



markem·imaje

a **DOVER** company



Software

Vision Solution: Verification and Inspection

Check. Verify. Inspect.

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In today's fast-paced packaging environment, labeling messages play a critical role in ensuring product integrity, compliance, and brand recognition. However, many packaging operations still rely on manual and time-consuming processes for label design, printing, and application. This can lead to a range of challenges, including:

- Non-compliance with regulations and industry standards due to inadequate inspection
- Manual verification and inspection processes are time-consuming and prone to error
- Human error and inconsistency compromise product quality and customer satisfaction
- Difficulty in detecting defects and anomalies
- Inefficient use of resources and increased labor costs
- Limited visibility and control over production lines

It's time to transform your verification and inspection process.

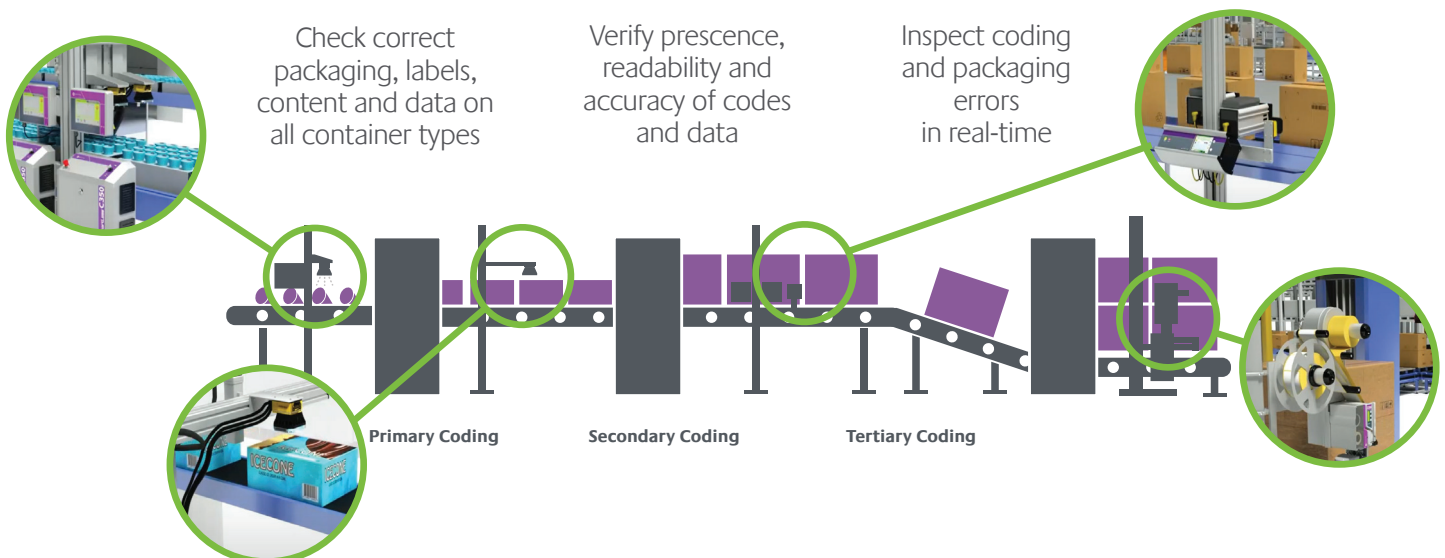


Vision Solution: Verification and Inspection

Our advanced verification and inspection solution is designed to check presence/absence of code, verify codes (1D/2D, Skewed image/code) on flat, curvy/uneven and reflective surface and transform your packaging operations by providing:

