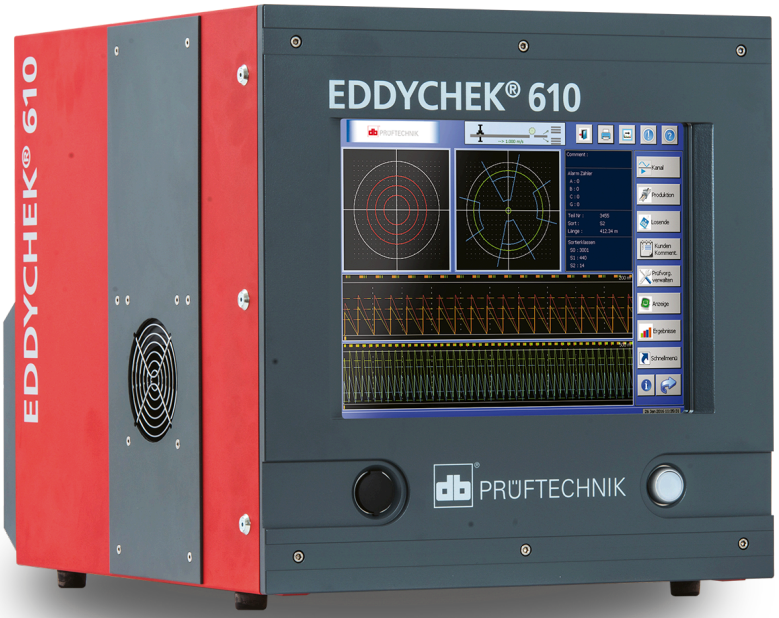
FOERSTER

EDDYCHEK 610

High-end eddy current inspection for demanding testing tasks



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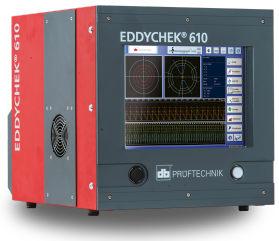

Detect even the smallest defects with confidence at any production speed. The EDDYCHEK 610 is the high-performance model of the EDDYCHEK 6 Series, designed for applications that require maximum testing depth, extensive configuration options, and seamless integration into automated production environments. With up to ten independent channels and six test positions, it supports complex multi-sensor setups, rotational systems, and advanced testing strategies that go far beyond standard applications.

Its fully digital signal processing architecture — including dedicated oscillators and patented demodulation technology — ensures exceptional signal clarity across a wide range of materials and production speeds. A modern touchscreen interface simplifies operation, while robust industrial hardware guarantees long-term reliability.

Compared to the EDDYCHEK 605, the 610 offers twice the number of channels, more test positions, and expanded I/O options, making it the preferred choice for complex and high-capacity inspection tasks.

YOUR ADVANTAGES AT A GLANCE

Maximum testing capability: Up to ten channels for advanced and multi-stage inspection setups.

Superior signal analysis: Fully digital processing with a wide frequency spectrum and patented demodulation.

Optimized for high throughput: Reliable, repeatable results even at very high line speeds.

Intuitive operation: High-resolution touchscreen with a clear, structured interface.

Robust for industrial use: IP52 protection and durable EMC-compliant housing.

Enhanced integration options: Expanded I/Os, networking, and automation interfaces.

Transparent data handling: Real-time visualization, XML export, optional SQL connectivity, and EDDYTREND support.

Service-friendly design: Modular construction enabling fast component replacement and low downtime.

TECHNICAL INFORMATION

TESTING ARCHITECTURE	Up to 10 channels and 6 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 with multiple mask types and alarm levels
APPLICATION RANGE	Tubes, bars, wires, strips, profiles; suitable for all conductive materials
DATA MANAGEMENT	XML export, optional SQL interface; supports EDDYTREND signal analysis
CONNECTIVITY	16 inputs / 16 outputs (24 V), USB ports, encoder input, Ethernet
USER INTERFACE	15" touchscreen, intuitive navigation, multilingual interface
INDUSTRIAL DESIGN	IP52 housing, EMC-compliant construction; -10 °C to +40 °C operation
DIMENSIONS / WEIGHT	461.6 × 444 × 556 mm; up to 40 kg
POWER SUPPLY	100 – 240 V; up to 400 VA
STORAGE	128 GB SSD

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