



TABLET COMBINATION TESTER EASYCHECK

**EASY AND FULLY AUTOMATIC TESTING
FOR UP TO 5 PARAMETERS**

FULLY AUTOMATIC HARDNESS TESTING

AS EASY AS NEVER BEFORE

The EasyCheck is the new entry-level fully automated tablet combination tester that tests up to 5 parameters. The compact system is 100 % compliant with all common pharmacopoeias and excels, above all, through innovative design features and a clear focus on essentials: Its integrated weighing cell automatically weighs samples, the Oblong Slider® automatically brings evenly shaped oblongs into perfect alignment and the intuitive touch display allows storage of up to 100 products/methods.

Optionally, EasyCheck offers a test memory for up to 1 million test results directly on the unit, a 21 CFR Part 11 compliant Audit Trail Light feature and a data export function to CSV and XML format.

EasyCheck is your entry-level device for easy, fully automatic and highly precise testing for up to 5 parameters!

Integrated weight measurement

An integrated weighing cell automatically determines the tablet weight with maximum accuracy and attributes it to individual samples.

Integrated spirit level

The integrated spirit level is used for accurate alignment of the EasyCheck system on the laboratory workbench.

Acrylic cover

An acrylic cover protects the entire rotary magazine, excluding external effects on the test.





Oblong Slider®

The slider technology perfectly aligns evenly shaped oblongs for easy determination of width, length and tablet hardness.



Width measurement



Length measurement

Star-shaped rotary magazine

A star-shaped rotary magazine made of stainless steel and aluminium provides 20 test positions for samples and enables full visual inspection of the test processes at all times.

Touch display

The user-friendly colour touch display is highly intuitive to use, and provides storage capacity for up to 100 products/methods, along with powerful user management functionality.

Test memory, Audit Trail Light & data export

EasyCheck includes a test memory to accommodate up to 1 million test results and a 21 CFR Part 11 compliant Audit Trail Light feature for paperless reporting. A data export function for CSV- and XML-export is optional.

5 PARAMETERS



Weight



Thickness



Width



Diameter / Length



Hardness

BENEFITS OF THE 7" COLOUR TOUCH DISPLAY

- | Clearly arranged start screen providing access to stored products, measurements and a direct measurement function
- | Live display of the test result on screen
- | Extensive calibration and adjustment capabilities with extensive documentation
- | Red-yellow-green display for immediate recognition of the calibration status
- | Memory capacity for up to 100 products/methods
- | USB A/B interfaces for printer, software update and external keyboard
- | LAN interface (RJ 45) for integration into corporate network and data export in CSV and XML format
- | SD card for backup and transfer of product data, methods or settings to other units
- | Memory for up to 1 million test results
- | 21 CFR part 11 compliant
- | Data export in CSV and XML format

INTUITIVE OPERATION

BROAD FEATURE SET

EASYCHECK TOUCH DISPLAY

In the development of the EasyCheck touch display we focused on the features which users find most important: Easy setup, start and documentation of test methods. The highly intuitive touch display enables the units complex functions to be operated and controlled with maximum ease of operation. Measurements can be launched and displayed quickly and easily. For convenient data input (e.g. in order to create new products) the unit now also offers support for USB keyboards – which significantly facilitates data management directly from the device itself.

The screenshot shows the ERWEKA EasyCheck touch display interface. At the top, it displays the date and time (07.05.2015 11:43) and the ERWEKA logo. Below this is a 'Result values' section with a table containing 7 rows of test data. The table has columns for 'No.', 'Weight', 'Thickness', 'Diameter', and 'Hardness'. The data is as follows:

No.	Weight	Thickness	Diameter	Hardness
1	219.4 mg	3.67 mm	6.00 mm	70 N
2	219.1 mg	3.59 mm	6.00 mm	71 N
3	220.6 mg	3.62 mm	6.00 mm	73 N
4	219.6 mg	3.64 mm	6.00 mm	72 N
5	219.4 mg	3.61 mm	6.00 mm	74 N
6	218.3 mg	3.61 mm	6.00 mm	73 N
7	220.2 mg	3.62 mm	6.00 mm	70 N

STORAGE OF TEST RESULTS!

By default, the unit stores 100 products/methods and has a product memory that can hold up to 1 million test results – enabling results from earlier tests to be recalled whenever required.

In addition, extensive integrated calibration functions and the Audit Trail Light feature (logging What, Who, When) ensures that you have access to precise test results and extensive documentation of all working steps - highest user convenience combined with powerful functionality.

EASY NETWORKING

USER-FRIENDLY SOFTWARE



AUTOCAL 2.0

The certified AutoCal 2.0 system is an electrical device for calibrating the EasyChecks integrated tablet hardness measuring system. Not requiring any measurement weights, AutoCal 2.0 is simply connected to the EasyCheck's USB port and ensures the adjustment/calibration of the hardness tester either in conjunction with the MC.NET software or the calibration function integrated into the touch display.

