## **Crystalline Solar Wafers**





### **Detection of the Smallest Cracks with NANO-D**

Higher Productivity and Line Uptime by Reliable Sort-Out of Instable Wafers



### **Requirements & Targets**

## Save resources and improve yield with micro crack detection

- Reduce production costs with better use of consumables and process only good wafers
- Increase production yield by reducing breakage during processing

#### **Inspection Solution**

#### NANO-D

- Optimized imaging technology for micro crack detection
- Easy integration into any state-of-the-art wafer handling system
- Scan speed up to 1.500 mm/s smart design for high performance and fast ROI

#### **System Application**

#### **Reliable crack detection**

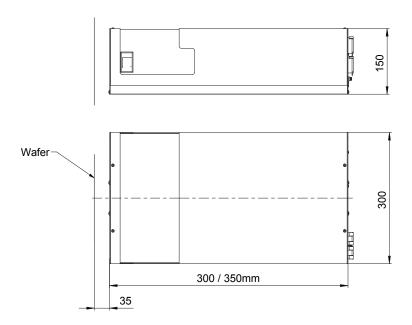
- Detection of micro cracks in incoming inspection and all following processes
- Robust and reliable detection and sorting of defective wafers as early as possible in the process

#### **Benefits for Production**

# Benefit from the key to cost saving and improved quality

- Reduce production costs by saving resources use material and machines to process only wafers that do not break
- Less breakage in the line reduces downtime and increases production throughput
- Reclaim breakage improve manufacturing and wafer handling process for wafer suppliers
- Early detection of cracks in wafer to reduce costs in solar cell production

Inspection Features	
Micro crack detection	Number, size, and position of micro cracks
Other defects	Contour defects, bulk material inhomogeneities



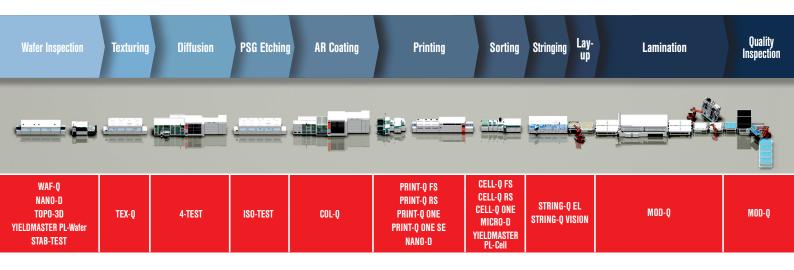








Optimized imaging technology ensures reliable crack detection.



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