

Vision Inspection Systems

RNA automated vision inspection systems are designed for a broad spectrum of components. Quality control checks, OCR (optical character recognition) and batch sorting applications are a few examples. The systems have been developed to meet high speed quality control requirements for 100% inspection.

Our experience with handling systems is key to offering a total solution when integrating vision software. Typical projects start with an evaluation of the vision parameters in order to provide a complete turn key solution.

- Automated vision inspection provided as a turn key system for total confidence of supply.
- In house integration of a wide range of camera technology to provide the correct solution.
- Full in house technical support with remote diagnosis capability.
- Front end feasibility studies for complete peace of mind prior to investigation.

RNA Standard Range

RNA MK360™

The automated inspection machine RNA MK360™ is developed specifically for 360° quality inspection. A unique and novel approach to inspecting through the use of a **rotating glass disc**.

Included in MK360™

- RNA Bulk Hopper
- Bowl Feeder/Centrifugal Feeder
- In-Feed & Return Conveyors
- Inspection Disc and Vision System
- Integrated Control System with HMI



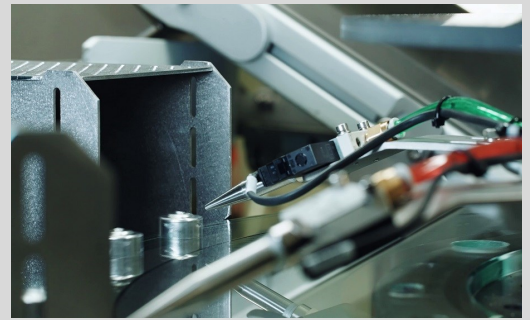
Applications

Pharma Ferrules

The RNA MK360™ Glass Disc Vision Inspection System feeds, orientates and inspects pharmaceutical ferrules at a speed of 200 parts per minute.

The system consists of:

- Bulk Feeder BFK 65
- Bowl Feeder TAG-ZA 400
- FDA 400 polyurethane coating
- Transfer Conveyor
- Inspection wheel with Good/Bad Ejection
- Control System complete with HMI



Plastic Moulding Components

Automated Laser Drill Vision Inspection System for a range of plastic moulded components (11 variants). The hole diameters to be drilled ranged from 15um to 50um.

The system incorporated a **bowl feeder, robotic vision system, walking beam transfer system, laser drilling system, vision inspection stations** and a **control system**.

A fully validated changeover to switch from one component to another can be accomplished in less than 5 minutes, resulting in improved uptime and productivity.



Lamp Housings

Automated Potting Machine to apply resin to the lamp housing.

The machine consists of a **6-axis dispensing robot, a vision inspection station** and a **temperature-controlled chamber**, based on a conveyor system holding 50 component nesting pallets.

The vision inspection station integrates a camera to perform quality inspections. The housings are stopped at the station and the vision checks resin material has been dispensed. This ensures that the dispensing results are accurate before moving on to the next step.



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