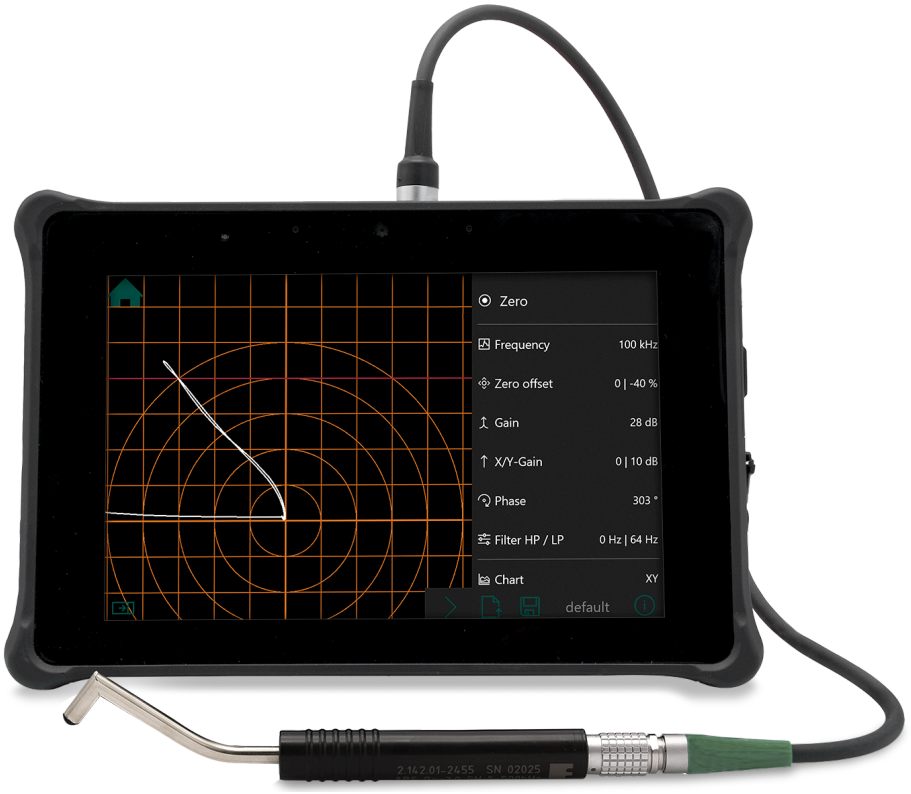
FOERSTER

TCM PRODUCT FAMILY

One mobile device for all eddy current testing tasks



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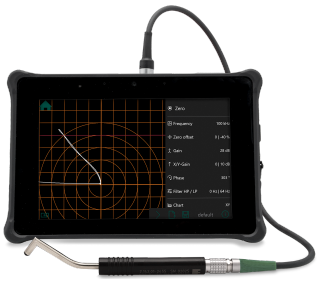


Quick to set up. Easy to use. Precise results. The TCM is a modular eddy current testing device that combines multiple inspection and measurement applications in a single rugged system. Instead of using dedicated instruments for individual tasks, users simply select the required app directly on the TCM and adapt the device to their application. Individual app modules are available separately or in combination and can be expanded at any time with additional software modules and free software updates, ensuring the system grows with your inspection requirements.

The DEFECTOSCOP App enables universal eddy current testing with rotating, high-frequency and low-frequency probes for crack detection and residual wall thickness measurement. For precise electrical conductivity measurements of non-ferromagnetic metals, the SIGMATEST App builds on FOERSTER's decades of expertise in conductivity testing. High-resolution eddy current array inspections of large areas with up to 512 channels can be performed efficiently using the ECA App. The ECMEASURE App completes the range with trainable, application-specific measurements based on reference samples, such as coating thickness, ferrite content or residual wall thickness.

Thanks to its modular software architecture, the TCM supports a wide range of inspection and measurement tasks across numerous industries – from conductivity measurement on aircraft structures and material verification to crack detection on rails, bridges and safety-critical components, as well as high-resolution surface inspection.

