

High Speed Vision Inspection Systems



Optomech engineers supplies advanced online automatic vision inspection solution's for the Plastic manufacturing, pharma and the FMCG industries.

Optomech offers standard inspection machines for Empty Bottles, filled bottles, Closures and Label inspection.

Apart from these, Optomech has the capabilities to design, develop, manufacture and install custom inspection solutions as per the customer requirements.

Salient features

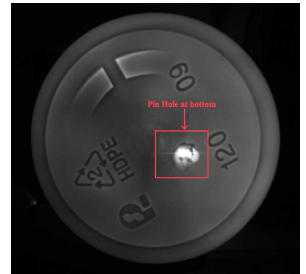
- Easy to use touch screen user interface.
- All settings related to a product are stored in a database, any number of different products (closures) can be Configured directly by the user and saved.
- Product changer over is a simple process of just selecting the product form a list and loading.
- The Software complies with the USFDA- Code of Federal Regulations(CFR)ital 11 chapter 21
- All inspections results are stored in the database with a time stamp, detailed reports can be generated and exported to excel at any time.
- The system automatically generates reports every hour, these can be viewed remotely.
- Each product image is displayed on the screen as the product is inspected.
- Frequency of each defect occurrence is displayed on screen.
- Password protected multilevel, user access control is provided.
- Easy to define tolerances allows the user to decide, which product passes and which needs to be rejected.
- Defective products are ejected from the line.

Bottle Inspection System

High performance online system for checking visual defects in HDPE/PP Bottles. Each bottle is inspected for the following defects:-

Outer Sidewall of Container

- Material Inclusions.
- Holes and thin wall.
- Incomplete blowing/bottle shape variation.
- Color shade variations and color smears.
- Black Spots and burn spots.



Container Base

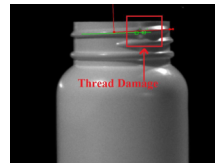
- Contamination.
- Thin Wall.
- Holes.
- Incomplete Blowing.

Top Sealing Surface

- Flashes and extra material.
- Under/Short Molding.
- Ovality.
- Diameters Variation.

Neck/thread

- Ratchet/Thread Damage.
- Geometric Characteristics.
- Contamination.
- Black Spots, Burn spots.
- Holes and thin walls.
- Incomplete Blowing.
- Material Defects.



Inside the bottle

- Dark spots.
- Material insert.
- Contamination.

Label Inspection system

High performance online system for checking visual defects in plastic closures and liners. Each bottle is inspected for the following defects:-

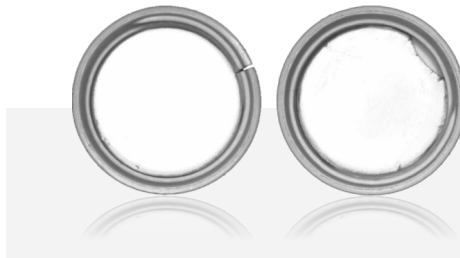


- Label shifting in horizontal direction.
- Label shifting in vertical direction.
- Missing label.
- Half label.
- Wrong Label.
- Label upside down.
- Damaged Label.

Closure & Liner Inspection system

High performance online system for checking visual defects in plastic closures and liners. Each closure is inspected for the following defects:-

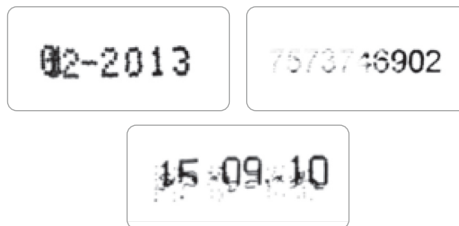
- Extra material, Flashes on the closure.
- Closure breakage.
- Closure Diameter and Ovality.
- Short Moulding.
- Thread Damage.
- Closure transparency.
- Black marks on the closure.
- Missing Liner.
- Liner misalignment.
- Damaged Liner.
- Incomplete liner.
- Folded Liner.
- Liner Half Moon.
- Double Liner.
- Delaminated Foil.



OCR/OCV Inspection system

High performance online system for checking visual defects in the injet printing of Date/Batch code on Bottles/label's/closures etc. each product is inspected for the following defects:-

- Incomplete printing.
- Missing letters.
- Unreadable printing.
- Wrong printing.
- Missing printing.



Filled bottle inspection system

High performance online system for checking visual defects in Filled bottles. Each bottle is inspected for the following defects:-

- Fill Level.
- Cap Presence.
- Tamper band presence and integrity.
- OCR/OCV.



About Optomech

Optomech Engineers Pvt. Ltd. was founded in Hyderabad, India in the year 1981.

Optomech has over 30 years of experience of successful development, manufacturing, servicing and marketing of products involving vision technology for quality inspection.

We are closely orientated towards the needs of the market. We are one of the leading providers of vision technologies for quality inspection. Renowned companies place their trust in the solutions and services provided by Optomech.

For us at Optomech, 'Professional After-Sales Service' is not just a simple catch phrase; instead, it is our company philosophy. We accompany you all the way from the initial consultation up to final installation and training - and beyond. You benefit from our many years of experience and will be able to deal with the challenges encountered when implementing the new technology.

Optomech has its own manufacturing facility, spread over 10,000sqft of buildup space, and is supported by a dedicated team of Engineers. At Optomech we always put the customer first, and **Your Quality is Our Vision.**

Do you have any custom inspection requirements? **Contact us today !**

Our Clients



ALPLA



Himalaya
HERBALS

Johnson's
baby

OPTOMECH
Your Quality Our Vision

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