

ERWEKA



THE SEMI-AUTOMATED HARDNESS TESTER TBH 425

**TESTING OF UP TO FOUR TABLET
PARAMETERS WITH A FUNCTIONAL
ROTARY MAGAZINE**

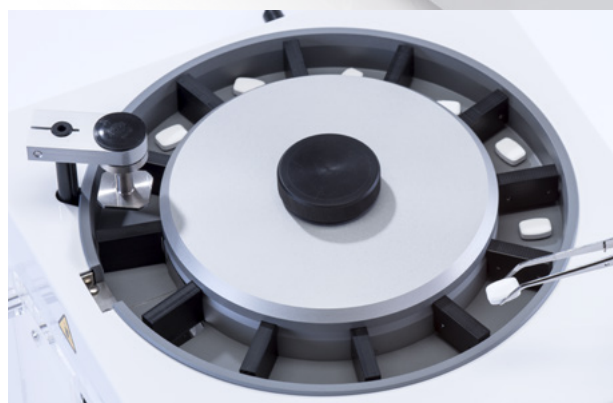
OVERVIEW

TBH 425 SERIES

The ERWEKA TBH 425 is a semi-automatic tablet hardness and combination tester for measuring of up to ten samples. The samples are automatically transported to the test station by a star-shaped rotary magazine. Depending on the device model, automatic measurement can be taken for tablet hardness and thickness (optional), diameter (for round tablets) or length (for oblongs). In combination with the optional balance the weight can also be determined. In addition, the rotary magazine enables full visual inspection of the test processes at all times. Up to 150 tablets can be precisely tested in one run and the acquired data can be documented and evaluated. Therefore the TBH 425 can be connected to a printer via the USB printer interface. In addition, the Ethernet LAN interface allows connecting a computer with the optional ERWEKA MC.NET software.

KEY FACTS

- 
100% 100% USP/EP/JP compliant
- 
 Setting of test speed (0.1 - 3.0 mm/sec.)
- 
 Adjustment of force increase (10 - 200 N/sec.)
- 
 Automatic cleaning of the magazine
- 
 Collection container for broken samples



Star-shaped rotary magazine

The star-shaped rotary magazine of the TBH 425 enables semi-automatic testing of up to ten samples. All you have to do is to insert the tablets in the intended chambers of the magazine - the subsequent testing is completely performed by the TBH 425. Sample residues are automatically removed during sample transport.

*= Option

4 PARAMETERS:



Thickness



Diameter/
Length



Hardness



Weight



Automatic calibration with AutoCal 2.0*

The calibration of the TBH 425 is completely menu-driven and may be carried out statically by weight stones or dynamically by the electronic ERWEKA AutoCal 2.0 System. In addition, the unit generates a calibration print-out outlining individual calibration data and further information (service date and time, serial number).

Storage for up to 50 products

Via a numeric keypad with alphanumeric subfunction the nominal hardness values in combination with three individual tolerances can be entered for up to 50 products and afterwards recalled for testing.

PC control via MC.NET

The Ethernet LAN interface allows connecting a computer with the ERWEKA MC.NET software. In combination with this option the TBH 425 series is 100 % 21 CFR 11 compliant and can be controlled via a PC.



With the optional MC.NET software the test results can be easily stored in a database*.

TECHNICAL DATA

TBH 425 SERIES

Measurement range hardness	3 - 500 N
Extended measuring range hardness*	3 - 1000 N (± 1 N)
Diameter/Length	2 - 28 mm (± 0.05 mm)
Thickness*	2.0 - 10 mm (± 0.05 mm)
Weight*	20.0 mg - 64 g** (± 0.1 mg)
Constant speed	0.1 - 3.0 mm/sec.
Constant force	10 - 200 N/sec.
Calibration	Weights (statistic calibration), Optional: AutoCal 2.0 (dynamic calibration)
Interfaces	SD card, Ethernet (LAN), RS 232 C*, 1x USB-A and 1x USB-B interface for printer / Autoal 2.0
Power supply	100 - 240 V / 50 - 60 Hz
Weight	15 kg
Dimensions (W x H x D)	350 x 240 x 375 mm



Optional thickness testing via a linear potentiometer*.

*= Option

**= Depending on the balance type

OPTIONS

- + Diameter measurement (length for oblongs) up to 28 mm, accuracy ± 0.05 mm
- + Thickness measurement up to 10 mm, accuracy ± 0.05 mm
- + Weight measurement, different Sartorius and Mettler balances available
- + Extended measuring range 3 – 1.000 N, accuracy ± 1 N
- + AutoCal 2.0 system - automated tool for calibrating the hardness test without weight
- + Test jaws for sugar coated tablets
- + Test jaws for oblong shaped tablets
- + MC.NET software to operate TBH 425 via PC
- + RS 232 interface for standard data export
- + Qualification documents IQ/OQ/PV
- + ERWEKA IQ/OQ/PV service on customer site
- + Maintenance service

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