

Implement Edge AI & integrate data from all inspection tools for accelerated root cause analysis



Defect Management & Edge AI

Defect Management System

A system to visualize and analyze inline defect data from all inspection & measurement systems

Our end-to-end analytics platform is the first to implement product traceability to enable tracing quality failures to inline defects.

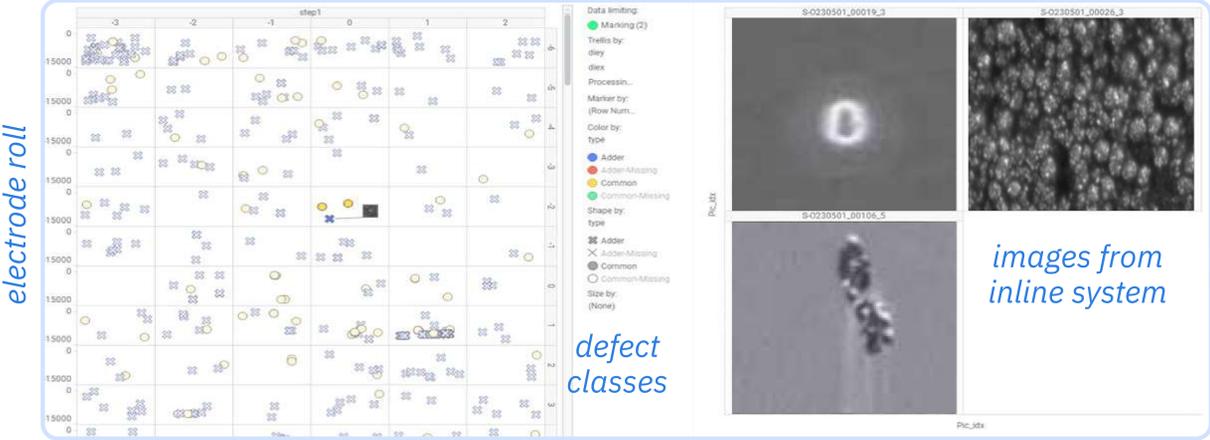
Solutions Highlights

- Troubleshooting of low yields
- End-to-end yield and defect management
- Integration of all inline systems - system agnostic
- Defect binning and classification automation

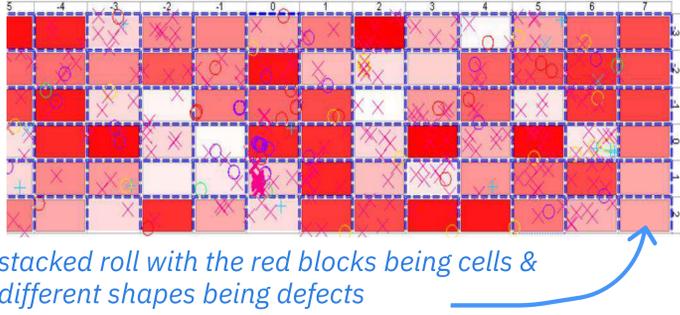
Components

1 Defect Map & Analysis

Defect data storage and analysis with mapping capability and alignment with other data types.

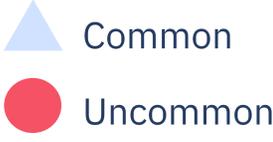


Includes visualization by lot, cell, stacked roll, or single electrode roll



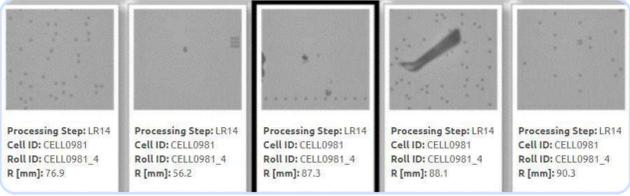
2 Defect Map Classification

Classification of defects to group similar defects by type for Kill Rate and Capture Rate summaries



3 Defect Map Gallery

Gallery of inspection and review images linked to inspection site



4 Online Integration With Client MES

Define Statistical Process Control (SPC) and Out-of-Control Action Plans (OCAP) and send alarms to the MES

Combine inspection tool information all in one platform



Workflow/Application Examples

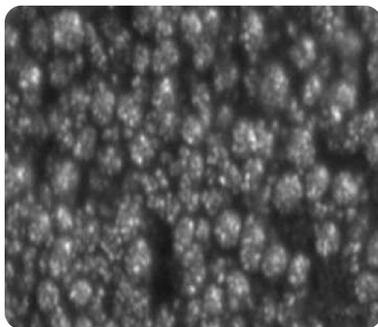
- Manual reclassification of defects
- Defect traceability for yield diagnostics
- Defect source analysis
- Equipment / Recipe Matching
- Design-aware defect management

Edge AI

Quasi real time deep learning model for instance segmentation, allowing you to classify and measure defects during production.

Enhance your inline vision systems through the power of AI.

How it works



grains pores additives

Image 1 - Lot 5

Parameter	Value
process date	2022-02-12
magnification	1000
lot grain mean	250
grain D10	3.211
grain D50	15.561
grain D90	200.07
major axis D10	1.067
major axis D50	2.533

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