

ELOTEST \ M6

▷ Inspiring ▷ compact ▷ smart ▷ innovative ▷ ergonomic
The new world of Eddy current testing



ELOTEST M6

This innovation has come full circle in a historic sense.

The Rohmann success story started in 1977 with the portable rototest and now continues with the digital single hand test instrument ELOTEST M6. It impresses with its excellent signal quality and integrated C-scan function for array probes and rotor applications. It is the first hand-held instrument, which provides an analysis of the harmonic wave for testing metallic materials for changes in the microstructure, hardness and strength.



- ▶ 7", multi touch display, which can be operated with gloves
- ▶ Testing, documenting and reporting directly on site
- ▶ Recording of audio comments and text memos
- ▶ Flexibly markable testing timeline of the signal
- ▶ Replaceable probe adaptor for the use of external probes
- ▶ "RohmannAccessory Bus" sensor bus for connecting intelligent sensors, rotors and array probes
- ▶ C-Scan recorder for array probes and rotor applications
- ▶ 2 frequency operation with mixing functions
- ▶ Analysis of the harmonic wave for testing microstructure and material characteristics

The software – user-friendly, innovative, selectable in "Dark Mode" or "Light Mode"



ELOTEST M6 – Application examples



With the ELOTES M6, you hold the most innovative hand-held test instrument in its class in your hands. Whether it is used horizontally as a desktop device or vertically as a hand-held device, it offers complete flexibility in one instrument. Right-handed or left-handed – any personal habit of the user is considered.

The 7" touch screen provides you with a comprehensive and flexible overall view of your testing results. The multi touch is in step with the times and the test instrument can be operated in any situation.

The test instrument is, of course, equipped with reference standards. According to the testing requirements, reference parts can be exchanged for individual needs



ELOTES M6 – interchangeable reference parts in four versions.



With the ELOTES M6, you can test and generate reports directly on site.



Array probe scan on the aircraft hull.

Portable state-of-the-art Eddy Current testing with the ELOTES M6

128 SENSORS

Multiplex of 128 sensors max., for example with the latest array technology and with an external Mini-Mux integrated in the sensor. C-Scan display for array probes and rotor applications.

UP TO 8 HOURS

The powerful battery allows up to 8 hours of operation, giving you plenty of scope and application options.

7 INCHES

Touch display – can be operated intuitively, even when wearing work gloves. A test instrument that does not require any keys. User-friendly software. Can be directed vertically or horizontally for flexible applications. Can be operated with the right or with the left hand.

2 JOYSTICKS

2 joysticks as direct buttons individually – for screenshots, recording, balance, auto lift-off, signal clear, scroll up/down, or setting the parameter grid.

Technical Data **BASIC DEVICE ELOTEST M6 + M6 ADVANCE:**

EDDY CURRENTS

1 channel with 2 separate receiver for the operation of combined difference/absolute probes for distance compensation or the separate evaluation of the difference and the absolute probe in defect and grinding burn inspection.

- ▷ Frequency range: 10 Hz - 12.5 MHz
- ▷ Output voltage: 0 to +/- 10 Volt
- ▷ Output current: 200 mA
- ▷ Filtering range: 0 Hz - 100 kHz
- ▷ Amplification: -20 dB - 120 dB, no pre-amplifier required
- ▷ Threshold: Line, Band, Box, Circle, FlatCircle, 1 segment (4 thresholds can be displayed)
- ▷ Two parameter set multiplex (2 frequencies etc.)
- ▷ Sensor multiplexer control (external sensor Mux) for up to 128 sensors with two receivers, Mux rate up to 125 KHz (only ELOTEST M6 Advance)

CASING, SCREEN, ETC

- ▷ Full IP65 casing, also with open connectors
- ▷ Dimensions approx. 233 x 169 x 78 mm
- ▷ The desktop stand has two operation angles and has been optimized for curved and plane surfaces.
- ▷ Screen size: 7 inch High Brightness IPS display, resolution 1024 x 600 with LED background lighting 800 cd
- ▷ Capacitive touch surface
- ▷ Integrated position sensor for automatic display rotation
- ▷ Operating directions of the device: right-hander vertical format, left-hander vertical format and desktop horizontal format and hanging overhead
- ▷ Pure Weight: 1.39 kg
- ▷ Integrated microphone and speakers for VoiceMemo recordings
- ▷ Ambient light sensor for a longer battery life in dark environments

BATTERY PERFORMANCE

- ▷ Li-Ion standard battery, certified, no tool required for replacement
- ▷ Battery life up to 8 hours, depending on the application
- ▷ Battery weight: 330 gr
- ▷ Power unit for power supply and for charging the battery in the device at the same time
- ▷ OPTION: table charger unit for the battery
- ▷ *OPTION: belt pack for an additional battery for range extension or for reducing weight in hand-held operation (available from 2025)*

CONNECTIVITY

- ▷ Interchangeable sensor adapters for standard Rohmann cables, new Rohmann cables with ELOTEST Accessory Bus and BNC connection for parametric sensors. Adapters for third-party sensors are available on request
- ▷ IP65 power connection for table power unit and battery in a belt pouch
- ▷ Optional: Interface adapter for RJ45 Ethernet connection or IP65 Ethernet connection (Gigabit Ethernet)
- ▷ IP65 USB-C
- ▷ IP65 3.5 mm socket for headphones, headsets and microphones
- ▷ microSD card slot for saving settings and recordings
- ▷ Optional: Interface adapter with Nano USB Wifi/Bluetooth adapter
- ▷ *Web interface for displaying the user interface and for transferring settings and recordings to a PC connected via Ethernet or Wifi for documentation and training purposes (integrated from 2025)*

SOFTWARE CHARACTERISTICS

- ▷ Quick switch-over from one operating mode to another: defect recognition, rotor inspection, Hand probe, Array, Mix
- ▷ Strip chart display with zoom, offline signal modification and direct recording on a MicroSD card
- ▷ C-SCAN recorder for rotor applications and Array
- ▷ Waterfall chart for rotor applications
- ▷ Comment system with markers for all recorders: text marker, voice memo marker

ELOTEST M6 ADVANCE (ADDITIONAL FUNCTIONS)

- ▷ Array mode for sensor arrays with up to 128 sensors
- ▷ Sensor calibration for arrays
Array: selectable multiplex schemes
Modes:
 - Rotor with position detection
 - Advanced Defect/Rotor Advanced
 - Array Mix (integrated from 2025)
- ▷ C-SCAN operation for arrays
- ▷ Harmonic wave evaluation for sorting tasks
- ▷ Distance compensation

ACCESSORIES

- ▷ Peli Air Case, Art.-Nr. C0M09070112
- ▷ Bag, Art.-Nr. C0M09070116
- ▷ *Adjustable Padded Shoulder Strap (available from 2025)*

