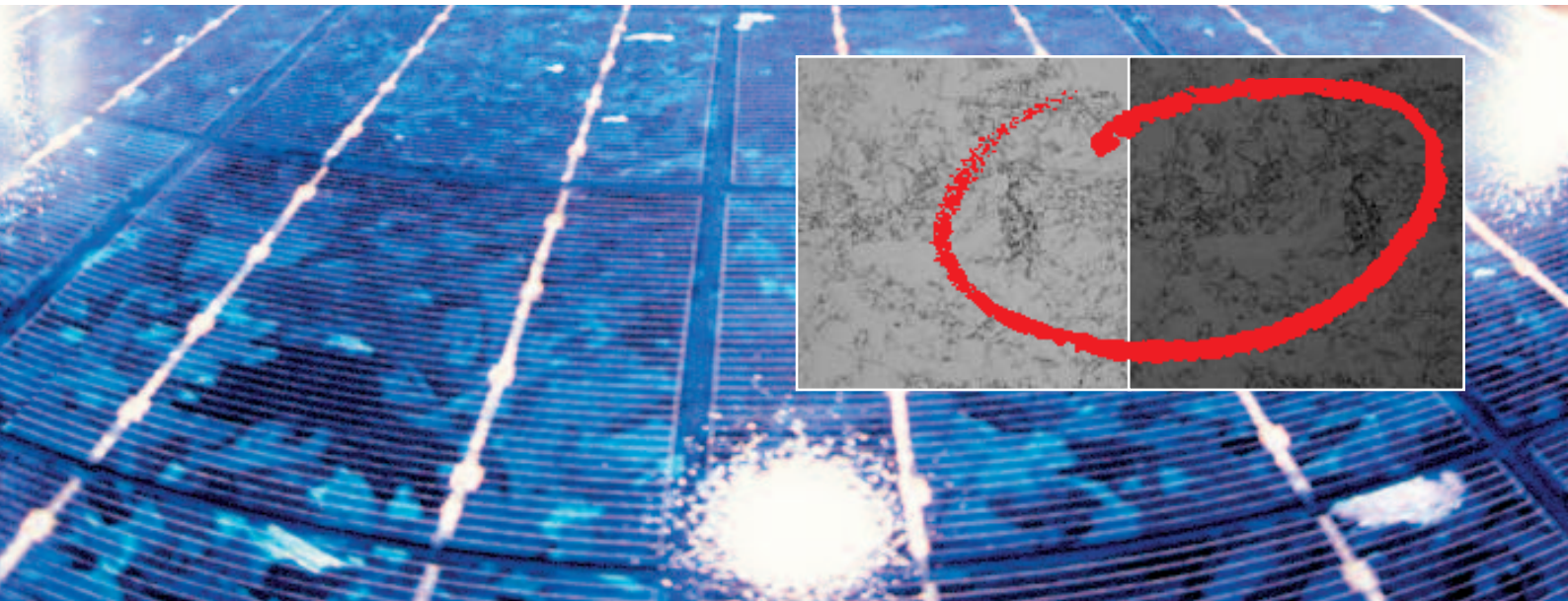


Product Info

SOLARSCAN-Texture: Let the sun shine IN!

Etching procedure OK? Optical inspection gives the answer.



**For maximum light absorption:
Total surface in-line inspection for reflection characteristics and surface texture.**

Highest production efficiency at the highest quality right in the first process phases reduces costs. When etching the texture, the efficiency of the cells is already significantly affected. For high cell efficiency, a homogeneous surface structure, as well as minimal reflection, are essential factors. The 100% inspection of these characteristics with **SOLARSCAN-Texture** is therefore indispensable.

SOLARSCAN-Texture is optimally designed for this task. The inspection system checks the wafers in-line to 100% with high spatial resolution for homogeneous surface, degree of reflection and other surface defects. Thus providing direct feedback to the etching process. Additionally, a geometry control is carried out to detect damage to wafers in the process and to eject defective wafers. The system therefore already contributes at an early phase, to process and product optimization.

Applications:

- Total surface automatic, optical in-line inspection of the cell surface after the wet bench for:
 - Degree of reflection
 - Gloss
 - Homogeneity
 - Damage
 - Surface defects

Advantages:

- Reduction of production costs
- Performance increase and process optimization
- Early detection of process fluctuations
- Robust, reliable defect detection
- Attention to dark lines
- Modular concept



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

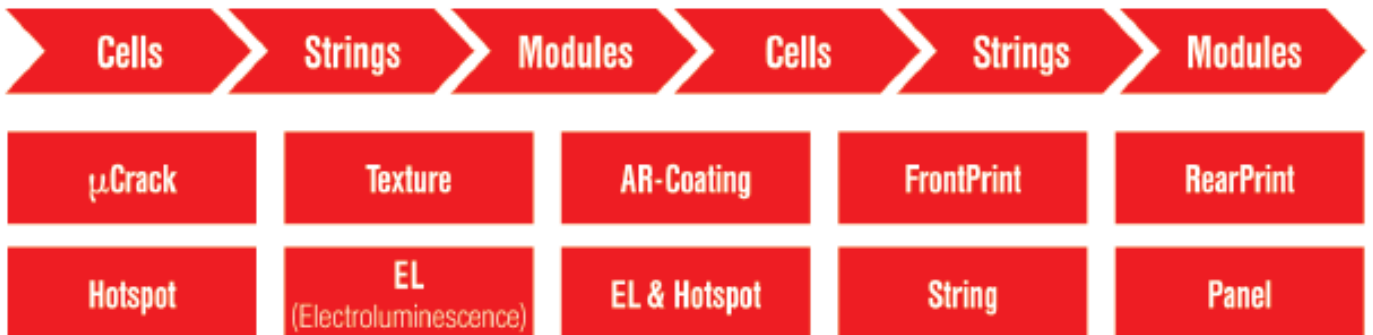
- Advanced, intelligent and configurable classification
- Calibrated inspection equipment
- Central management server for recipes and results
- Flexible statistical tools for analysis and reporting
- Integrated self diagnostics
- Remote maintenance

Inspection features

- Homogeneity of etched surfaces
- Medium degree of reflection
- Gloss
- Detection and attention to dark lines
- Detection of saw marks
- Geometry: Dimensions, bevels
- Damages: Contour defects, visible cracks, scratches, holes, debris



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



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