



## Industrial Vision Systems

• Innovation • Knowledge • Success •

### VISION INSPECTION SOLUTION FOR LUG CAP INSPECTION



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## **LUG CAP INSPECTION SYSTEMS**

**LUG CAP INSPECTION SYSTEMS** developed by the TIVS is a comprehensive inspection solution for detection for the dimension measurement of the Lug Cap samples. The Inspection system is compact in design and can be easily integrated into existing production lines. The system is programmed to identify common faults emanating from the production and automatically reject the defective components.

### **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:

- Single / Dual Inspection station
- Single / Double High speed Vision Capturing & processing System
- Single / Double High speed Strobe controlled Lighting system.
- LCD monitor for process monitoring
- Programming console
- High speed rejection system.
- PLC based control Station.
- Complete mounting accessories.
- Automatic feeder to feed samples to a linear conveyor.
- Inspection station for inspection of various defects.
- 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:

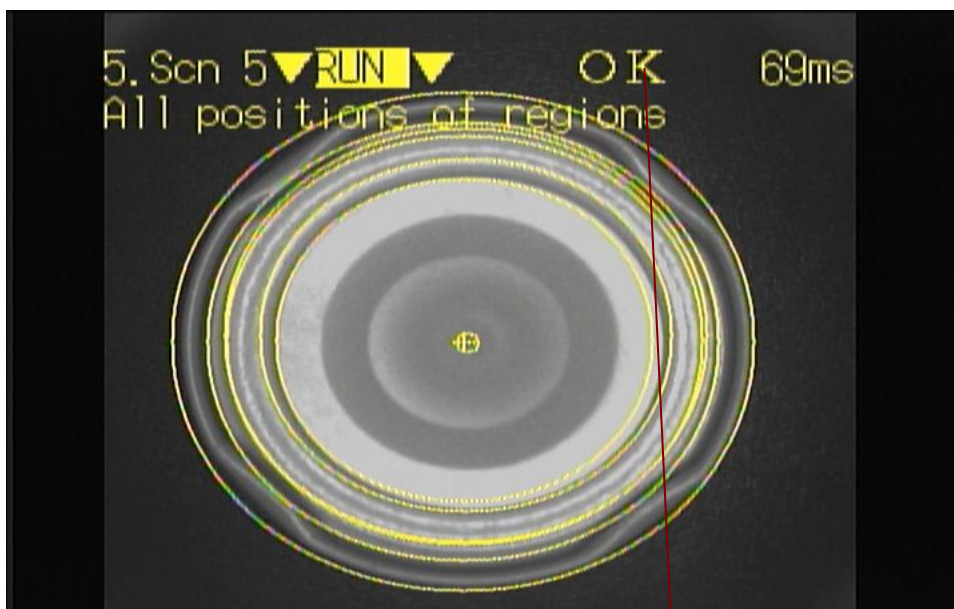
- a. Total Components inspected
- b. Total Components rejected
- c. Rejected components tabulated fault wise.
- d. Graphs and trends to show the performance of the system.

## Technical Specifications:

<b>INSPECTION CAPABILITY</b>	1)Print Off Center.(top Side) 2) Liner Missing. 3) Black Spot on Liner. 4) Dust On Liner.
<b>SYSTEM ACCURACY</b>	defect detection 200 micron size
<b>SYSTEM SPEED</b>	300 caps per minute
<b>PRODUCTS TYPE</b>	All Types Lug caps.
<b>CAMERA</b>	Medium Range Medium resolution With controller
<b>LENS</b>	High Resolution lens.
<b>ILLUMINATION</b>	High intensity LED White shower lighting.

