

## Tablet Hardness Tester TBH 325

Hardness & combination tester

The TBH 325 is a compact manual hardness and combination tester for measuring up to 4 parameters – hardness, diameter\*/ length\*, thickness\* and weight\* of tablets of all kinds.

The USP/EP/JP compliant tester offers several configurations and options for all needs. The standard measuring range of 3 to 500 newton can be extended to 1000 newton, and it measures in constant force or constant speed mode.

Up to 100 tablets can be precisely tested in one run. The TBH 325 offers robust design that can be used directly within production environments and provides quick test results which are easily documented. Up to 50 products with three tolerances can be stored and recalled any time.



### Features TBH 325

- Precise hardness and combination\* tester
- 100% USP / EP / JP compliant
- Constant force or constant speed method selectable
- Adjustable breaks between the samples of test run
- 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 printer interface for documentation of time, date, results and statistics
- USB interface for USB memory stick
- Ethernet interface
- SD card slot

### Hardness

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



### Diameter\* (Length\*)

- A grooveway ensures that the tablet is perfectly aligned to measure the diameter/length



### Thickness\*

- Thickness is measured manually



### Weight\*

- The weight is measured manually via the externally connected balance, then data is transferred to the TBH 325 WTD



\*= option



Interfaces for USB, LAN, SD card



TBH 325 WTD offers weight measurement\* with data transfer to the TBH 325

# TBH 325

## Options

- + Diameter / length (for oblongs) measurement
- + Thickness measurement
- + Weight measurement, different Sartorius and Mettler balances available
- + Extended measuring range 3 – 1.000 Newton
- + Extended diameter/length measuring range 2 – 70 mm
- + Test jaws for sugar coated tablets
- + Test jaws for oblong shaped tablets
- + AutoCal 2.0 System, automated tool for calibrating the hardness tester without weights
- + Win.print software to transfer measuring results to a PC
- + 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 Specifications

Measurement Range	
Hardness	3 - 500 N ( $\pm 1$ N)
extended*	3 - 1000 N ( $\pm 1$ N)
Diameter/Length*	2 - 28 mm ( $\pm 0.05$ mm)
extended	2 - 70 mm ( $\pm 0.05$ mm)
Thickness*	0.10 - 12 mm ( $\pm 0.05$ mm)
Weight*	20 mg - 64 g ( $\pm 0.1$ 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 / 310 mm
Weight	10 kg

\*= option



With MC.net software\* the hardness tester can be operated from a PC



Optional thickness testing