

MARPOSS

EDC HVT

IN-LINE
HIGH VOLTAGE
TESTING FOR
MAGNET WIRE





RELIABLE INSULATION TESTING. DIRECTLY IN YOUR PRODUCTION LINE

Insulation defects in magnet wire are often invisible — until they cause failure in the final application.

HVT detects these defects in real time, during production, classifying the spool quality downstream.

By applying a controlled high-voltage DC stress through dedicated contact systems (pulleys or brushes), the insulation is continuously verified. Any weakness is immediately detected, enabling fast and precise response.

ENGINEERED FOR INDUSTRIAL RELIABILITY

Built on EDC's experience in electrical testing systems for motors and stators, HVT is designed for stable, repeatable and noise-immune operation in real production environments.

- ▶ DC high-voltage testing for maximum robustness
- ▶ Reliable detection of micro-defects in enamel insulation
- ▶ Stable performance at production speed
- ▶ Designed for continuous operation in harsh environments

Engineered for production from day one.

REAL-TIME CONTROL OF YOUR PROCESS

- ▶ Immediate defect detection and signaling
- ▶ Encoder-based defect localization along the wire
- ▶ Full traceability along the entire production length

FLEXIBLE AND SCALABLE ARCHITECTURE

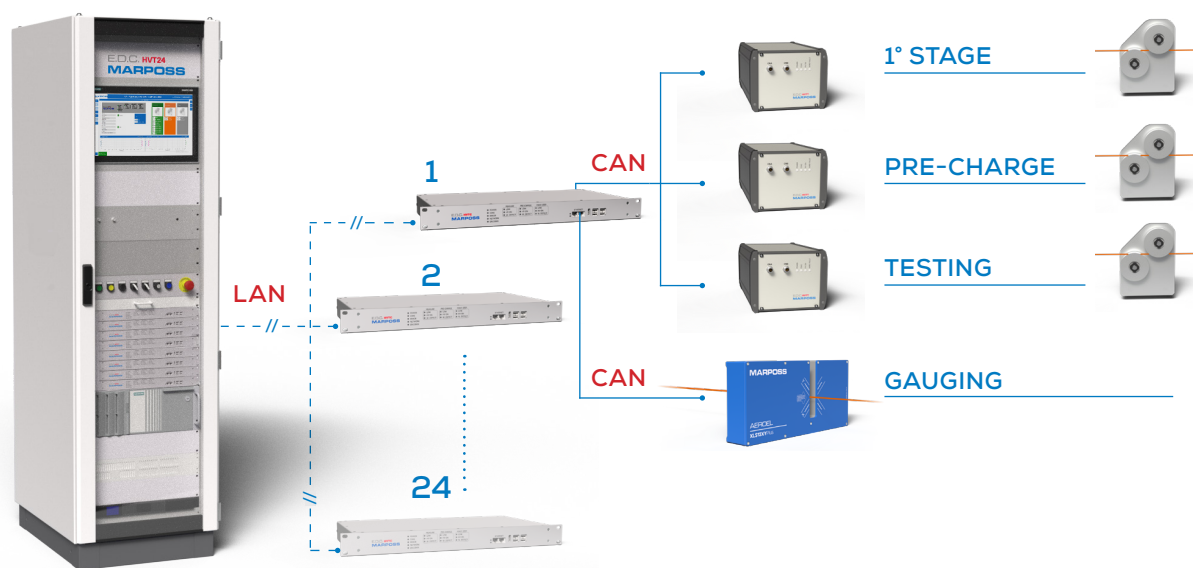
The HVT24 platform supports:

- ▶ Up to 24 independent production lines
- ▶ Up to 3 measuring heads per line (1 step, pre-charge and testing)
- ▶ Marposs Aeroel dimensional gauges, for complete test management and reporting

Compatible with round and rectangular wire, and with all insulation types.

KEY PERFORMANCE INDICATORS

- ▶ Test voltage: up to 12 kV DC
- ▶ Line speed: up to 1300 m/min



TECHNICAL SPECIFICATIONS

Max Wire Speed	1,300 m/min
Max Leakage Current	100 µA
Sampling Frequency	2,5KHz
Max Test Voltage	up to 12,000 V
Main Tests Performed	Pin Hole Detection, Weak Spot Detection
Post-Processing Features	Fault Classification, Spool Classification, Spooler Management
Contact System	Soft conductive brushes or pulleys