FOERSTER

CIRCOGRAPH CI

Compact inline eddy current inspection for longitudinal surface defects on bright products

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Compact, intuitive and reliable surface inspection. The CIRCOGRAPH CI is a compact eddy current inspection system for the non-destructive detection of longitudinal surface defects on bright products such as tubes, bars and wire. Designed for production lines with moderate inspection speeds, it combines reliable defect detection with intuitive operation in a compact, space-saving system.

Equipped with two inspection channels, continuously adjustable test frequencies from 30 kHz to 1 MHz and a wide range of rotating sensor heads, the CIRCOGRAPH CI can be adapted to a variety of applications and product dimensions.

Surface-breaking defects from approximately 30 µm can be detected reliably and contactlessly.

The integrated operator interface with Turn & Push control enables fast setup and simple operation directly at the instrument. Ethernet connectivity and configurable I/O interfaces allow seamless integration into existing production lines while supporting quality documentation and data exchange with higher-level systems.

YOUR ADVANTAGES AT A GLANCE

Reliable longitudinal defect detection: Detect surface-breaking longitudinal defects from approximately 30 µm without contacting the material.

Compact stand-alone solution: Integrated operator interface with Turn & Push control for intuitive setup and operation directly at the instrument.

Flexible inspection performance: Two inspection channels, adjustable frequencies from 30 kHz to 1 MHz and a wide selection of rotating heads adapt to different applications.

Continuous inline inspection: Reliable testing at production speeds of up to 3 m/s without interrupting material flow.

Optimized signal processing: Distance compensation and optimized digital filters ensure stable inspection results.

Easy production integration: Ethernet connectivity and configurable I/O interfaces simplify integration into existing production lines.

Ready for Industry 4.0: Exchange inspection data with higher-level production and quality management systems.

Comprehensive quality documentation: Generate inspection reports and archive test results for complete traceability.

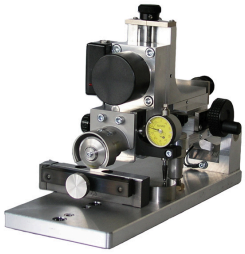
NORMS

DIN EN ISO 15549: Describes the general bases of eddy current testing.

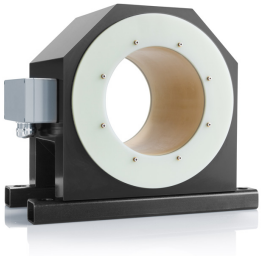
TECHNICAL INFORMATION

TEST MATERIAL:	Ferromagnetic, austenitic, and non-ferromagnetic material
SENSOR SYSTEM:	Rotating sensor system with a maximum of two (Ro 20 and Ro 35) opposite test heads
EXCITATION FREQUENCIES:	30 kHz – 1 MHz
MAX. THROUGHPUT:	3 m/s during continuous testing
DEFECT DISPLAY:	from 30 µm at Ro 20 / Ro 35

ACCESSORIES



TEST DEFECT SAW
Precise Reference Notches for Reliable Calibration



EMAG
Demagnetization unit for ferromagnetic wires, rods, and tubes

MAG
Magnetization supply for ferromagnetic wires, rods, and tubes

COLOR MARKING SYSTEM
Precision marking of defects on the test piece

FOERSTER

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