



Industrial Vision Systems

• Innovation • Knowledge • Success •

VISION INSPECTION SOLUTION FOR CROWN INSPECTION SYSTEM



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CROWN INSPECTION SYSTEM

CROWN INSPECTION SYSTEM developed by the TIVS is a comprehensive inspection solution for BELOW MENTION APPLICATION. The Inspection system is compact in design and can be easily integrated into existing production lines.

Highlights of the system

- ✓ Designed to work in the industrial environment.
- ✓ Can be easily integrated into the existing machinery.
- ✓ Easy menu based programming. Doesn't require knowledge of programming languages like C or C++
- ✓ Faster System Integration leading to Faster ROI.
- ✓ Optional data Capturing system to store and report shift wise data.

Standard Solution Offering

The solution offering are strategically designed to suit the industry needs.

The system comprises of the following stations:

- a) Multiple Camera High Resolution based Inspection System.
- b) High speed Vision Capturing & processing System.
- c) High speed Strobe controlled Lighting system.
- d) LCD monitor for process monitoring.
- e) Programming console or mouse for programming the Vision System.
- f) High speed rejection system.
- g) PLC based control Station.
- h) Complete mounting accessories.
- i) Inspection station for inspection of various defects.
- j) Pneumatic Rejection Station for rejecting the defective samples.

Optional:

Data collection terminal to capture and store shift wise statistical information. The standard reporting features include:

- a. Total Components inspected
- b. Total Components rejected
- c. Rejected components tabulated fault wise.
- d. Graphs and trends to show the performance of the system.

Defect List for wad side:

INSPECTION CAPABILITY	a) Crown Presence / Absence detection. b) Print Presence / Absence detection.
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- **Foreign Particle Behind liner :**

Defect



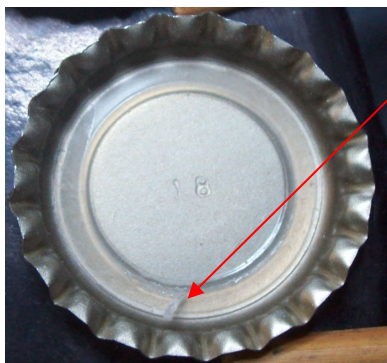
Original Image



Camera Image

- **Liner Peel off (Small thread) :**

Defect



Original Image



Camera Image

- **Liner lift off :**



Original Image

Defect



Camera Image

- **Liner Peel off :**



Original Image

Defect



Camera Image

- **Liner Lump :**



Original Image

Defect



Camera Image

- **Foreign Particle And Excess Liner:**



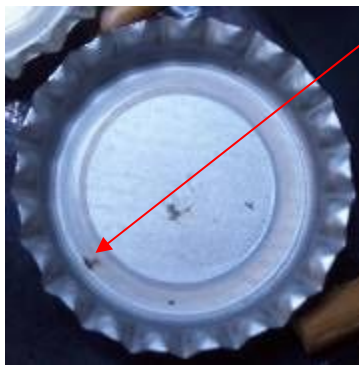
Original Image

Defect



Camera Image

- **Foreign Particles :**



Original Image

Defect



Camera Image

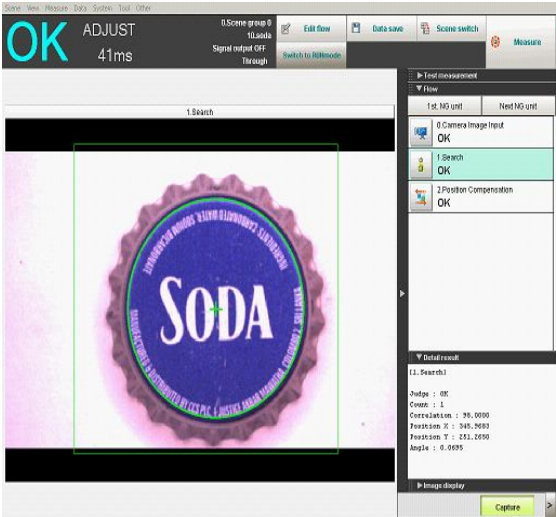
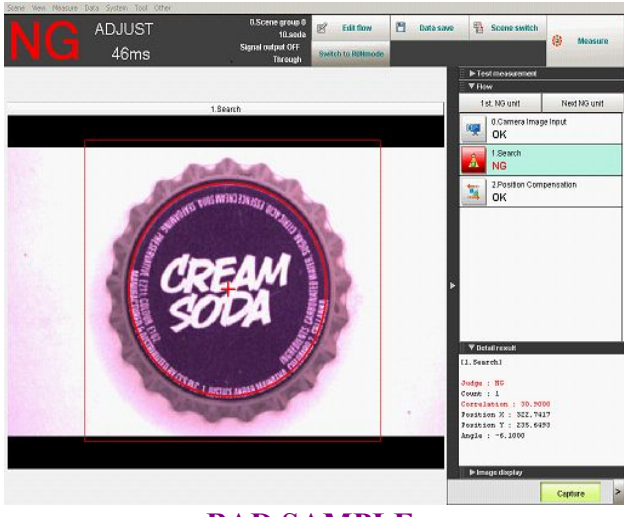
CONCLUSION:

