

“Inspection of glass tubes”:

New cost/effective in-line Tube inspection system for Signify

The challenge:

Securing and optimizing the inspection of glass tubes for Signify.

Signify have for years used inspection systems that did no longer meet the demands for inspection.

Another problem with the old equipment was that there were no longer any support from the manufacturer and spare parts were no longer available.

Signify is one of the worlds largest manufacturers of lighting including a wide range of bulbs and light tubes.

The main factory is located in Poland, but has a worldwide presence including factories outside Europe.

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Solution:

A new cost-effective inspection system with continuous support

JLI vision developed and installed the latest member of the SK-3000 series of in-line Tube inspection systems. The new system is called SK-2130 and is optimised to work on lines with a lower WT/OD ratio than typical pharmaceutical lines. This means that only 2 cameras are necessary instead of 3 or more. Together with other optimisations, this brings the price of the system down.

Another important improvement is that this system uses LED light instead of sodium bulbs. As sodium bulbs is the single most power consuming component of the standard SK-3000 series systems, the power consumption for light has been brought down with more than 90%. With other improvements mainly by using

a new computer and other components with a lower power consumption, the overall power consumption has been reduced with approx. 90% compared to the standard SK-3020 system.

JLI is currently also focussing on reducing the carbon footprint (CO2e emission) of our products. Mainly because of the significant reduction in power consumption, the carbon footprint of the new SK-2130 has been reduced with more than 85% when the full life circle of the system is taken into account.

Results:

A statement from the product manager at signify:

"We have noticed a significant improvement in our production process since implementing SK-2130. The system's advanced features have helped us streamline our operations and maintain a consistently high level of quality in our production. We are happy with our investment in this equipment and would recommend it to other businesses. The customer support team at JLI vision has been helpful and responsive."

Specifications:

Tube diameter (OD): 1.0 - 48 mm (larger OD on demand)

Wall thickness (WT): Max 3 mm and max 8% of tube diameter

Line speed: Up to 150 Metres / minute (higher on demand)

Smallest detectable diameter for stone/knot: 0.25 mm

Shortest detectable airline length: 10 mm

Smallest airline width that can be detected: 0.04 mm

Add-on Cord inspection available

Add-on Clever Cutting available



By shifting to equipment from JLI vision, continuity in support would be ensured, as JLI vision is the leading supplier in the market for in-line tube inspection with a very long track record.

The new system is a stand-alone unit and can therefore easily replace older equipment and interface with line control equipment without the need for changing any interface or software. Actually you can replace older equipment and have the new JLI vision inspection running within only one hour.

The new equipment also have a significantly better measuring accuracy, so both the false reject and false accept rate are now better.

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