

A global FMCG company automated quality inspections for biscuits after oven at 12,000+ biscuits per minute and achieved 99.9% accuracy



Challenge

A global FMCG company, renowned for its biscuit products worldwide, faces challenges that include manual defect detection for biscuits, with high production rates of 12,000+ biscuits per minute, leading to worker fatigue and unreliable defect detection rates, posing consumer risks.

Approach

Leveraged our software with Deep Learning AI for quality inspection on biscuit surfaces post-baking. Installed an in-process inspection setup with 3 cameras across the conveyor, tracking biscuit locations for precise ejection of faulty products.

Objectives

Enhance defect detection accuracy, reduce manual labor fatigue, establish reliable inspection processes, and mitigate consumer risks by implementing automated quality control solutions.

Solution

Implemented scalable quality inspection solution with our software and Deep Learning AI, adaptable to various biscuit SKUs and process variations. Deployed across 50 production lines in India, ensuring consistent and reliable defect detection while streamlining production processes.

Utilized our AI/ML engine to analyze 400+ images per camera per minute, integrated with automatic rejection systems for swift removal of defective biscuits.

Key Results

0.01% False Positives
Resulting in near to nil wastage

\$25K Cost savings
per year from distributor returns avoidance

About Straive

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