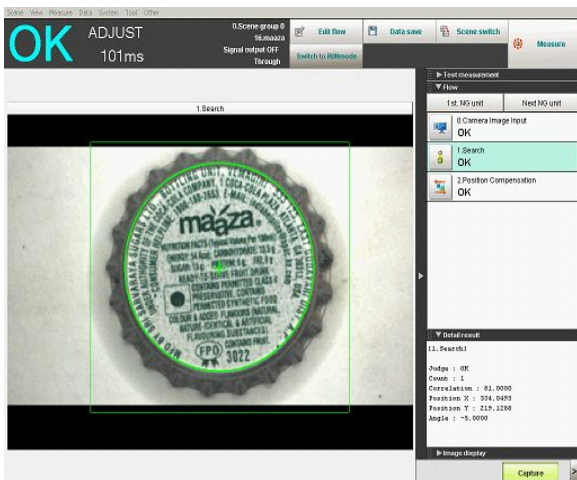
Camera System is able to check for all the defined defects as required by the client.

Defect List for print side:

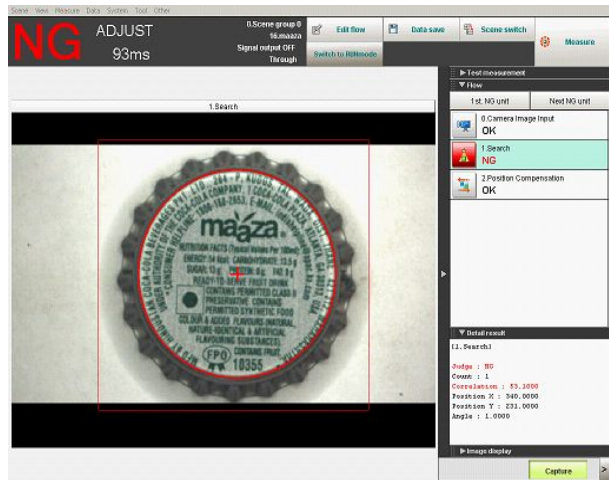
INSPECTION CAPABILITIES	Print Inspection: Letter missing Product Mixing
SYSTEM ACCURACY	100 micron
SYSTEM SPEED	2500 samples / min.
PRODUCTS TYPE	Cream Soda, SODA, Necto, maaza 3022, KingFisher Strong, Haywards 5000 Gold
CAMERA	2 High resolution Color camera with controller.
LENS	12mm Variable focal
ILLUMINATION	High intensity LED White Low angle lighting.
Basis of Inspection	On the basis of Proper print is present on the CROWN.

TABLE BELOW SHOWS THE CAMERA RESULT FOR OK AND BAD SAMPLES:

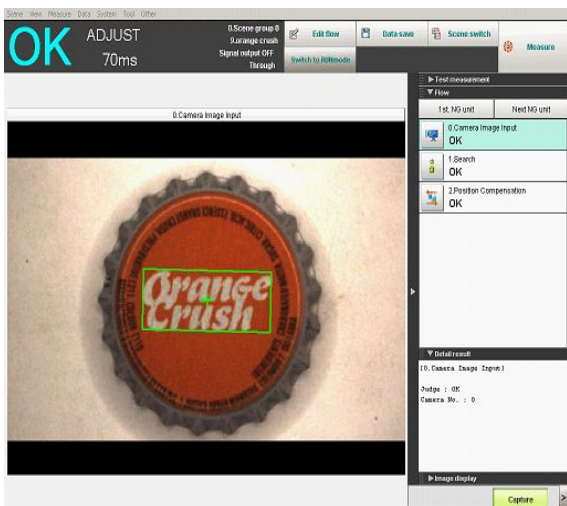
CAMERA RESULT OK SAMPLES	CAMERA RESULT NG SAMPLES
 <p style="text-align: center;">OK SAMPLE SODA CROWN</p>	 <p style="text-align: center;">BAD SAMPLE OTHER THAN SODA CROWN</p>



