

QualiLine-R

In-line multiple camera robotic inspection system

QualiLine-R features one camera mounted on a robot for in-line inspection of complete assemblies, such as automotive mirrors. Since the robot can move the camera into the required orientations to make a number of measurements, the need for multiple, precisely positioned fixed cameras is eliminated.

Key features:

- Flexibility
- Quick reconfiguration and product change-over
- 3-D inspection
- No complex positioning mechanisms
- Real-time fine-tuning feedback for production parameters



In-line inspection is typically carried out using a number of fixed-position cameras and illumination systems which are triggered sequentially to make the required measurements. QualiLine-R adopts a different approach by mounting a camera on a robot arm, which can then be programmed to rapidly move the camera into the different measuring positions. By attaching additional components to the robot arm (for example a probe to operate switches) functionality checks can also be carried out. The system is controlled by a computer that captures the image, performs all image processing, makes the measurements and then sends an accept or reject signal to the production control system.

Benefits

The chief benefit is QualiLine-R's versatility. The system can be rapidly reconfigured for a variety of different components, which makes changeovers to different product types without stopping the production line a reality.



Measured parameters

- Presence / absence of components (e.g springs, clips etc)
- Presence / absence of labels
- Orientation of components
- Shape
- Size
- Position

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