All applications run on the same TCM hardware with a consistent user interface and data concept for a short learning curve and intuitive operation. Windows 10 LTSC enables seamless IT integration as well as external displays, docking stations, remote support and familiar Windows workflows for inspection, data review and collaboration.

Free software updates continuously expand the TCM with new features and applications – without additional software costs. Combined with FOERSTER's proven eddy current expertise and global service network, the TCM is a future-proof solution for flexible mobile testing.

YOUR ADVANTAGES AT A GLANCE

One device – multiple applications: Eddy current testing, conductivity measurement, Eddy Current Array inspection and trainable measurements on a single mobile device

Inline-level signal quality: Proven eddy current technology for reliable, reproducible results and outstanding signal quality

Intuitive operation: App-based software, automatic probe recognition and role-based user management for fast setup and safe, reproducible inspections

Maximum flexibility: Supports FOERSTER and third-party probes and expands with additional apps and free software updates

Professional reporting: Save raw data, screenshots and inspection results and automatically generate Word or PDF reports using standard or customized templates

Windows-based connectivity: Windows 10 LTSC for seamless IT integration, remote support, external displays and familiar Windows workflows

NORMS

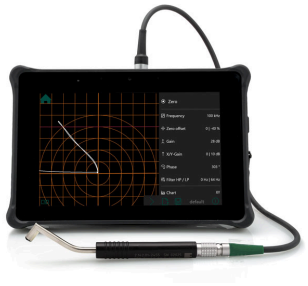
DIN EN ISO 15548: Standard defining performance characteristics and verification of eddy current testing instruments to ensure reliable and reproducible measurements.

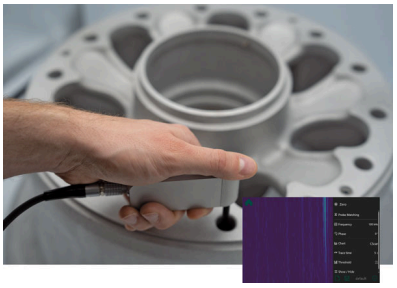
TECHNICAL INFORMATION

DISPLAY:	— 8.0" touchscreen — 1280 × 800 px — 800 nits — sunlight readable — operation with finger or gloves
PROTECTION:	Designed for IP 66, drop-resistant from 1.5 m
WEIGHT:	1.3 kg
DIMENSION:	227 mm × 150 mm × 51 mm (L × W × H)
OPERATING TEMPERATURE:	-20 °C to +50 °C
BATTERY:	Up to 6 hours operating time
CAMERA:	— Back camera with 8.0 MP — front camera with 2.0 MP
STORAGE:	128 GB SSD
OPERATING SYSTEM:	Windows 10 LTSC
CONNECTION PORTS:	— 19-pin LEMO — Thunderbolt™ 4 — USB 3.2 Gen2 (USB-C) — microSD reader
AUDIO:	Audio in/out (combo jack)
DOCUMENTATION:	Export raw data, screenshots and inspection reports (Word & PDF)
EMBEDDED HELP:	Context-sensitive help for every setup and dialog to support fast commissioning and safe operation
LANGUAGES:	English, German, Spanish, Japanese, Chinese, Czech, Italian, French

DEFECTOSCOP TCM

Universal eddy current testing with rotating, HF and LF probes





Conventional eddy current testing in impedance plane view. The DEFECTOSCOP App transforms the TCM into a powerful universal eddy current testing system for a wide variety of inspection tasks. Supporting rotating, high-frequency and low-frequency probes, it combines proven FOERSTER eddy current technology with the flexibility of a modern app-based platform.

Measurement data is displayed in the impedance plane and can be individually configured to suit the inspection task. In Expert Mode, users can customize parameters, create application-specific test programs and define favorites for even faster setup. Switching back to Operator Mode protects validated settings against unintended changes, ensuring consistent inspection results while simplifying daily operation.