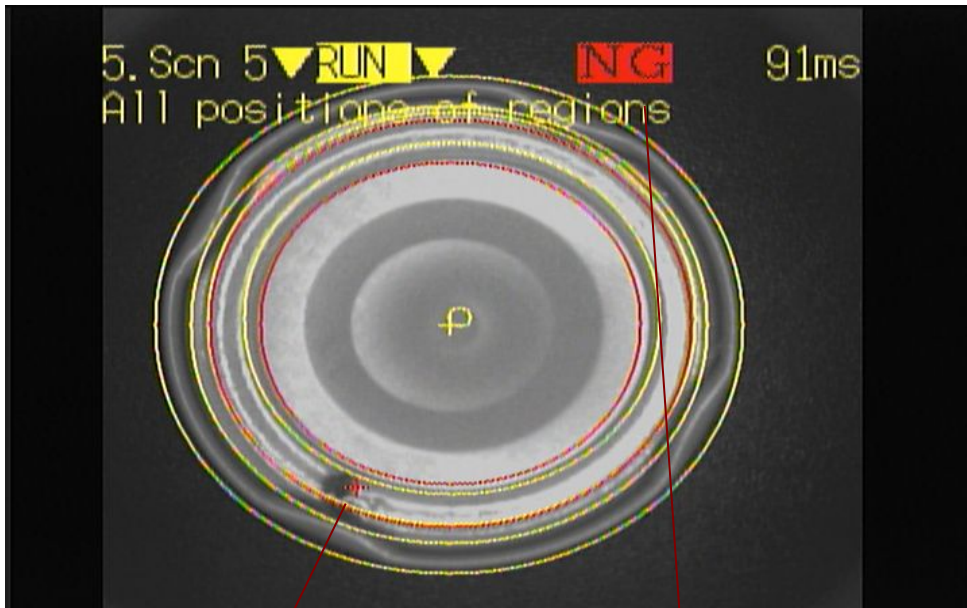
## CAMERA RESULTS FOR OK AND BAD SAMPLE:

