

Tablet combination tester

EasyCheck

Easy and fully automatic testing for up to 5 parameters



ERWEKA

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 pharmacopeias 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 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 spirit level

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

Integrated weight measurement



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

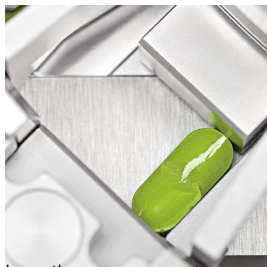
Oblong Slider®



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



Width measurement



Length measurement



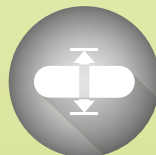
5 Parameters:



Weight



Thickness



Width



Diameter/Length



Tablet hardness



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.

Acrylic cover

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

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 & data export



EasyCheck can additionally be fitted with a test memory to accommodate up to 1 million test results, a 21 CFR Part 11 compliant audit trail feature for paperless reporting and a data export function for CSV- and XML-export.



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Result values

<u>Values</u>	<u>Statistics</u>	<u>Data</u>	<u>Print</u>	<u>Back</u>
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

Now with support for
USB keyboards!

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 unit's 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.

Optional storage of test results!

By default, the unit stores 100 products/methods and the last test result. As an optional extra, EasyCheck can be extended with a product memory that can hold up to 1 million test results – enabling results from earlier tests to be re-called whenever required.

In addition, extensive integrated calibration functions and an optional audit trail feature guarantee compliance with 21 CFR Part 11. This ensures that you have access to precise test results and extensive documentation of all working steps at all time - highest user convenience combined with powerful functionality.

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

Options for touch display

- Memory for up to 1 million test results
- Audit Trail (21 CFR Part 11 compliant)
- Data export in CSV und XML format

Easy networking – User-friendly software



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.

AutoCal 2.0

The certified AutoCal system is an electrical device for calibrating the EasyCheck's integrated tablet hardness measuring system. Not requiring any measurement weights, AutoCal 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.

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





The new Oblong Slider® with patented slider technology perfectly aligns tablets and oblongs.

Reliable measurements – Innovative features

All functions at a glance

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 kgf
- Values adjustable in mm, inch, mg or g
- Oblong Slider® - patented slider technology for perfect alignment of evenly shaped oblongs at the width, length and hardness measurement stations (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

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

EasyCheck: Customer-oriented, flexible configuration

Customer-oriented, flexible configuration

Configuration variants

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.

	EasyCheck Basic	EasyCheck Pro
Main application	Round tablets	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	optional	optional
Audit Trail (21 CFR Part 11 compliant)	optional	optional
Data export in CSV and XML format	optional	optional

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
- + Audit trail, 21 CFR Part 11 compliant
- + 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

Technical data



Measurement Range

Hardness	3 - 500 N (optional 3 - 1000 N) (± 1 N)
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Diameter/Length	2 - 26 mm (± 0.05 mm)
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Thickness	Linear potentiometer, 2 - 10 mm (± 0.05 mm)
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Weight	Integrated Sartorius weighing cell, 0,02 - 64 g ($\pm 0,0001$ g)
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Width (EasyCheck Pro)	2 - 26 mm (± 0.05 mm)
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Measurement Principles

Constant Speed	0.05 - 3 mm/sec.
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Constant Force	10 - 200 N/sec.
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Appliance details

Power	100 - 240 V / 50-60 Hz / 150 W
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Width / depth / height	360 mm (422 mm with collec- tion container) / 467 mm / 321 mm (646 mm with open acrylic cover)
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Weight	30 kg
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Device control	7 inch touch display, with sup- port for USB keyboards
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Compliance firmware	21 CFR Part 11 compliant (optional)
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Connectivity	USB A for printer, USB B for PC, LAN (Ethernet - RJ45), SD-card slot
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Compliance MC.NET software	21 CFR Part 11 compliant
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ERWEKA GmbH

Ottostr. 20-22

63150 Heusenstamm

Germany

E-Mail: sales@erweka.com

Phone: +49 6104 6903-0

Fax: +49 6104 6903-40

Technical specifications of products described are stated without war-
ranty and subject to change at any time without further notice.
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