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ID and Inspection from Can to Carton

Live Q&A following the presentation.

Presented by:

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Track, Trace & Control Solutions

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Mike Dietzel

Microscan Solutions Engineer, Packaging

Solutions Engineer on Microscan's Packaging team, Michael has over 15 years experience developing solutions for packaging industries ranging from single laser barcode readers to multi-camera machine vision installations requiring unique lighting solutions.

To ask a question during the following presentation, please use the Questions window on the right side of your screen. Questions will be queued and answered after the presentation.

Packaging Operations are Becoming More Automated…

Barcode & Machine Vision in Food & Beverage Packaging

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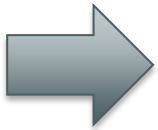
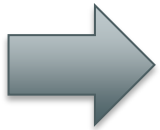
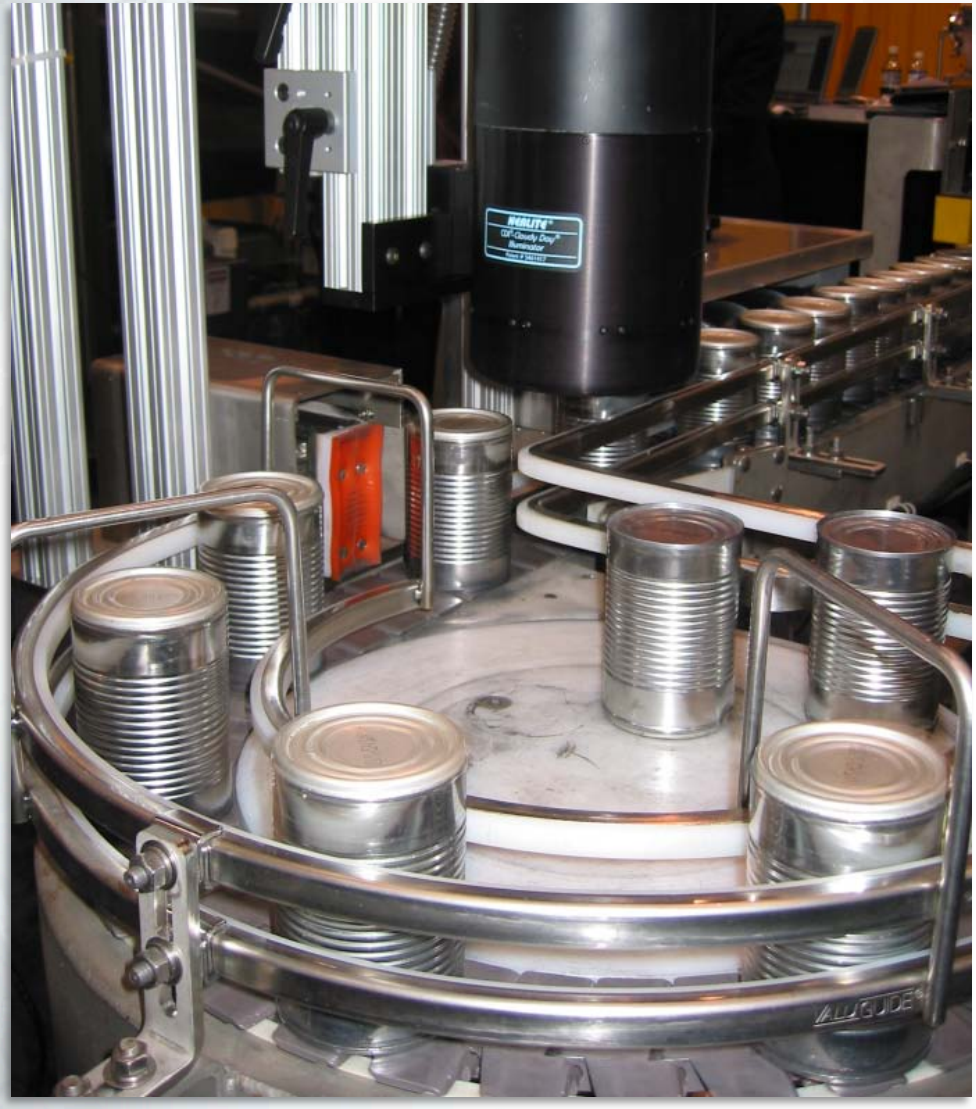
Common Uses:

