

CIRCOGRAPH DA



Non-destructive eddy current testing for detecting longitudinal defects on bright material such as tubes, bars, wires and profiles



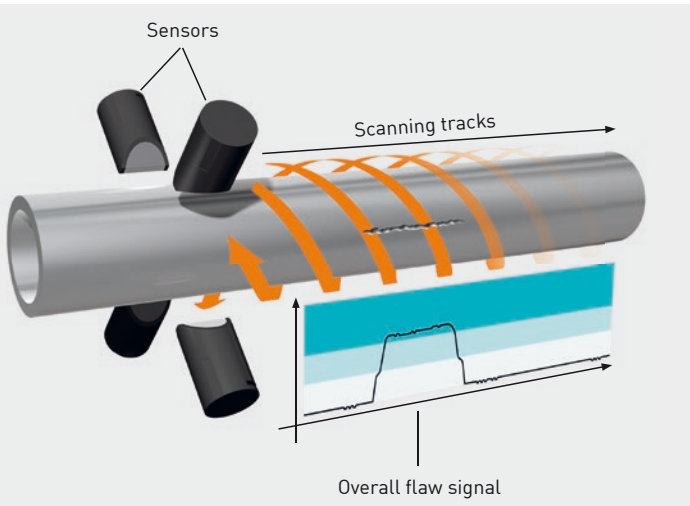
We get you ready for future testing tasks

The CIRCOGRAPH DA is characterized by state-of-the-art digital electronics combined with a sophisticated system architecture, which enables maximum reproducibility even at very high test speeds. Its modular system design – and the corresponding expansion options – offers maximal flexibility for keeping up with changing test requirements.

The CIRCOGRAPH DA eddy current test system with rotating sensors guarantees maximum detection sensitivity for surface-open, longitudinal defects on bright material. The system is extensively used alongside wire drawing machines, copper tube rewinders or finishing machines in the bright steel sector. This modern test system allows seamless integration into your production process, including comprehensive documentation. Test sections in various designs are available for setting up separate test lines to ensure optimum transport of the test material through the sensor system. We work with you to develop a comprehensive solution that's tailored to your testing needs.

Your benefits

- **Superior test quality:** The test signals are digitized directly at the sensor, which significantly reduces external interference.
- **Maximum flexibility for your requirements:** The modular system design allows you to expand and optimize the system at any time, such as adding a DEFECTOMAT sensor system for detecting transverse and point defects. The module is compatible with all other FOERSTER sensor systems.
- **Continuously adjustable test frequencies:** From 1 kHz to 1 MHz in 100 Hz steps.
- **Patented digital tracking filter:** Dynamic adjustment of the filter position to the test speed.
- **Clear and intuitive software:** The proven CIRCOGRAPH DA DEFECTOTEST software has been tailored precisely to user requirements.



Detection of even the smallest defects

The CIRCGRAPH sensor systems spot-scan for – and can display at high resolution and in their full length – tiny material defects as shallow as approx. 30 µm. From fine wires just 2 mm in diameter to 130 mm tubes, the sensors cover all the requirements of the bright steel sector. The probes spiral around the test piece at high speed and scan its entire surface without touching it. This achieves high throughput rates of up to 3 m/s with seamless testing. The ultimate in eddy current testing from FOERSTER.

Easy to use, thanks to DEFECTOTEST DA software

For simple operation, the software interface is divided into control elements and a central area where all the relevant information is displayed in freely configurable window views. We've also optimized the buttons for touchscreen input. The uniform color coding of the elements facilitates quick orientation and helps prevent errors.

Digitization for optimized test quality with the CIRCGRAPH DA

Innovative test electronics digitize the analog signals directly at the sensor. This means that all test results are available in real time. The physical proximity of the test electronics to the sensors provides for short connection cables, which minimizes the influence of electromagnetic radiation and significantly improves the test quality.



Headquarters

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