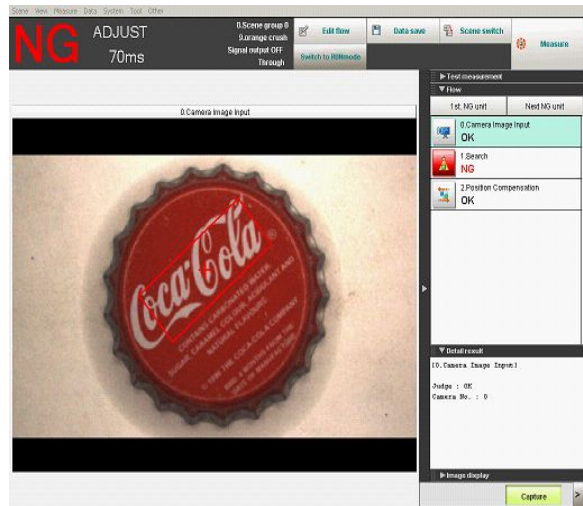
**OK SAMPLE
MAAZA 3022**



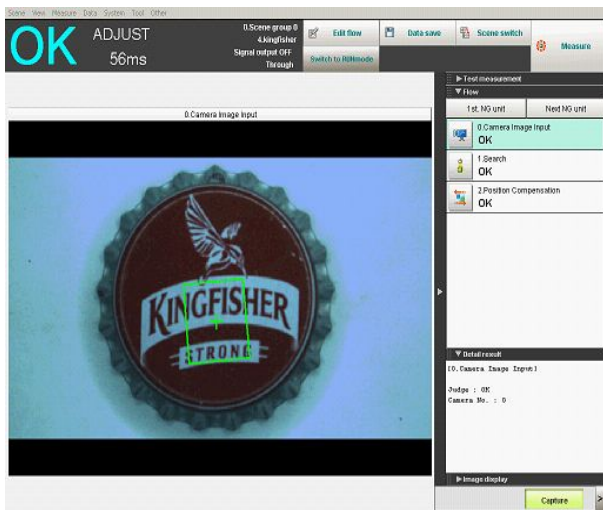
**BAD SAMPLE
MAAZA 10355**



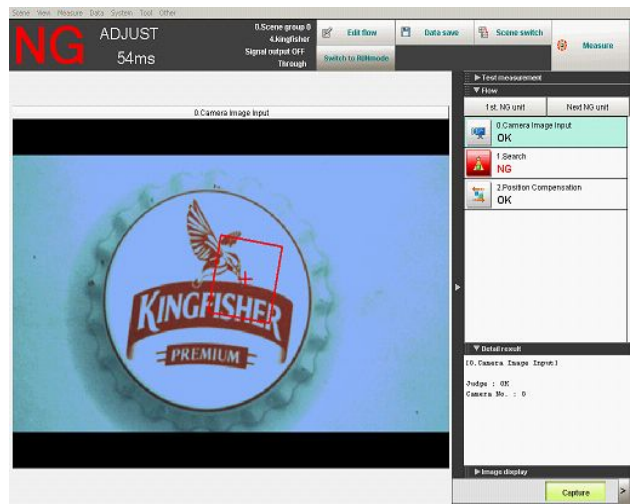
**OK SAMPLE
ORANGE CR**



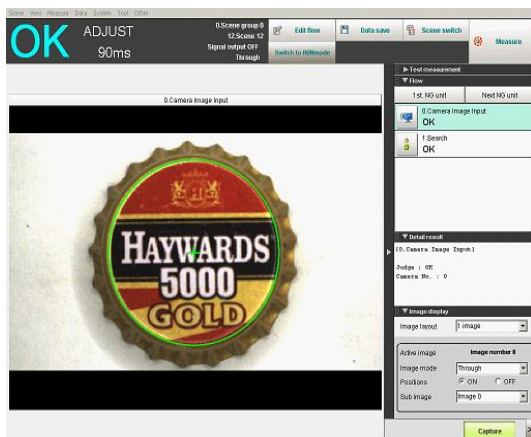
**BAD SAMPLE
OTHER THAN
ORANGE CRUSH**



**OK SAMPLE
KINGFISHER STRONG CROWN**



**BAD SAMPLE
OTHER THAN KINGFISHER STRONG
CROWN**



**OK SAMPLE
HAYWARDS 5000 GOLD**



**BAD SAMPLE
OTHER THAN HAYWARDS 5000 GOLD**

Why Us

TIVS is driven by the core values of service, integrity, and innovation. Our strength lies in our agility to adapt to a dynamic market, and our ability to transform challenges into successful market opportunities.

Our capabilities target winning results by understanding your technology needs aligned to your business objectives. Our differentiator is in servicing our clients to make them win; when you talk to us, you will understand our technologists possess significant insight into your business processes, much better than many other service providers.

We are renowned for our ability to provide products, solutions and implementation frameworks that are delivered through a strong focus on core business issues, strong process orientation and industry domain knowledge. We partner with our clients and implement solutions to successful completion, and ensure that they realize the desired business benefits.

We consistently focus on:

- * Reducing the Total Cost of Ownership (TCO) for our customers
- * Understanding customer needs before making recommendations
- * Offering solutions based on specific customer needs
- * Creating an organization based on learning, innovation, and quality
- * Enabling employees to realize their full potential
- * Conducting ourselves with the highest sense of integrity

For more information contact:

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