For demanding inspection tasks, the DEFECTOSCOP App supports multi-frequency inspection with up to eight frequencies running in parallel. This enables inspections at different eddy current penetration depths in a single pass or optimized interference suppression through frequency mixing. Integrated Lift-Off Compensation minimizes the influence of varying probe lift-off, improving signal stability and ensuring reliable, reproducible inspection results even under changing inspection conditions.

Signals from rotating probes or rotating components can be displayed directly as high-resolution C-scans, enabling intuitive defect evaluation, precise localization and complete documentation. Freeze Mode allows captured eddy current signals to be analyzed afterwards by adjusting parameters such as gain, phase or filter settings without repeating the inspection. Raw signal data can also be recorded and exported for detailed offline analysis on a workstation.

YOUR ADVANTAGES AT A GLANCE

Universal eddy current testing: Supports rotating, high-frequency and low-frequency probes for a wide range of inspection applications.

Reliable inspection results: Integrated Lift-Off Compensation reduces the influence of varying probe lift-off for improved signal stability and reproducibility.

Multi-frequency inspection: Up to eight parallel frequencies enable testing at different penetration depths or optimized interference suppression through frequency mixing.

High-resolution C-scan visualization: Display signals from rotating probes directly as detailed C-scans for intuitive defect evaluation and localization.

Flexible probe compatibility: Supports parametric, transformer, bridge and other FOERSTER or adapted third-party probes.

Expert and Operator Mode: Role-based operation protects validated settings while enabling advanced configuration when required.

Freeze Mode: Freeze recorded signals and optimize parameters such as gain, phase and filters without repeating the inspection.

Comprehensive documentation: Record raw signal data, C-scans and inspection results for complete traceability and offline analysis.

TECHNICAL INFORMATION

FREQUENCY RANGE:	4 Hz – 20 MHz adjustable in 1 Hz steps
MULTI FREQUENCY:	Up to 8 frequencies in parallelMix two frequencies
MAX OUTPUT CURRENT:	400 mA (peak)
CHARTS:	x/y, t, x/y + t, C-scan
THRESHOLDS:	Lines, circle, box, sector
FREEZE MODE:	Freeze your signal and adjust parameters like gain and phase

ACCESSORIES

STANDARD TCM ARRAY PROBES
Versatile Eddy Current Array Probes for Efficient Surface Inspection

TCM STANDARD PROBES
Flexible probe solutions for precise eddy current inspection with the TCM

TCM POSITION ENCODER
Precise Position Tracking for Flexible Eddy Current Inspections

REFERENCE CRACK STANDARD - FLAT (PLATE)
Artificial crack defect standard for setting and verifying test sensitivity

REFERENCE DEFECT STANDARDS - BOREHOLE
Reference defects for calibration of inspection systems using rotating probes

RECALIBRATION OF MOBILE PRODUCTS
Recalibration guarantees the accuracy and quality of your test and measurement values

SIGMATEST PROBES
Flexible conductivity probes for precise testing of non-ferromagnetic metals

HRO HAND ROTATING UNIT
High-resolution borehole inspection with rotating eddy current probes

TCM DOCKING STATION
From mobile inspection device to full workstation setup

TCM SHOULDER STRAP
For comfortable hands-free operation of the TCM during mobile inspection tasks

TCM SPARE BATTERY
Extend the operating time of your TCM and stay productive even during long inspection workflows.

DEFECTOMETER M PROBES
Flexible Probe Solutions for Mobile Eddy Current Testing

SIGMATEST TCM

Electrical conductivity measurement of non-ferromagnetic metals

Precise and reliable conductivity measurement. Conductivity measurement determines physical and technical material properties. Ideal for quality control on manufactured products, the SIGMATEST TCM is also useful for testing material compositions and sorting metals, alloys and scrap. Further applications include the detection of heat damage during aircraft maintenance, as well as process control in production in the metals industry.

The SIGMATEST TCM module is used with special conductivity probes that are calibrated to traceable conductivity standards (PTB/NIST or NPL) at 20°C in the FOERSTER calibration laboratory. The calibration data are stored on the sensor and retrieved by the TCM. This enables exact conductivity measurements.

