

Guardian PQV Security Thread Slitting Inspection System

The Guardian PQV Security Thread Slitting Inspection System is a high performance, single or multiple stream inspection system that provides 100% checking of the position of symbols, patterns or logos within the width of the slit foil or film on high speed slitting and spooling machines.

It has a high speed camera, per side, that captures images of the moving product and processes these images on a high-performance computer.

The easy to use interface allows the operator to start/stop inspection, store reports for all inspected. The remote monitor(s) can display live images from the inspection process.

The system can generate a report showing time and date of all sequences inspected and details of all faults detected. Images of faulty product can be saved in a report on the hard drive.

An output signal can be generated for each fault detected. It can be used to mark the defective foil or to stop the process.

The dual camera system, one camera on each side, will inspect three strands of foil from the slitting process, one from either side of the web and one from the middle of the web. The system measures the distance from the position of the "Locate" to the edges of the foil. The process inspects at regular user pre-defined intervals. The system will detect a drift from the user-defined tolerance settings. When a preset threshold or warning limit is reached, the system will alert the user. This allows for a correction of the process before the "out of tolerance" is reached and before defective product is produced.

A full report of the inspection is generated for each job. The report includes the start date and time, operator's name (if passwords are enabled), the amount of material which has passed through the camera, the distance in meters from the start of the inspection to the error and the type of error detected. Images of failed inspections will be saved in a PDF report and measurement data is provided in a CSV file.

Guardian PQV Security Thread Slitting Inspection System Features

- Multiple streams per camera can be checked
- Surface speeds up to 300 m/min
- Positions of symbols, patterns and logos can be trained using the simple 'Locate' tool
- Uses 'Edge' detection algorithms to ensure that the pattern is positioned correctly, relative to the thread edges
- Searches and recognizes shapes, symbols, patterns and logos within the thread
- Can use filters to image clear or opaque films
- Checks the position of the pattern within the slit film/foil
- Tolerances are operator adjustable
- Passwords/codes can be set up to limit access to adjustments
- Product width from 0.5 mm to 10 mm