- Identify Products
  - Barcodes & Human Readable Text
- Verify Label and Print Accuracy
  - Label Presence and Skew, Print Legibility
- Inspect Package Integrity
  - Cosmetic & Safety Concerns
- Track & Trace
  - Achieve Visibility, Limit Liability, Regulatory Compliance





VERIFY PRINT LEGIBILITY



Application Example: Can Print Verification

- Detection of randomly oriented alphanumeric ink jet mark
- Optical Character Verification (OCV) for ID verification
- Use machine vision system with appropriate lighting

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Ink Jet Data Matrix & OCR inspection at 500 ppm

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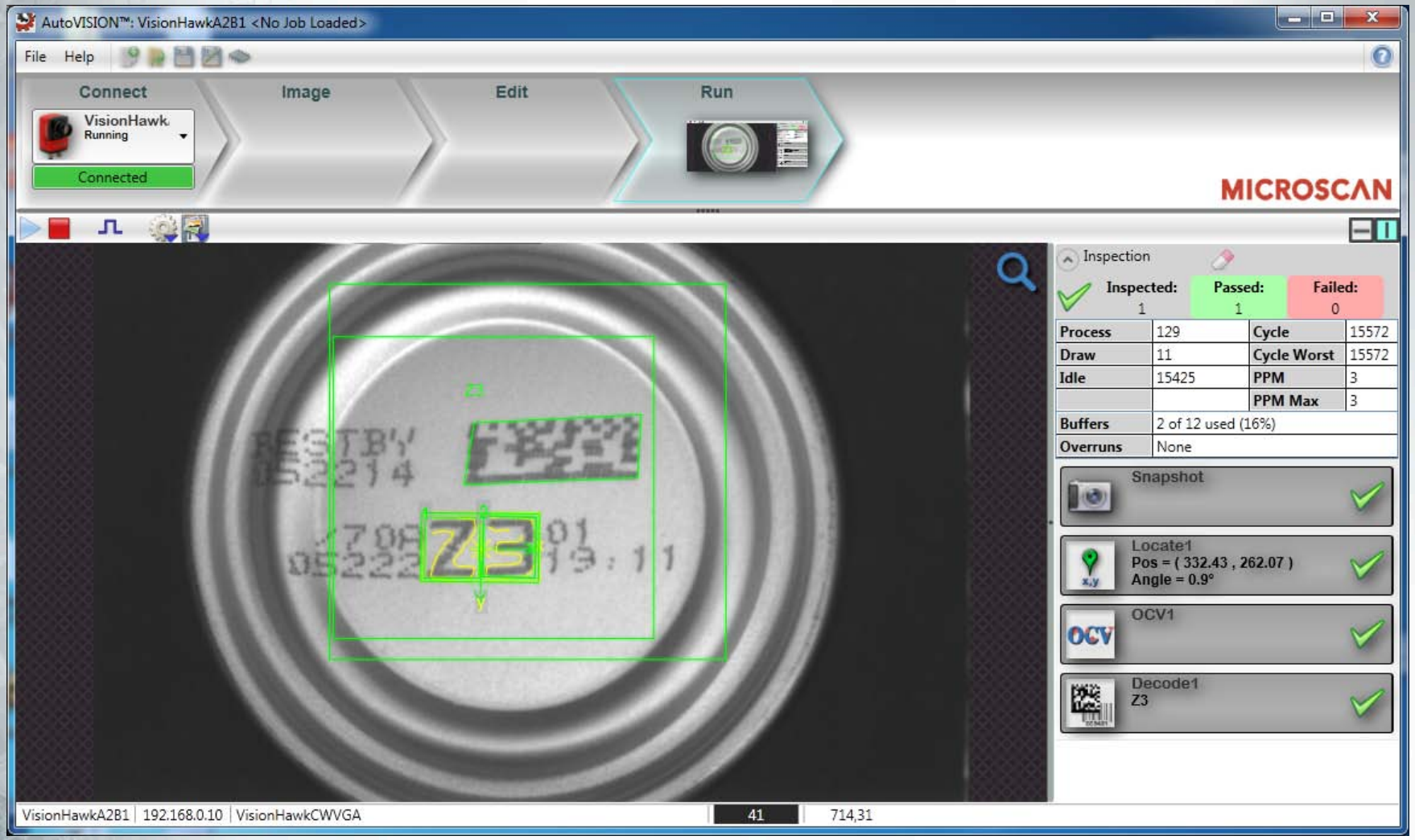
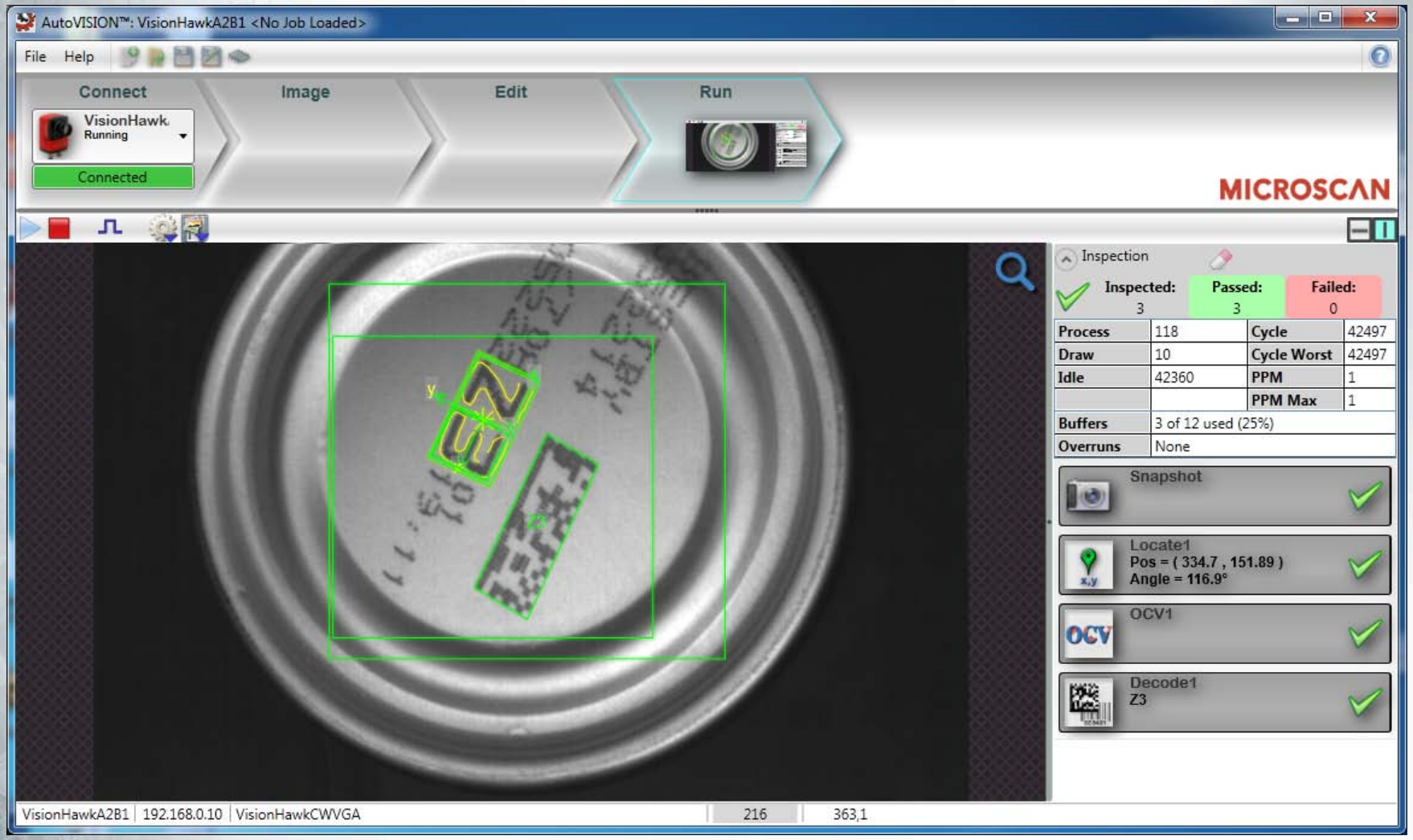
Closer look at Can Print Verification



