

STATOVISION

High-resolution representation of surfaces
brings hidden defects to light



The benefits

- High-resolution representation of the component surface
- Intelligent filter algorithms for targeted suppression of interfering contours like drill holes, grooves, bevels, etc.
- Complex testing applications are now possible
- Digital filters with large dynamic range
- Automated process monitoring by monitoring specific areas
- Post-data analysis for process improvement, since raw data can be stored and post-processed
- Advanced clearance compensation
- Report creation in PDF and PNG formats

New dimensions in eddy current testing

With STATOVISION, FOERSTER offers an innovative software solution for the identification and visualization of heretofore undetectable defects. Intelligent filter algorithms enable previously impossible inspection tasks; since this allows interference signals to be filtered out and suppressed, cracks near drill holes or millings, for example, can be found. Furthermore, by superimposing the images of several components, it is possible to identify – at an early stage – patterns in the defects, e.g. due to tool wear, so that the source of the defect can be eliminated. The test system consists of STATOGRAPH CM/CM+ and a PC including the STATOVISION test software. FOERSTER offers an industrial PC with a certified Profinet interface for automated and reliable testing.

Testing with STATOVISION

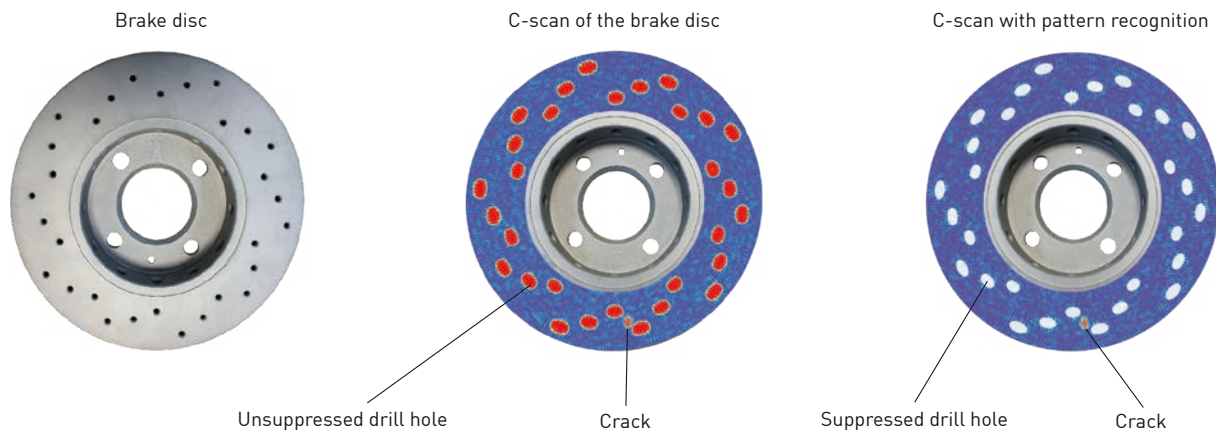
For example on drilled brake discs

Testing with STATOVISION

Previously, drilled brake discs could only be inspected if large regions were blanked out, meaning that certain areas remained untested. Cracks in or around the drill holes went completely unnoticed during the inspection process. Now, the STATOVISION software can “learn” about such interfering contours as drill holes, grooves or milled features. Then, in the testing step during production, these learned areas are intentionally suppressed. This makes it possible – for the first time – to reliably detect and display cracks or other surface defects that are located near or between the drill holes.

Clear C-scan representation

A high-resolution C-scan clearly displays the quality of the component's surface. Defects can thus be located precisely. The data is then saved to produce comprehensive statistics and complete documentation to ensure traceability. By superimposing several images on top of each other, disruptive process effects (e.g. tool wear) can also be detected and eliminated early on to lower reject rates.



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