Edge-enabled optical inspections

Manufacturers are streamlining quality processes by replacing sampling with continuous optical inspections powered by edge computing—helping ensure immediate action on quality issues and minimising rework, scrap and defective products.



How optical inspection works

High-speed 3D cameras continuously take images of in-process inventory (e.g., units on a conveyor)

Images are sent to edge servers for parametrisation and AI/ML analysis to identify quality defects fast

Results of analysis are displayed on site, where an operator can take action to remove defective products or stop the production line

Quality data is periodically transmitted to the public cloud for model training and improvement

Potential benefits

Increasing throughput based on reduced cycle time by



Reducing process rework by an estimated



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¹McKinsey manufacturing expert interviews, January 2022

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