Closer look at Can Print Verification



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Closer look at Can Print Verification

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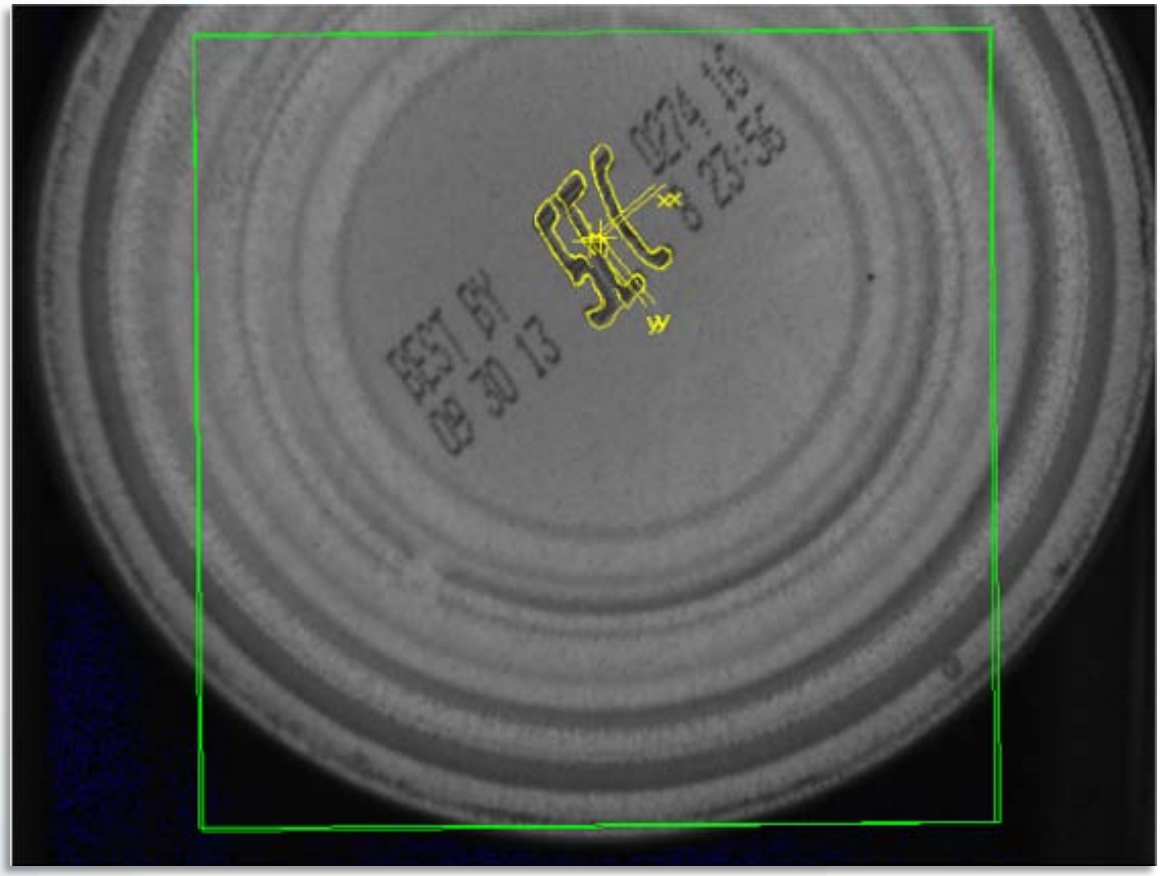
Bright Stock goes to Warehouse