A single measurement is triggered by touch. If a scan of the surface is required, measured values can be output continuously and displayed in a time diagram.

YOUR ADVANTAGES AT A GLANCE

Wide frequency range: allows for measurement of different material thicknesses

Shielded probes: help avoid edge effects

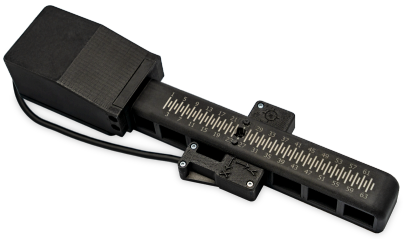
Reduced wear: specially designed probes with durable titanium protection ensure long service life

Easy handling: automatic recognition of the probes and loading of the correct calibration curves

TECHNICAL INFORMATION

FREQUENCY:	60, 120, 240, 480, 960 kHz
ACCURACY:	+/- 0.7% of measured value at 60 kHz, 14 mm probe
RESOLUTION:	+/- 0.1% of measured value
RANGE:	0.5 to 65 MS/m (1-112% IACS)

ACCESSORIES



STANDARD TCM ARRAY PROBES
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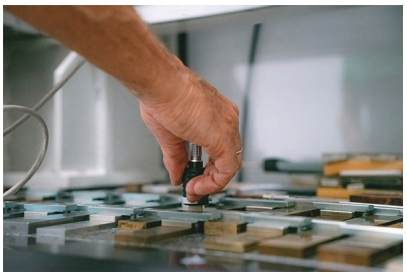
Flexible probe solutions for precise eddy current inspection with the TCM

REFERENCE STANDARD CONDUCTIVITY MEASUREMENT
Reference standards for checking and setting up conductivity measurement

SIGMATEST PROBES
Flexible conductivity probes for precise testing of non-ferromagnetic metals



RECALIBRATION OF MOBILE PRODUCTS
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HRO HAND ROTATING UNIT
High-resolution borehole inspection with rotating eddy current probes

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ECA TCM

Eddy current testing with sensor arrays for large-area inspection

Eddy current testing with sensor arrays. When the areas to be scanned are large, conventional eddy current inspection can be very time-consuming. Plus, there's the risk that manual probe guidance will leave some areas uninspected. The ECA module makes it possible to run both large-area and shape-matched array probes. This permits large areas to be scanned both quickly and comprehensively.

Array probes consist of several individual sensors arranged in a row inside a housing, for example. Connecting multiple sensors together in this way allows a larger area to be scanned at the resolution of each individual sensor.

YOUR ADVANTAGES AT A GLANCE

Large-area testing: with arrays of up to 512 probe elements in parallel

Easy handling: automatic detection of probes and setting of relevant hardware parameters

Localization of defects: spatially resolved eddy current data for positionally accurate defect detection

Enhanced visualization: C-scan data now available in 3D view for improved defect assessment and interpretation

100% documentation: eddy current images can be saved as PNG or PDF

ACCESSORIES

STANDARD TCM ARRAY PROBES
Versatile Eddy Current Array Probes for Efficient Surface Inspection

HIGH-RESOLUTION ARRAY PROBE
High-resolution Eddy Current Array probe for the precise detection and localization of the smallest surface defects

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ECMEASURE TCM

Trainable eddy current measurements for application-specific inspection tasks

Trainable eddy current measurement for application-specific inspection tasks. The ECMEASURE TCM module enables application-specific eddy current measurements based on reference samples. Instead of relying on predefined calibration functions, the system learns from known reference values and automatically generates the correlation curve from real eddy current signals. This allows users to implement customized measurement tasks quickly and directly on the device.

Typical applications include coating thickness measurement, residual wall thickness determination or ferrite content analysis. Because the evaluation is based on trained reference samples and real measurement signals, reliable and repeatable results can be achieved even for demanding inspection tasks.

The setup follows a structured workflow. First, the inspection task is configured in the DEFECTOSCOP App to determine the optimal test parameters such as frequency, gain and signal characteristics. Afterwards, the measurement task is defined in ECMEASURE by selecting the signal type and the desired unit. The system is then trained using reference samples with known values. Based on these reference measurements, the TCM automatically calculates the correlation curve used for the final evaluation.

