

Product Info

SOLARSCAN- μ Crack: Increase machine uptime! **Reduce risk of breakage**



Screen the wafers: Save resources, improve processes.

Screening the wafers in the first stages of cell production can make a key contribution to securing value along the following process steps. Essential to smooth flow is the avoidance of downtime, which can be caused by a fracture in a wafer. Structural defects such as microcracks, saw marks or breaks should therefore be detected as early as possible and defective wafers sorted out.

SOLARSCAN- μ Crack is an inspection system equipped with infrared light transmission for the detection of closed cracks. The combination of transmitted light and high resolution allows for secure detection, even the smallest μ -cracks and structure defects independent of the orientation. The advantage: defective wafers are sorted out early, risk of fracture is reduced dramatically and machine downtime minimized. An essential contribution to process optimization.

Applications:

- In-line inspection of wafers for
 - Detection of μ -cracks
 - Reduction of the breakage rate
 - Geometry measurement

Advantages:

- Reduction of production costs
- Process performance improvement and process optimization
- Minimization of machine downtime
- Early detection of defective materials
- Improved product quality
- Easy integration in production lines



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

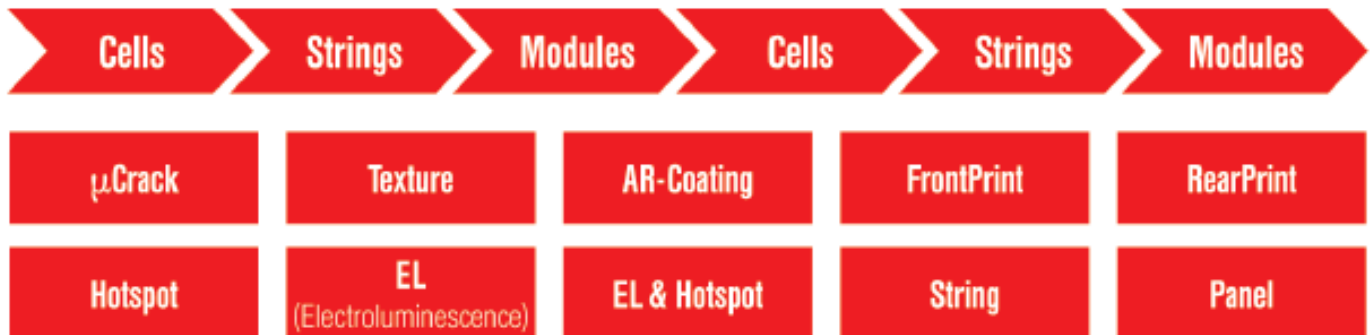
- Advanced, intelligent and configurable classification
- Calibrated inspection equipment
- Central management server for recipes and results
- Flexible statistical tools for analysis and reporting
- Integrated self diagnostics
- Remote maintenance

Inspection features

- Small structural defects such as: μ -cracks, saw marks, breaks
- Geometry measurements: Measurement, bevels



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



ISRA VISION

Germany
Tel.: +49 (2366) 9300-0
Fax: +49 (2366) 9300-230

Germany
Tel.: +49 (30) 4210 4700
Fax: +49 (30) 4210 4750

UK
Tel.: +44 (1322) 520410
Fax: +44 (1322) 559419

Turkey
Tel.: +90 (216) 688 1015
Fax: +90 (216) 688 1016

Spain
Tel.: +34 (93) 589 71 79
Fax: +34 (93) 589 71 79

Italy
Tel.: +39 (0464) 490 603
Fax: +39 (0464) 498 875

France
Tel.: +33 (4) 7211 4067
Fax: +33 (4) 7211 4068

Belgium
Tel.: +32 (2) 6523-866
Fax: +32 (2) 6523-728

Ireland
Tel.: +353 (61) 748411
Fax: +353 (61) 748411

USA
Tel.: +1 (770) 449-7776
Fax: +1 (770) 449-0399

Brazil
Tel.: +55 (11) 3476-1132
Fax: +55 (11) 3476-1132

P.R. China
Tel.: +86 (21) 6891 6286-0
Fax: +86 (21) 6891 6286-888

Korea
Tel.: +82 (2) 790-1326
Fax: +82 (2) 790-1329

India
Tel.: +91 (95) 82 289 877
Fax: +49 (2366) 9300 230

Japan
Tel.: +81 (3) 3253-5771
Fax: +81 (3) 3253-5772

Taiwan (R.O.C.)
Tel.: +886 (3) 2500-148
Fax: +886 (3) 2500-149

www.isravision.com

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