PRODUCT IDENTIFICATION



VERIFY PACKAGE INTEGRITY

Application Example: Can Dents

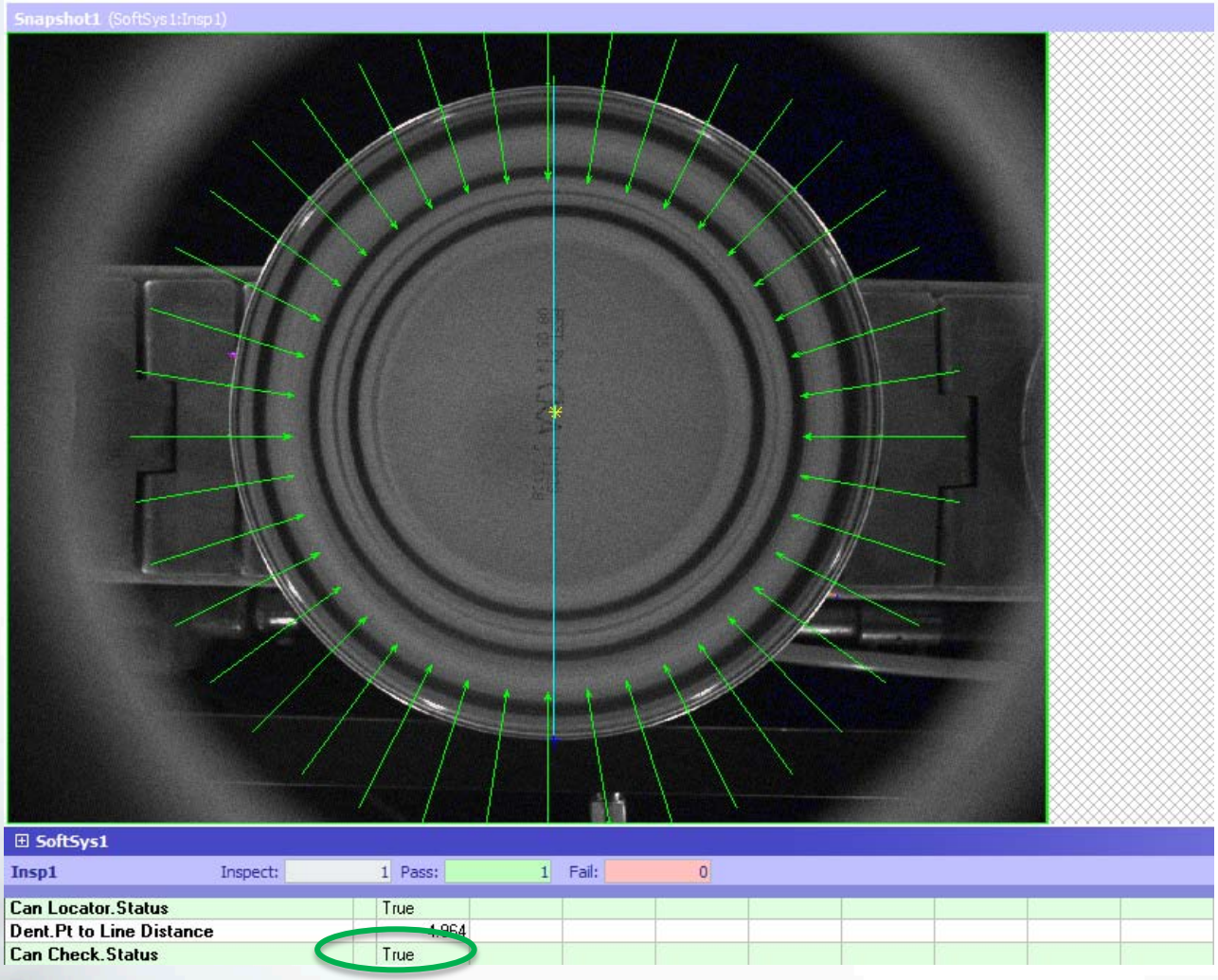
- Detection of dents on surface of can
- Use machine vision system with appropriate lighting
- Combination of vision algorithms to solve the application

Is the Can Good?