YOUR ADVANTAGES AT A GLANCE

Trainable measurement system: Generates application-specific correlation curves directly from reference samples.

Flexible eddy current measurement applications: Suitable for coating thickness, residual wall thickness, ferrite content and other customized inspection tasks.

Simple configuration and training workflow: Measurement setup and system training are performed directly on the TCM – no programming required.

Reliable and repeatable measurement results: Evaluation is based on real eddy current signals and trained reference values.

Fully integrated into the TCM platform: Uses the same hardware, user interface and workflow as other TCM inspection applications.

ACCESSORIES

STANDARD TCM ARRAY PROBES
Versatile Eddy Current Array Probes for Efficient Surface Inspection

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TCM STANDARD PROBES

Flexible probe solutions for precise eddy current inspection with the TCM

Flexible for every inspection task. Selecting the appropriate probe is essential for achieving reliable results in eddy current testing. For use with the TCM testing system, FOERSTER offers a comprehensive portfolio of standard probes as well as customer-specific sensor geometries that can be optimally adapted to a wide range of inspection tasks.

Depending on the application, different probe elements with specific characteristics are available.

- Absolute probes (ABS) operate independently of orientation and are particularly suitable for applications requiring high sensitivity to material variations.
- Differential probes (DIFF) are direction-sensitive and significantly reduce the influence of the base material. They are ideally suited for detecting local defect structures but are insensitive to longitudinal defects.
- Cross-coil probes also enable direction-sensitive inspection with low material influence and are insensitive to defect orientations of approximately 45°.

These probe elements can be integrated into a wide variety of probe designs, allowing optimal adaptation to the respective inspection position. In addition to a broad selection of standard probe configurations, FOERSTER also develops customer-specific solutions to ensure reliable inspection even in difficult-to-access areas. Depending on the inspection requirements, probes can be equipped with integrated guidance elements or wear protection solutions, for example made of titanium.

Furthermore, all probe elements can be implemented as array probes with up to 512 integrated sensor elements. This enables efficient coverage of larger inspection areas and allows complex inspection tasks to be performed faster and with increased precision.

Typical application areas of TCM probes range from high-resolution crack detection to residual wall thickness measurement and reliable weld inspection.

YOUR ADVANTAGES AT A GLANCE

Suitable probe solutions: Suitable probe solutions for a wide range of inspection tasks with the TCM

Reliable flaw detection: Reliable detection of cracks, residual wall reduction, and weld defects

Custom sensor geometrics: Customer-specific sensor geometries for complex component geometries and difficult-to-access inspection areas

High process reliability: High process reliability through stable and reproducible measurement results

Long service life: Long service life through optionally integrated wear protection

Flexible integration: Flexible integration thanks to compatibility with FOERSTER systems and third-party instruments

TECHNICAL INFORMATION

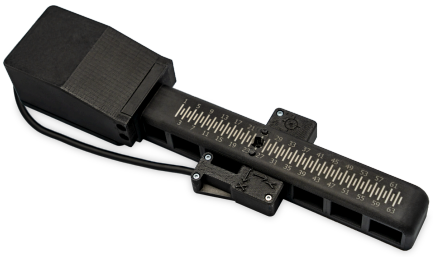
PROBE TECHNOLOGIES:	— Absolute probes (ABS) — Differential probes (DIFF) — Cross-coil probes
PROBE TYPES:	— Pencil probe — Residual wall probe — Low-frequency probe — Weld probe
FREQUENCY RANGE:	Approx. 0.5 kHz to 3 MHz depending on probe type
TRACK WIDTH:	Typically approx. 0.5 mm to 8 mm, application-dependent
PROBE DIAMETER:	Typically approx. 2.5 mm to 7 mm
PROBE DESIGNS:	Straight and angled versions available (e.g. 30° / 90°)
SENSOR GEOMETRIES:	Standardized probe designs as well as customer-specific geometries available
WEAR PROTECTION:	Optional integration possible, e.g. titanium protection caps
GUIDANCE ELEMENTS:	Optional integration for improved probe guidance during inspection
COMPATIBILITY:	Suitable for use with FOERSTER TCM and compatible third-party instruments
TYPICAL INSPECTION TASKS:	Crack detection, residual wall thickness measurement, weld inspection

