



DEFECTOMAT DA

Digital Eddy Current Testing for Reliable Detection of Transverse Defects in Long Products such as Tubes, Bars, Wire and Profiles



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A new definition of premium class. The DEFECTOMAT DA sets new standards in non-destructive eddy current testing of long products. Combining fully digital signal processing, a modular system architecture and powerful software, it delivers outstanding inspection quality, maximum flexibility and intuitive operation.

The innovative evaluation electronics digitize inspection signals directly at the sensor. This significantly reduces electromagnetic interference and ensures exceptional repeatability, even at inspection speeds of up to 150 m/s. Patented digital tracking filters automatically adapt to the current inspection speed, providing stable and reliable inspection results even under demanding production conditions.

Its modular architecture allows the system to be easily adapted to new inspection tasks and future requirements. Up to 16 TEST SYSTEM DA modules with a total of 256 inspection channels can be combined without multiplexing, providing maximum performance for a wide range of applications.

Together with the DEFECTOTEST DA software and the comprehensive portfolio of FOERSTER sensors, the DEFECTOMAT DA forms a future-proof platform for automated eddy current testing. An intuitive user interface, automatic sensor recognition, multi-user capability, and comprehensive reporting and documentation functions support efficient, fully digital inspection workflows.

YOUR ADVANTAGES AT A GLANCE

Fully digital inspection system: Digital signal processing directly at the sensor for outstanding inspection quality

Modular platform: Flexible system architecture for future expansion and evolving inspection requirements

High performance: Up to 256 inspection channels without multiplexing

Maximum flexibility: Connection of up to 16 TEST SYSTEM DA modules

Patented tracking filters: Dynamic adjustment of digital filters to the inspection speed

High inspection speed: Reliable testing of long products at speeds of up to 150 m/s

Wide frequency range: Continuously adjustable inspection frequencies from 1 kHz to 1 MHz

High signal dynamics: Dynamic range of up to 126 dB

Intuitive operation: Touch-optimized software with multi-user capability and context-sensitive online help

Comprehensive documentation: Customizable inspection reports and complete archiving of inspection results

NORMS

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

TECHNICAL INFORMATION

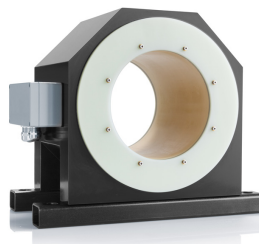
MEASUREMENT CHANNELS:	Up to 16 TEST SYSTEM DA modules with 16 measurement channels each, optionally for differential probes, clearance probes, and Ferromat probes
EXCITATION FREQUENCIES:	1 kHz - 1 MHz (endlessly adjustable)
FILTERING PROCESS:	Digital speed shift filter; filters move along dynamically with the speed
TESTING SPEED:	max. 150 m/s
AMPLIFICATION:	max. dynamic range 126 dB
SENSOR MONITORING:	Broken wires, overload, automatic sensor recognition
PATENT:	The DEFECTOMAT DA uses processes patented to Institut Dr. Foerster GmbH & Co. KG, including US 8907828 B2 "METHOD AND DEVICE FOR TESTING THE MATERIAL OF A TEST OBJECT IN A NONDESTRUCTIVE MANNER". Also protected in many other countries worldwide.

ACCESSORIES



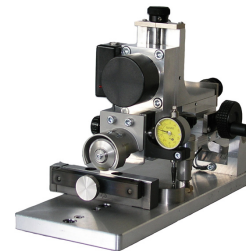
DEFECTOTEST DA ECT

The Software Platform for Eddy Current Testing with DEFECTOMAT DA and CIRCOGRAPH DA



EMAG

Demagnetization unit for ferromagnetic wires, rods, and tubes



TEST DEFECT SAW

Precise Reference Notches for Reliable Calibration



MAG

Magnetization supply for ferromagnetic wires, rods, and tubes



COLOR MARKING SYSTEM

Precision marking of defects on the test piece



DEFECTOMAT PROBES

Probes for non-destructive crack detection using eddy current



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