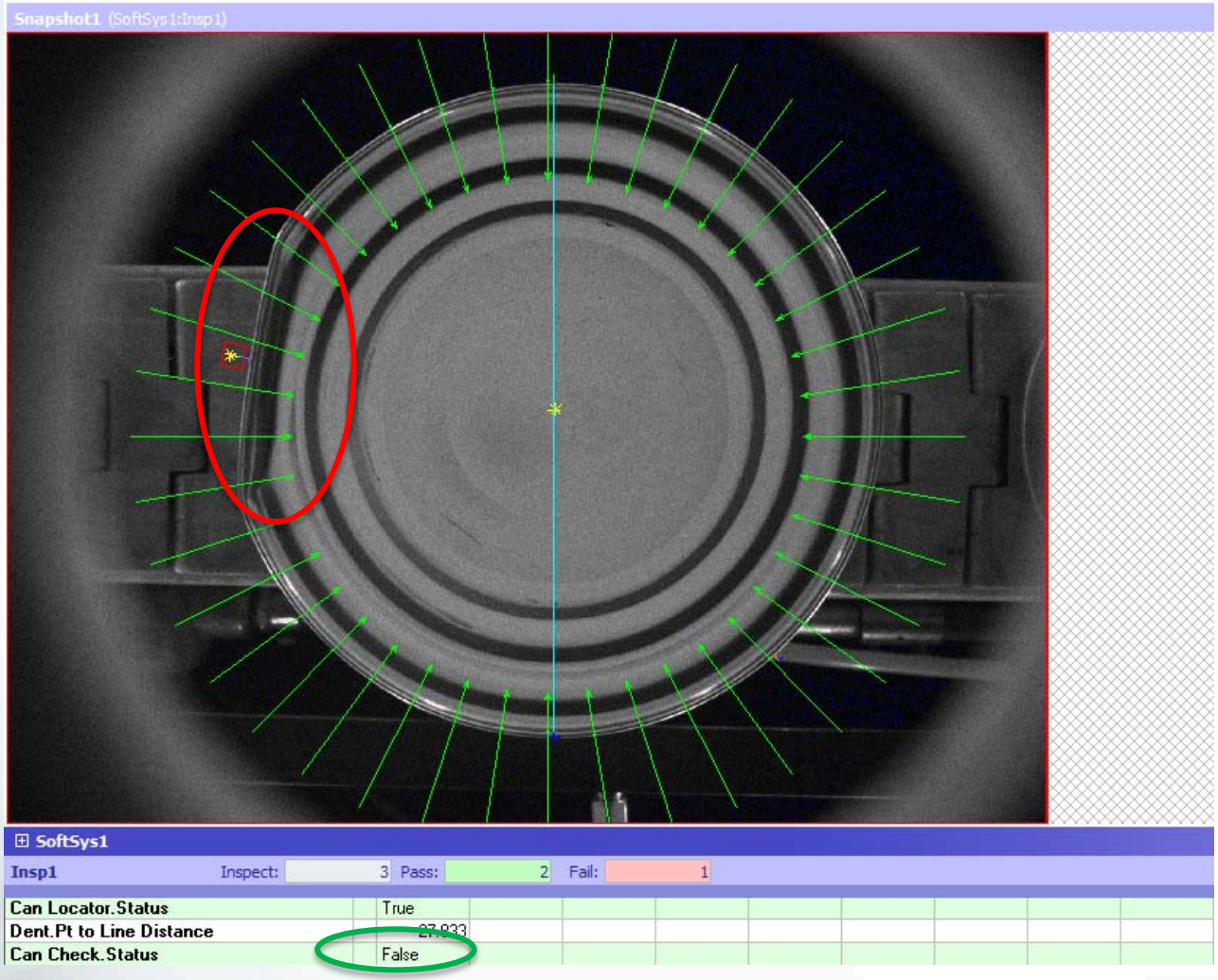
Pass

Fail

Closer Look at Can Dent Inspection



Closer Look at Can Dent Inspection