ACCESSORIES

TCM POSITION ENCODER
Precise Position Tracking for Flexible Eddy Current Inspections

STANDARD TCM ARRAY PROBES

Versatile Eddy Current Array Probes for Efficient Surface Inspection



Large-area testing with position accuracy. The array probes extend the TCM platform with powerful Eddy Current Array (ECA) technology for efficient inspection of surfaces and near-surface areas. By combining multiple sensor elements in compact probe designs, large inspection areas can be covered quickly and efficiently while providing precise positional mapping of inspection data.

The portfolio spans a wide range of probe characteristics – from highly flexible array probes that adapt to complex geometries and very small radii, to semi-flexible designs for demanding inspection geometries, and low-frequency variants optimized for residual wall thickness measurement.

Direction-independent defect detection is available across the range, enabling reliable crack detection regardless of defect orientation.

For applications requiring exceptionally high spatial resolution, a dedicated High-Resolution Array Probe is available, enabling highly precise detection of the smallest surface defects in critical inspection areas.

When used in combination with the TCM platform, array probes benefit from intuitive app-based operation, automatic probe recognition, and seamless integration into digital inspection workflows.

YOUR ADVANTAGES AT A GLANCE

One array probe portfolio – wide application range: Flexible, semi-flexible, high-resolution, and low-frequency probes for crack detection and residual wall thickness testing.

Direction-independent defect detection: Reliable results regardless of defect orientation.

The right balance of flexibility and resolution: Optimized probe designs for different geometries, frequencies, and sensitivity requirements.

Efficient large-area inspection: Fast coverage combined with high spatial resolution and precise position assignment.

Seamless TCM integration: Automatic probe recognition, intuitive app-based operation, and full C-scan documentation (PNG / PDF / CSV).

TECHNICAL INFORMATION

FREQUENCY RANGE:	0.1 – 3 MHz | 10 – 1000 kHz | 0.5 – 30 kHz
PROBE TRACK WIDTH:	2.2 mm | 1.4 mm | 4.6 mm
ARRAY INSPECTION LENGTH:	140 mm | 89 mm | 110 mm
NUMBER OF ELEMENTS (STANDARD CONFIGURATION*):	64 | 64 | 24

*Customized array probe solutions with up to 512 parallel elements, as well as application-specific shapes and lengths, are available on request.

ACCESSORIES

TCM POSITION ENCODER
Precise Position Tracking for Flexible Eddy Current Inspections

HIGH-RESOLUTION ARRAY PROBE

High-resolution Eddy Current Array probe for the precise detection and localization of the smallest surface defects

Finest Defects. Maximum Resolution. The High Resolution Array Probe expands the mobile eddy current device TCM with a powerful solution for applications that demand maximum resolution and precise defect localization. Featuring 64 sensor elements with a track width of just 0.6 mm, the probe delivers highly detailed inspection data and reliably reveals even the smallest surface defects.

The probe is particularly suited for inspections of borehole areas and other localized inspection zones where maximum spatial resolution is required. Its high-resolution sensor design enables precise evaluation of indications and supports the detection of defects that are difficult to identify using conventional array solutions. At the same time, the large scan width ensures efficient inspection of larger surface areas.

An integrated optical encoder provides accurate position tracking of inspection data and operates reliably on a wide variety of surfaces – from matte and dark to glossy finishes. In addition, the probe offers omnidirectional defect detection, allowing cracks and other defects to be identified regardless of their orientation.

Combined with the TCM ECA App, users benefit from automatic probe recognition, intuitive operation and comprehensive digital C-scan documentation. The result is a powerful and mobile inspection solution for demanding Eddy Current Array applications.