MC.NET TABLET HARDNESS SOFTWARE

MC.NET is the perfect addition to our tablet hardness testers. The Windows-based software allows external control of the tablet hardness testers and storage of unlimited test results to a SQL data base, along with comprehensive user management and the creation of a 21 CFR Part 11 compliant Audit Trail Light.

Features exclusive to MC.NET

- | Hardness curve



AutoCal 2.0 for automatic adjustment/calibration of the tablet hardness measuring system.

RELIABLE MEASUREMENTS

INNOVATIVE FEATURES & FUNCTIONS

MEASUREMENT FUNCTIONS

- | Fully automatic testing for 4 or 5 tablet parameters
- | 100 % USP/EPJP compliant
- | Selectable hardness measurement modes constant speed or constant force increase
- | Measurement in Newton, Strong Cobb or kp
- | Values adjustable in mm, inch, mg or g

TECHNICAL DATA:

Measurement range: Hardness	3 - 500 N (± 1 N) (optional 3 - 1000 N)
Measurement range: Diameter/Length	2 - 26 mm (± 0.05 mm)
Measurement range: Thickness	Linear potentiometer 2 - 10 mm (± 0.05 mm)
Measurement range: Weight	Integrated Sartorius weighing cell 15,0 mg - 89 g (± 0.0001 g)
Measurement range: Width	2 - 10 mm (± 0.05 mm)
Measurement principle: constant speed	0.05 - 3.00 mm/sec
Measurement principle: constant force	10 - 100 N/sec
Device control	7 inch touch display, with support for USB keyboards
Interfaces	USB A for printer, USB B for PC, LAN (Ethernet - RJ45), SD-card slot
Power supply	100 - 240 V / 50-60 hz / 150 W
Weight	30 kg
Dimensions (W x H x D)	360 mm (422 mm with collection container) / 321 mm (bzw. 646 mm with open acrylic cover) / 467 mm

FEATURES

- | Colour touch display
- | Star-shaped rotary magazine for 20 samples (100 samples sequentially in one test run), providing full visual control over the test process
- | Precise weight measurement with integrated load cell
- | Oblong Slider® - new slider technology for perfect alignment of evenly shaped oblongs at the width, length and hardness measurement station (EasyCheck Pro only)
- | Acrylic cover to protect measuring stations and samples
- | Easy removal of rotary magazine for cleaning
- | Collection container with splash guard
- | Optional connection to MC.NET software, 21 CFR part 11 compliant



CUSTOMER-ORIENTED

FLEXIBLE CONFIGURATION

CONFIGURATION VARIANTS

	EasyCheck Basic	EasyCheck Pro
Main application	Round tablets, evenly shaped oblongs	Round tablets, evenly shaped oblongs
Measurement values	4 parameters Weight, thickness, diameter, hardness	5 parameters Weight, thickness, diameter/length, width, hardness
Touch display	✓	✓
Oblong Slider®	—	✓
Memory for up to 1 million test results	✓	✓
Audit trail light (21 CFR Part 11 compliant)	✓	✓
Data export in CSV and XML format	optional	optional

EasyCheck is offered in two configuration variants: „Basic“ and „Pro“. Both variants are fully focused on our customers' requirements. EasyCheck Basic enables testing of round tablets, determining the weight, thickness, diameter and hardness of the tablets and attributing these values to a specific tablet. EasyCheck Pro is suitable for testing round tablets as well as evenly shaped oblongs, additionally offering the capability to measure length. Our sales team will be pleased to discuss the configuration best suited to your laboratory.

CUSTOMIZABLE TO SUIT YOUR REQUIREMENTS

In addition to the two equipment variants described above, your EasyCheck can be adapted to your specific requirements. Our products are backed by a full range of installation, calibration and qualification services – ERWEKA standards right up to your doorstep.

Options

- | 1000 N extended hardness measurement range
- | Result memory for up to 1 million test results
- | Data export in CSV and XML format
- | MC.NET software
- | PC with MC.NET tablet hardness software
- | Printer
- | AutoCal 2.0 system for automatic force calibration of the hardness tester without test weights
- | Customization of export data
- | Customized base plate with slot for stabilizing the position of oblongs in the tablet hardness chamber (only in conjunction with EasyCheck Basic)

Our service portfolio

- | Initial installation of EasyCheck
- | Installation of MC.NET software
- | Qualification documents (IQ/OQ/PQ)
- | ERWEKA IQ/OQ/PQ service on-site
- | Maintenance
- | User training for EasyCheck and MC.NET

ERWEKA

ERWEKA GmbH

Pittlerstraße 45
63225 Langen
Germany

Phone: +49 6103 92426-200

sales@erweka.com www.erweka.com

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