TECHNICAL BROCHURE

AUTOMATIC THICKNESS TESTER

model ME-21.ng



Thickness is a fundamental property for the specification, quality control, and performance of papers, paperboards, tissue, and corrugated board. It directly influences characteristics such as mechanical strength, processability, and performance during converting stages.

The ME-21.ng was designed to perform thickness testing with high accuracy and reliability, complying with the main international technical standards. Equipped with an intuitive touchscreen interface and automatic measurement features, the equipment minimizes operator influence and ensures repeatable and reproducible results.

KEY FEATURES

- **Robust construction designed for long-term reliability**, ensuring consistent performance in laboratory and industrial environments.
- **Application-driven equipment and software development,** ensuring maximum accuracy with a user-friendly and intuitive interface.
- **10.1" touchscreen display** providing clear and immediate visualization of results.
- **Sample presence sensor** that speeds up test execution.
- **USB-C port and built-in thermal printer** for immediate and convenient export or printing of results.
- **Regmed equipment:** a global reference for over 65 years in laboratory solutions for physical testing of pulp, paper, and packaging materials.

MAIN APPLICATIONS

- Evaluation of paper uniformity
- Dimensional stability control in papers used for printing and converting
- Verification of corrugated board structure to ensure compression strength in packaging
- Evaluation of variations in paper and paperboard machines (forming, pressing, and drying)
- Verification of dimensional compliance between production batches and customer technical specifications

TECHNICAL STANDARDS

- ISO 534 - *for paper and paperboard testing*
- TAPPI T-411 - *for paper, paperboard, and corrugated board testing*
- ASTM D645 - *for paper, paperboard, and corrugated board testing*
- ISO 12625/3 - *for tissue paper testing*
- ISO 3034 - *for corrugated board testing*

Brochure covering the paper, paperboard, tissue, and corrugated board versions. The ME-21.ng is also available in a plastic film testing version.

** Due to continuous development, this equipment is subject to change without prior notice.*

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DIMENSIONS



SPECIFICATIONS

Measuring range	(0 a 10.000) mm			
Resolution	0.001 mm			
Test units	mm / µm / in / mil			
Equipment version	Paper and board	Paper, board, and corrugated board	Tissue paper (sanitary)	Corrugated board
Applicable technical standards	• ISO 534	• TAPPI T-411 • ASTM D645	• ISO 12625/3	• ISO 3034
Pressure	(100 ± 10) kPa	(50 ± 2) kPa	(2.00 ± 0.04) kPa	(20.0 ± 0.5) kPa
Contact area	(2.00 ± 0.05) cm^2	(2.00 ± 0.05) cm^2	(10.00 ± 0.2) cm^2	(10.00 ± 0.2) cm^2
Descent speed	< 3 mm/s	0.8 mm/s	2 mm/s	2 mm/s
Contact time	(2 a 5)s	(3 ± 1)s	5s	3s
Power supply	220 VAC, 50/60 Hz, single or two-phase, 200 W			
Peso	19 kg			

Features multilingual software (English, Spanish, and Portuguese), USB-C serial output for data transfer, built-in thermal printer, memory storage for the last 500 test reports, and search function by date, user, or product.

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ADDITIONAL IMAGES



10.1" touchscreen display

Intuitive interface that simplifies operation, speeds up test setup, and provides clear and immediate visualization of results.



Presence sensor

Sample presence sensor that speeds up test execution and prevents incorrect activation.



USB-C output

Modern connection that simplifies data export, allowing test results to be processed and analyzed using data analysis software.



Built-in thermal printer

Allows immediate printing of results, facilitating record keeping, traceability, and laboratory documentation.

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