

SOFTSOLUTION

# Better glass quality through artificial intelligence

The demands on glass quality and dimensional accuracy are constantly increasing. The systems for quality assurance in the glass industry must meet these requirements.

For this purpose Softsolution uses automated systems to ensure operational reliability and performance. Recently, the LineScanner Management Console and artificial intelligence have been used here to optimise the processes.

For over 20 years Softsolution has been developing and manufacturing quality assurance systems for glass processors at its site in Waidhofen/Ybbs (A). Softsolution now focuses on two further developments for its customers: the LineScanner Management Console and artificial intelligence. The newly developed LineScanner Management Console provides processors with an online overview of the current status of all scanners in production and thus integrates the scanners into the extensive automation and workflow control. This software tool records the quality and quantity of produced and scanned glass slices per line and gives a quick overview of all scanners in operation.

The LineScanner Management Console provides the user with the most important data (status of the line, service requirements - also foresighted - as well as current production figures with corresponding quality results) in real time. A complete documentation of the glass quality is indispensable and, thanks to lot and Industry 4.0, will be even easier in the future.

The Service & Support department can also connect to the LineScanner Management Console via remote and preventive maintenance if there are any questions or problems.

"Our long-time customer Gethke Glas Gronau GmbH uses our latest development, the LineScanner Management Console", says Peter Pfannenstill, Sales Director at Softsolution. "The Console displays all status checks of all systems in use, provides comprehensive maintenance messages from the scanners and is there to provide 100 percent production control during operation. We are going one step further to provide the best service and support to our customers and partners."

### Thus artificial intelligence prevents "false quality rejects"

Artificial intelligence is already finding practical application in many areas - including inspection systems from Softsolution - and replaces traditional automated methods, which often suffer from a high rate of "false rejects" (= false quality rejects). Softsolution has understood this customer requirement and relies on the use of artificial intelligence to solve problems with "false quality rejects" with the help of algorithms.



Softsolution technicians Markus Oberklammer (l.) and Lothar Schleiner, plant manager of Gethke Glas Gronau.

Photo: Softsolution GmbH

The scanner delivers results continuously - which defects were found on a glass, what kind of defect and is the defect acceptable or not for this customer. The scanner also detects whether serial errors occur.

An operator may have a different picture of an assessment. In this case Softsolution now allows the operator to correct the LineScanner's decision. Such "changes" by the operator are collected and used for continuous improvement. Thus, it can be said that the LineScanner increasingly learns from feedback and constantly adapts its evaluation behaviour.

[www.glass-iq.com](http://www.glass-iq.com)

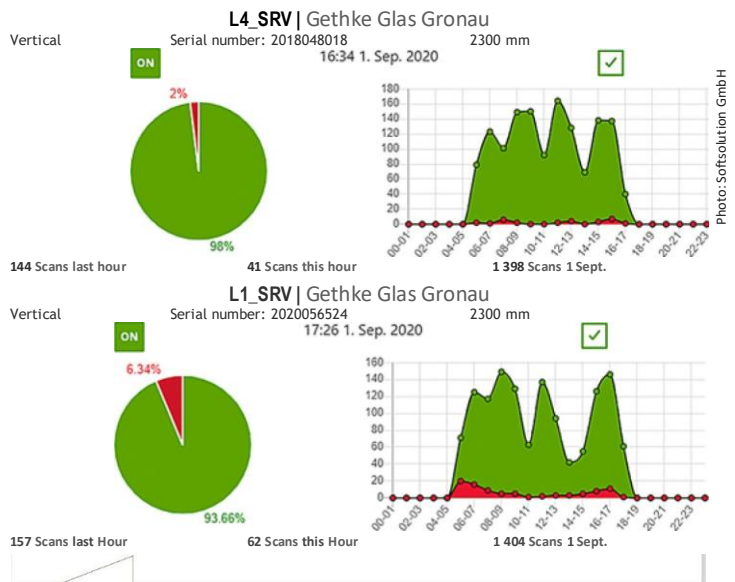


Photo: Softsolution GmbH

The LineScanner Management Console shows Gethke Glas Gronau the most important current data, such as status of the system, service requirements, eg.