FOERSTER

# DEFECTOMAT DI

Compact inline eddy current inspection with centralized control for long product manufacturing

# DEFECTOMAT DI

Compact inline eddy current inspection with centralized control for long product manufacturing

**Your cost-effective introduction to automated quality assurance.** The DEFECTOMAT DI is a compact eddy current inspection instrument for the non-destructive testing of tubes, bars, wire and profiles. Designed for continuous quality assurance and process monitoring, it reliably detects surface and near-surface defects while supporting stable production processes across a wide range of long product applications.

Developed for standard eddy current inspection tasks, the DEFECTOMAT DI combines comprehensive testing capabilities with a compact design and flexible system architecture. Inspection, parameter configuration and result archiving are performed via an external PC connected through Ethernet, allowing centralized operation and straightforward integration into networked production environments.

Its flexible two-channel architecture with optional Diff/Abs, Diff/Diff or Diff/FERROMAT evaluation, twelve excitation frequencies from 1 to 1,000 kHz, automatic filter tracking and advanced signal evaluation provide reliable inspection performance for a wide variety of materials and applications. Multiple DEFECTOMAT DI instruments can be operated from a single workstation, creating an efficient solution for centralized quality monitoring across multiple production lines.

## YOUR ADVANTAGES AT A GLANCE

**Cost-effective entry into automated quality assurance:** Comprehensive eddy current testing functions for the most common inspection applications.

**Centralized operation:** Operate, configure and archive inspection data conveniently via an external Ethernet-connected PC.

**Multi-line support:** Control multiple DEFECTOMAT DI instruments from a single workstation for efficient production monitoring.

**Flexible two-channel testing:** Configure Diff/Abs, Diff/Diff or Diff/FERROMAT combinations to suit a wide range of inspection tasks.

**Reliable inspection performance:** Twelve excitation frequencies from 1 to 1,000 kHz, automatic filter tracking and sector signal evaluation ensure dependable results.

**Easy system integration:** Compact design, Ethernet connectivity and remote configuration simplify integration into existing production environments.

**Expandable functionality:** Start with a standard configuration and extend the system with optional functions as your inspection requirements grow.

**High system availability:** Integrated sensor monitoring, protocolled calibration and pin-compatible connections simplify maintenance and replacement.

## NORMS

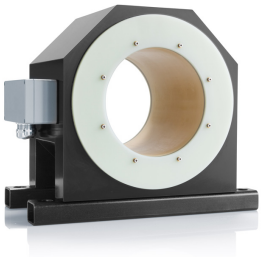
— **DIN EN ISO 15549**

# TECHNICAL INFORMATION

| | |
|---|---|
| **MEASUREMENT CHANNELS:** | Max. 2 independent channels, differential or static operation, second measurement channels optionally as FERROMAT |
| **EXCITATION FREQUENCIES:** | 1, 3, 6, 10, 12, 15 20, 30, 60, 100, 300, 1,000 kHz (optional additional frequencies) |
| **FILTERING PROCESS:** | manual, 25 levels, 1 Hz – 16 kHz |
| **AMPLIFICATION:** | max. dynamic range 102 dB |
| **TEST SPEED:** | max. 150 m/s |
| **SENSOR MONITORING:** | disruption, short circuit, overload |

# 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

## foerstergroup.com

The FOERSTER Group is represented by subsidiaries and representatives in over 60 countries worldwide. You can find a complete overview on our website.


**Headquarters**
**Institut Dr. Foerster GmbH & Co. KG**

In Laisen 70
72766 Reutlingen
Germany

+49 7121 140 0
info@foerstergroup.com



© Copyright 2026 – Copyright notice: All contents of this work, in particular texts, photographs and graphics, are protected by copyright. Unless explicitly stated otherwise, the copyright lies with Institut Dr. Foerster GmbH & Co. KG. Please contact us if you wish to use any part of this work.



Generated: 2026-10-11 20:05:19