Closer Look at Can Dent Inspection

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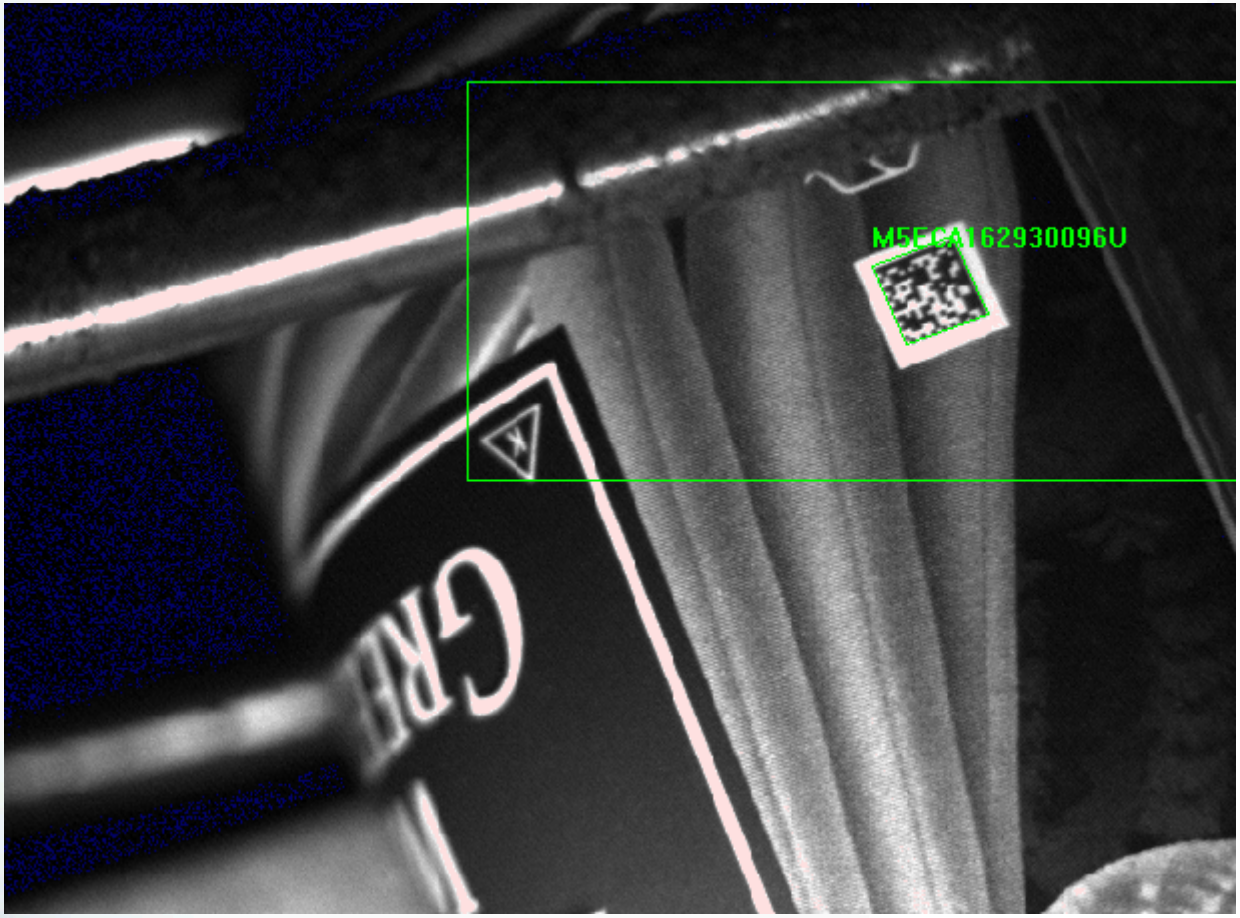
MATCH LABELS TO CONTENTS

