FOERSTER

EDDYCHEK 605

Flexible eddy current testing for everyday production

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Reveal surface defects reliably to keep production quality consistent. The EDDYCHEK 605 is a compact, efficient eddy current testing system designed for production lines that demand reliable, reproducible results without unnecessary complexity. Its fully digital architecture, paired with dedicated oscillators and patented signal demodulation, enables clean, high-resolution signals ideal for detecting cracks, pores, inclusions, and other surface and near-surface defects in conductive materials.

Whether integrated inline, used in wire-drawing processes, or applied for offline verification of cut lengths, the EDDYCHEK 605 maintains consistent performance even at high throughput speeds. Up to five independent testing channels and three testing positions allow flexible setup configurations — from standard differential testing to more advanced rotational or absolute probe arrangements.

A glove-operable touchscreen and intuitive menu structure make daily operation fast and straightforward. Robust industrial hardware, extensive connectivity options, and comprehensive data handling ensure seamless integration into modern production environments. With its balanced combination of performance, reliability, and cost efficiency, the EDDYCHEK 605 is the ideal choice for mid-complexity inspection tasks.

YOUR ADVANTAGES AT A GLANCE

Versatile inspection: Ideal for standard to moderately complex testing setups with up to five channels.

Fast and intuitive: Clear touchscreen interface and simple navigation for smooth operation.

High throughput: Stable, reliable inspection at production speeds up to 250 m/s in wire applications.

Sharp signal quality: Fully digital processing with a wide frequency range and patented demodulation.

Precise fault localization: High spatial resolution reduces rework and prevents unnecessary scrap.

Industry-ready design: Dustproof IP52 housing ensures dependable operation in demanding environments.

Seamless integration: Flexible I/O configuration and network interfaces for smooth automation integration.

Complete data overview: Real-time visualization, XML export, optional SQL database connection.

Low-maintenance setup: Modular design with easily replaceable components keeps downtime minimal.

TECHNICAL INFORMATION

TESTING ARCHITECTURE	Up to 5 channels and 3 testing positions (rotational, differential, absolute, FERROCHEK)
SIGNAL PROCESSING	Fully digital; individual oscillators per channel; patented demodulation
FREQUENCY RANGE	100 Hz – 1 MHz
PRODUCTION SPEEDS	Inline up to 20 m/s; wire up to 250 m/s; offline up to 10 parts/s
DEFECT LOCALIZATION	High spatial resolution; multiple mask types and alarms
APPLICATION RANGE	Tubes, bars, wires, strips, profiles; suitable for all conductive materials
DATA MANAGEMENT	XML export, optional SQL interface; supports EDDYTREND signal analysis
CONNECTIVITY	12 inputs / 12 outputs (24 V), USB ports, encoder input, Ethernet
USER INTERFACE	15" touchscreen, intuitive graphical operation, multilingual UI
INDUSTRIAL DESIGN	IP52 housing, EMC-compliant construction; -10 °C to +40 °C operation
DIMENSIONS / WEIGHT	372.5 × 444 × 556 mm; up to 30 kg
POWER SUPPLY	100 – 240 V; max. 200 VA
STORAGE	128 GB SSD

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