YOUR ADVANTAGES AT A GLANCE

Maximum Resolution: 64 sensor elements with a track width of only 0.6 mm enable highly detailed defect detection and precise localization.

New Inspection Capabilities: The high spatial resolution reveals even the smallest surface defects and opens up inspection possibilities for areas that were previously difficult to assess.

Omnidirectional Defect Detection: Defects are reliably detected and evaluated regardless of their orientation.

Precise Position Tracking: The integrated optical encoder ensures accurate positioning of indications and reliable operation on a wide range of surface finishes.

Efficient Area Coverage: High resolution combined with a large scan width enables fast inspection of larger surfaces.

Seamless TCM Integration: Automatic probe recognition, intuitive operation and comprehensive C-scan documentation ensure efficient inspection workflows.

TECHNICAL INFORMATION

FREQUENCY RANGE:	0.1 – 5 MHz
PROBE TRACK WIDTH:	0.6 mm
ARRAY INSPECTION LENGTH:	40 mm
NUMBER OF ELEMENTS:	64

HRO HAND ROTATING UNIT

High-resolution borehole inspection with rotating eddy current probes

Reliable detection of cracks and defects in boreholes. The FOERSTER HRO Hand Rotating Unit is a compact inspection tool for manual non-destructive testing of boreholes using rotating eddy current probes. It mechanically drives the probe while reliably transmitting sensor signals to the connected testing instrument.

By rotating the probe at a constant speed, the HRO uniformly scans the entire borehole circumference, enabling high inspection sensitivity and reproducible detection of even very small cracks and material discontinuities. Using standard probe elements, flaws as small as 0.1 mm in depth can be reliably detected. Flaws with an extension of ≥ 1 mm cannot be overlooked when the instrument is properly calibrated and operated by trained personnel.

Adjustable rotation speeds from 630 to 3000 rpm allow the inspection to be adapted to different probe types, bore diameters and inspection requirements. In addition to FOERSTER rotating probes, probes from other manufacturers can also be adapted.

Compact, lightweight and robust, the HRO is designed for mobile inspection in demanding industrial environments and is particularly suitable for maintenance and component inspection in aerospace, power generation and automotive applications.

In combination with the TCM DEFECTOSCOP app, inspection data can be visualized in C-scan view, T-diagram and impedance plane display. Together with the TCM platform, the HRO provides a powerful and flexible solution for manual high-resolution borehole inspection.

YOUR ADVANTAGES AT A GLANCE

Reliable borehole inspection: Rotating eddy current probes enable complete circumferential scanning for dependable detection of cracks and material discontinuities.

High inspection performance: Adjustable rotation speeds from 630 to 3000 rpm allow optimal adaptation to different probes and inspection requirements.

High inspection sensitivity: Flaws as small as 0.1 mm in depth can be reliably detected using standard probe elements.

Constant rotational speed: Ensures stable signal quality and reproducible inspection results.

Flexible probe compatibility: Compatible with FOERSTER rotating probes as well as probes from other manufacturers.

Advanced visualization options: Inspection data can be displayed as C-scan, T-diagram or impedance plane using the TCM DEFECTOSCOP app.

Compact and robust design: Lightweight construction and industrial-grade housing enable comfortable use in demanding environments.

TECHNICAL INFORMATION

ROTATION SPEED:	630 – 3000 rpm
FREQUENCY RANGE:	30 kHz – 5 MHz
POWER SUPPLY:	5 – 24 V
DIMENSIONS:	38.1 × 88.5 × 26 mm
WEIGHT:	0.15 kg
OPERATING TEMPERATURE:	0 °C to +50 °C
MAX. RELATIVE HUMIDITY:	80% at 20 °C ambient temperature
PROTECTION CLASS:	IP54

ACCESSORIES

STANDARD ROTATING PROBES
High-resolution eddy current rotating probes for manual borehole inspection with the HRO hand rotating unit

REFERENCE DEFECT STANDARDS - BOREHOLE
Reference defects for calibration of inspection systems using rotating probes

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.

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