Application Example: Match Labels to Contents

- Read Data Matrix Code on Label to Ensure Labeling Accuracy
- Data Matrix Use Growing Due to High Data Density and Small Size of Codes
- Decoded with Imaging Technology

Confirm Label is Correct



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PRODUCT TRACKING

Barcode Reading at Caser

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Barcode Reading of Pallet

Track & Trace Customer Value

Enhanced Productivity through Data

We help customers reduce costs, monitor quality, and increase production flow. Our solutions enable real time data control and process automation for thousands of manufacturers around the world in a large range of applications.

Track

"Where is it now?"

Trace

"Where has it been?"

Control

"Where should it go?"

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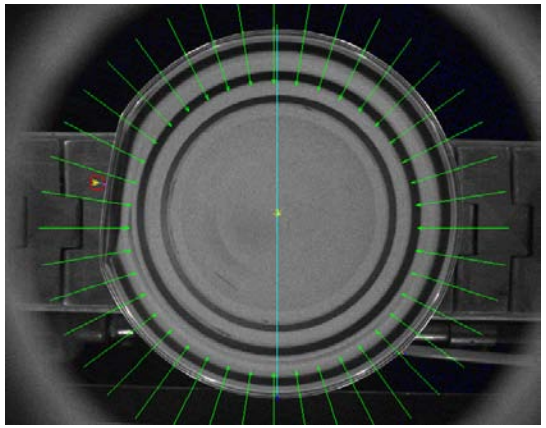
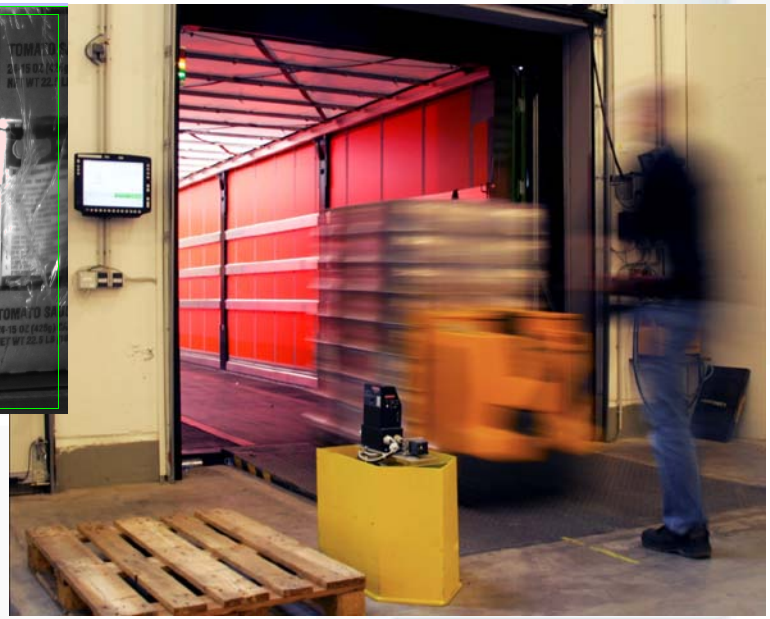
Solutions for the Green Bean Packaging Line





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Benefits to Each Can of Beans:

- Accurately Labeled
- Cosmetic and Structural Integrity of Packaging Verified
- Traceable Throughout the Supply Chain

Benefits to the Manufacturer:

- Compliance with Industry and Government Regulations
- Improved Inventory Management
- Reduced Number of Customer Rejections
- Limited Liability in the Case of Product Recalls
- Cost Savings

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Thank You

- If you have questions regarding this presentation or topic, please send an e-mail to info@microscan.com.

- For further information about barcode, machine vision or lighting products, visit our website at www.microscan.com.