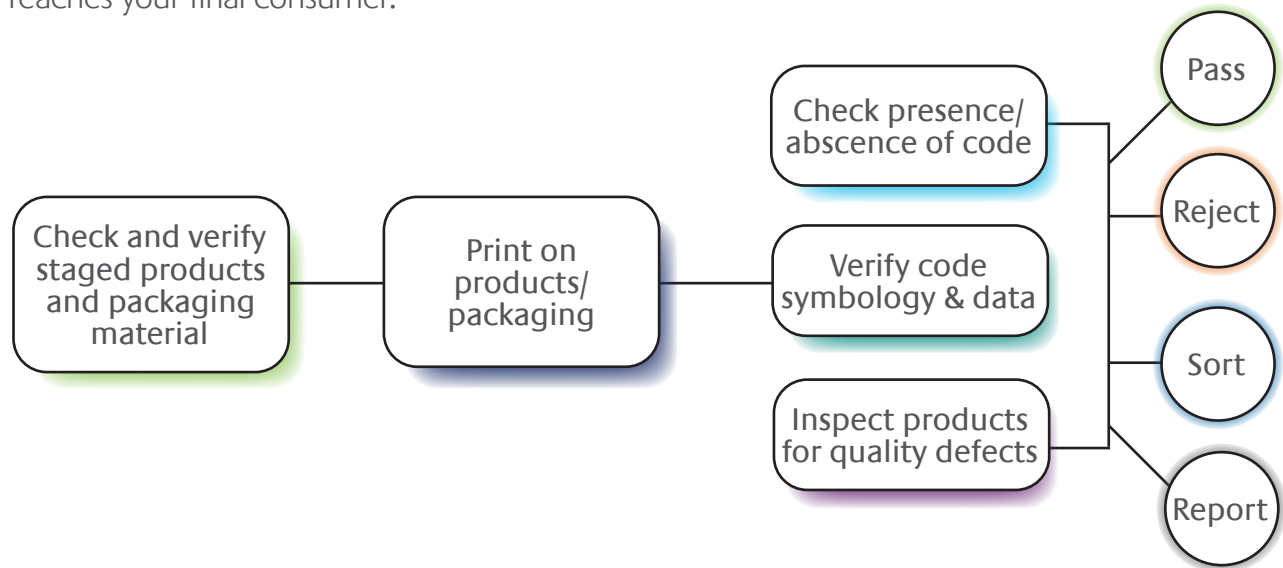
- High-speed and accurate code inspections
- Real-time defect detection and notification
- Improved product quality and reduced rework
- Enhanced compliance with regulations and industry standards
- Increased efficiency and reduced labor costs

Ensure packaging quality and accurate codes

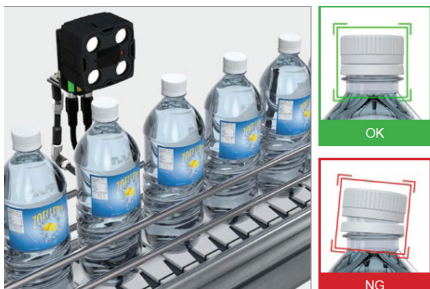


Here's how we make it happen

Markem-Imaje is committed to helping you achieve the best quality codes for your specific application. We provide customized sample print test support that considers your code, content, line speed and substrate to ensure your product is secured—from the moment it is coded until it reaches your final consumer.



Product Inspection



- Check correctness of the staged products in the pre-packaging stage
- Check and inspect the orientation of the staged products such as seal, cap seating, gaps, kitted/set products and presence/absence of components.
- Identify products based on colors, flavors, size, weight, shape and defects/damage.
- Inspect misaligned, damaged and displaced labels on products
- Generate product quality, quality matrix reports etc.

Coding Integrity



- Check the presence/absence of the messages and barcode
- Verify barcode against a database or ERP and check print quality.
- Grade the barcode with respect to quality, shape, contrast etc.
- Reject products with smudged, blur, unclear or wrongly printed codes
- Check and verify the type/s of barcode printed - Read and verify 1D/2D codes and text in multiple lines simultaneously
- Read codes and messages on variable backgrounds, curved, bright, low-contrast, reflective, uneven, metallic surfaces.

Packaging Integrity



- Check and inspect the packaging material for correctness
- Check and verify packaging quality, damage, compliance and match with the product on the production line via data from ERP/database
- Verify completeness by count before packaging

Business Impact

Why choose us?

- Centralize message designing to ensure regulatory and branding requirements throughout the enterprise and avoid hefty non-compliance fines
- Minimize waste, avoid recycle and costly recall due to human errors
- Ensure accurate message deployment while reducing burden on operators
- Ensure that the reviewers check and approve as per layout specifications
- Eliminate data duplication by the data stored in **CoLOS**® database
- Automate data delivery, start-ups and changeovers quickly
- Faster setup of the production line with a single operation
- Minimize operator data-entry errors by using touch enabled operator panels and handheld scanners
- Increase packaging line run time with minimum human intervention
- Single source for Hardware, Software, Supplies and Services

Solution Services

Our team will identify which solution, or combination, best suits your needs and oversees all aspects of solution implementation, freeing you up to focus on other priorities. Project management by the Solution Services team ensures seamless and economical implementation of Packaging Intelligence solutions.

Discover	Deliver	Support
We provide workshops or site surveys to help define your requirements for successful projects	We deliver complete turn-key project delivery services. Taking full responsibility for printing technology, vision, software and integration solutions	We offer a competitive range of support contracts for software, device (printer and cameras) and services



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