### Types of Defects to be inspected by the machine



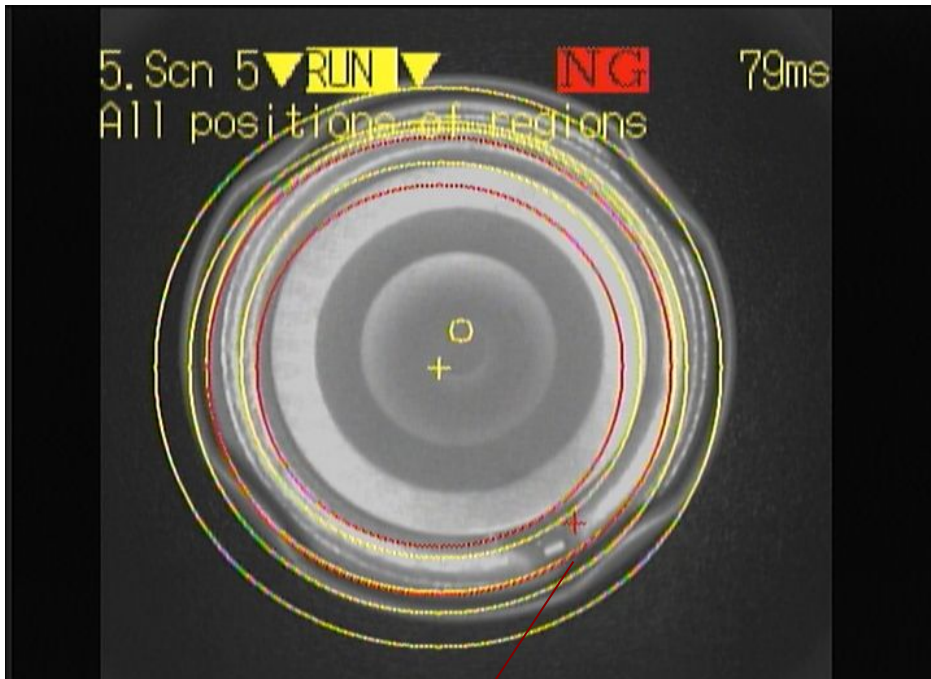
OK Sample

Camera Shows OK

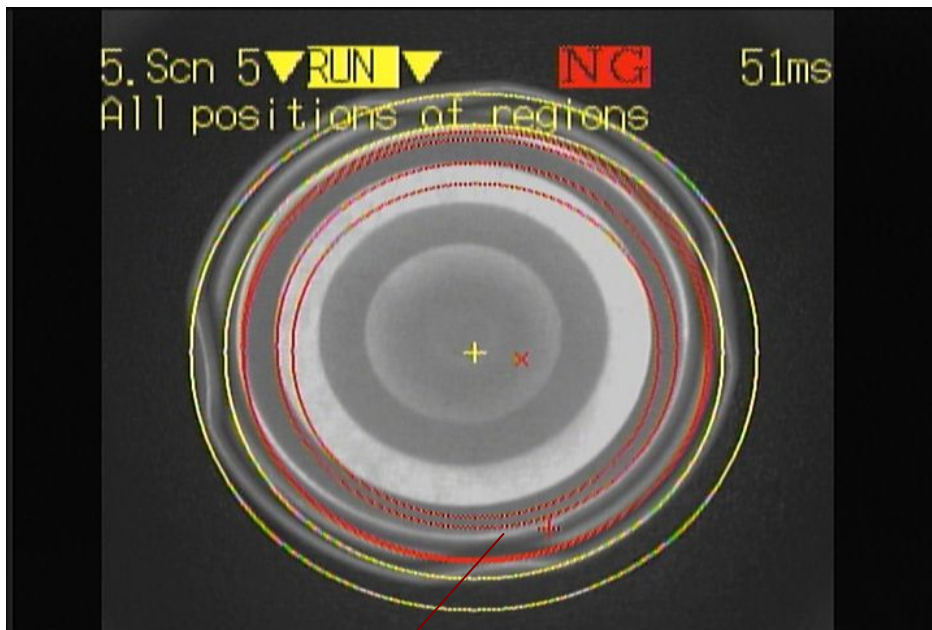


Black Spot on Liner

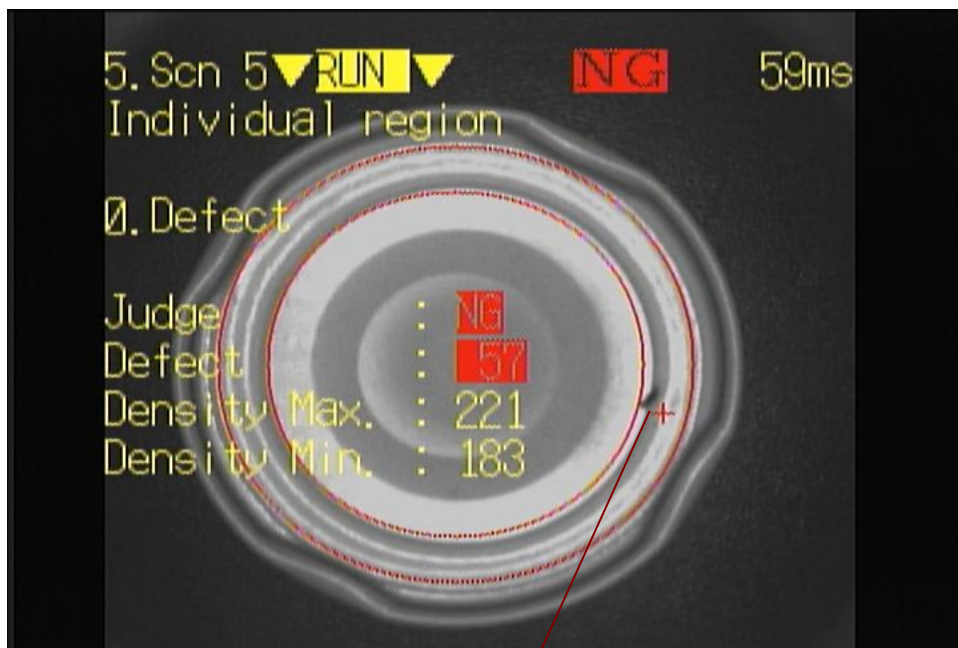
Camera Shows NG



Mark On the liner.



Dust on Liner



Black Mark

Note: - On the top side of sample only print off-center is able to detect by the camera.



## **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
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### **For more information contact:**

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