

Tablet Hardness Tester TBH 425

Semi-automated hardness & combination tester

The tablet hardness tester TBH 425 offers semi-automated measurement of tablet hardness and optional thickness, diameter/length and weight measurement of round and odd shaped samples.

The samples are transported automatically to the test station via the star shaped magazine which holds 10 samples. 100 tablets can be tested in one test run.

The TBH 425 provides a memory function for 50 individual products or sample types which stores the nominal hardness in combination with 3 individual plus/minus tolerances.

The TBH 425 unites high-quality with innovative design and worry-free operation.



Features TBH 425

- Precise hardness and combination* tester
- Automated transport of up to 10 samples
- Constant force and constant speed method selectable
- Automatic cleaning of the transport way
- Collection container with splash guard
- Fast and easy menu guided calibration
- Numeric keypad with alpha-numeric sub function for entering test parameters, product name, batch number and remarks
- Memory function for 50 products with 3 tolerances
- Integrated menu (password protected) for static calibration, settings and documentation printout
- Measuring units in Newton, Strong Cobb and Kilopond
- Values in mm, inch, mg or g
- USB interface for USB memory stick
- SD Card Slot
- USB printer interface for documentation of time, date, results and statistics
- 100% USP/EP/JP compliant

Hardness

- The tablet hardness can be measured with either constant speed or constant force principle



Diameter

- A ridge ensures perfect alignment to measure first diameter and then hardness



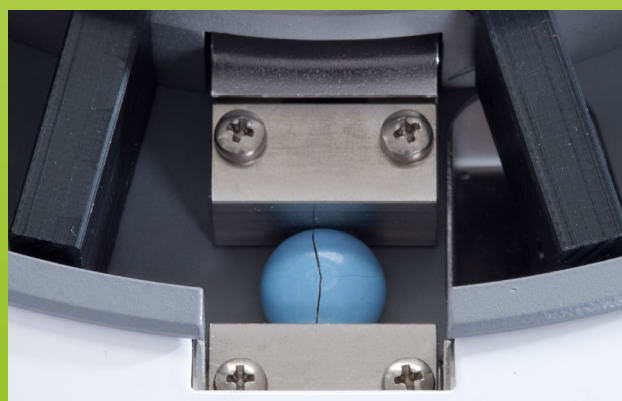
Thickness

- Thickness is measured via a motor-driven electronic linear potentiometer

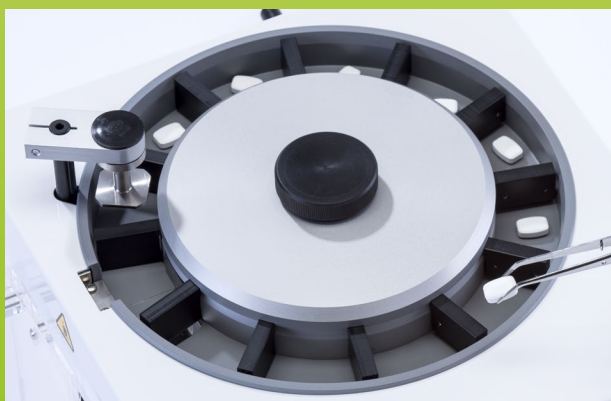


Weight

- The weight is measured manually with the external balance where weight is determined and the data is transferred to the TBH 425



Hardness testing with constant force or constant speed method



Magazine for 10 samples with automated sample transport.

TBH 425

Options

- + Diameter/length (for oblongs) measurement
- + Thickness measurement
- + Weight measurement, different Sartorius and Mettler balances available
- + Extended hardness measuring range 3 – 1.000 Newton
- + Groove for guiding oblong shaped samples
- + AutoCal 2.0 System, automated tool for calibrating the hardness tester without weights
- + Win.print software for network printing
- + MC.net software to operate TBH from PC
- + RS 232 interface for standard data export
- + Qualification documents (IQ/OQ /PV)
- + ERWEKA IQ/OQ/PV service on customer site
- + Maintenance service

Technical Data

Measurement Range	
Hardness	3-500 N (± 1 N) standard
	3-1000 N (± 1 N) *
Diameter/Length	2-28 mm (± 0.05 mm)*
Thickness	0.10-10 mm (± 0.05 mm)*
Weight	20.0 mg - 50.000 g (± 1 mg)*
Measurement Principles	
Constant Speed	0.05-3.00 mm/sec.
Constant Force	10-200 N/sec.
Appliances details	
Power	100-240 V / 50-60 hz
Width/depth/height	350 / 375 / 240 mm
Weight	15 kg

* = option



MC.net software for operation of the TBH 425.



Optional thickness testing up to 10 mm samples.