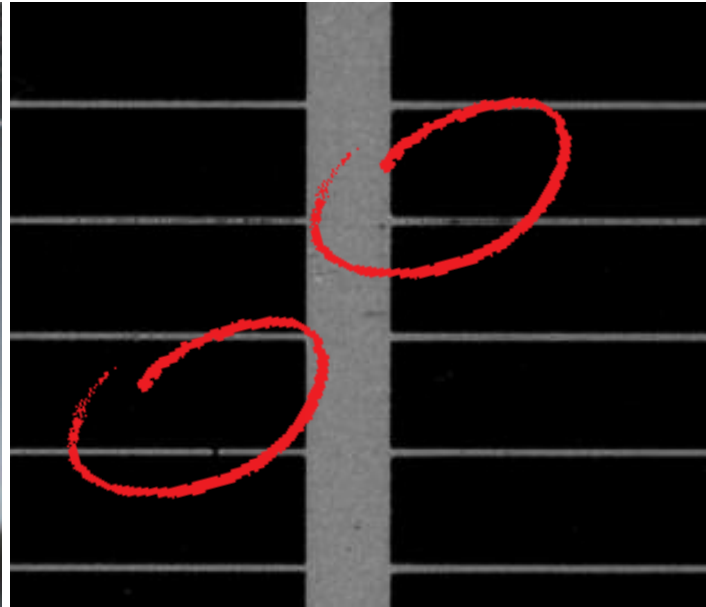


Product Info

SOLARSCAN-FrontPrint: Best print - Best yield!

Optimal print and process control of the cell front side



Ensure quality, optimize the print process: Front print in-line Inspection

High quality of the front side print of solar cells improves solderability in the next process, improves the function and ensures a good optical impression. This is, however, not automatically the case. Automatic optical inspection is necessary to achieve this goal. The solution: The standard inspection system **SOLARSCAN-FrontPrint**.

The front print significantly affects the performance capability of the cells. Shadowing and finger disruption reduce performance. The system which can be easily integrated into any production line is optimized for screen print inspection for various defects such as print offset, constriction, thickening of busbars and more. Additionally, control of damage, particle defects and geometry deviations are conducted. According to demands and use, various expansion stages are available. Aside from pure defect control and quality improvement, the system contributes significantly to process optimization. Combinable with **SOLARSCAN-AR Coating**.

Applications:

- In-line Inspection of the front side print after screen print and cell sorting for
 - Constantly high efficiency
 - Better processing
 - Quality improvement
 - Best optical impression

Advantages:

- Reduction of production costs, saving of resources
- Process performance improvement and process optimization
- Robust, reliable detection of all relevant defects
- Modular concept
- Early identification of serial defects and process deviations
- Combinable with SOLARSCAN-AR Coating



Superior detection, classification and analysis

All SOLARSCAN systems offer precision control of specific processes: Flexible configuration, easy to operate. Just a simple set-up is needed to deliver reliable classification in real-time – fast and extremely efficient. Central storage of all inspection results offers a sustainable basis for process improvements. Increased transparency and process knowledge enable shorter ramp-ups and higher productivity. Advanced technology for silicon solar quality improvement. Just discover the details – favourably in reality.

General features

- Advanced, intelligent and configurable classification
- Calibrated inspection equipment
- Central management server for recipes and results
- Flexible statistical tools for analysis and reporting
- Integrated self diagnostics
- Remote maintenance

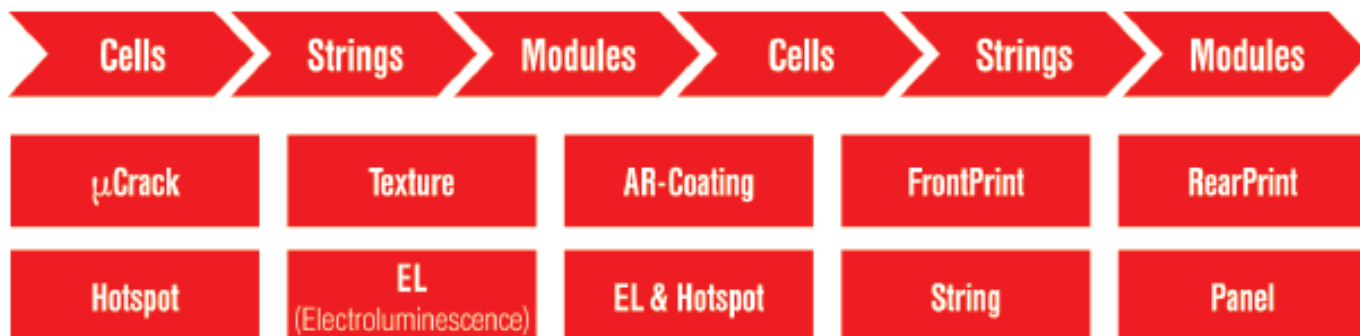
Inspection features

- Screen print front side: Constrictions, disruptions, busbar and finger thickening, alignment, asymmetry, measurements, deformations, paste marks
- Geometry measurements: Measurement, bevels
- Damage: Contour defects, visible cracks, gaps, holes
- Particles: Debris

Option

- Combinable with SOLARSCAN-AR Coating

SOLARSCAN: „Best Practice“ product line for the complete process chain



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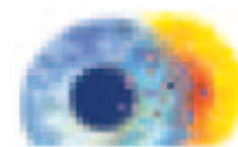
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