

CYCLOPS: Closure Seal Inspection

Remove your risk, reduce your expense, and assure your quality



CYCLOPS : Overview

This intelligent, turn-key, high speed machine vision system provides 100% non-contact inspection of metal and plastic closures at production line speeds, minimizing waste, reducing liability, and maximizing profits.

CYCLOPS provides real-time inspection of critical product parameters, constant feedback to the process operator, and statistical data and trend generation for analysis of production efficiency. CYCLOPS incorporates powerful yet easy-to-use algorithms and digital megapixel technology to provide unparalleled inspection capabilities. It is specifically designed for 100% inspection of caps (from 25 to 100 mm) and closures at line speeds, detecting defects and rejecting them off your line.

System setup is simple with our industry-leading proprietary tools. These tools automatically ignore normal product and process variations while selectively amplifying the signal from defects. Integrated alarm functions notify you of defect trends to help you quickly identify and correct the cause, and the system provides statistical information to support process control.

CRYSTAL CLEAR BENEFITS

- Reduce Costs
- Eliminate manual inspection
- Eliminate incubation
- Improve product quality
- Improve speed to market
- Improve reactivity

TESTIMONIAL

“VMV was contracted to replace an existing system which had been developed over a number of years. Within 12 weeks they were able to deploy a solution that was better than the previous solution, offering improved performance, a more intuitive interface, and a system that is easier to setup and maintain. To top this off the level of support that they offered was outstanding. I would not hesitate to recommend their services.”

Dane Harrington,
VIP Packaging



Intelligent Vision

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BENEFITS :

- Reduces labour costs – by eliminating the need for manual inspection and incubation
- Recognizes and rejects defective seals without manual intervention
- Identify issues on-line thus improving reactivity and traceability
- Provides real-time statistical data (reports, charts, graphics) to support the analysis of production efficiency
- Designed for “drop-in” installation onto existing machines
- High speed, non contact inspection; no product handling required
- Constant feedback to the process operators

FEATURES:

- Classifies rejected product i.e. damaged seal, lid alignment, etc.
- Captures a history of defective products for analysis
- Uses a robust, fully scalable IP-based architecture
- Intuitive touch-screen menu navigation and on-line tutorials for easy setup and flexible inspection control
- Provides real-time statistical data (reports, charts, graphics) supporting analysis of production efficiency
- Integrated colour touch screen:
 - Provides intuitive user setup
 - Allows quick job changes
 - Reduces downtime
- Integrated database that:
 - Stores job information
 - Stores results of visual inspection enabling long term analysis
 - Allows easy backup
- Multilevel security
- Modular design allowing for easy maintenance

REPORTING

- CYCLOPS provides a variety of reports including totals produced, rejects by hour and/or category.
- Images of rejected products overlaid with reject information.
- Reports enable the performance of the printing to be monitored and improved during their life-cycle
- Reports are built on top of enterprise databases.
- Reports can be connected to shop floor displays for complete factory visibility.

VMV LIFE CYCLE SUPPORT

- Installation and Commissioning
- Training
- Technical Support
- Spare Parts and repairs
- Preventative Maintenance Services
- Migration and Retrofits

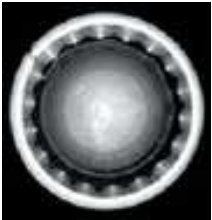


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INSPECTION CAPABILITY:



Broken
Tamper Band



Contamination



Deformed Seal



Deformed
Shell



Short Shot



Foil Liner Cut out



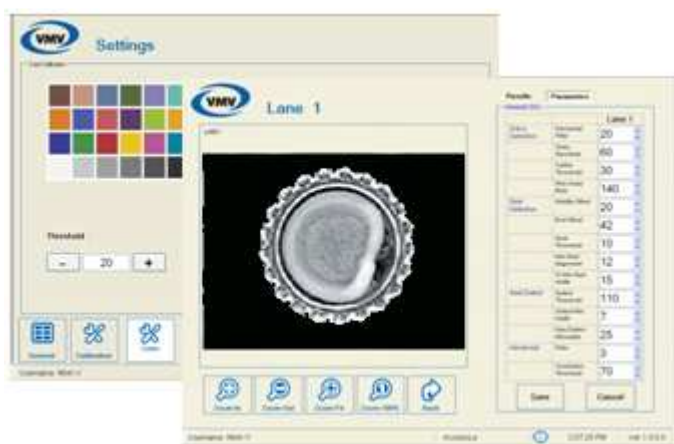
Liner Cut out



Liner Wrinkle



Missing Lug



Touch screen Operator Interface allows quick problem resolution for defective seals

SPECIFICATIONS

Environment:

- 0-50°C (32-122°F), Up to 90% Relative Humidity, Non-Condensing

Power:

- 120 or 230 VAC

Communications:

- Digital I/O – Discrete, Optically Isolated 8 Inputs, and 16 Outputs
- Optional – Extended Configurable I/O
- Optional – Full Remote Operation via Internet Connection

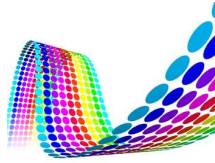


Intelligent Vision

VMV - COMPANY PROFILE

Web Inspection

(paper, metals, non-wovens, glass fiber mat)



Print Inspection

(fine print, newsprint, coated and uncoated)



Colour Sorters

High speed colour sorters for the food industry



Retortable plastic and aluminium packaging

(ready meals, baby food, Pet foods, pates, sauces, soups, fruits ...)



Retortable Pouches

(sauces, soups, fruits, ...)



Closures

(Plastic caps and closures)



VMV is a leading developer and manufacturer of powerful performance proven vision inspection solutions that allow industry to improve their performance, productivity, and bottom line results. With solutions deployed around the globe, VMV has the expertise needed to make your system a success.

Our professional staff includes highly skilled and experienced software, electrical, and mechanical engineers, technical staff, and in-house design / drafting. We also have in-house manufacturing and prototyping facilities which allow us to rapidly develop unique solutions to complex problems.

With a high level of technical expertise, the ability to work closely with our clients, and a focus on support, we offer solutions that provide consistent performance and objective standards. Furthermore, we are able to implement such systems quickly, reliably, and within budget.

Contact us to find out how we can help you.

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