder joint without pin

Electronics Production Equipment

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