



CIRCOGRAPH DI

Compact inline eddy current inspection with centralized control for longitudinal surface defects



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Reliable surface inspection with maximum flexibility. The CIRCOGRAPH DI 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 delivers the same reliable inspection performance as the CIRCOGRAPH CI while enabling centralized operation through an external control computer.

Operation, parameter configuration, result visualization and data archiving are performed via an Ethernet-connected PC. This separation of inspection and operation allows the testing electronics to be installed close to the production line while providing convenient control and quality monitoring from a central workstation.

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 DI adapts to a variety of applications and product dimensions. Surface-breaking longitudinal defects from approximately 30 µm are detected reliably and contactlessly, while the compact design enables seamless integration into existing production environments.

YOUR ADVANTAGES AT A GLANCE

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

Centralized operation: Configure inspections, visualize results and archive data conveniently via an external Ethernet-connected PC.

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

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 filters ensure stable and reproducible inspection results.

Easy production integration: Compact design, 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: Inspection reports and archived test data provide complete traceability.

TECHNICAL INFORMATION

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

NORMS

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



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